



SNMP MIB Reference, StarOS™ Release 21.28

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Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive San Jose,
CA 95134-1706 USA
<http://www.cisco.com> Tel:
408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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SNMP MIB Reference, StarOS Release 21.27

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STARENT-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,
 OBJECT-TYPE,
 enterprises,
 Integer32,
 Gauge32,
 Counter32,
 Counter64,
 Unsigned32,
 NOTIFICATION-TYPE,
 IpAddress
 FROM SNMPv2-SMI
 TEXTUAL-CONVENTION,
 DisplayString,
 DateAndTime,
 TruthValue
 FROM SNMPv2-TC
 Ipv6Address
 FROM IPV6-TC
 MODULE-COMPLIANCE,
 OBJECT-GROUP,
 NOTIFICATION-GROUP
 FROM SNMPv2-CONF
 InetAddressType,
 InetAddress
 FROM INET-ADDRESS-MIB
 radiusAuthServerIndex,
 radiusAuthServerAddress
 FROM RADIUS-AUTH-CLIENT-MIB
 radiusAccServerIndex,
 radiusAccServerAddress
 FROM RADIUS-ACC-CLIENT-MIB;

starentMIB MODULE-IDENTITY

LAST-UPDATED "202407260000Z" --July 26, 2024

ORGANIZATION "Cisco Systems, Inc."

CONTACT-INFO

" Email: support@starentnetworks.com

Web: www.cisco.com

Cisco Systems, Inc.

30 International Place

Tewksbury, MA 01876

(978) 851-1100"

DESCRIPTION

"Cisco Systems ASR 5xxx series of multimedia core platforms (ASR 5000, ASR 5500)

Designed exclusively for mobile and fixed mobile converged applications, Cisco's ASR 5xxx series products provide a high-performance, highly intelligent platform ideally suited for development in mobile operator networks to fulfill key multimedia core networking functions. The platform features 2G/3G/4G and WiFi multi-service access independent capabilities coupled with a carrier class high-availability design. Harnessing subscriber awareness with an abundant supply of distributed processing resources, the ASR 5xxx series offers a variety of high touch Inline Services to enable service providers to monetize the value of the network while enriching the overall subscriber experience."

REVISION "202407260000Z"

DESCRIPTION

" Added Trap 1451 - 1454 for starUPFOverload, starUPFOverloadClear, starUPFSelfProtectionMode, starUPFSelfProtectionModeClear "

REVISION "202405210000Z"

DESCRIPTION

" Added Trap 1447 - 1450 for starPreThreshIPPoolUsable, starPreThreshClearIPPoolUsable, starFinalThreshIPPoolUsable, starFinalThreshClearIPPoolUsable
Added Trap datatype starAHTAge 230"

REVISION "202403250000Z"

DESCRIPTION

" Added Trap 1446 for starS8HRLMISFSigConfNotFound to indicate Signalling config is not found while processing S8HR APN List"

REVISION "202402150000Z"

DESCRIPTION

" Added Revision for traps starSxMonitorDown and starSxMonitorUp and corrected older incorrectly added revisions
"

REVISION "202308210000Z"

DESCRIPTION

" Corrected description for starSxPeerUnsupportedVersionClear"

REVISION "202308210000Z"

DESCRIPTION

" Corrected description for starSessMgrAAAMgrGrStateUpdateFailure"

REVISION "202306150000Z"

DESCRIPTION

"Modified Trap Code for starSessMgrAAAMgrGrStateUpdateFailure from 1534 to 1445 for GR state update failure on AAAMgr"

REVISION "202305300000Z"

DESCRIPTION

" Added starSxMonitorDown trap in startrapgroup
"

REVISION "202305300000Z"

DESCRIPTION

" Added starSxMonitorUp trap in startrapgroup
"

REVISION "202305160000Z"

DESCRIPTION

"Added Trap 1442 Code for starUserPasswordExpiryInd to indicate password expiry to the user"

REVISION "202302190000Z"

DESCRIPTION

" Added Traps 1440 and 1441 for Demux availability in VPC-DI.
starRMDemuxUnavailable,
starRMDemuxUnavailableClear,
"

REVISION "202209180000Z"

DESCRIPTION

" Added Trap 1534 starSessMgrAAAMgrGrStateUpdateFailure for GR state update failure on AAAMgr.
"

REVISION "202209140000Z"

DESCRIPTION

"Modified the starRCMConfigPushComplete to use new object starObjectRCMCfgPushStatus as an Argument "

REVISION "202110190000Z"

DESCRIPTION

"Modified the starNicBondChange trap to use starMacaddress as Argument "

REVISION "202010280000Z"

DESCRIPTION

" Added trap 1428 to 431."

REVISION "202008280000Z"

DESCRIPTION

" Added starX3ContextId object and deprecated starX3ConTextName Object.
Modified the starX3MDConnUp and starX3MDConnDown trap "

REVISION "202005270000Z"

DESCRIPTION

" Modified starIPSECGroupName object and starX3MDConnDown trap description.
Removed IPSEC type from starX3ConnType object."

REVISION "202005290000Z"

DESCRIPTION

" Added Trap 1424 - 1427 starRCMTCPDisconnect starRCMTCPConnect starRCMChassisState and starRCMChassisReload for RCM
Added Trap datatype starObjectRCMChassisState 211
Added Trap datatype starObjectRCMReloadReason 212
"

REVISION "202004010000Z"

DESCRIPTION

" Added Trap 1420, 1421 starRCMConfigPushCompleteReceived and starRCMConfigPushComplete determines the config push from RCM
Configmgr is received and applied in the UP.
"

REVISION "201910310000Z"

DESCRIPTION

" Added Trap 1414, 1415 starRCMServiceStart and starRCMServiceStop determines the start service and stop service of RCM.
"

REVISION "201909110000Z"

DESCRIPTION

" Added objects starBulkStatTaiTimer, they would be used in newly added notification starBulkStatisticsTaiTimeOut
"

REVISION "202004190000Z"

DESCRIPTION

"Added Trap 1422 - 1423 starX3MDConnDown and starX3MDConnUp for connecting to CALEA.
"

REVISION "202106250000Z"

DESCRIPTION

"Added Trap 1436 - 1437 sessionUnevenDistribution and sessionUnevenDistributionClear for handling notifications for high and clear
thresholds for session managers uneven resource usage..
"

REVISION "201906200000Z"

DESCRIPTION

" Added objects starCFGSyncAbortReason, they would be used in newly added notification starCFGSyncForUPPlaneRedundancyAbort
"

REVISION "201903280000Z"

DESCRIPTION

" Added objects starMMEManagerInst and starMMEManagerStatus, they would be used in newly added notification starMMEManagerBusy
and starMMEManagerNormal
"

REVISION "201903250000Z"

DESCRIPTION

" Added starServiceLossDetected trap in startrapgroup
"

REVISION "201902150000Z"

DESCRIPTION

" Added starIPAddressType and changes to SRP Trap MIBs to include this address
"

REVISION "201902140000Z"

DESCRIPTION

" starDisabledEventIDs and starLogLevelChanged modified for syntax correction

"

REVISION "201908290000Z"

DESCRIPTION

" Added Trap 1408 starMonSubProcessInitFailure for MonSub Handler Process Initialization failure

"

REVISION "201909240000Z"

DESCRIPTION

" Added Trap 1409 starMonSubPcapWriteFailure for MonSub Handler Process failure to write/copy pcap file.

"

REVISION "201909240000Z"

DESCRIPTION

" Added Trap 1410 starMonSubProcessConnectFailure for MonSub Handler Process failure to establish connection with the fastpath module.

"

REVISION "201910070000Z"

DESCRIPTION

" Added Trap 1412, 1413 starUPPlaneSelfOverload and starUPPlaneSelfOverloadClear for User-Plane self protection.

"

REVISION "202002280000Z"

DESCRIPTION

" Added Trap 1416 - 1419 starUPPlaneTsServiceChainPathNotSelected starUPPlaneTsServiceChainUp starUPPlaneTsServiceChainDown and starUPPlaneTsMissConfiguration for User-plane traffic steering.

"

REVISION "201809020000Z"

DESCRIPTION

" Added Traps 1399 to 1400 for UIDH URL Host Database
starUidhURLHostDatabaseUpgradeFailureStatus,
starUidhURLHostDatabaseUpgradeSuccessStatus,

"

REVISION "201809010000Z"

DESCRIPTION

" Added Traps 1401 to 1402 for critical events for Smart Licensing
starSmartLicenseFeatureOOC,
starSmartLicenseFeatureOOCclear,

"

REVISION "201806270000Z"

DESCRIPTION

" Added trap no 1398 for IFTask Boot Config Application on card<card-num>-cpu<cpu-num>.

"

REVISION "201805290000Z"

DESCRIPTION

"Added trap no 1394,1395,1396,1397 for Chassis Throughput."

REVISION "201804190000Z"

DESCRIPTION

"Added trap no 1392 for Sx Peer Node Associated."

REVISION "201804160000Z"

DESCRIPTION

"Added trap no 1388, 1389, 1390, 1391 for Control plane monitor packet loss on DI platform
starThreshControlPlaneMonitor5MinsLoss,
starThreshClearControlPlaneMonitor5MinsLoss,
starThreshControlPlaneMonitor60MinsLoss,
starThreshClearControlPlaneMonitor60MinsLoss

"

REVISION "201804040000Z"

DESCRIPTION

"Added trap no 1384, 1385, 1386, 1387 for Data plane monitor packet loss on DI platform
starThreshDataPlaneMonitor5MinsLoss,
starThreshClearDataPlaneMonitor5MinsLoss,
starThreshDataPlaneMonitor60MinsLoss,
starThreshClearDataPlaneMonitor60MinsLoss
"

REVISION "201803260000Z"

DESCRIPTION

"Added Trap datatype starSxFailureCause 192"

REVISION "201803250000Z"

DESCRIPTION

"Added trap no 1382, 1383 for Sx Path failure.
Added Trap datatype starSxInterfaceType 187
Added Trap datatype starSxSelfAddr 188
Added Trap datatype starSxPeerAddr 189
Added Trap datatype starSxPeerNewRecTimeStamp 190
Added Trap datatype starSxPeerOldRecTimeStamp 191"

REVISION "201712120000Z"

DESCRIPTION

"Added trap no 1378 ,1379, 1380.1381 for ADC license ,
Added Trap datatype starP2PPluginVersion 185
Added Trap datatype starADCLicenseExpiryDate 186"

REVISION "201709200000Z"

DESCRIPTION

"Added trap no 1376, which informs about change in nic bonding of a port
It is informational trap
Added Trap datatype starMacaddress 184"

REVISION "201709130000Z"

DESCRIPTION

"Added IKEv2 error traps for Control packet flooding.
"

REVISION "201709120000Z"

DESCRIPTION

"Added IFTask Health Failure traps.
starIFTaskHealthFailure
"

REVISION "201708160000Z"

DESCRIPTION

"Added IPSEC UDP error traps for Peer based Source-IP.
"

REVISION "201707220000Z"

DESCRIPTION

"Added IPSEC UDP error traps for System level.
"

REVISION "201707210000Z"

DESCRIPTION

"Added trap 1363 and 1364 for total-volume and total-volume clear
Added objects starRuleBaseName, starRuleDefName starGroupOfRuledef
"

REVISION "201705110000Z"

DESCRIPTION

"Added trap no 1362, which informs about change in Logging Level of a facility
(which is inferior to default Logging Level i.e., error) by a user
LogLevelChanged
"

REVISION "201704260000Z"

DESCRIPTION

"Added trap no 1361, which informs about Logging Event IDs been disabled by an user
DisabledEventIDs
"

REVISION "201704150000Z"

DESCRIPTION

" Added Traps 1349 to 1356 for critical events for Smart Licensing
starSmartLicenseServiceOOC,
starSmartLicenseServiceOOClear,
starSmartLicenseEvalMode,
starSmartLicenseEvalModeClear,
starSmartLicenseEvalModeExpire,
starSmartLicenseEvalModeExpireClear,
starSmartLicenseCSSMConnectionFail,
starSmartLicenseCSSMConnectionFailClear
"

REVISION "201703160000Z"

DESCRIPTION

"Hat heartbeat loss on the card w.r.t peer cards for DI platform
starThreshHatHb5MinsLoss,
starThreshClearHatHb5MinsLoss,
starThreshHatHb60MinsLoss,
starThreshClearHatHb60MinsLoss
"

REVISION "201703150000Z"

DESCRIPTION

" Added additional argument starSlotSerialNumber to applicable threshold port traps"

REVISION "201702270000Z"

DESCRIPTION

"Maximum Concurrent CLI Sessions enforcement on StarOS
starGlobalCLISessionsLimit,
starUserCLISessionsLimit
"

REVISION "201702150000Z"

DESCRIPTION

"Hat heartbeat loss on the card w.r.t peer cards for DI platform
starThreshHatHb5MinsLoss,
starThreshClearHatHb5MinsLoss,
starThreshHatHb60MinsLoss,
starThreshClearHatHb60MinsLoss
"

REVISION "201612220000Z"

DESCRIPTION

"Added trap nos. 1534, 1535 and 1536 with the following variables
starDiameterVpnName,
starDiameterRifContext,
starDiameterPeerName,
starDiameterEndpointName,
starDiameterRIFCode
starDiameterRIFTps,
starDiameterRifDelayTolerance,
starDiameterRifQueuePercent,
starDiameterDiamproxylInstance
"

REVISION "201612200000Z"

DESCRIPTION

" DOS Attack & Decryption Fail Traps added."

REVISION "201609160000Z"

DESCRIPTION
 "Log Source (LS) log volume threshold is added."
 REVISION "201608230000Z"

DESCRIPTION
 "Added Management Card switchover due to HD Raid unrecoverable failure trap"
 REVISION "201607270000Z"

DESCRIPTION
 " Added additional argument starSlotSerialNumber to all related traps"
 REVISION "201607040000Z"

DESCRIPTION
 "Mark the unsupported traps to obsolete"
 REVISION "201606230000Z"

DESCRIPTION
 "Corrected the names of the traps in StarOS and Starent.my file"
 REVISION "201606220000Z"

DESCRIPTION
 "Added SI and DI keywords in Traps"
 REVISION "201605120000Z"

DESCRIPTION
 "Added DDF Reload Trap"
 REVISION "201604180000Z"

DESCRIPTION
 " Removed starThreshDiscRsn, and added correct object to starThreshSNXDisconnectReason and starThreshClearSNXDisconnectReason"
 REVISION "201604130000Z"

DESCRIPTION
 " Streamlined all the numbers from 21.x to 17.x"
 REVISION "201604120000Z"

DESCRIPTION
 " Corrected Traps and MIB oid numbers "
 REVISION "201604110000Z"

DESCRIPTION
 " Corrected few trap numbers and errors in mib file"
 REVISION "201509140000Z"

DESCRIPTION
 " Added trap no. 1312 with the following variables
 starStatFileSizeLimit,
 starStatFileSizeMeasured
 Added trap no. 1313 with the following variables
 starStatFileSizeLimit,
 starStatFileSizeMeasured
 "
 REVISION "201509110000Z"

DESCRIPTION
 " Removed trap number 1191(starSEAGWServiceStart) and 1192(starSEAGWServiceStop) definition added"
 REVISION "201411040000Z"

DESCRIPTION
 " Removed trap number 1533 and 1534 and replaced with 1290 and 1291 supporting code"
 REVISION "201410300000Z"

DESCRIPTION
 " Added trap number 1288 and 1289 supporting code"
 REVISION "201410080000Z"

DESCRIPTION
 " Added trap no. 1282 with the following variables
 starGTPCRLFSSessMgrInst,
 starGTPCRLFVPNName,
 starGTPCRLFVPNId,
 starGTPCRLFContextName,

starGTPCRLFCurrAppTPS

Added trap no. 1283 with the following variables

starGTPCRLFSessMgrInst,
starGTPCRLFVPNName,
starGTPCRLFVPNId,
starGTPCRLFContextName,
starGTPCRLFCurrAppDelayTol

Added trap no. 1284 with the following variables

starGTPCRLFSessMgrInst,
starGTPCRLFVPNName,
starGTPCRLFVPNId,
starGTPCRLFContextName,

Added trap no. 1285 with the following variables

starGTPCRLFSessMgrInst,
starGTPCRLFVPNName,
starGTPCRLFVPNId,
starGTPCRLFContextName,

"

REVISION "201408040000Z"

DESCRIPTION

" Added starNpudriverECCError trap supporting code"

REVISION "201407230000Z"

DESCRIPTION

" removing the extra 1533 and 1534 traps"

REVISION "201407160000Z"

DESCRIPTION

" Added starNpudriverECCError trap(reserving the trap id) at 1281"

REVISION "201406110000Z"

DESCRIPTION

" Added Severity in starChassisCrashListFull Traps"

REVISION "201405080000Z"

DESCRIPTION

" Added starBFDSessUp, starBFDSessDown and starSRPSwitchoverOccured Traps"

REVISION "201404250000Z"

DESCRIPTION

" Added MME Related threshold traps from 440 to 445"

REVISION "201312210000Z"

DESCRIPTION

" Removing SGSN substring from trap number 1219 and 1220"

REVISION "201312200000Z"

DESCRIPTION

" Extended starChassisType to support KVM QvPC-SI chassis"

REVISION "201312060000Z"

DESCRIPTION

" Corrected IPv6 from IPv4 to trap number 1200"

REVISION "201312050000Z"

DESCRIPTION

"Fixed following issues

1. Revision not in reverse chronological order
2. not-accessible starent Index objects are modified to
MAX-ACCESS accessible-for-notify for those sent in trap"

REVISION "201311220000Z"

DESCRIPTION

"Added two MIBs (starMRMEServiceStart, starMRMEServiceStop) for MRME service

starMRMEServiceStart- starentTraps 1264

starMRMEServiceStop- starentTraps 1265

Added two MIBs (starThreshPerServiceSAMOGSessions,

starThreshClearPerServiceSAMOGSessions) for per service samog-service

starThreshPerServiceSAMOGSessions- starentTraps 519

starThreshClearPerServiceSAMOGSessions - starentTraps 520"

REVISION "201310040000Z"

DESCRIPTION

"Changed following notification names

```

starThreshAAAActArchiveQueue-1,
starThreshClearAAAActArchiveQueue-1,
starThreshAAAActArchiveQueue-2,
starThreshClearAAAActArchiveQueue-2,
starThreshAAAActArchiveQueue-3,
starThreshClearAAAActArchiveQueue-3
to
starThreshAAAActArchiveQueue1,
starThreshClearAAAActArchiveQueue1,
starThreshAAAActArchiveQueue2,
starThreshClearAAAActArchiveQueue2,
starThreshAAAActArchiveQueue3,
starThreshClearAAAActArchiveQueue3.

```

Added , in starLIRcvryErrType object.

Changed StarUDPPortNum object to starUDPPortNum object in following notifications:

```

starECSreaddressServerDown,
starECSreaddressServerUp.

```

Added definition for starMMEInitialDisallowReason object.

Added new number for QvPC-SI platform in starChassisType object."

REVISION "201309270000Z"

DESCRIPTION

" Added missing object starFractE1TribTimeslots to starSDHFractE1LMIUp notification , changed MAX-ACCESS to accessible-for-notify from not-accessible for the following objects

```

starFractE1TribSlot,
starFractE1TribPort,
starFractE1TribPath,
starFractE1TribTug2,
starFractE1TribTu12

```

and moved starFractE1TribBundNum object to obsolete state."

REVISION "201309250000Z"

DESCRIPTION

"Change starSlotPort to storSlotNum in ApsChannelMismatch trap 1150"

REVISION "201307230000Z"

DESCRIPTION

"Replaced underscore sign with hyphen from starServiceType enum "

REVISION "201307150000Z"

DESCRIPTION

"Modified SEVERITY from ERROR to MAJOR for following traps:

```

starPortDown,
starSRPConnDown,
starLAGGroupDown.

```

Changed starPortSlot, starPortNum, starContextName and starSRPIpAddress objects access to accessible-for-notify."

REVISION "201307100000Z"

DESCRIPTION

"Changed the name of trap starThreshNAPTPortChunks to starThreshNATPortChunks and starThreshClearNAPTPortChunks to starThreshClearNATPortChunks"

REVISION "201306260000Z"

DESCRIPTION

"Changed the APS related traps according to the implementation present in trap_api.c following traps are modified:

```

starApsCommandSuccess,
starApsCommandFailure,
starApsSwitchSuccess,
starApsSwitchFailure,
starApsModeMismatch,
starApsChannelMismatch,
starApsByteMismatch,

```

starApsFeProtLineFailure,
starApsLossOfRedundancy,
starApsLossOfRedundancyClear."

REVISION "201306110000Z"

DESCRIPTION

"Changed object type from starContextName to starCLIContext for the following traps:

starLocalUserAdded,
starLocalUserRemoved,
starOsShellAccessed,
starTestModeEntered,
starLicenseFeaturesModified,
starHiddenAccessEnabled,
starHiddenAccessDisabled."

REVISION "201306040000Z"

DESCRIPTION

" Added the missing objects and modified the summary field for starTechSuppPasswdChanged trap"

REVISION "201305240000Z"

DESCRIPTION

"Corrected starChassisCrashListFull description section"

REVISION "201305220000Z"

DESCRIPTION "changed starEGTPInterfaceType Enum in trap number 1112"

REVISION "201305070000Z"

DESCRIPTION

"changed starEGTPInterfaceType Enum
changed STATE and SEVERITY fields for All APS,
related notifications."

REVISION "201304250001Z"

DESCRIPTION

"Deprecated following traps
starCardSPCSwitchoverStart,
starCardSPCSwitchoverComplete,
starCardSPCSwitchoverFailed
starCardPACMigrateStart,
starCardPACMigrateComplete,
starCardPACMigrateFailed,

Added following traps for above trap as respective replacement
starCardSwitchoverStart,
starCardSwitchoverComplete,
starCardSwitchoverFailed,
starCardMigrateStart,
starCardMigrateComplete,
starCardMigrateFailed"

REVISION "201304250000Z"

DESCRIPTION

"Added two MIBs (starSAMOGServiceStart, starSAMOGServiceStop) for SAMOG service.

starSAMOGServiceStart- starentTraps 1251
starSAMOGServiceStop- starentTraps 1252"

REVISION "201304180000Z"

DESCRIPTION

"Changed SUMMARY clause for starLongDurTimerExpiry notification.

Changed MAX-ACCESS to accessible-for-notify for following objects:

starSubMSID,
starSubName,
starSubTimerDuration,
starSubLongDurTimeoutAction,
starSubSetupTime,
starSubHomeAddr,
starSubHomeAddrv6."

REVISION "201304160000Z"

DESCRIPTION

"changed STATE and SEVERITY fields for starSDHPathHopUp, starSDHE1TribUp and starSDHFractE1LMIDown notifications."

REVISION "201304090000Z"

DESCRIPTION

"Added trap no. 1251 with the following variables

starPMIPVpnName,
starPMIPServName,
starPMIPSelfAddrType,
starPMIPSelfAddr,
starPMIPPeerAddrType,
starPMIPPeerAddr,
starPMIPPeerOldRstCnt,
starPMIPPeerNewRstCnt,
starPMIPPeerSessCnt,
starPMIPFailureReason

Added trap no. 1252 with the following variables

starPMIPVpnName,
starPMIPServName,
starPMIPSelfAddrType,
starPMIPSelfAddr,
starPMIPPeerAddrType,
starPMIPPeerAddr"

REVISION "201304050000Z"

DESCRIPTION

" Added the following flags in APS related traps"

REVISION "201304040000Z"

DESCRIPTION

"changed SEVERITY level from INFORMATIONAL to WARNING for starSGSNRMMemWarn notification."

REVISION "201303260000Z"

DESCRIPTION

"Added trap no. 1177, with the following variables

starSlotNum,
starCardType,
starPortSlot"

REVISION "201303180000Z"

DESCRIPTION

"Modified starPCFUnreachable description section
Updated correct object name starEISServerVPNName in
starEISServerAlive
starEISServerDead traps.
Added starPCFReachable trap support"

REVISION "201303110000Z"

DESCRIPTION

"Changed starFanNum range in SYNTAX and MAX-ACCESS.
Added starFanLocation ASR5500 fan location details.
Changed SUMMARY clause for following traps
starFanFailed,
starFanRemoved,
starFanInserted,"

REVISION "201303060000Z"

DESCRIPTION

"Changed SYNTAX clause from Integer32 to Gauge32 for
following objects:
starCPUUser,
starCPUSystem,
starCPUIidle,
starCPUIO,
starCPUIRQ,
starCPUMemUsed,

starCPUMemCached

Changed SYNTAX clause from Integer32 to Gauge32 and also changed range for following objects:

starCPULoad1Min,
starCPULoad5Min,
starCPULoad15Min,
starCPUNumProcesses."

REVISION "201302280000Z"

DESCRIPTION

"Added context name to the OBJECTS and updated ARGUMENTS field for the following traps:

starLocalUserAdded,
starLocalUserRemoved,
starOsShellAccessed,
starTestModeEntered,
starLicenseFeaturesModified,
starHiddenAccessEnabled,
starHiddenAccessDisabled"

REVISION "201302260000Z"

DESCRIPTION

"Changed starThreshMeasuredPct SYNTAX from Integer32 to Gauge32.

Changed starPortNum object range.

Changed SUMMARY clause in starM3UAPCUnavailable and starM3UAPCAvailable traps.

Changed objects from starThreshInt and starThreshMeasuredInt to starThreshPct and starThreshMeasuredPct and also changed SUMMARY and ARGUMENTS clauses in following traps:

starThreshIPPoolAvail,
starThreshClearIPPoolAvail,
starThreshIPPoolHold,
starThreshClearIPPoolHold,
starThreshIPPoolUsed,
starThreshClearIPPoolUsed,
starThreshIPPoolRelease,
starThreshClearIPPoolRelease,
starThreshIPPoolFree,
starThreshClearIPPoolFree,
starThreshNATPortChunks,
starThreshClearNATPortChunks,
starThreshPortHighActivity,
starThreshClearPortHighActivity,
starThreshTpoDnsFailure,
starThreshClearTpoDnsFailure,
starThreshDnsLookupFailure,
starThreshClearDnsLookupFailure,
starThreshBGPRoutes,
starThreshClearBGPRoutes.

Changed SUMMARY and ARGUMENTS clauses in following traps:

starThreshCPUUtilization,
starThreshClearCPUUtilization,
starThreshCPUUtilization10Sec,
starThreshClearCPUUtilization10Sec,
starThreshCPUMemUsage,
starThreshClearCPUMemUsage,
starThreshCPUOrbsWarn,
starThreshClearCPUOrbsWarn,
starThreshCPUOrbsCritical,
starThreshClearCPUOrbsCritical,

```

starThreshCPUCryptoCoresUtilization,
starThreshClearCPUCryptoCoresUtilization,
starThreshLicense,
starThreshClearLicense,
starThreshPortRxUtil,
starThreshClearPortRxUtil,
starThreshPortTxUtil,
starThreshClearPortTxUtil,
starThreshAAAAAuthFailRate,
starThreshClearAAAAAuthFailRate,
starThreshAAAAacctFailRate,
starThreshClearAAAAacctFailRate,
starThreshAAARetryRate,
starThreshClearAAARetryRate,
starThreshAAAMgrQueue,
starThreshClearAAAMgrQueue,
starThreshAAAAacctArchiveQueue-1,
starThreshClearAAAAacctArchiveQueue-1,
starThreshAAAAacctArchiveQueue-2,
starThreshClearAAAAacctArchiveQueue-2,
starThreshAAAAacctArchiveQueue-3,
starThreshClearAAAAacctArchiveQueue-3,
starThreshRPSetupFailRate,
starThreshClearRPSetupFailRate,
starThreshPPPSetupFailRate,
starThreshClearPPPSetupFailRate,
starThreshStorageUtilization,
starThreshClearStorageUtilization,
starThreshIPSECIKEFailRate,
starThreshClearIPSECIKEFailRate,
starThreshEPDGIKEV2SetupFailureRate,
starThreshClearEPDGIKEV2SetupFailureRate,
starThreshNPUUtilization,
starThreshClearNPUUtilization,
starThreshDiameterRetryRate,
starThreshClearDiameterRetryRate,
starThreshSystemCapacity,
starThreshClearSystemCapacity,
starThreshEDRFileSpace,
starThreshClearEDRFileSpace,
starThreshCDRFileSpace,
starThreshClearCDRFileSpace,
starThreshCardTemperatureNearPowerOffLimit,
starThreshClearCardTemperaturePowerOffLimit."
REVISION    "201212040000Z"
DESCRIPTION
    "Changed SYNTAX clause for starPortNum and starRedundantPortNum objects"
REVISION    "201209250000Z"
DESCRIPTION
    "Changed starSlotMappingTable table DESCRIPTION."
REVISION    "201207230000Z"
DESCRIPTION
    "Removed starSGSNAllocated and starSGSNUused objects and added
    starThreshInt and starThreshMeasuredInt objects for starSGSNRMCPUWarn,
    starSGSNRMCPUWarnClear, starSGSNRMMemWarn, starSGSNRMMemWarnClear,
    starRMCPUOver, starRMCPUOverClear, starSGSNRMMemOver and
    starSGSNRMMemOverClear."
REVISION    "201207130000Z"
DESCRIPTION
    "Changed object from starServiceVpnID to starServiceVpnName and
    arguments macro in starSessionRejectNoResource Notification.

    Added commas(,) in ARGUMENTS field of starServiceLossLCClear
    Trap definition.

    Added additional object starCPUSlot and starCPUNumber in

```

```

starThreshCPUOrbsWarn, starThreshClearCPUOrbsWarn,
starThreshCPUOrbsCritical and starThreshClearCPUOrbsCritical traps."
REVISION "201207090000Z"
DESCRIPTION
    "starSAEGWSessThreshold and starSAEGWSessThresholdClear Notification
objects have been added.
Fixed starServiceLossLCClear ARGUMENTS field information."
REVISION "201205150000Z"
DESCRIPTION
"ASR5500 slot types are added in StarentSlotType"
REVISION "201204130000Z"
DESCRIPTION
    "The Notifications starThreshPortSpecRxUtil,starThreshClearPortSpecRxUtil,
starThreshPortSpecTxUtil,starThreshClearPortSpecTxUtil has been moved to
deprecated state."
REVISION "201204050000Z"
DESCRIPTION
    "The object starPowerFilterUnitFailed has been moved to deprecated state"
REVISION "201110140000Z"
DESCRIPTION
    "The latest version of this MIB module"
::= { enterprises 8164 }

```

-- Textual Conventions

StarentSlotType ::= TEXTUAL-CONVENTION

```

STATUS current
DESCRIPTION
    "Describes the type of a slot. Each slot in the chassis is build to contain
specific type(s) of cards. Only a card of one of the appropriate types
can be put into a specific slot."
SYNTAX INTEGER {
    unknown(1),
    pactac(2),
    spc(3),
    lc(4),
    rcc(5),
    spio(6)
}

```

StarentCardType ::= TEXTUAL-CONVENTION

```

STATUS current
DESCRIPTION
    "Describes the type of a card. Each type represents a physically different
card which would have a unique part number."
SYNTAX INTEGER {
    none(1),
    unknown(2),
    spc(3),
    pac(4),
    spio(5),
    rcc(6),
    lceth(7),
    lcgeth(8),
    lcds3(9),
    tac(10),
    lcoc3(11),
    lcoc12(12),
    smc(13),
    psc(14),
    lcqgeth(15),
    lctgeth(16),
    vmc(17),
    vpc(18),
    viceth1p(19),
    lcgeth2(20),

```



```

lceth2(21),
psc2(22),
psc3(23),
pscA(24),    -- Packet Services Card A
ppc(25),    -- Packet Processing Card
lcchan3p2(26), -- Channelized Line card 2 Port
lcchan3p4(27), -- Channelized Line card 4 Port
fanctrl6(28), -- Fan control revision 6
vioc(29),   -- Virtual I/O Card
gpdsp(30),  -- GP-DSP Daughter Card
xme(31),    -- XME Daughter Card
vop(32),    -- VOP Daughter Card
edc(33),    -- EDC card
mio(34),    -- Management & I/O Card
mio10g10p(35), -- Management & 10x10Gb I/O Card
mio10g20p(36), -- Management & 20x10Gb I/O Card
mio40g2p(37), -- Management & 2x40Gb I/O Card
mio40g4p(38), -- Management & 4x40Gb I/O Card
mio40g12p(39), -- Management & 12x40Gb I/O Card
miodc(40),  -- MIO Daughter Card
fsc(41),   -- Fabric Card
dpc(42),   -- Data Processing Card
mdpc(43),  -- M Data Processing Card
dpcdc(44), -- DPC Daughter Card
ssc(45),   -- System Status Card
voc(46),   -- Virtual Card
cfc(47),   -- Control Function Virtual Card
sfc1p(48), -- 1-Port Service Function Virtual Card
sfc2p(49), -- 2-Port Service Function Virtual Card
sfc3p(50), -- 3-Port Service Function Virtual Card
sfc4p(51), -- 4-Port Service Function Virtual Card
dpc2(52),  -- Data Processing Card 2
    mio2(53)      -- Management & I/O Card 2
}

```

StarParentVersionNum ::= TEXTUAL-CONVENTION

DISPLAY-HINT "256a"

STATUS current

DESCRIPTION

" "

SYNTAX OCTET STRING (SIZE (0..256))

StarRelayState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of a Central Office (CO) relay."

SYNTAX INTEGER {

off(1),

on(2),

unknown(3)

}

StarLongDurTimeoutAction ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The action taken by the system upon detection of a long-duration session"

SYNTAX INTEGER {

unknown(0),

detection(1),

disconnection(2),

notapplicable(3),

dormantdisconnection(4),

dormantdetection(5)

}

StarShortName ::= TEXTUAL-CONVENTION

DISPLAY-HINT "32a"

STATUS current

DESCRIPTION

"A short identification string. Follows the same conventions as the DisplayString TEXTUAL-CONVENTION."

SYNTAX OCTET STRING (SIZE (1..32))

StarShortID ::= TEXTUAL-CONVENTION

DISPLAY-HINT "17a"

STATUS current

DESCRIPTION

"An abbreviated form for identifying a service, composed of the first 8 characters of the context name, and the first 8 characters of a service name, seperated by (:)"

SYNTAX OCTET STRING (SIZE (1..17))

StarMediumID ::= TEXTUAL-CONVENTION

DISPLAY-HINT "25a"

STATUS current

DESCRIPTION

"An abbreviated form for identifying a context-specific object, composed of the first 8 characters of the context name, and the first 16 characters of the object name, seperated by (:)"

SYNTAX OCTET STRING (SIZE (1..25))

StarENBID ::= TEXTUAL-CONVENTION

DISPLAY-HINT "16a"

STATUS current

DESCRIPTION

"An eNodeB identifier in the form aaa:bbb:cccccccc"

SYNTAX OCTET STRING (SIZE (1..16))

StarQOSTPAction ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Traffic Policing Action"

SYNTAX INTEGER {

unknown(0),
notapplicable(1),
transmit(2),
drop(3),
loweripprecedence(4)
}

StarOSPFNeighborState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"OSPF Neighbore State"

SYNTAX INTEGER {

unknown(0),
down(1),
attempt(2),
init(3),
twoway(4),
exstart(5),
exchange(6),
loading(7),
full(8)
}

starentMIBObjects OBJECT IDENTIFIER ::= { starentMIB 1 }

-- Chassis table

starentChassis OBJECT IDENTIFIER ::= { starentMIBObjects 1 }

starChassisCriticalCO OBJECT-TYPE

SYNTAX StarRelayState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Critical Central Office (CO) relay"

::= { starentChassis 1 }

starChassisMajorCO OBJECT-TYPE

SYNTAX StarRelayState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Major Central Office (CO) relay"

::= { starentChassis 2 }

starChassisMinorCO OBJECT-TYPE

SYNTAX StarRelayState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Minor Central Office (CO) relay"

::= { starentChassis 3 }

starChassisAction OBJECT-TYPE

SYNTAX INTEGER {

noaction(1),

aco(2),

reset(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Trigger to perform certain system-wide operations.

noaction(1) performs no operation. It is the normal value received when this attribute is read.

aco(2) triggers the Alarm Cut-Off, which shuts off all of the Central Office (CO) audible/visual relays.

reset(3) triggers a system-wide restart. It will completely disrupt service on the device."

::= { starentChassis 5 }

starTimeTicks OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Time ticks since the Epoch"

::= { starentChassis 6 }

starChassisAudibleAlarm OBJECT-TYPE

SYNTAX StarRelayState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the chassis Audible Alarm"

::= { starentChassis 7 }

starChassisUTCTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current time on the chassis, in UTC format"

::= { starentChassis 8 }

starChassisLocalTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current time on the chassis, converted to the local timezone"

::= { starentChassis 9 }

starChassisType OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

st16(1),

st40(2),

xt2(3),

st20(4),

asr5000(5),

asr5500(6),

ssi(7),

ssi-kvm-guest(8),

ssi-kvm-vsm-guest(9),

qvpc-di(10)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of physical chassis"

::= { starentChassis 10 }

starChassisDescription OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A brief description of the chassis"

::= { starentChassis 11 }

starChassisSWRevision OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The software revision running on the chassis"

::= { starentChassis 12 }

starChassisPeakCpuUsage OBJECT-TYPE

SYNTAX Integer32(1..10000)

UNITS "percentage times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Percentage of the system level peak cpu usage.starChassisPeakCpuUsage is the percentage value times 100; for example,2.3% would be represented as 230"

::= { starentChassis 13 }

starChassisPeakMemoryUsage OBJECT-TYPE

SYNTAX Integer32(1..2097152)

UNITS "KB"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The system level peak memory usage, in kilobytes, rounded down (i.e. 1023 bytes = 0 kilobytes)"

::= { starentChassis 14 }

-- Slot table

starentSlots OBJECT IDENTIFIER ::= { starentMIBObjects 2 }

starSlotTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarSlotEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing information on all of the slots"

::= { starentSlots 1 }

starSlotEntry OBJECT-TYPE

SYNTAX StarSlotEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a particular slot"

INDEX { starSlotNum }

::= { starSlotTable 1 }

StarSlotEntry ::=

SEQUENCE {

starSlotNum	Integer32,
starSlotType	StarentSlotType,
starCardType	StarentCardType,
starCardOperState	INTEGER,
starCardAdminState	INTEGER,
starCardRevision	StarentVersionNum,
starCardLastStateChange	DateAndTime,
starCardMode	INTEGER,
starCardPacStandbyPriority	Gauge32,
starCardHaltIssued	INTEGER,
starCardLock	INTEGER,
starCardRebootPending	INTEGER,
starCardUsable	INTEGER,
starCardSinglePOF	INTEGER,
starCardAttachment	INTEGER,
starCardTemperature	Gauge32,
starSlotVoltage1dot5	Gauge32,
starSlotVoltage1dot5LowThresh	Gauge32,
starSlotVoltage1dot5HighThresh	Gauge32,
starSlotVoltage1dot8	Gauge32,
starSlotVoltage1dot8LowThresh	Gauge32,
starSlotVoltage1dot8HighThresh	Gauge32,
starSlotVoltage2dot5	Gauge32,
starSlotVoltage2dot5LowThresh	Gauge32,
starSlotVoltage2dot5HighThresh	Gauge32,
starSlotVoltage3dot3	Gauge32,
starSlotVoltage3dot3LowThresh	Gauge32,
starSlotVoltage3dot3HighThresh	Gauge32,
starSlotVoltage5dot0	Gauge32,
starSlotVoltage5dot0LowThresh	Gauge32,
starSlotVoltage5dot0HighThresh	Gauge32,
starSlotNumPorts	Gauge32,
starSlotAction	INTEGER,
starSlotVoltageState	INTEGER,
starSlotNumCPU	Integer32,
starSlotPartNumber	DisplayString,
starSlotPartRevision	DisplayString,
starSlotSerialNumber	DisplayString,
starSlotCLEIcode	DisplayString,
starSlotCiscoModelName	DisplayString,
starSlotCiscoHardwareRev	DisplayString,
starSlotCiscoSerialNumber	DisplayString,
starDeviceNum	Integer32,

```

    starSerdesNum          Integer32,
    starDdfDev             INTEGER
}

```

```

starSlotNum OBJECT-TYPE
SYNTAX Integer32(1..48)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The slot number"
 ::= { starSlotEntry 1 }

```

```

starSlotType OBJECT-TYPE
SYNTAX StarentSlotType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The type of the slot."
 ::= { starSlotEntry 2 }

```

```

starCardType OBJECT-TYPE
SYNTAX StarentCardType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The type of the card which is plugged into a slot"
 ::= { starSlotEntry 3 }

```

```

starCardOperState OBJECT-TYPE
SYNTAX INTEGER {
    unknown(1),
    empty(2),
    offline(3),
    booting(4),
    ready(5),
    standby(6),
    active(7),
    migratefrom(8),
    migrateto(9),
    starting(10),
    initializing(11),
    secondary(12)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The current operational state of the card"
 ::= { starSlotEntry 4 }

```

```

starCardAdminState OBJECT-TYPE
SYNTAX INTEGER {
    unknown(1),
    enabled(2),
    disabled(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The administrative state of the card"
 ::= { starSlotEntry 5 }

```

```

starCardRevision OBJECT-TYPE
SYNTAX StarentVersionNum
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

"The revision number of the card that is physically present in this slot"

::= { starSlotEntry 6 }

starCardLastStateChange OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time when the last state change occurred for this row. A manager could poll this variable to determine if information has changed."

::= { starSlotEntry 7 }

starCardMode OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

notapplicable(2),

standby(3),

active(4),

activepac(5),

activetac(6),

activepsc(7),

activevpc(8),

activedpc(9)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The desired mode of the card. This field is applicable only to slots which can contain PAC/PSC and TAC cards. The active(4) value is obsolete and has been replaced with activepac(5) and activetac(6)"

::= { starSlotEntry 8 }

starCardPacStandbyPriority OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starSlotEntry 9 }

starCardHaltIssued OBJECT-TYPE

SYNTAX INTEGER {

notapplicable(1),

yes(2),

no(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Only applicable to SPC cards"

::= { starSlotEntry 10 }

starCardLock OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

locked(2),

unlocked(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies if the card lock is currently engaged. A value of locked(2) means that the lock is engaged, and thus the card could not be removed from the chassis. A value of unlocked(3) means that the lock is not engaged, and an operator could remove the card from the chassis. A value of unknown(1) should represent that there is no card physically in

the slot."

::= { starSlotEntry 11 }

starCardRebootPending OBJECT-TYPE

SYNTAX INTEGER {
 no(1),
 yes(2)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies if a reboot operation is currently pending for this card."

::= { starSlotEntry 12 }

starCardUsable OBJECT-TYPE

SYNTAX INTEGER {
 no(1),
 yes(2)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies if the card is currently usable."

::= { starSlotEntry 13 }

starCardSinglePOF OBJECT-TYPE

SYNTAX INTEGER {
 notapplicable(1),
 no(2),
 yes(3)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies if this card represents a single point of failure (POF). A value of no(1) indicates that this card is supported by a redundant card which can take over in the event of a failure. A value of yes(2) indicates that this card does not have a redundant partner, and that a failure of this card could result in service interruption."

::= { starSlotEntry 14 }

starCardAttachment OBJECT-TYPE

SYNTAX INTEGER {
 connected(1),
 unconnected(2)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies if the card is currently attached to another card (a PAC/PSC attached to a line card, or visa versa, for example"

::= { starSlotEntry 15 }

starCardTemperature OBJECT-TYPE

SYNTAX Gauge32
 UNITS "degrees Celcius"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The temperature, in degrees Celcius, as measured on the card. A value of 0 indicates that the temperature cannot be read, or that the card is not present. The maximum measurable temperature is 70 C"

::= { starSlotEntry 16 }

--

-- All of the "voltage"-related starSlot items are obsolete. As systems evolved and different cards

-- have different internal voltages these values had less meaning. The starSlotVoltageState
 -- provides an overall state for the card.
 --

starSlotVoltage1dot5 OBJECT-TYPE

SYNTAX Gauge32
 UNITS "millivolts"
 MAX-ACCESS read-only
 STATUS obsolete
 DESCRIPTION

"The current voltage, in millivolts, of the nominal 1.5V power supply.

The working range for this card is the range defined by variables
 starSlotVoltage1dot5LowThresh and starSlotVoltage1dot5HighThresh.

A value of 0 indicates that this voltage level is not present on this
 card, or that the card is not present.

This attribute is obsolete."

::= { starSlotEntry 20 }

starSlotVoltage1dot5LowThresh OBJECT-TYPE

SYNTAX Gauge32
 UNITS "millivolts"
 MAX-ACCESS read-only
 STATUS obsolete
 DESCRIPTION

"The voltage level, in millivolts, which is the lowest allowable value
 for the nominal 1.5V power supply. A value of 0 indicates that there
 is no card present.

This attribute is obsolete."

::= { starSlotEntry 21 }

starSlotVoltage1dot5HighThresh OBJECT-TYPE

SYNTAX Gauge32
 UNITS "millivolts"
 MAX-ACCESS read-only
 STATUS obsolete
 DESCRIPTION

"The voltage level, in millivolts, which is the highest allowable value
 for the nominal 1.5V power supply. A value of 0 indicates that there
 is no card present.

This attribute is obsolete."

::= { starSlotEntry 22 }

starSlotVoltage1dot8 OBJECT-TYPE

SYNTAX Gauge32
 UNITS "millivolts"
 MAX-ACCESS read-only
 STATUS obsolete
 DESCRIPTION

"The current voltage, in millivolts, of the nominal 1.8V power supply.

The working range for this card is the range defined by variables
 starSlotVoltage1dot8LowThresh and starSlotVoltage1dot8HighThresh.

A value of 0 indicates that this voltage level is not present on this
 card, or that the card is not present.

This attribute is obsolete."

::= { starSlotEntry 23 }

starSlotVoltage1dot8LowThresh OBJECT-TYPE

SYNTAX Gauge32
 UNITS "millivolts"
 MAX-ACCESS read-only
 STATUS obsolete
 DESCRIPTION

"The voltage level, in millivolts, which is the lowest allowable value for the nominal 1.8V power supply. A value of 0 indicates that there is no card present.

This attribute is obsolete."

::= { starSlotEntry 24 }

starSlotVoltage1dot8HighThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the highest allowable value for the nominal 1.8V power supply. A value of 0 indicates that there is no card present.

This attribute is obsolete."

::= { starSlotEntry 25 }

starSlotVoltage2dot5 OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The current voltage, in millivolts, of the nominal 2.5V power supply.

The working range for this card is the range defined by variables starSlotVoltage2dot5LowThresh and starSlotVoltage2dot5HighThresh.

A value of 0 indicates that the voltage cannot be read, or that the card is not present.

This attribute is obsolete."

::= { starSlotEntry 26 }

starSlotVoltage2dot5LowThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the lowest allowable value for the nominal 2.5V power supply. A value of 0 indicates that there is no card present.

This attribute is obsolete."

::= { starSlotEntry 27 }

starSlotVoltage2dot5HighThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the highest allowable value for the nominal 2.5V power supply. A value of 0 indicates that there is no card present.

This attribute is obsolete."

::= { starSlotEntry 28 }

starSlotVoltage3dot3 OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The current voltage, in millivolts, of the nominal 3.3V power supply.

The working range for this card is the range defined by variables
starSlotVoltage3dot3LowThresh and starSlotVoltage3dot3HighThresh.

A value of 0 indicates that the voltage cannot be read, or that the
card is not present.

This attribute is obsolete."

::= { starSlotEntry 29 }

starSlotVoltage3dot3LowThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the lowest allowable value
for the nominal 3.3V power supply. A value of 0 indicates that there
is no card present.

This attribute is obsolete."

::= { starSlotEntry 30 }

starSlotVoltage3dot3HighThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the highest allowable value
for the nominal 3.3V power supply. A value of 0 indicates that there
is no card present.

This attribute is obsolete."

::= { starSlotEntry 31 }

starSlotVoltage5dot0 OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The current voltage, in millivolts, of the nominal 5.0V power supply.

The working range for this card is the range defined by variables
starSlotVoltage5dot0LowThresh and starSlotVoltage5dot0HighThresh.

A value of 0 indicates that the voltage cannot be read, or that the
card is not present.

This attribute is obsolete."

::= { starSlotEntry 32 }

starSlotVoltage5dot0LowThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the lowest allowable value
for the nominal 5.0V power supply. A value of 0 indicates that there
is no card present.

This attribute is obsolete."

::= { starSlotEntry 33 }

starSlotVoltage5dot0HighThresh OBJECT-TYPE

SYNTAX Gauge32

UNITS "millivolts"

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The voltage level, in millivolts, which is the highest allowable value for the nominal 5.0V power supply. A value of 0 indicates that there is no card present.

This attribute is obsolete."

::= { starSlotEntry 34 }

starSlotNumPorts OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of data ports on this card. This value will be 0 for cards that do not contain ports, such as SPC/SMC/PAC/PSC/TAC cards, or for slots which do not contain a card.

This attribute is obsolete."

::= { starSlotEntry 35 }

starSlotAction OBJECT-TYPE

SYNTAX INTEGER {

noaction(1),

reset(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Trigger to perform certain slot operations.

noaction(1) performs no operation. It is the normal value received when this attribute is read.

reset(2) causes the slot to be reset"

::= { starSlotEntry 36 }

starSlotVoltageState OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

normal(1),

outofrange(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of the voltage supplies on the card. A value of unknown(0) means that the state cannot be identified; normal(1) represents a properly functioning card; outofrange(2) indicates that one or more voltage sources are not within their specified operating range."

::= { starSlotEntry 37 }

starSlotNumCPU OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of general-purpose CPUs on this card"

::= { starSlotEntry 38 }

starSlotPartNumber OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The part number of this card"

::= { starSlotEntry 39 }

starSlotPartRevision OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The revision number of this card"

::= { starSlotEntry 40 }

starSlotSerialNumber OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The serial number of this card"

::= { starSlotEntry 41 }

starSlotCLEIcode OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The CLEI code of this card"

::= { starSlotEntry 42 }

starSlotCiscoModelName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Cisco-defined Product Identifier (PID). The PID is an alphanumeric identifier used to identify specific Cisco product hardware, and may be up to 18 characters in length.

starSlotCiscoModelName will be blank (zero characters) if no PID is available."

::= { starSlotEntry 43 }

starSlotCiscoHardwareRev OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Cisco-defined Version Identifier (VID). The VID is used to track the version of the Customer-Orderable Cisco Product Identifier (PID) [starSlotCiscoModelName]. The data convention for VID is 'V' followed by a two digit number. VID numbering typically begins at 'V01' but can be initiated at a higher value.

starSlotCiscoHardwareRev will be blank (zero characters) if no VID is available."

::= { starSlotEntry 44 }

starSlotCiscoSerialNumber OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Cisco-defined Serial Number (SN). The SN is an 11 character identifier used in conjunction with the Cisco Product Identifier (PID) [starSlotCiscoModelName] to identify a unique product or Field Replaceable Unit (FRU) of a product.

starSlotCiscoSerialNumber will be blank (zero characters) if no VID is available."

::= { starSlotEntry 45 }

starDeviceNum OBJECT-TYPE

```

SYNTAX Integer32(1..4)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The device number"
 ::= { starSlotEntry 46 }

```

```

starSerdesNum OBJECT-TYPE
SYNTAX Integer32(0..127)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The serdes lane index number"
 ::= { starSlotEntry 47 }

```

-- Card Mapping Table

```

starentSlotMapping OBJECT IDENTIFIER ::= { starentMIBObjects 3 }

```

```

starSlotMappingTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarSlotMappingEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table identifying all of the slot mappings. This table
    is applicable only to starChassisType ASR5000 platform."
 ::= { starentSlotMapping 1 }

```

```

starSlotMappingEntry OBJECT-TYPE
SYNTAX StarSlotMappingEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a particular slot mapping"
INDEX { starSlotMappingNum }
 ::= { starSlotMappingTable 1 }

```

```

StarSlotMappingEntry ::=
SEQUENCE {
    starSlotMappingNum      Integer32,
    starSlotMappingType    INTEGER,
    starSlotMappingRCCNum  Integer32,
    starSlotMappingToSlot  Integer32
}

```

```

starSlotMappingNum OBJECT-TYPE
SYNTAX Integer32(17..48)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The slot number. This always represents a slot in the back of the chassis."
 ::= { starSlotMappingEntry 1 }

```

```

starSlotMappingType OBJECT-TYPE
SYNTAX INTEGER {
    unknown(1),
    none(2),
    direct(3),
    rcc(4),
    cross(5)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The type of the slot mapping. The value none(1) represents that there is no mapping,

```

which typically represents that there is no card present in this slot."

```
::= { starSlotMappingEntry 2 }
```

starSlotMappingRCCNum OBJECT-TYPE

SYNTAX Integer32(0..2)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies which RCC card is responsible for this mapping. This value is only valid if the value of starSlotMappingType is rcc(3)."

```
::= { starSlotMappingEntry 3 }
```

starSlotMappingToSlot OBJECT-TYPE

SYNTAX Integer32(1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The slot number this slot is mapped to. This always represents a slot in the front of the chassis"

```
::= { starSlotMappingEntry 4 }
```

-- Fan Table

starentFans OBJECT IDENTIFIER ::= { starentMIBObjects 4 }

starFanTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarFanEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing information on all of the fan controllers"

```
::= { starentFans 1 }
```

starFanEntry OBJECT-TYPE

SYNTAX StarFanEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a particular fan controller"

INDEX { starFanNum }

```
::= { starFanTable 1 }
```

StarFanEntry ::=

SEQUENCE {

starFanNum Integer32,

starFanLocation INTEGER,

starFanStatus Integer32,

starFanSpeed INTEGER

}

starFanNum OBJECT-TYPE

SYNTAX Integer32(1..4)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The fan controller number"

```
::= { starFanEntry 1 }
```

starFanLocation OBJECT-TYPE

SYNTAX INTEGER {

upper(1),

lower(2),

lowerFront(3),

lowerRear(4),

upperFront(5),

upperRear(6)

```

}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The physical location of the fan controller"
::= { starFanEntry 2 }

```

starFanStatus OBJECT-TYPE

```

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A bitmask representing the status of the fan tray.
    0x01 All Fans Good
    0x02 Multiple Fans Bad
    0x04 Single Fan Bad
    0x08 HB Error
    0x10 COM A Error
    0x20 COM B Error
    0x40 COMM Error
    0x80 Not Present
    0x100 Present
    0x200 Filter Clogged
    0x400 Unknown
    0x800 Watchdog Timeout
    0x1000 Front Fantray Missing
    0x2000 Controller Error
    0x4000 PFU Alrm A
    0x8000 PFU Alrm B

```

A normal, properly functioning fan tray would show 0x101 (257 decimal), meaning it is present (0x100) and all fans are working (0x1)"

```

::= { starFanEntry 3 }

```

starFanSpeed OBJECT-TYPE

```

SYNTAX INTEGER {
    unknown(1),
    speed50(2),
    speed55(3),
    speed60(4),
    speed65(5),
    speed70(6),
    speed75(7),
    speed80(8),
    speed85(9),
    speed90(10),
    speed95(11),
    speed100(12)
}

```

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The speed of the fans controlled by this fan controller.
The values represent the percentage that the speed is running relative
to the maximum possible speed, speed100(12)"
::= { starFanEntry 4 }

```

```

-- log Table

```

```

-- Note that this table isn't expected to have an SNMP implementation; it is provided
-- to define Object Identifiers for use in log-related traps, which are implemented
-- This table may be useless, as we're not keeping on-disk logs except through syslogd
starentLogs OBJECT IDENTIFIER ::= { starentMIBObjects 5 }

```

starLogTable OBJECT-TYPE

```

SYNTAX SEQUENCE OF StarLogEntry
MAX-ACCESS not-accessible

```



```

STATUS current
DESCRIPTION
  "A table containing information about all of the system logs"
 ::= { starentLogs 1 }

```

```

starLogEntry OBJECT-TYPE
SYNTAX StarLogEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "Information about a particular system log"
INDEX { starLogName }
 ::= { starLogTable 1 }

```

```

StarLogEntry ::=
SEQUENCE {
  starLogName StarShortName,
  starLogCurSize Gauge32,
  starLogMaxSize Gauge32,
  starLogText OCTET STRING
}

```

```

starLogName OBJECT-TYPE
SYNTAX StarShortName
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
  "The name of the system log"
 ::= { starLogEntry 1 }

```

```

starLogCurSize OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The size, in bytes, of this log"
 ::= { starLogEntry 2 }

```

```

starLogMaxSize OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The maximum size, in bytes, of this log"
 ::= { starLogEntry 3 }

```

```

starLogText OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..512))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "For use in LogMsg trap"
 ::= { starLogEntry 4 }

```

```
-- trap management, ala RFC-1224
```

```

starentAlertMan OBJECT IDENTIFIER ::= { starentMIBObjects 8 }
starentFeedback OBJECT IDENTIFIER ::= { starentAlertMan 1 }

```

```

starMaxAlertsPerTime OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The maximum number of SNMP Traps which will be sent within
  the time period specified by starWindowTime"

```

```
::= { starentFeedback 1 }
```

```
starWindowTime OBJECT-TYPE
```

```
SYNTAX Unsigned32
```

```
UNITS "seconds"
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The amount of time within which no more than starMaxAlertsPerTime
SNMP Traps will be sent."
```

```
::= { starentFeedback 2 }
```

```
starAlertSendingEnabled OBJECT-TYPE
```

```
SYNTAX TruthValue
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Shows if SNMP traps are currently enabled or disabled. Traps are disabled
when more than starMaxAlertsPerTime traps are sent within the
starWindowTime time period. A value of true(1) indicates that traps
will still be sent. A value of false(2) indicates that traps are no
longer being generated"
```

```
::= { starentFeedback 3 }
```

```
starentPolledLog OBJECT IDENTIFIER ::= { starentAlertMan 2 }
```

```
-- power table, provided for use in traps only
```

```
starentPower OBJECT IDENTIFIER ::= { starentMIBObjects 9 }
```

```
starPowerTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF StarPowerEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A table containing information about all power filters"
```

```
::= { starentPower 1 }
```

```
starPowerEntry OBJECT-TYPE
```

```
SYNTAX StarPowerEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Information about a particular power filter"
```

```
INDEX { starPowerNumber }
```

```
::= { starPowerTable 1 }
```

```
StarPowerEntry ::=
```

```
SEQUENCE {
```

```
    starPowerNumber      INTEGER,
```

```
    starPowerState      INTEGER
```

```
}
```

```
starPowerNumber OBJECT-TYPE
```

```
SYNTAX INTEGER {
```

```
    powerA(1),
```

```
    powerB(2)
```

```
}
```

```
MAX-ACCESS accessible-for-notify
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The identifying number for this power filter."
```

```
::= { starPowerEntry 1 }
```

```
starPowerState OBJECT-TYPE
```

```
SYNTAX INTEGER {
```

```

        active(1),
        failed(2),
        notpresent(3)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The state of the power filter. The value active(1) means that the
    power filter is present and operational. The value failed(2) means
    that the power filter is present, but not operational. The value
    not-present(3) means that the power filter is not physically present
    in the system."
::= { starPowerEntry 2 }

-- CPU table

starentCPU OBJECT IDENTIFIER ::= { starentMIBObjects 10 }

starCPUTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarCPUEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table containing information about all CPUs"
::= { starentCPU 1 }

starCPUEntry OBJECT-TYPE
SYNTAX StarCPUEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a particular CPU"
INDEX { starCPUSlot, starCPUNumber }
::= { starCPUTable 1 }

StarCPUEntry ::=
SEQUENCE {
    starCPUSlot Integer32,
    starCPUNumber Integer32,
    starCPUUser Gauge32,
    starCPUSystem Gauge32,
    starCPUIdle Gauge32,
    starCPUIO Gauge32,
    starCPUIRQ Gauge32,
    starCPULoad1Min Gauge32,
    starCPULoad5Min Gauge32,
    starCPULoad15Min Gauge32,
    starCPUMemTotal Integer32,
    starCPUMemUsed Gauge32,
    starCPUNumProcesses Gauge32,
    starCPUMemCached Gauge32,
    starCPUCoreNumber Integer32
}

starCPUSlot OBJECT-TYPE
SYNTAX Integer32(1..48)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The slot number of the card holding this CPU"
::= { starCPUEntry 1 }

starCPUNumber OBJECT-TYPE
SYNTAX Integer32(0..3)
MAX-ACCESS accessible-for-notify
STATUS current

```

DESCRIPTION

"The CPU number within this card. Numbers begin at 0."

::= { starCPUEntry 2 }

starCPUUser OBJECT-TYPE

SYNTAX Gauge32(1..10000)

UNITS "percentage times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Percentage of the CPU spent running user processes.

starCPUUser is the percentage value times 100; for example, 2.3% would be represented as 230."

::= { starCPUEntry 3 }

starCPUSystem OBJECT-TYPE

SYNTAX Gauge32(1..10000)

UNITS "percentage times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Percentage of the CPU spent running system processes.

starCPUSystem is the percentage value times 100; for example, 2.3% would be represented as 230."

::= { starCPUEntry 4 }

starCPUIdle OBJECT-TYPE

SYNTAX Gauge32(1..10000)

UNITS "percentage times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Percentage of the CPU spent idle.

starCPUIdle is the percentage value times 100; for example, 2.3% would be represented as 230."

::= { starCPUEntry 6 }

starCPUIO OBJECT-TYPE

SYNTAX Gauge32(1..10000)

UNITS "percentage times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Percentage of the CPU spent running io processes.

starCPUio is the percentage value times 100; for example, 2.3% would be represented as 230."

::= { starCPUEntry 7 }

starCPUIRQ OBJECT-TYPE

SYNTAX Gauge32(1..10000)

UNITS "percentage times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Percentage of the CPU spent running irq processes.

starCPUirq is the percentage value times 100; for example, 2.3% would be represented as 230."

::= { starCPUEntry 8 }

starCPULoad1Min OBJECT-TYPE

SYNTAX Gauge32(1..10000)

UNITS "processes times 100"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The average CPU load over the last minute. The CPU load is defined

to be the number of processes who are ready to run.
 starCPULoad1Min is the average number of processes times 100; for
 example, 2.45 would be represented as 245."

::= { starCPUEntry 11 }

starCPULoad5Min OBJECT-TYPE

SYNTAX Gauge32(1..10000)
 UNITS "processes times 100"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The average CPU load over the last 5 minutes. The CPU load is defined
 to be the number of processes who are ready to run.
 starCPULoad5Min is the average number of processes times 100; for
 example, 2.45 would be represented as 245."

::= { starCPUEntry 12 }

starCPULoad15Min OBJECT-TYPE

SYNTAX Gauge32(1..10000)
 UNITS "processes times 100"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The average CPU load over the last 15 minutes. The CPU load is defined
 to be the number of processes who are ready to run.
 starCPULoad15Min is the average number of processes times 100; for
 example, 2.45 would be represented as 245."

::= { starCPUEntry 13 }

starCPUMemTotal OBJECT-TYPE

SYNTAX Integer32(1..2147483647)
 UNITS "KB"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The total amount of memory dedicated to this CPU, in kilobytes"

::= { starCPUEntry 14 }

starCPUMemUsed OBJECT-TYPE

SYNTAX Gauge32(1..2147483647)
 UNITS "KB"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The total amount of memory consumed by this CPU, in kilobytes"

::= { starCPUEntry 15 }

starCPUNumProcesses OBJECT-TYPE

SYNTAX Gauge32(1..32768)
 UNITS "processes"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The total number of processes which exist on this CPU"

::= { starCPUEntry 16 }

starCPUMemCached OBJECT-TYPE

SYNTAX Gauge32(1..2147483647)
 UNITS "KB"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The total amount of memory consumed by the (reusable) memory cache on this CPU, in kilobytes"

::= { starCPUEntry 17 }

starCPUCoreNumber OBJECT-TYPE

SYNTAX Integer32(0..48)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The CPU core number within this card."

::= { starCPUEntry 18 }

-- Session In Progress

starentSessInP OBJECT IDENTIFIER ::= { starentMIBObjects 12 }

starSessInProgCalls OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions current in progress"

::= { starentSessInP 1 }

starSessInProgActiveCalls OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions with active calls"

::= { starentSessInP 2 }

starSessInProgDormantCalls OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions associated with dormant calls"

::= { starentSessInP 3 }

starSessInProgArrived OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions in the arrived state"

::= { starentSessInP 4 }

starSessInProgLCPNeg OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions in the link control protocol negotiation state"

::= { starentSessInP 5 }

starSessInProgLCPUp OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions in the link control protocol up state"

::= { starentSessInP 6 }

starSessInProgAuthenticating OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of sessions in the authenticating state"

::= { starentSessInP 7 }

starSessInProgAuthenticated OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of sessions in the authenticated state"
 ::= { starentSessInP 8 }

starSessInProgIPCPUp OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of sessions in the IP control protocol up state"
 ::= { starentSessInP 9 }

starSessInProgSIPConn OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of sessions in the Simple IP connected state"
 ::= { starentSessInP 10 }

starSessInProgMIPConn OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of sessions in the Mobile IP connected state"
 ::= { starentSessInP 11 }

starSessInProgDisc OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of sessions in the disconnecting state"
 ::= { starentSessInP 12 }

-- NPU table

-- These objects are defined only for use in traps

starentNPUMgr OBJECT IDENTIFIER ::= { starentMIBObjects 11 }

starNPUMgrTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarNPUMgrEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "A table containing information about all NPU Managers"
 ::= { starentNPUMgr 1 }

starNPUMgrEntry OBJECT-TYPE

SYNTAX StarNPUMgrEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Information about a particular NPU Manager"
 INDEX { starNPUMgrNumber }
 ::= { starNPUMgrTable 1 }

StarNPUMgrEntry ::=

SEQUENCE {
 starNPUMgrNumber Integer32

}

starNPUMgrNumber OBJECT-TYPE
 SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The identity of this NPU"
 ::= { starNPUMgrEntry 1 }

--

starentSessMgr OBJECT IDENTIFIER ::= { starentMIBObjects 13 }

starSessMgrCount OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of session manager instances"
 ::= { starentSessMgr 1 }

starSessTtlArrived OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of requested sessions"
 ::= { starentSessMgr 2 }

starSessTtlRejected OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of rejected sessions"
 ::= { starentSessMgr 3 }

starSessTtlConnected OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of sessions which were connected"
 ::= { starentSessMgr 4 }

starSessTtlAuthSucc OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of sessions where authentication was successful"
 ::= { starentSessMgr 5 }

starSessTtlAuthFail OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of sessions which failed authentication"
 ::= { starentSessMgr 6 }

starSessTtlLCPUp OBJECT-TYPE
 SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current

DESCRIPTION

"The total number of sessions in the link control protocol up state"
::= { starentSessMgr 7 }

starSessTtlIPCPU OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of IP control protocol up state"
::= { starentSessMgr 8 }

starSessTtlSrcViol OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of sessions which had an invalid source"
::= { starentSessMgr 9 }

starSessTtlKeepFail OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of sessions which had a keep alive failure"
::= { starentSessMgr 10 }

starSessTtlOctForwarded OBJECT-TYPE

SYNTAX Counter32
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
"The total number of octets forwarded (data + control)"
::= { starentSessMgr 11 }

starSessTtlRPRRegAccept OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of Initial RRQ Accepted"
::= { starentSessMgr 12 }

starSessTtlRPRRegAcceptInterPDSN OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of Inter PDSN Handoff RRQ Accepted"
::= { starentSessMgr 13 }

starSessCurrPPPSessions OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of PPP sessions"
::= { starentSessMgr 14 }

starSessTtlTxBytes OBJECT-TYPE

SYNTAX Counter32
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS deprecated

DESCRIPTION

"The total number of bytes transmitted from mobiles"
 ::= { starentSessMgr 15 }

starSessTtlRxBytes OBJECT-TYPE

SYNTAX Counter32
 UNITS "Megabytes"
 MAX-ACCESS read-only
 STATUS deprecated
 DESCRIPTION
 "The total number of bytes received by mobiles"
 ::= { starentSessMgr 16 }

starSessTtlSIPTxBytes OBJECT-TYPE

SYNTAX Counter32
 UNITS "Megabytes"
 MAX-ACCESS read-only
 STATUS deprecated
 DESCRIPTION
 "The total number of bytes transmitted from mobiles using SIP"
 ::= { starentSessMgr 17 }

starSessTtlSIPRxBytes OBJECT-TYPE

SYNTAX Counter32
 UNITS "Megabytes"
 MAX-ACCESS read-only
 STATUS deprecated
 DESCRIPTION
 "The total number of bytes received by mobiles using SIP"
 ::= { starentSessMgr 18 }

starSessTtlMIPTxBytes OBJECT-TYPE

SYNTAX Counter32
 UNITS "Megabytes"
 MAX-ACCESS read-only
 STATUS deprecated
 DESCRIPTION
 "The total number of bytes transmitted from mobiles using MIP"
 ::= { starentSessMgr 19 }

starSessTtlMIPRxBytes OBJECT-TYPE

SYNTAX Counter32
 UNITS "Megabytes"
 MAX-ACCESS read-only
 STATUS deprecated
 DESCRIPTION
 "The total number of bytes received by mobiles using MIP"
 ::= { starentSessMgr 20 }

starSessTtlOctForwardedGB OBJECT-TYPE

SYNTAX Counter32
 UNITS "Gigabytes"
 MAX-ACCESS read-only
 STATUS deprecated
 DESCRIPTION
 "The total number of octets forwarded (data + control)"
 ::= { starentSessMgr 21 }

starSessTtlOctForwardedRev1 OBJECT-TYPE

SYNTAX Counter64
 UNITS "Megabytes"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The total number of octets forwarded (data + control).
 This object deprecates the old starSessTtlOctForwarded object."

```
::= { starentSessMgr 22 }
```

starSessTtlTxBytesRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The total number of bytes transmitted from mobiles.
This object deprecates the old starSessTtlTxBytes object."

```
::= { starentSessMgr 23 }
```

starSessTtlRxBytesRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The total number of bytes received by mobiles.
This object deprecates the old starSessTtlRxBytes object."

```
::= { starentSessMgr 24 }
```

starSessTtlSIPTxBytesRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The total number of bytes transmitted from mobiles using SIP.
This object deprecates the old starSessTtlSIPTxBytes object."

```
::= { starentSessMgr 25 }
```

starSessTtlSIPRxBytesRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The total number of bytes received by mobiles using SIP.
This object deprecates the old starSessTtlSIPRxBytes object."

```
::= { starentSessMgr 26 }
```

starSessTtlMIPTxBytesRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The total number of bytes transmitted from mobiles using MIP.
This object deprecates the old starSessTtlMIPTxBytes object."

```
::= { starentSessMgr 27 }
```

starSessTtlMIPRxBytesRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The total number of bytes received by mobiles using MIP.
This object deprecates the old starSessTtlMIPRxBytes object."

```
::= { starentSessMgr 28 }
```

starSessTtlOctForwardedGBRev1 OBJECT-TYPE

```
SYNTAX Counter64
UNITS "Gigabytes"
MAX-ACCESS read-only
```

```
STATUS current
DESCRIPTION
"The total number of octets forwarded (data + control).
This object deprecates the old starSessTtlOctForwardedGB object."
::= { starentSessMgr 29 }
```

-- AAA

```
starentAAAMgr OBJECT IDENTIFIER ::= { starentMIBObjects 14 }
```

```
starAAAMgrCount OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of AAA manager instances"
::= { starentAAAMgr 1 }
```

```
starAAATtlRequests OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of AAA requests"
::= { starentAAAMgr 2 }
```

```
starAAATtlAuthRequests OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of AAA authentication requests"
::= { starentAAAMgr 3 }
```

```
starAAATtlAcctRequests OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of AAA accounting requests"
::= { starentAAAMgr 4 }
```

```
starAAACurRequests OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of AAA requests"
::= { starentAAAMgr 5 }
```

```
starAAACurAuthRequests OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of AAA authentication requests"
::= { starentAAAMgr 6 }
```

```
starAAACurAcctRequests OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of AAA accounting requests"
::= { starentAAAMgr 7 }
```

```

starAAATtlAcctSess OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The total number of AAA accounting sessions"
    ::= { starentAAAMgr 8 }

starAAACurAcctSess OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The current number of AAA accounting sessions"
    ::= { starentAAAMgr 9 }

starAAATtlAuthSuccess OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The total number of AAA authentication successes"
    ::= { starentAAAMgr 10 }

starAAATtlAuthFailure OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The total number of AAA authentication failures"
    ::= { starentAAAMgr 11 }

-- A11

starentA11Mgr OBJECT IDENTIFIER ::= { starentMIBObjects 15 }

starA11MgrCount OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The total number of A11 manager instances"
    ::= { starentA11Mgr 1 }

starA11TtlArrived OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The total number of A11 session requests"
    ::= { starentA11Mgr 2 }

starA11TtlRejected OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The total number of rejected A11 sessions"
    ::= { starentA11Mgr 3 }

starA11TtlDemultiplexed OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION

```

"The total number of demultiplexed A11 sessions"
::= { starentA11Mgr 4 }

starA11TtlDereg OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of A11 deregistrations"
::= { starentA11Mgr 5 }

starA11CurActive OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of active A11 sessions"
::= { starentA11Mgr 6 }

-- HA

starentHAMgr OBJECT IDENTIFIER ::= { starentMIBObjects 16 }

starHAMgrCount OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of home agent manager instances"
::= { starentHAMgr 1 }

starHATtlArrived OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of home agent session requests"
::= { starentHAMgr 2 }

starHATtlRejected OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of rejected home agent sessions"
::= { starentHAMgr 3 }

starHATtlDemultiplexed OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of demultiplexed home agent sessions"
::= { starentHAMgr 4 }

starHATtlDereg OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of home agent deregistrations"
::= { starentHAMgr 5 }

starHACurActive OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of active home agent sessions"

::= { starentHAMgr 6 }

-- FA

starentFAMgr OBJECT IDENTIFIER ::= { starentMIBObjects 17 }

starFAMgrCount OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of foreign agent manager instances"

::= { starentFAMgr 1 }

starFATtArrived OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of foreign agent session requests"

::= { starentFAMgr 2 }

starFATtRejected OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of rejected foreign agent sessions"

::= { starentFAMgr 3 }

starFATtDemultiplexed OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of demultiplexed foreign agent sessions"

::= { starentFAMgr 4 }

starFATtDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of foreign agent deregistrations"

::= { starentFAMgr 5 }

starFACurActive OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current number of active foreign agent sessions"

::= { starentFAMgr 6 }

-- Service Manager

-- Note that this table isn't expected to have an SNMP implementation; these objects are defined

-- for use within traps

starentService OBJECT IDENTIFIER ::= { starentMIBObjects 18 }

```

starServiceTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF StarServiceEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    " "
  ::= { starentService 1 }

starServiceEntry OBJECT-TYPE
  SYNTAX      StarServiceEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Information on a particular Service Manager"
  INDEX { starServiceVpnID, starServiceSvcID }
  ::= { starServiceTable 1 }

StarServiceEntry ::=
  SEQUENCE {
    starServiceVpnID      Gauge32,
    starServiceSvcID     Gauge32,
    starServiceVpnName   DisplayString,
    starServiceServName  DisplayString,
    starServiceSubLimit  Unsigned32,
    starServiceSubCurrent Gauge32,
    starServiceType      INTEGER,
    starServiceFAIpAddr  IpAddress,
    starServiceHAIpAddr  IpAddress
  }

starServiceVpnID OBJECT-TYPE
  SYNTAX      Gauge32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The internal identification of the VPN (context)"
  ::= { starServiceEntry 1 }

starServiceSvcID OBJECT-TYPE
  SYNTAX      Gauge32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The internal identification of this service; unique within a specific context"
  ::= { starServiceEntry 2 }

starServiceVpnName OBJECT-TYPE
  SYNTAX      DisplayString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The name of this VPN (context)"
  ::= { starServiceEntry 3 }

starServiceServName OBJECT-TYPE
  SYNTAX      DisplayString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The name of this service"
  ::= { starServiceEntry 4 }

starServiceSubLimit OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current

```


DESCRIPTION

"The configured subscriber limit"

::= { starServiceEntry 5 }

starServiceSubCurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current number of subscribers limit"

::= { starServiceEntry 6 }

starServiceType OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),
 pdsn(2),
 ggsn(3),
 ha(4),
 fa(5),
 l2tpserver(6),
 lac(7),
 lns(8),
 closedrp(9),
 ecs(10),
 cscf(11),
 ips(12),
 evdoreva(13),
 asngw(14),
 pdif(15),
 asnpc(16),
 mipv6ha(17),
 phsgw(18),
 phspc(19),
 sgw(20),
 pgw(21),
 mag(22),
 gprs(23),
 hsgw(24),
 sgsn(25),
 mme(26),
 pdg(27),
 standalonefa(28),
 imsue(29),
 fng(30),
 pccpolicy(31),
 pccquota(32),
 pccaf(33),
 hnbgw(34),
 non-anchor-phs-gateway(35),
 combination-3g-4g-gateway(36),
 epdg(37),
 pcp(38),
 hnbgw-access(39),
 hnbgw-network(40),
 wsg(41),
 samog(42),
 saegw(43),
 ppp-lback(44),
 dhcp(45),
 imsa(46),
 diameter(47),
 dhcpv6(48),
 lma(49),
 crdt-ctl(50),
 mme-hss(51),
 sgs(52),

```

cbs(53),
egtp-ingress(54),
egtp-egress(55),
egtp(56),
gtpu(57),
sgtpc(58),
egtp-sv(59),
megad(60),
pcc(61),
ipne(62),
mseg(63),
bng(64),
gs(65),
map(66),
iups(67),
sgtp(68),
lcs(69),
mme-embms(70)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The type of service"
 ::= { starServiceEntry 7 }

```

```

starServiceFAIpAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The IP address for an FA service. Where unknown or not applicable
    this will contain all zeroes."
 ::= { starServiceEntry 8 }

```

```

starServiceHAIpAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The IP address for an HA service. Where unknown or not applicable
    this will contain all zeroes."
 ::= { starServiceEntry 9 }

```

```

-- CLI
-- Note that this table isn't expected to have an SNMP implementation; these objects are defined
-- for use within traps

```

```

starentCLIMgr OBJECT IDENTIFIER ::= { starentMIBObjects 19 }

```

```

starCLITable OBJECT-TYPE
SYNTAX SEQUENCE OF StarCLIEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table containing information on all interactive CLI sessions"
 ::= { starentCLIMgr 1 }

```

```

starCLIEntry OBJECT-TYPE
SYNTAX StarCLIEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information on a particular CLI Session"
INDEX { starCLIID }
 ::= { starCLITable 1 }

```

StarCLIEEntry ::=

```
SEQUENCE {
    starCLIID Gauge32,
    starCLIUsername DisplayString,
    starCLITtyname DisplayString,
    starCLIPrivs DisplayString,
    starCLIType INTEGER,
    starCLIRemoteIpAddrType InetAddressType,
    starCLIRemoteIpAddr InetAddress,
    starCLIContext DisplayString,
    starCLIDatabaseUsername DisplayString,
    starCLIActiveCount Counter32,
    starCLIMaxCount Counter32,
    starCLIEventIDStart Counter32,
    starCLIEventIDEnd Counter32,
    starCLILogLevelChanged DisplayString
}
```

starCLIID OBJECT-TYPE

```
SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The internal identifier of this CLI session."
::= { starCLIEEntry 1 }
```

starCLIUsername OBJECT-TYPE

```
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name of the user logged into this CLI session, or 'unknown' if not none"
::= { starCLIEEntry 2 }
```

starCLITtyname OBJECT-TYPE

```
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name of the TTY device for this CLI session"
::= { starCLIEEntry 3 }
```

starCLIPrivs OBJECT-TYPE

```
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The user presentable form of the privilege level of this CLI session"
::= { starCLIEEntry 4 }
```

starCLIType OBJECT-TYPE

```
SYNTAX INTEGER {
    unknown(0),
    commandline(1),
    ftp(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The type of CLI; commandline(1) represents the normal interactive command line;
    ftp(2) represents an incoming FTP session"
::= { starCLIEEntry 5 }
```

starCLIRemoteIpAddrType OBJECT-TYPE

```
SYNTAX InetAddressType
MAX-ACCESS read-only
```

STATUS current

DESCRIPTION

"The type of remote IP address used to access this CLI session."

::= { starCLIEEntry 6 }

starCLIRemoteIpAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The remote IP address used to access this CLI session. Where unknown or not applicable (such as access through a serial port) this will be 0"

::= { starCLIEEntry 7 }

starCLIContext OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The context (VPN) currently being managed/viewed by the CLI session."

::= { starCLIEEntry 8 }

starCLIDatabaseUsername OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The username of the user record in the database which was acted upon by the CLI session"

::= { starCLIEEntry 9 }

starCLIActiveCount OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Active CLI Sessions Value"

::= { starCLIEEntry 10 }

starCLIMaxCount OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Maximum CLI Sessions Limit"

::= { starCLIEEntry 11 }

starCLIEventIDStart OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"EventID Range From Value"

::= { starCLIEEntry 12 }

starCLIEventIDEnd OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"EventID Range To Value"

::= { starCLIEEntry 13 }

starCLILogLevelChanged OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Description about change in logging level of a facility by an user"

::= { starCLIEEntry 14 }

-- Task Manager

-- Note that this table isn't expected to have an SNMP implementation; these objects are defined

-- for use within traps

starentTaskMgr OBJECT IDENTIFIER ::= { starentMIBObjects 20 }

starTaskTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarTaskEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing information about all active tasks"

::= { starentTaskMgr 1 }

starTaskEntry OBJECT-TYPE

SYNTAX StarTaskEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information on a particular Task"

INDEX { starTaskFacility, starTaskInstance }

::= { starTaskTable 1 }

StarTaskEntry ::=

SEQUENCE {

starTaskFacility Unsigned32,

starTaskInstance Unsigned32,

starTaskFacilityName DisplayString,

starTaskCard Unsigned32,

starTaskCPU Unsigned32

}

starTaskFacility OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The internal facility identifier"

::= { starTaskEntry 1 }

starTaskInstance OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The internal instance identifier which uniquely identifies this task
without a given facility"

::= { starTaskEntry 2 }

starTaskFacilityName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the facility for this task"

::= { starTaskEntry 3 }

starTaskCard OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

```

"The slot number of the card where this task is running"
 ::= { starTaskEntry 4 }

starTaskCPU OBJECT-TYPE
 SYNTAX Unsigned32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The CPU number where this task is running"
 ::= { starTaskEntry 5 }

-- PPP Stats

starentPPP OBJECT IDENTIFIER ::= { starentMIBObjects 21 }

starPPPStatTable OBJECT-TYPE
 SYNTAX SEQUENCE OF StarPPPStatEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "A table containing PPP Stats"
 ::= { starentPPP 1 }

starPPPStatEntry OBJECT-TYPE
 SYNTAX StarPPPStatEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The statistics for an individual entry for a PPP context and service"
 INDEX { IMPLIED starPPPStatSvcID }
 ::= { starPPPStatTable 1 }

StarPPPStatEntry ::=
 SEQUENCE {
 starPPPStatVpnID Gauge32,
 starPPPStatSvcID StarShortID,
 starPPPStatVpnName DisplayString,
 starPPPStatServName DisplayString,
 starPPPStatInit Counter32,
 starPPPStatReneg Counter32,
 starPPPStatSuccess Counter32,
 starPPPStatFailed Counter32,
 starPPPStatReleased Counter32,
 starPPPStatReleasedLocal Counter32,
 starPPPStatReleasedRemote Counter32,
 starPPPStatLcpFailMaxRetry Counter32,
 starPPPStatLcpFailOption Counter32,
 starPPPStatIpcpFailMaxRetry Counter32,
 starPPPStatIpcpFailOption Counter32,
 starPPPStatCcpFail Counter32,
 starPPPStatAuthFail Counter32,
 starPPPStatLcpEntered Counter32,
 starPPPStatAuthEntered Counter32,
 starPPPStatIpcpEntered Counter32,
 starPPPStatRenegPdsn Counter32,
 starPPPStatRenegMobil Counter32,
 starPPPStatRenegAddrMismatch Counter32,
 starPPPStatRenegOther Counter32,
 starPPPStatChapAuthAttempt Counter32,
 starPPPStatPapAuthAttempt Counter32,
 starPPPStatMSChapAuthAttempt Counter32,
 starPPPStatChapAuthFail Counter32,
 starPPPStatPapAuthFail Counter32,
 starPPPStatMSChapAuthFail Counter32,
 starPPPStatStacComp Counter32,
 starPPPStatMppcComp Counter32,

```

```

starPPPStatDeflComp      Counter32,
starPPPStatFscErrs      Counter32,
starPPPStatUnknProto    Counter32,
starPPPStatBadAddr      Counter32,
starPPPStatBadCtrl      Counter32,
starPPPStatVjComp       Counter32,
starPPPStatDiscLcpRemote Counter32,
starPPPStatDiscRpRemote Counter32,
starPPPStatDiscAdmin    Counter32,
starPPPStatDiscIdleTimeout Counter32,
starPPPStatDiscAbsTimeout Counter32,
starPPPStatDiscPPPKeepalive Counter32,
starPPPStatDiscNoResource Counter32,
starPPPStatDiscMisc     Counter32,
    starPPPStatFailedReneg Counter32,
    starPPPStatLcpFailUnknown Counter32,
starPPPStatIpcpFailUnknown Counter32,
    starPPPStatAuthAbort Counter32,
    starPPPStatLowerLayerDisc Counter32,
    starPPPStatLcpSuccess Counter32,
    starPPPStatAuthSuccess Counter32,
    starPPPStatRenegLowerLayerHandoff Counter32,
    starPPPStatRenegParamUpdate Counter32,
starPPPStatChapAuthSuccess Counter32,
starPPPStatPapAuthSuccess Counter32,
starPPPStatMSChapAuthSuccess Counter32,
starPPPStatChapAuthAbort Counter32,
starPPPStatPapAuthAbort Counter32,
starPPPStatMSChapAuthAbort Counter32,
    starPPPStatSessSkipAuth Counter32,
    starPPPStatNegComp Counter32,
    starPPPStatCCPNegFailComp Counter32,
    starPPPStatDiscLocalLowerLayer Counter32,
    starPPPStatDiscAddFlowFail Counter32,
    starPPPStatDiscMaxRetriesLCP Counter32,
    starPPPStatDiscMaxRetriesPCP Counter32,
    starPPPStatDiscMaxSetupTimer Counter32,
    starPPPStatDiscInvalidDestVpn Counter32,
    starPPPStatDiscOptNegFailLCP Counter32,
    starPPPStatDiscOptNegFailPCP Counter32,
    starPPPStatDiscNoRemotelpAddr Counter32,
    starPPPStatDiscCallTypeDetectFail Counter32,
    starPPPStatDiscRemoteDiscUpLayer Counter32,
    starPPPStatDiscLongDuraTimeout Counter32,
    starPPPStatDiscAuthFail Counter32,
    starPPPStatLCPEchoTotalReq Counter32,
    starPPPStatLCPEchoReqResent Counter32,
    starPPPStatLCPEchoRepRecved Counter32,
    starPPPStatLCPEchoReqTimeout Counter32,
    starPPPStatRecvErrBadCtrlField Counter32,
    starPPPStatRecvErrBadPacketLen Counter32,
    starPPPStatRemoteTerm Counter32,
    starPPPStatMiscFail Counter32
}

```

starPPPStatVpnID OBJECT-TYPE

```

SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The internal identification of the PPP VPN (context)"
 ::= { starPPPStatEntry 1 }

```

starPPPStatSvcID OBJECT-TYPE

```

SYNTAX StarShortID
MAX-ACCESS not-accessible

```

STATUS current

DESCRIPTION

"The service identification is made up from first 8 chars of context name
and first 8 chars of service name separated by (:)"

::= { starPPPStatEntry 2 }

starPPPStatVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the PPP VPN (context)"

::= { starPPPStatEntry 3 }

starPPPStatServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the PPP service"

::= { starPPPStatEntry 4 }

starPPPStatInit OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initialized PPP sessions for the associated VPN service"

::= { starPPPStatEntry 5 }

starPPPStatReneg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP session renegotiations for the associated VPN service"

::= { starPPPStatEntry 6 }

starPPPStatSuccess OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP session negotiation successes for the associated VPN service "

::= { starPPPStatEntry 7 }

starPPPStatFailed OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP session negotiation failures for the associated VPN service"

::= { starPPPStatEntry 8 }

starPPPStatReleased OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions released for the associated VPN service"

::= { starPPPStatEntry 9 }

starPPPStatReleasedLocal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions where the release was initiated locally for the associated VPN service"

::= { starPPPStatEntry 10 }

starPPPStatReleasedRemote OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions where the release was initiated remotely for the associated VPN service"

::= { starPPPStatEntry 11 }

starPPPStatLcpFailMaxRetry OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed to bring up the link control protocol due to excessive retries for the associated VPN service"

::= { starPPPStatEntry 12 }

starPPPStatLcpFailOption OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed to bring up the link control protocol due to an invalid option being received for the associated VPN service"

::= { starPPPStatEntry 13 }

starPPPStatIpcpFailMaxRetry OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed to start the IP control protocol due to excessive retries for the associated VPN service"

::= { starPPPStatEntry 14 }

starPPPStatIpcpFailOption OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed to start the IP control protocol due to an invalid option being received for the associated VPN service"

::= { starPPPStatEntry 15 }

starPPPStatCcpFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed to initialize the CCP"

::= { starPPPStatEntry 16 }

starPPPStatAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed authentication for the associated VPN"

::= { starPPPStatEntry 17 }

starPPPStatLcpEntered OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which successfully initialized the link control protocol"

::= { starPPPStatEntry 18 }

starPPPStatAuthEntered OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which were successfully authenticated"

::= { starPPPStatEntry 19 }

starPPPStatIpcpEntered OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which successfully initialized the IP control protocol"

::= { starPPPStatEntry 20 }

starPPPStatRenegPdsn OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which renegotiated the PDSN service access"

::= { starPPPStatEntry 21 }

starPPPStatRenegMobil OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which renegotiated the Mobile IP service access"

::= { starPPPStatEntry 22 }

starPPPStatRenegAddrMismatch OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which had an IP address mismatch during renegotiation"

::= { starPPPStatEntry 23 }

starPPPStatRenegOther OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed renegotiation for reasons other than IP address mismatch"

::= { starPPPStatEntry 24 }

starPPPStatChapAuthAttempt OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP CHAP authentication attempts for the associated VPN service"

::= { starPPPStatEntry 25 }

starPPPStatPapAuthAttempt OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP PAP authentication attempts for the associated VPN service"

::= { starPPPStatEntry 26 }

starPPPStatMSChapAuthAttempt OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP MSCHAP authentication attempts for the associated VPN service"

::= { starPPPStatEntry 27 }

starPPPStatChapAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP CHAP authentication attempt failures for the associated VPN service"

::= { starPPPStatEntry 28 }

starPPPStatPapAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP PAP authentication failures for the associated VPN service"

::= { starPPPStatEntry 29 }

starPPPStatMSChapAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP MSCHAP authentication failures for the associated VPN service"

::= { starPPPStatEntry 30 }

starPPPStatStacComp OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which had STAC compression enabled for the associated VPN service"

::= { starPPPStatEntry 31 }

starPPPStatMppcComp OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which had MPPC compression enabled for the associated VPN service"

::= { starPPPStatEntry 32 }

starPPPStatDeflComp OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which had DEFLATE compression enabled for the associated VPN service"

::= { starPPPStatEntry 33 }

starPPPStatFscErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP forward sequence control errors in messaging"

::= { starPPPStatEntry 34 }

starPPPStatUnknProto OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed due to an unknown protocol received for the associated VPN service"

::= { starPPPStatEntry 35 }

starPPPStatBadAddr OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which failed due to a bad address being received for the associated VPN service"

::= { starPPPStatEntry 36 }

starPPPStatBadCtrl OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions in which a bad control sequence was received"

::= { starPPPStatEntry 37 }

starPPPStatVjComp OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which had VJ header compression enabled for the associated VPN service"

::= { starPPPStatEntry 38 }

starPPPStatDiscLcpRemote OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which were disconnected via the link control protocol from the remote end for the associated VPN service"

::= { starPPPStatEntry 39 }

starPPPStatDiscRpRemote OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which were disconnected by the remote via the R-P interface for the associated VPN service"

::= { starPPPStatEntry 40 }

starPPPStatDiscAdmin OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions which were disconnected by a local administrator for the associated VPN service"

```
::= { starPPPStatEntry 41 }
```

starPPPStatDiscIdleTimeout OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions disconnected due to session idle timer expiration for the associated VPN service"

```
::= { starPPPStatEntry 42 }
```

starPPPStatDiscAbsTimeout OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions disconnected due to the session absolute timer expiration for the associated VPN service"

```
::= { starPPPStatEntry 43 }
```

starPPPStatDiscPPPKeepalive OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions disconnected due to PPP keep alive failure for the associated VPN service"

```
::= { starPPPStatEntry 44 }
```

starPPPStatDiscNoResource OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions disconnected due to local resource shortage for the associated VPN service"

```
::= { starPPPStatEntry 45 }
```

starPPPStatDiscMisc OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions disconnected due to any cause which does not match any other existing disconnect statistics for the associated VPN service"

```
::= { starPPPStatEntry 46 }
```

starPPPStatFailedReneg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of failed PPP renegotiations the associated VPN service"

```
::= { starPPPStatEntry 47 }
```

starPPPStatLcpFailUnknown OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of failed PPP LCP that are due to unknown reasons for the associated VPN service"

```
::= { starPPPStatEntry 48 }
```

starPPPStatlpcpFailUnknown OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of failed PPP IPCP that are due to unknown reasons
for the associated VPN service"
::= { starPPPStatEntry 49 }

starPPPStatAuthAbort OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of aborted PPP authentications
for the associated VPN service"
::= { starPPPStatEntry 50 }

starPPPStatLowerLayerDisc OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of Failed PPP session due to RP disconnect
for the associated VPN service"
::= { starPPPStatEntry 51 }

starPPPStatLcpSuccess OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of successful PPP LCPs
for the associated VPN service"
::= { starPPPStatEntry 52 }

starPPPStatAuthSuccess OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of successful PPP authentications
for the associated VPN service"
::= { starPPPStatEntry 53 }

starPPPStatRenegLowerLayerHandoff OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of PPP renegotiations for RP handoff
for the associated VPN service"
::= { starPPPStatEntry 54 }

starPPPStatRenegParamUpdate OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of PPP renegotiations for parameter update
for the associated VPN service"
::= { starPPPStatEntry 55 }

starPPPStatChapAuthSuccess OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```
"The number of successful PPP CHAP authentications
for the associated VPN service"
 ::= { starPPPStatEntry 56 }

starPPPStatPapAuthSuccess OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of successful PPP PAP authentications
for the associated VPN service"
 ::= { starPPPStatEntry 57 }

starPPPStatMSChapAuthSuccess OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of successful PPP MSCHAP authentications
for the associated VPN service"
 ::= { starPPPStatEntry 58 }

starPPPStatChapAuthAbort OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of aboted PPP CHAP authentications
for the associated VPN service"
 ::= { starPPPStatEntry 59 }

starPPPStatPapAuthAbort OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of aboted PPP PAP authentications
for the associated VPN service"
 ::= { starPPPStatEntry 60 }

starPPPStatMSChapAuthAbort OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of aboted PPP MSCHAP authentications
for the associated VPN service"
 ::= { starPPPStatEntry 61 }

starPPPStatSessSkipAuth OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of PPP sessions that skipped authentications
for the associated VPN service"
 ::= { starPPPStatEntry 62 }

starPPPStatNegComp OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of PPP sessions that negotiated compressions
for the associated VPN service"
 ::= { starPPPStatEntry 63 }
```

starPPPStatCCPNegFailComp OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PPP sessions that failed compression negotiation
for the associated VPN service"

::= { starPPPStatEntry 64 }

starPPPStatDiscLocalLowerLayer OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to local RP disconnect
for the associated VPN service"

::= { starPPPStatEntry 65 }

starPPPStatDiscAddFlowFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to failure in adding new flow
for the associated VPN service"

::= { starPPPStatEntry 66 }

starPPPStatDiscMaxRetriesLCP OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to max retries for LCP
for the associated VPN service"

::= { starPPPStatEntry 67 }

starPPPStatDiscMaxRetriesIPCP OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to max retries for IPCP
for the associated VPN service"

::= { starPPPStatEntry 68 }

starPPPStatDiscMaxSetupTimer OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to max setup time out
for the associated VPN service"

::= { starPPPStatEntry 69 }

starPPPStatDiscInvalidDestVpn OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to invalid destination VPN
for the associated VPN service"

::= { starPPPStatEntry 70 }

starPPPStatDiscOptNegFailLCP OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to invalid destination VPN
for the associated VPN service"

::= { starPPPStatEntry 71 }

starPPPStatDiscOptNegFailIPCP OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to failed IPCP option negotiation
for the associated VPN service"

::= { starPPPStatEntry 72 }

starPPPStatDiscNoRemotelpAddr OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to no remote ip address
for the associated VPN service"

::= { starPPPStatEntry 73 }

starPPPStatDiscCallTypeDetectFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to failure detecting call type
for the associated VPN service"

::= { starPPPStatEntry 74 }

starPPPStatDiscRemoteDiscUpLayer OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to failure detecting call type
for the associated VPN service"

::= { starPPPStatEntry 75 }

starPPPStatDiscLongDuraTimeout OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to long duration time out
for the associated VPN service"

::= { starPPPStatEntry 76 }

starPPPStatDiscAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of disconnected PPP sessions due to failed authentication
for the associated VPN service"

::= { starPPPStatEntry 77 }

starPPPStatLCPEchoTotalReq OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of PPP LCP echo requests
for the associated VPN service"

::= { starPPPStatEntry 78 }

starPPPStatLCPEchoReqResent OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of PPP LCP echo requests resent
for the associated VPN service"

::= { starPPPStatEntry 79 }

starPPPStatLCPEchoRepRecvd OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of PPP LCP echo replys received
for the associated VPN service"

::= { starPPPStatEntry 80 }

starPPPStatLCPEchoReqTimeout OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of PPP LCP echo requests time out
for the associated VPN service"

::= { starPPPStatEntry 81 }

starPPPStatRecvErrBadCtrlField OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of received PPP error due to bad control fields
for the associated VPN service"

::= { starPPPStatEntry 82 }

starPPPStatRecvErrBadPacketLen OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of received PPP error due to bad packet length
for the associated VPN service"

::= { starPPPStatEntry 83 }

starPPPStatRemoteTerm OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of PPP remote terminations
for the associated VPN service"

::= { starPPPStatEntry 84 }

starPPPStatMiscFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of misc PPP failures
for the associated VPN service"

::= { starPPPStatEntry 85 }

-- MIPHA Stats

starentMIPHA OBJECT IDENTIFIER ::= { starentMIBObjects 22 }

starMIPHAStatTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarMIPHAStatEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing MIP HA Stats"

::= { starentMIPHA 1 }

starMIPHAStatEntry OBJECT-TYPE

SYNTAX StarMIPHAStatEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Mobile IP home agent statistics for a specific VPN (context) and service"

INDEX { IMPLIED starMIPHAStatSvcID }

::= { starMIPHAStatTable 1 }

StarMIPHAStatEntry ::=

SEQUENCE {

starMIPHAStatVpnID	Gauge32,
starMIPHAStatSvcID	StarShortID,
starMIPHAStatVpnName	DisplayString,
starMIPHAStatServName	DisplayString,
starMIPHAStatDisconnects	Counter32,
starMIPHAStatExpiry	Counter32,
starMIPHAStatDereg	Counter32,
starMIPHAStatAdminDrop	Counter32,
starMIPHAStatRegRecvTotal	Counter32,
starMIPHAStatRegRecvInitial	Counter32,
starMIPHAStatRegRecvRenew	Counter32,
starMIPHAStatRegRecvDereg	Counter32,
starMIPHAStatRegAcceptTotal	Counter32,
starMIPHAStatRegAcceptReg	Counter32,
starMIPHAStatRegAcceptRenew	Counter32,
starMIPHAStatRegAcceptDereg	Counter32,
starMIPHAStatRegDeniedTotal	Counter32,
starMIPHAStatRegDeniedInitial	Counter32,
starMIPHAStatRegDeniedRenew	Counter32,
starMIPHAStatRegDeniedDereg	Counter32,
starMIPHAStatRegReplyTotal	Counter32,
starMIPHAStatRegReplyAcceptReg	Counter32,
starMIPHAStatRegReplyAcceptDereg	Counter32,
starMIPHAStatRegReplyDenied	Counter32,
starMIPHAStatRegReplyBadReq	Counter32,
starMIPHAStatRegReplyMismatchID	Counter32,
starMIPHAStatRegReplyAdminProhib	Counter32,
starMIPHAStatRegReplyUnspecErr	Counter32,
starMIPHAStatRegReplyNoResource	Counter32,
starMIPHAStatRegReplyMnAuthFail	Counter32,
starMIPHAStatRegReplyFAAuthFail	Counter32,
starMIPHAStatRegReplySimulBind	Counter32,
starMIPHAStatRegReplyUnknownHA	Counter32,
starMIPHAStatRegReplyRevTunUnav	Counter32,
starMIPHAStatRegReplyRevTunMand	Counter32,
starMIPHAStatRegReplyEncapUnav	Counter32,
starMIPHAStatRegReplySendError	Counter32,
starMIPHAStatFARevocations	Counter32,
starMIPHAStatRegAcceptHO	Counter32,
starMIPHAStatRegDeniedHO	Counter32,
starMIPHAStatRegDiscardTotal	Counter32

}

starMIPHStatVpnID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The internal identification of the home agent Mobile IP VPN (context)"

::= { starMIPHStatEntry 1 }

starMIPHStatSvcID OBJECT-TYPE

SYNTAX StarShortID

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The service identification is made up from first 8 chars of context name
and first 8 chars of service name separated by (:)"

::= { starMIPHStatEntry 2 }

starMIPHStatVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the VPN (context)"

::= { starMIPHStatEntry 3 }

starMIPHStatServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Mobile IP home agent service name"

::= { starMIPHStatEntry 4 }

starMIPHStatDisconnects OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session disconnects for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 5 }

starMIPHStatExpiry OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session expirations for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 6 }

starMIPHStatDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 7 }

starMIPHStatAdminDrop OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session disconnects due to administrator actions
for the associated Mobile IP home agent VPN"

```
::= { starMIPHAStatEntry 8 }
```

starMIPHAStatRegRecvTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations received for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 9 }
```

starMIPHAStatRegRecvInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations received for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 10 }
```

starMIPHAStatRegRecvRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals received for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 11 }
```

starMIPHAStatRegRecvDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations received for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 12 }
```

starMIPHAStatRegAcceptTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations accepted for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 13 }
```

starMIPHAStatRegAcceptReg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations accepted for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 14 }
```

starMIPHAStatRegAcceptRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals accepted for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 15 }
```

starMIPHAStatRegAcceptDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations accepted for the associated Mobile IP home agent VPN service"

```
::= { starMIPHAStatEntry 16 }
```

starMIPHAStatRegDeniedTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 17 }

starMIPHAStatRegDeniedInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session initial registrations denied for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 18 }

starMIPHAStatRegDeniedRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals denied for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 19 }

starMIPHAStatRegDeniedDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations denied for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 20 }

starMIPHAStatRegReplyTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration replies for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 21 }

starMIPHAStatRegReplyAcceptReg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies accepted indicating registration
for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 22 }

starMIPHAStatRegReplyAcceptDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies accepted indicated deregistration
for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 23 }

starMIPHAStatRegReplyDenied OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were denied
for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 24 }

starMIPHStatRegReplyBadReq OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating a bad request
for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 25 }

starMIPHStatRegReplyMismatchID OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating an ID mismatch
for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 26 }

starMIPHStatRegReplyAdminProhib OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating administrator prohibition
for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 27 }

starMIPHStatRegReplyUnspecErr OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies with an unspecified error
for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 28 }

starMIPHStatRegReplyNoResource OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating no resources
for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 29 }

starMIPHStatRegReplyMnAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indication mobile number authentication failure
for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 30 }

starMIPHStatRegReplyFAAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating a foreign agent authentication
failure for the associated Mobile IP home agent VPN service"

::= { starMIPHStatEntry 31 }

starMIPHStatRegReplySimulBind OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating a simultaneous bind condition for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 32 }

starMIPHASatRegReplyUnknownHA OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating unknown home agent for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 33 }

starMIPHASatRegReplyRevTunUnav OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating no reverse tunnel available for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 34 }

starMIPHASatRegReplyRevTunMand OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating reverse tunneling is mandatory for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 35 }

starMIPHASatRegReplyEncapUnav OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating IP encapsulation was not available for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 36 }

starMIPHASatRegReplySendError OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies indicating a send error occurred for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 37 }

starMIPHASatFARevocations OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of FA revocations for the associated Mobile IP home agent VPN service"

::= { starMIPHASatEntry 38 }

starMIPHASatRegAcceptHO OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of hand over session registrations accepted
for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 39 }

starMIPHAStatRegDeniedHO OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of hand over session registrations denied
for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 40 }

starMIPHAStatRegDiscardTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations discarded
for the associated Mobile IP home agent VPN service"

::= { starMIPHAStatEntry 41 }

-- MIPFA Stats

starentMIPFA OBJECT IDENTIFIER ::= { starentMIBObjects 23 }

starMIPFAStatTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarMIPFAStatEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing MIP FA Stats"

::= { starentMIPFA 1 }

starMIPFAStatEntry OBJECT-TYPE

SYNTAX StarMIPFAStatEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific foreign agent Mobile IP VPN (context) service"

INDEX { IMPLIED starMIPFAStatSvcID }

::= { starMIPFAStatTable 1 }

StarMIPFAStatEntry ::=

SEQUENCE {

starMIPFAStatVpnID	Gauge32,
starMIPFAStatSvcID	StarShortID,
starMIPFAStatVpnName	DisplayString,
starMIPFAStatServName	DisplayString,
starMIPFAStatAdvertSend	Counter32,
starMIPFAStatDiscExpiry	Counter32,
starMIPFAStatDiscDereg	Counter32,
starMIPFAStatDiscAdmin	Counter32,
starMIPFAStatAuthAttempt	Counter32,
starMIPFAStatAuthSuccess	Counter32,
starMIPFAStatAuthFailure	Counter32,
starMIPFAStatRegRecvTotal	Counter32,
starMIPFAStatRegRecvInitial	Counter32,
starMIPFAStatRegRecvRenewal	Counter32,
starMIPFAStatRegRecvDereg	Counter32,
starMIPFAStatRegAcceptTotal	Counter32,
starMIPFAStatRegAcceptInitial	Counter32,
starMIPFAStatRegAcceptRenewal	Counter32,
starMIPFAStatRegAcceptDereg	Counter32,
starMIPFAStatRegDenTotal	Counter32,
starMIPFAStatRegDenInitial	Counter32,

starMIPFAStatRegDenRenewal Counter32,
starMIPFAStatRegDenDereg Counter32,
starMIPFAStatRegDiscardTotal Counter32,
starMIPFAStatRegDiscardInitial Counter32,
starMIPFAStatRegDiscardRenewal Counter32,
starMIPFAStatRegDiscardDereg Counter32,
starMIPFAStatRegRelayedTotal Counter32,
starMIPFAStatRegRelayedInitial Counter32,
starMIPFAStatRegRelayedRenewal Counter32,
starMIPFAStatRegRelayedDereg Counter32,
starMIPFAStatRegAuthFailTotal Counter32,
starMIPFAStatRegAuthFailInitial Counter32,
starMIPFAStatRegAuthFailRenewal Counter32,
starMIPFAStatRegAuthFailDereg Counter32,
starMIPFAStatRegDenPDSNTotal Counter32,
starMIPFAStatRegDenPDSNInitial Counter32,
starMIPFAStatRegDenPDSNRenewal Counter32,
starMIPFAStatRegDenPDSNDereg Counter32,
starMIPFAStatRegDenHATotal Counter32,
starMIPFAStatRegDenHAInitial Counter32,
starMIPFAStatRegDenHARenewal Counter32,
starMIPFAStatRegDenHADereg Counter32,
starMIPFAStatRegDenPDSNUnspec Counter32,
starMIPFAStatRegDenPDSNTimeout Counter32,
starMIPFAStatRegDenPDSNAdmin Counter32,
starMIPFAStatRegDenPDSNResources Counter32,
starMIPFAStatRegDenPDSNMnAuth Counter32,
starMIPFAStatRegDenPDSNHAAuth Counter32,
starMIPFAStatRegDenPDSNTooLong Counter32,
starMIPFAStatRegDenPDSNBadReq Counter32,
starMIPFAStatRegDenPDSNEncapUnav Counter32,
starMIPFAStatRegDenPDSNRevTunUnav Counter32,
starMIPFAStatRegDenPDSNRevTunMand Counter32,
starMIPFAStatRegDenHAFAAuth Counter32,
starMIPFAStatRegDenHABadReq Counter32,
starMIPFAStatRegDenHAMismatchID Counter32,
starMIPFAStatRegDenHASimulBind Counter32,
starMIPFAStatRegDenHAUnknownHA Counter32,
starMIPFAStatRegDenHARevRunUnavail Counter32,
starMIPFAStatRegRplRcvTotal Counter32,
starMIPFAStatRegRplRcvTotalRly Counter32,
starMIPFAStatRegRplRcvErrors Counter32,
starMIPFAStatRegRplRcvInitial Counter32,
starMIPFAStatRegRplRcvInitialRly Counter32,
starMIPFAStatRegRplRcvRenewal Counter32,
starMIPFAStatRegRplRcvRenewalRly Counter32,
starMIPFAStatRegRplRcvDereg Counter32,
starMIPFAStatRegRplRcvDeregRly Counter32,
starMIPFAStatRegRplSentTotal Counter32,
starMIPFAStatRegRplSentAcceptReg Counter32,
starMIPFAStatRegRplSentAcceptDereg Counter32,
starMIPFAStatRegRplSentBadReq Counter32,
starMIPFAStatRegRplSentTooLong Counter32,
starMIPFAStatRegRplSentMnAuthFail Counter32,
starMIPFAStatRegRplSentHAAuthFail Counter32,
starMIPFAStatRegRplSentAdminProhib Counter32,
starMIPFAStatRegRplSentNoResources Counter32,
starMIPFAStatRegRplSentRevTunUnav Counter32,
starMIPFAStatRegRplSentRevTunMand Counter32,
starMIPFAStatRegRplSentSendErrors Counter32,
starMIPFAStatRegDenPDSNBadReply Counter32,
starMIPFAStatRegDenPDSNMissNAI Counter32,
starMIPFAStatRegDenPDSNMissHomeAgent Counter32,
starMIPFAStatRegDenPDSNMissHomeAddr Counter32,
starMIPFAStatRegDenPDSNUnknChallenge Counter32,
starMIPFAStatRegDenPDSNMissChallenge Counter32,

```

starMIPFASatRegDenPDSNStaleChallenge Counter32,
starMIPFASatRegDenPDSNMNTooDistant Counter32,
starMIPFASatRegDenPDSNStyleUnavail Counter32,
starMIPFASatRegDenPDSNHANetUnreach Counter32,
starMIPFASatRegDenPDSNHAHostUnreach Counter32,
starMIPFASatRegDenPDSNHAPortUnreach Counter32,
starMIPFASatRegDenPDSNHAUnreach Counter32,
starMIPFASatRegDenPDSNInvCOA Counter32,
starMIPFASatRegReqSentInitTotal Counter32,
starMIPFASatRegReqSentInitResend Counter32,
starMIPFASatRegReqSentRenewTotal Counter32,
starMIPFASatRegReqSentRenewResend Counter32,
starMIPFASatRegReqSentDeregTotal Counter32,
starMIPFASatRegReqSentDeregResend Counter32,
starMIPFASatRegRplSentMNTooDistant Counter32,
starMIPFASatRegRplSentInvCOA Counter32,
starMIPFASatRegRplSentHANetUnreach Counter32,
starMIPFASatRegRplSentHAHostUnreach Counter32,
starMIPFASatRegRplSentHAPortUnreach Counter32,
starMIPFASatRegRplSentHAUnreach Counter32,
starMIPFASatRegRplSentRegTimeout Counter32,
starMIPFASatRegRplSentMissNAI Counter32,
starMIPFASatRegRplSentMissHomeAgent Counter32,
starMIPFASatRegRplSentMissHomeAddr Counter32,
starMIPFASatRegRplSentUnknChallenge Counter32,
starMIPFASatRegRplSentMissChallenge Counter32,
starMIPFASatRegRplSentStaleChallenge Counter32,
starMIPFASatRegRplSentBadReply Counter32
}

```

starMIPFASatVpnID OBJECT-TYPE

```

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Internal identification of the foreign agent Mobile IP VPN (context)"
 ::= { starMIPFASatEntry 1 }

```

starMIPFASatSvcID OBJECT-TYPE

```

SYNTAX StarShortID
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The service identification is made up from first 8 chars of context name
    and first 8 chars of service name separated by (:)"
 ::= { starMIPFASatEntry 2 }

```

starMIPFASatVpnName OBJECT-TYPE

```

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The foreign agent mobile IP VPN (context) name"
 ::= { starMIPFASatEntry 3 }

```

starMIPFASatServName OBJECT-TYPE

```

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The Mobile IP foreign agent service name"
 ::= { starMIPFASatEntry 4 }

```

starMIPFASatAdvertSend OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only

```

STATUS current

DESCRIPTION

"The number of advertisements sent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 5 }

starMIPFASatDiscExpiry OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session disconnects due to expiration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 6 }

starMIPFASatDiscDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session disconnects due to deregistration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 7 }

starMIPFASatDiscAdmin OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session disconnects due to administrator action for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 8 }

starMIPFASatAuthAttempt OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session authentication attempts for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 9 }

starMIPFASatAuthSuccess OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session authentication successes for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 10 }

starMIPFASatAuthFailure OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session authentication failures for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 11 }

starMIPFASatRegRecvTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations received for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 12 }

starMIPFASatRegRecvInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations received for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 13 }

starMIPFASatRegRecvRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 14 }

starMIPFASatRegRecvDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 15 }

starMIPFASatRegAcceptTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations accepted for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 16 }

starMIPFASatRegAcceptInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations accepted for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 17 }

starMIPFASatRegAcceptRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals accepted for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 18 }

starMIPFASatRegAcceptDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations accepted for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 19 }

starMIPFASatRegDenTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations denied for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 20 }

starMIPFASatRegDenInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations denied for the associated Mobile IP foreign agent VPN service"
 ::= { starMIPFASatEntry 21 }

starMIPFASatRegDenRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals denied for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 22 }

starMIPFASatRegDenDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations denied for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 23 }

starMIPFASatRegDiscardTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations discarded for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 24 }

starMIPFASatRegDiscardInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations discarded for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 25 }

starMIPFASatRegDiscardRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals discarded for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 26 }

starMIPFASatRegDiscardDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session reregistrations discarded for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 27 }

starMIPFASatRegRelayedTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations relayed for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 28 }

starMIPFASatRegRelayedInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations relayed for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 29 }

starMIPFASatRegRelayedRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals relayed for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 30 }

starMIPFASStatRegRelayedDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations relayed for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 31 }

starMIPFASStatRegAuthFailTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration authentication failures for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 32 }

starMIPFASStatRegAuthFailInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registration failures for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 33 }

starMIPFASStatRegAuthFailRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewal failures for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 34 }

starMIPFASStatRegAuthFailDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistration authentication failures for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 35 }

starMIPFASStatRegDenPDSNTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of PDSN session registrations denied for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 36 }

starMIPFASStatRegDenPDSNInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial PDSN session registrations denied for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 37 }

starMIPFASStatRegDenPDSNRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registration renewals denied for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 38 }

starMIPFASatRegDenPDSNDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session deregistrations denied for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 39 }

starMIPFASatRegDenHATotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session deregistrations denied by the home agent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 40 }

starMIPFASatRegDenHAInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations denied by the home agent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 41 }

starMIPFASatRegDenHARenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals denied by the home agent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 42 }

starMIPFASatRegDenHADereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations denied by the home agent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 43 }

starMIPFASatRegDenPDSNUnspec OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied for an unspecified reason for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 44 }

starMIPFASatRegDenPDSNTimeout OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to timer expiration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 45 }

starMIPFASatRegDenPDSNAdmin OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to administrator prohibition for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 46 }

starMIPFASatRegDenPDSNResources OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to no resources for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 47 }

starMIPFASatRegDenPDSNMnAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to mobile number authentication for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 48 }

starMIPFASatRegDenPDSNHAAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied by the home agent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 49 }

starMIPFASatRegDenPDSNToolong OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to a life too long indication for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 50 }

starMIPFASatRegDenPDSNBadReq OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to a bad request indication for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 51 }

starMIPFASatRegDenPDSNEncapUnav OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to no IP encapsulation available for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 52 }

starMIPFASatRegDenPDSNRevTunUnav OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registrations denied due to no reverse tunnel available for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 53 }

starMIPFASatRegDenPDSNRevTunMand OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN session registration denied due to reverse tunneling being mandatory for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 54 }

starMIPFASatRegDenHAFAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDSN registrations denied by the home agent due to authentication failure for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 55 }

starMIPFASatRegDenHABadReq OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration denied by the home agent due to the request being invalid for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 56 }

starMIPFASatRegDenHAMismatchID OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by the home agent due to an ID mismatch for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 57 }

starMIPFASatRegDenHASimulBind OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by the home agent due to a simultaneous bind attempt for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 58 }

starMIPFASatRegDenHAUnknownHA OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by the home agent for an unknown reason for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 59 }

starMIPFASatRegDenHARevRunUnavail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by the home agent due to no reverse tunnel being available for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 60 }

starMIPFASatRegRplRcvTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration replies received for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 61 }

starMIPFASatRegRplRcvTotalRly OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration replies relayed for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 62 }

starMIPFASatRegRplRcvErrors OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration replies received indicating errors for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 63 }

starMIPFASatRegRplRcvInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registration replies received for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 64 }

starMIPFASatRegRplRcvInitialRly OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registration replies relayed for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 65 }

starMIPFASatRegRplRcvRenewal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewal replies received for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 66 }

starMIPFASatRegRplRcvRenewalRly OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewal replies received for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 67 }

starMIPFASatRegRplRcvDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies received indicating deregistration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 68 }

starMIPFASatRegRplRcvDeregRly OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies relayed indicating deregistration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 69 }

starMIPFASatRegRplSentTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration replies sent for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 70 }

starMIPFASatRegRplSentAcceptReg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent and accepted for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 71 }

starMIPFASatRegRplSentAcceptDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent and accepted indication deregistration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 72 }

starMIPFASatRegRplSentBadReq OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating the request was invalid for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 73 }

starMIPFASatRegRplSentTooLong OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating life too long for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 74 }

starMIPFASatRegRplSentMnAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating mobile number authentication failure for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 75 }

starMIPFASStatRegRplSentHAAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating home agent authentication failure for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 76 }

starMIPFASStatRegRplSentAdminProhib OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating prohibited by the administration for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 77 }

starMIPFASStatRegRplSentNoResources OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating no resources available for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 78 }

starMIPFASStatRegRplSentRevTunUnav OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating no reverse tunnel available for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 79 }

starMIPFASStatRegRplSentRevTunMand OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating reverse tunneling was mandatory for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 80 }

starMIPFASStatRegRplSentSendErrors OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration replies which were sent indicating there were errors in transmission for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASStatEntry 81 }

starMIPFASStatRegDenPDSNBadReply OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to bad relply from HA
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 82 }

starMIPFASatRegDenPDSNMissNAI OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to missing NAI
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 83 }

starMIPFASatRegDenPDSNMissHomeAgent OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to missing home agent
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 84 }

starMIPFASatRegDenPDSNMissHomeAddr OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to missing home address
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 85 }

starMIPFASatRegDenPDSNUnknChallenge OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to unknown challenge
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 86 }

starMIPFASatRegDenPDSNMissChallenge OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to missing challenge
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 87 }

starMIPFASatRegDenPDSNStaleChallenge OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to stale challenge
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 88 }

starMIPFASatRegDenPDSNMNTooDistant OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to MN too distant
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 89 }

starMIPFASatRegDenPDSNStyleUnavail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration denied by PDSN due to style not available
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 90 }

starMIPFASatRegDenPDSNHAUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to HA network unreachable
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 91 }

starMIPFASatRegDenPDSNHAHostUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to HA host unreachable
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 92 }

starMIPFASatRegDenPDSNHAPortUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to HA port unreachable
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 93 }

starMIPFASatRegDenPDSNHAUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN
due to HA unreachable for misc reasons
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 94 }

starMIPFASatRegDenPDSNInvCOA OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied by PDSN due to invalid COA
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 95 }

starMIPFASatRegReqSentInitTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 96 }

starMIPFASatRegReqSentInitResend OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations retried
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 97 }

starMIPFASatRegReqSentRenewTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of renewal session registrations
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 98 }

starMIPFASatRegReqSentRenewResend OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of renewal session registrations retried
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 99 }

starMIPFASatRegReqSentDeregTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 100 }

starMIPFASatRegReqSentDeregResend OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations retried
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 101 }

starMIPFASatRegRplSentMNTooDistant OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate MN too distant
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 102 }

starMIPFASatRegRplSentInvCOA OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate invalid COA
for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 103 }

starMIPFASatRegRplSentHANetUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate HA network unreachable for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 104 }

starMIPFASatRegRplSentHAHostUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate HA host unreachable for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 105 }

starMIPFASatRegRplSentHAPortUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate HA port unreachable for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 106 }

starMIPFASatRegRplSentHAUnreach OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate HA unreachable due to misc reasons for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 107 }

starMIPFASatRegRplSentRegTimeout OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate registration time out for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 108 }

starMIPFASatRegRplSentMissNAI OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate NAI missing for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 109 }

starMIPFASatRegRplSentMissHomeAgent OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate HA missing for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 110 }

starMIPFASatRegRplSentMissHomeAddr OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate home address missing

for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 111 }

starMIPFASatRegRplSentUnknChallenge OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate unknown challenge for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 112 }

starMIPFASatRegRplSentMissChallenge OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate challenge missing for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 113 }

starMIPFASatRegRplSentStaleChallenge OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate stale challenge for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 114 }

starMIPFASatRegRplSentBadReply OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration reply that indicate bad reply for the associated Mobile IP foreign agent VPN service"

::= { starMIPFASatEntry 115 }

-- RP Stats

starentRP OBJECT IDENTIFIER ::= { starentMIBObjects 24 }

starRPStatTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarRPStatEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing MIP FA Stats"

::= { starentRP 1 }

starRPStatEntry OBJECT-TYPE

SYNTAX StarRPStatEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific R-P VPN (context) service"

INDEX { IMPLIED starRPStatSvcID }

::= { starRPStatTable 1 }

StarRPStatEntry ::=

SEQUENCE {

starRPStatVpnID Gauge32,

starRPStatSvcID StarShortID,

starRPStatVpnName DisplayString,

starRPStatServName DisplayString,

starRPRRegRecvTotal Counter32,
 starRPRRegAcceptTotal Counter32,
 starRPRRegDeniedTotal Counter32,
 starRPRRegDiscardTotal Counter32,
 starRPRRegAcceptInitial Counter32,
 starRPRRegAcceptIntraPDSN Counter32,
 starRPRRegAcceptInterPDSN Counter32,
 starRPRRegDeniedInitial Counter32,
 starRPRRegAcceptRenew Counter32,
 starRPRRegDeniedRenew Counter32,
 starRPRRegAcceptDereg Counter32,
 starRPRRegDeniedDereg Counter32,
 starRPRRegSendError Counter32,
 starRPRRegHashError Counter32,
 starRPRRegDecodeError Counter32,
 starRPRRegUnhandled Counter32,
 starRPRRegAirlinkSeqError Counter32,
 starRPRRegDenyUnspec Counter32,
 starRPRRegDenyAdminProhib Counter32,
 starRPRRegDenyNoResource Counter32,
 starRPRRegDenyAuth Counter32,
 starRPRRegDenyMismatchID Counter32,
 starRPRRegDenyBadRequest Counter32,
 starRPRRegDenyUnknownPDSN Counter32,
 starRPRRegDenyRevTunUnav Counter32,
 starRPRRegDenyRevTunReq Counter32,
 starRPRRegDenyUnrecogVend Counter32,
 starRPRRegUpdTotal Counter32,
 starRPRRegUpdAccept Counter32,
 starRPRRegUpdDenied Counter32,
 starRPRRegUpdUnack Counter32,
 starRPRRegUpdTrans Counter32,
 starRPRRegUpdRetrans Counter32,
 starRPRRegUpdReceived Counter32,
 starRPRRegUpdDiscard Counter32,
 starRPRRegUpdSendError Counter32,
 starRPRRegUpdUplyrInit Counter32,
 starRPRRegUpdOther Counter32,
 starRPRRegUpdHandoff Counter32,
 starRPRRegUpdDenyUnspec Counter32,
 starRPRRegUpdDenyAdminProhib Counter32,
 starRPRRegUpdDenyAuth Counter32,
 starRPRRegUpdDenyMismatchID Counter32,
 starRPRRegUpdDenyBadRequest Counter32,
 starRPSecViolations Counter32,
 starRPSecBadAuth Counter32,
 starRPSecBadID Counter32,
 starRPSecBadSpi Counter32,
 starRPSecMissingMnHAAAuth Counter32,
 starRPSecMissingRegUpdate Counter32,
 starRPRRegRecvInitial Counter32,
 starRPRRegAcceptActvStartIntraPDSN Counter32,
 starRPRRegAcceptActvStopIntraPDSN Counter32,
 starRPRRegRecvRenew Counter32,
 starRPRRegActvStartRenew Counter32,
 starRPRRegActvStopRenew Counter32,
 starRPRRegRecvDereg Counter32,
 starRPRRegAcceptActvStopDereg Counter32,
 starRPDiscSessAbsent Counter32,
 starRPDiscNoMemory Counter32,
 starRPDiscMalformed Counter32,
 starRPDiscAuthFail Counter32,
 starRPDiscInternalBounce Counter32,
 starRPDiscInpuQueueExceeded Counter32,
 starRPDiscMismatchedId Counter32,
 starRPDiscInvPacketLen Counter32,

```

starRPDiscMisc      Counter32,
starRP1xTxBytes    Counter32,
starRP1xRxBytes    Counter32,
starRP1xTxPackets  Counter32,
starRP1xRxPackets  Counter32,
starRPDoTxBytes    Counter32,
starRPDoRxBytes    Counter32,
starRPDoTxPackets  Counter32,
starRPDoRxPackets  Counter32
}

```

starRPStatVpnID OBJECT-TYPE

```

SYNTAX  Gauge32
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The internal identification of the R-P VPN (context)"
 ::= { starRPStatEntry 1 }

```

starRPStatSvcID OBJECT-TYPE

```

SYNTAX  StarShortID
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
    "The service identification is made up from first 8 chars of context name
    and first 8 chars of service name separated by (:)"
 ::= { starRPStatEntry 2 }

```

starRPStatVpnName OBJECT-TYPE

```

SYNTAX  DisplayString
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The R-P VPN (context) name"
 ::= { starRPStatEntry 3 }

```

starRPStatServName OBJECT-TYPE

```

SYNTAX  DisplayString
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The R-P service name"
 ::= { starRPStatEntry 4 }

```

starRPRegRecvTotal OBJECT-TYPE

```

SYNTAX  Counter32
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The total number of session registrations received for the associated R-P VPN service"
 ::= { starRPStatEntry 5 }

```

starRPRegAcceptTotal OBJECT-TYPE

```

SYNTAX  Counter32
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The total number of session registrations accepted for the associated R-P VPN service"
 ::= { starRPStatEntry 6 }

```

starRPRegDeniedTotal OBJECT-TYPE

```

SYNTAX  Counter32
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The total number of session registrations denied for the associated R-P VPN service"

```

```
::= { starRPStatEntry 7 }
```

starRPRegDiscardTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registrations discarded for the associated R-P VPN service"

```
::= { starRPStatEntry 8 }
```

starRPRegAcceptInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of initial session registrations accepted for the associated R-P VPN service"

```
::= { starRPStatEntry 9 }
```

starRPRegAcceptIntraPDSN OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The number of Intra-PDSN session registrations accepted for the associated R-P VPN service"

```
::= { starRPStatEntry 10 }
```

starRPRegAcceptInterPDSN OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Inter-PDSN session registrations accepted for the associated R-P VPN service"

```
::= { starRPStatEntry 11 }
```

starRPRegDeniedInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of initial session registrations denied for the associated R-P VPN service"

```
::= { starRPStatEntry 12 }
```

starRPRegAcceptRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals accepted for the associated R-P VPN service"

```
::= { starRPStatEntry 13 }
```

starRPRegDeniedRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration renewals denied for the associated R-P VPN service"

```
::= { starRPStatEntry 14 }
```

starRPRegAcceptDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session deregistrations accepted for the associated R-P VPN service"

```
::= { starRPStatEntry 15 }
```

starRPRegDeniedDereg OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session deregistrations denied for the associated R-P VPN service"
::= { starRPStatEntry 16 }

starRPRegSendError OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session registrations with errors in transmission
for the associated R-P VPN service"
::= { starRPStatEntry 17 }

starRPRegHashError OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session registrations with hash errors for the associated R-P VPN service"
::= { starRPStatEntry 18 }

starRPRegDecodeError OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of sessions registrations with decode errors for the associated R-P VPN service"
::= { starRPStatEntry 19 }

starRPRegUnhandled OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session registrations unable to by proceeded for the associated R-P VPN service"
::= { starRPStatEntry 20 }

starRPRegAirlinkSeqError OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session registrations with air link sequence errors for the associated R-P VPN service"
::= { starRPStatEntry 21 }

starRPRegDenyUnspec OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session registrations denied for an unspecified reason
for the associated R-P VPN service"
::= { starRPStatEntry 22 }

starRPRegDenyAdminProhib OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of session registrations denied due to administrator prohibition
for the associated R-P VPN service"
::= { starRPStatEntry 23 }

starRPRRegDenyNoResource OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to no resources available
for the associated R-P VPN service"

::= { starRPStatEntry 24 }

starRPRRegDenyAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to authentication failure
for the associated R-P VPN service"

::= { starRPStatEntry 25 }

starRPRRegDenyMismatchID OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to an ID mismatch
for the associated R-P VPN service"

::= { starRPStatEntry 26 }

starRPRRegDenyBadRequest OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to the request being invalid
for the associated R-P VPN service"

::= { starRPStatEntry 27 }

starRPRRegDenyUnknownPDSN OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to the packet data service not
being recognized for the associated R-P VPN service"

::= { starRPStatEntry 28 }

starRPRRegDenyRevTunUnav OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to no reverse tunnel being available
for the associated R-P VPN service"

::= { starRPStatEntry 29 }

starRPRRegDenyRevTunReq OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to reverse tunneling being
mandatory for the associated R-P VPN service"

::= { starRPStatEntry 30 }

starRPRRegDenyUnrecogVend OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registrations denied due to the vendor not being recognized for the associated R-P VPN service"

::= { starRPStatEntry 31 }

starRPRegUpdTotal OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session registration updates for the associated R-P VPN service"

::= { starRPStatEntry 32 }

starRPRegUpdAccept OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates which were accepted for the associated R-P VPN service"

::= { starRPStatEntry 33 }

starRPRegUpdDenied OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates which were denied for the associated R-P VPN service"

::= { starRPStatEntry 34 }

starRPRegUpdUnack OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates which were not acknowledged for the associated R-P VPN service"

::= { starRPStatEntry 35 }

starRPRegUpdTrans OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates sent for the associated R-P VPN service"

::= { starRPStatEntry 36 }

starRPRegUpdRetrans OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates resent for the associated R-P VPN service"

::= { starRPStatEntry 37 }

starRPRegUpdReceived OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates received for the associated R-P VPN service"

::= { starRPStatEntry 38 }

starRPRegUpdDiscard OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates discarded for the associated R-P VPN service"

::= { starRPStatEntry 39 }

starRPRegUpdSendError OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates with errors in transmission
for the associated R-P VPN service"

::= { starRPStatEntry 40 }

starRPRegUpdUplyrInit OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates with up-link reinitializations"

::= { starRPStatEntry 41 }

starRPRegUpdOther OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates with a reason of 'other'
for the associated R-P VPN service"

::= { starRPStatEntry 42 }

starRPRegUpdHandoff OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates due to a mobile hand-off
for the associated R-P VPN service"

::= { starRPStatEntry 43 }

starRPRegUpdDenyUnspec OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates denied for an unspecified
reason for the associated R-P VPN service"

::= { starRPStatEntry 44 }

starRPRegUpdDenyAdminProhib OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates denied due to administration
prohibition for the associated R-P VPN service"

::= { starRPStatEntry 45 }

starRPRegUpdDenyAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates denied due to authentication
failure for the associated R-P VPN service"

```
::= { starRPStatEntry 46 }
```

starRPRegUpdDenyMismatchID OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates denied due to an ID mismatch for the associated R-P VPN service"

```
::= { starRPStatEntry 47 }
```

starRPRegUpdDenyBadRequest OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of session registration updates denied due to the request being invalid for the associated R-P VPN service"

```
::= { starRPStatEntry 48 }
```

starRPSecViolations OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session security violations for the associated R-P VPN service"

```
::= { starRPStatEntry 49 }
```

starRPSecBadAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session security authentication violations for the associated R-P VPN service"

```
::= { starRPStatEntry 50 }
```

starRPSecBadID OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session security ID violations for the associated R-P VPN service"

```
::= { starRPStatEntry 51 }
```

starRPSecBadSpi OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session security SPI violations for the associated R-P VPN service"

```
::= { starRPStatEntry 52 }
```

starRPSecMissingMnHAAuth OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session security missing mobile number home agent authentication violation for the associated R-P VPN service"

```
::= { starRPStatEntry 53 }
```

starRPSecMissingRegUpdate OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of session missing registration update violations
for the associated R-P VPN service"

::= { starRPStatEntry 54 }

starRPRegRecvInitial OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of initial session registration
for the associated R-P VPN service"

::= { starRPStatEntry 55 }

starRPRegAcceptActvStartIntraPDSN OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accepted registration request during
intraPDSN handoff which contains active start
for the associated R-P VPN service"

::= { starRPStatEntry 56 }

starRPRegAcceptActvStopIntraPDSN OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accepted registration request during
intraPDSN handoff which contains active stop
for the associated R-P VPN service"

::= { starRPStatEntry 57 }

starRPRegRecvRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of received renew registration request
for the associated R-P VPN service"

::= { starRPStatEntry 58 }

starRPRegActvStartRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of received renew registration request that contains active start
for the associated R-P VPN service"

::= { starRPStatEntry 59 }

starRPRegActvStopRenew OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of received renew registration request that contains active stop
for the associated R-P VPN service"

::= { starRPStatEntry 60 }

starRPRegRecvDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of received deregistration request

for the associated R-P VPN service"

::= { starRPStatEntry 61 }

starRPRegAcceptActvStopDereg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accepted deregistration request that contains active stop
for the associated R-P VPN service"

::= { starRPStatEntry 62 }

starRPDiscSessAbsent OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of registration request discarded due to no session
for the associated R-P VPN service"

::= { starRPStatEntry 63 }

starRPDiscNoMemory OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of registration request discarded due to no memory
for the associated R-P VPN service"

::= { starRPStatEntry 64 }

starRPDiscMalformed OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of registration request discarded because malformed
for the associated R-P VPN service"

::= { starRPStatEntry 65 }

starRPDiscAuthFail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of registration request discarded because authentication failed
for the associated R-P VPN service"

::= { starRPStatEntry 66 }

starRPDiscInternalBounce OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of registration request discarded because internal bounce
for the associated R-P VPN service"

::= { starRPStatEntry 67 }

starRPDiscInpuQueueExceeded OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of registration request discarded because internal queue exceeded
for the associated R-P VPN service"

::= { starRPStatEntry 68 }

starRPDiscMismatchedId OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of registration request discarded because mismatched ID
for the associated R-P VPN service"
::= { starRPStatEntry 69 }

starRPDiscInvPacketLen OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of registration request discarded because invalid packet length
for the associated R-P VPN service"
::= { starRPStatEntry 70 }

starRPDiscMisc OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of registration request discarded due to misc reasons
for the associated R-P VPN service"
::= { starRPStatEntry 71 }

starRP1xTxBytes OBJECT-TYPE

SYNTAX Counter32
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of 1x bytes transmitted, in megabytes"
::= { starRPStatEntry 72 }

starRP1xRxBytes OBJECT-TYPE

SYNTAX Counter32
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of 1x bytes received, in megabytes"
::= { starRPStatEntry 73 }

starRP1xTxPackets OBJECT-TYPE

SYNTAX Counter32
UNITS "Thousands"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of 1x packets transmitted, in thousands"
::= { starRPStatEntry 74 }

starRP1xRxPackets OBJECT-TYPE

SYNTAX Counter32
UNITS "Thousands"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of 1x packets received, in thousands"
::= { starRPStatEntry 75 }

starRPDoTxBytes OBJECT-TYPE

SYNTAX Counter32
UNITS "Megabytes"

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of Do bytes transmitted, in megabytes"
 ::= { starRPStatEntry 76 }

```

```

starRPDoRxBytes OBJECT-TYPE
SYNTAX Counter32
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of Do bytes received, in megabytes"
 ::= { starRPStatEntry 77 }

```

```

starRPDoTxPackets OBJECT-TYPE
SYNTAX Counter32
UNITS "Thousands"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of Do packets transmitted, in thousands"
 ::= { starRPStatEntry 78 }

```

```

starRPDoRxPackets OBJECT-TYPE
SYNTAX Counter32
UNITS "Thousands"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of Do packets received, in thousands"
 ::= { starRPStatEntry 79 }

```

--Subscriber; these objects are provided for use in SNMP Traps only

```

starentSubscriber OBJECT IDENTIFIER ::= { starentMIBObjects 26 }

```

```

starSubTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarSubEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table containing subscriber information"
 ::= { starentSubscriber 1 }

```

```

starSubEntry OBJECT-TYPE
SYNTAX StarSubEntry

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information for a specific Subscriber"
INDEX { starSubMSID, starSubName }
 ::= { starSubTable 1 }

```

```

StarSubEntry ::=
SEQUENCE {
    starSubContext      DisplayString,
    starSubMSID         OCTET STRING,
    starSubName         OCTET STRING,
    starSubTimerDuration Unsigned32,
    starSubLongDurTimeoutAction INTEGER,
    starSubSetupTime    DateAndTime,
    starSubHomeAddr     IpAddress,
    starSubHomeAddrv6   IpV6Address
}

```

starSubContext OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The context the subscriber is in"
 ::= { starSubEntry 1 }

starSubMSID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..16))
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The MSID of the subscriber"
 ::= { starSubEntry 2 }

starSubName OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..128))
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The name of the subscriber"
 ::= { starSubEntry 3 }

starSubTimerDuration OBJECT-TYPE

SYNTAX Unsigned32
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The length of the long-duration timer in seconds"
 ::= { starSubEntry 4 }

starSubLongDurTimeoutAction OBJECT-TYPE

SYNTAX StarLongDurTimeoutAction
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The action taken by the system upon detection of a long-duration session"
 ::= { starSubEntry 5 }

starSubSetupTime OBJECT-TYPE

SYNTAX DateAndTime
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The time when the call was setup"
 ::= { starSubEntry 6 }

starSubHomeAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The ipv4 home address."
 ::= { starSubEntry 7 }

starSubHomeAddrv6 OBJECT-TYPE

SYNTAX Ipv6Address
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The ipv6 home address."
 ::= { starSubEntry 8 }

-- EIS; these objects are provided for use in SNMP Traps only

starentEISServer OBJECT IDENTIFIER ::= { starentMIBObjects 27 }

starEISServerTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarEISServerEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "A table containing EIS Server information"
 ::= { starentEISServer 1 }

starEISServerEntry OBJECT-TYPE

SYNTAX StarEISServerEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Information for a specific EIS Server"
 INDEX { starEISServerVPNID, starEISServerAddr }
 ::= { starEISServerTable 1 }

StarEISServerEntry ::=

SEQUENCE {
 starEISServerVPNID Gauge32,
 starEISServerAddr IpAddress,
 starEISServerVPNName DisplayString
 }

starEISServerVPNID OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The VPN ID for the EIS Server"
 ::= { starEISServerEntry 1 }

starEISServerAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The IP Address for the EIS Server"
 ::= { starEISServerEntry 2 }

starEISServerVPNName OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The VPN Name for this EIS Server"
 ::= { starEISServerEntry 3 }

-- Threshold; these objects are provided for use in SNMP Traps only

starentThresholds OBJECT IDENTIFIER ::= { starentMIBObjects 28 }

starThreshMeasuredPct OBJECT-TYPE

SYNTAX Gauge32(0..100)
 UNITS "Percent"
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The measured value of a thresholded parameter"
 ::= { starentThresholds 1 }

starThreshPct OBJECT-TYPE

SYNTAX Integer32(0..100)

UNITS "Percent"
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The configured value of a thresholded parameter"
::= { starentThresholds 2 }

starThreshMeasuredInt OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The measured value of a thresholded parameter"
::= { starentThresholds 3 }

starThreshInt OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The configured value of a thresholded parameter"
::= { starentThresholds 4 }

starThreshMeasuredMB OBJECT-TYPE
SYNTAX Gauge32
UNITS "Megabytes"
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The measured value of a thresholded parameter"
::= { starentThresholds 5 }

starThreshMB OBJECT-TYPE
SYNTAX Unsigned32
UNITS "Megabytes"
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The configured value of a thresholded parameter"
::= { starentThresholds 6 }

starThreshMeasuredGB OBJECT-TYPE
SYNTAX Gauge32
UNITS "Gigabytes"
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The measured value of a thresholded parameter"
::= { starentThresholds 7 }

starThreshGB OBJECT-TYPE
SYNTAX Unsigned32
UNITS "Gigabytes"
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The configured value of a thresholded parameter"
::= { starentThresholds 8 }

starThreshPeriodInt OBJECT-TYPE
SYNTAX Integer32(30..600)
UNITS "Seconds"
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The configured value of a thresholded parameter"

```
::= { starentThresholds 9 }
```

starThreshDeviceNum OBJECT-TYPE

SYNTAX Integer32(1..4)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The configured value of a thresholded parameter"

```
::= { starentThresholds 10 }
```

starMMEManagerInst OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Current MMEManager Instance"

```
::= { starentThresholds 11 }
```

starMMEManagerStatus OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Current MMEManager status"

```
::= { starentThresholds 12 }
```

starentPort OBJECT IDENTIFIER ::= { starentMIBObjects 29 }

starPortTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarPortEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing Port information"

```
::= { starentPort 1 }
```

starPortEntry OBJECT-TYPE

SYNTAX StarPortEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information for a specific Port"

INDEX { starPortSlot, starPortNum }

```
::= { starPortTable 1 }
```

StarPortEntry ::=

SEQUENCE {

starPortSlot Integer32,

starPortNum Integer32,

starPortType INTEGER,

starPortTypeDescr DisplayString,

starPortAdminState INTEGER,

starPortOperState INTEGER,

starPortOperMode INTEGER,

starPortLinkState INTEGER,

starRedundantPortSlot Integer32,

starRedundantPortNum Integer32,

starPortRxBytes Counter32,

starPortTxBytes Counter32,

starPortRxFrames Counter32,

starPortTxFrames Counter32,

starPortRxDiscards Counter32,

starPortTxDiscards Counter32,

starPortRxErrors Counter32,

starPortTxErrors Counter32

}

starPortSlot OBJECT-TYPE

SYNTAX Integer32(1..48)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The Slot number for this port"
 ::= { starPortEntry 1 }

starPortNum OBJECT-TYPE

SYNTAX Integer32(1..29)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The Port number within this slot"
 ::= { starPortEntry 2 }

starPortType OBJECT-TYPE

SYNTAX INTEGER {
 none(0),
 ethernet10100(1),
 ethernet1000dualmedia(2),
 ethernet1000(3),
 ds3(4),
 oc3atm(5),
 oc12atm(6),
 ds3e(7),
 rs232(8),
 bitst1e1(9),
 virtualethernet(10),
 ether10g(11),
 ether100g(12)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 ""
 ::= { starPortEntry 3 }

starPortTypeDescr OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "A textual representing of the starPortType attribute"
 ::= { starPortEntry 4 }

starPortAdminState OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 enabled(1),
 disabled(2)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The administrative start of the port"
 ::= { starPortEntry 5 }

starPortOperState OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 up(1),
 down(2),
 notapplicable(3)
 }

```

    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { starPortEntry 6 }

```

```

starPortOperMode OBJECT-TYPE
    SYNTAX INTEGER {
        unknown(0),
        active(1),
        standby(2)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { starPortEntry 7 }

```

```

starPortLinkState OBJECT-TYPE
    SYNTAX INTEGER {
        unknown(0),
        up(1),
        down(2)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        " "
    ::= { starPortEntry 8 }

```

```

starRedundantPortSlot OBJECT-TYPE
    SYNTAX Integer32(0..48)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The Slot number for the port the current port is redundant with, or 0 if unknown"
    ::= { starPortEntry 9 }

```

```

starRedundantPortNum OBJECT-TYPE
    SYNTAX Integer32(0..29)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The Port number for the port the current port is redundant with, or 0 if unknown"
    ::= { starPortEntry 10 }

```

```

starPortRxBytes OBJECT-TYPE
    SYNTAX Counter32
    UNITS "Megabytes"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of bytes successfully received, in megabytes.
        For ports of type rs232(8) or bitst1e1(9) this value will always be zero."
    ::= { starPortEntry 11 }

```

```

starPortTxBytes OBJECT-TYPE
    SYNTAX Counter32
    UNITS "Megabytes"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of bytes successfully transmitted, in megabytes.
        For ports of type rs232(8) or bitst1e1(9) this value will always be zero."
    ::= { starPortEntry 12 }

```

starPortRxFrames OBJECT-TYPE

SYNTAX Counter32

UNITS "Thousands"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of frames successfully received, in thousands.

For ports of type rs232(8) or bitst1e1(9) this value will always be zero.

For ports of type oc3atm(5) and oc12atm(6) this is the count of cells received"

::= { starPortEntry 13 }

starPortTxFrames OBJECT-TYPE

SYNTAX Counter32

UNITS "Thousands"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of frames successfully transmitted, in thousands.

For ports of type rs232(8) or bitst1e1(9) this value will always be zero.

For ports of type oc3atm(5) and oc12atm(6) this is the count of cells received"

::= { starPortEntry 14 }

starPortRxDiscards OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space. "

::= { starPortEntry 15 }

starPortTxDiscards OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space."

::= { starPortEntry 16 }

starPortRxErrors OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol."

::= { starPortEntry 17 }

starPortTxErrors OBJECT-TYPE

SYNTAX Counter32

UNITS "Thousands"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of outbound packets that could not be transmitted because of errors."

::= { starPortEntry 18 }

starentIPPool OBJECT IDENTIFIER ::= { starentMIBObjects 30 }

starIPPoolTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarIPPoolEntry

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table containing IP Pool information"
 ::= { starentIPPool 1 }

```

```

starIPPoolEntry OBJECT-TYPE
SYNTAX StarIPPoolEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information for a specific IP Pool"
INDEX { IMPLIED starIPPoolID }
 ::= { starIPPoolTable 1 }

```

```

StarIPPoolEntry ::=
SEQUENCE {
    starIPPoolVpnID Gauge32,
    starIPPoolID StarMediumID,
    starIPPoolContext DisplayString,
    starIPPoolGroup DisplayString,
    starIPPoolName OCTET STRING,
    starIPPoolType INTEGER,
    starIPPoolState INTEGER,
    starIPPoolStartAddr IpAddress,
    starIPPoolMaskorEndAddr IpAddress,
    starIPPoolPriority Integer32,
    starIPPoolUsed Gauge32,
    starIPPoolHold Gauge32,
    starIPPoolRelease Gauge32,
    starIPPoolFree Gauge32
}

```

```

starIPPoolVpnID OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The context ID for this pool"
 ::= { starIPPoolEntry 1 }

```

```

starIPPoolID OBJECT-TYPE
SYNTAX StarMediumID
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The service identification is made up from first 8 chars of context name
    and the pool name (max 32 chars ) separated by (:)"
 ::= { starIPPoolEntry 2 }

```

```

starIPPoolContext OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The context name string for this pool"
 ::= { starIPPoolEntry 3 }

```

```

starIPPoolGroup OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name of the group to which the IP pool belongs"
 ::= { starIPPoolEntry 4 }

```

starIPPoolName OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the IP pool"

::= { starIPPoolEntry 5 }

starIPPoolType OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

private(1),

public(2),

static(3),

resource(4),

nat(5)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of the pool"

::= { starIPPoolEntry 6 }

starIPPoolState OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

good(1),

pendingdelete(2),

alarm(3),

resize(4),

inactive(5)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of the pool"

::= { starIPPoolEntry 7 }

starIPPoolStartAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The start IP address of the pool"

::= { starIPPoolEntry 8 }

starIPPoolMaskorEndAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The mask or end IP address of the pool"

::= { starIPPoolEntry 9 }

starIPPoolPriority OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The priority of the pool"

::= { starIPPoolEntry 10 }

starIPPoolUsed OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of IP addresses in USED state in the pool"
 ::= { starIPPoolEntry 11 }

starIPPoolHold OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of IP addresses in HOLD state in the pool"
 ::= { starIPPoolEntry 12 }

starIPPoolRelease OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of IP addresses in RELEASE state in the pool"
 ::= { starIPPoolEntry 13 }

starIPPoolFree OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of IP addresses in FREE state in the pool"
 ::= { starIPPoolEntry 14 }

starentIPPoolGroup OBJECT IDENTIFIER ::= { starentMIBObjects 64 }

starIPPoolGroupTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarIPPoolGroupEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing IP Pool Group information"
 ::= { starentIPPoolGroup 1 }

starIPPoolGroupEntry OBJECT-TYPE

SYNTAX StarIPPoolGroupEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information for a specific IP Pool Group"
 INDEX { IMPLIED starIPPoolGroupID }
 ::= { starIPPoolGroupTable 1 }

StarIPPoolGroupEntry ::=

SEQUENCE {

```

starIPPoolGroupVpnID Gauge32,
starIPPoolGroupID StarMediumID,
starIPPoolGroupName DisplayString,
starIPPoolGroupVpnName DisplayString,
starIPPoolGroupUsed Gauge32,
starIPPoolGroupHold Gauge32,
starIPPoolGroupRelease Gauge32,
starIPPoolGroupFree Gauge32,
starIPPoolGroupPctUsed Integer32,
starIPPoolGroupAvail Gauge32

```

}

starIPPoolGroupVpnID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The context ID for this pool group"
 ::= { starIPPoolGroupEntry 1 }

starIPPoolGroupID OBJECT-TYPE
SYNTAX StarMediumID
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The service identification is made up from first 8 chars of context name
 and first 16 chars of pool group name separated by (:)"
 ::= { starIPPoolGroupEntry 2 }

starIPPoolGroupName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The name of the IP pool group"
 ::= { starIPPoolGroupEntry 3 }

starIPPoolGroupVpnName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The context name string for this pool group"
 ::= { starIPPoolGroupEntry 4 }

starIPPoolGroupUsed OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of IP addresses in USED state in the pool group"
 ::= { starIPPoolGroupEntry 5 }

starIPPoolGroupHold OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of IP addresses in HOLD state in the pool group"
 ::= { starIPPoolGroupEntry 6 }

starIPPoolGroupRelease OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of IP addresses in RELEASE state in the pool group"
 ::= { starIPPoolGroupEntry 7 }

starIPPoolGroupFree OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of IP addresses in FREE state in the pool group"
 ::= { starIPPoolGroupEntry 8 }

starIPPoolGroupPctUsed OBJECT-TYPE
SYNTAX Integer32(0..10000)
UNITS "percentage times 100"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The percentage of IP addresses in USED state in the pool group is the percentage value times 100; for example, 2.3% would be represented as 230"

::= { starIPPoolGroupEntry 9 }

starIPPoolGroupAvail OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of IP addresses in AVAILABLE state in the pool group"

::= { starIPPoolGroupEntry 10 }

-- Objects used only in traps

starentTrapData OBJECT IDENTIFIER ::= { starentMIBObjects 31 }

starCongestionPolicy OBJECT-TYPE

SYNTAX INTEGER {

reject(1),

redirect(2),

drop(3)

}

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The policy invoked for congestion events"

::= { starentTrapData 1 }

starCongestionResourceType OBJECT-TYPE

SYNTAX INTEGER {

systemcpu(1),

servicecpu(2),

averagememory(3),

queuesize(4),

queuedelay(5),

license(6),

portutil(7),

rxportutil(8),

txportutil(9),

rxperportutil(10),

txperportutil(11),

servicecapacity(12)

}

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The resource type for a congestion event"

::= { starentTrapData 2 }

starPTACConfig OBJECT-TYPE

SYNTAX Integer32(0..14)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The number of PACs/PSCs//TACs configured in the system"

::= { starentTrapData 3 }

starPTACActive OBJECT-TYPE

SYNTAX Integer32(0..14)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The number of PACs/PSCs/TACs active in the system"

::= { starentTrapData 4 }

starContextName OBJECT-TYPE

```
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The name of a context configured on the IMG"
 ::= { starentTrapData 5 }
```

```
starInterfaceName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The name of an interface"
 ::= { starentTrapData 6 }
```

```
starPCFAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The IP address of a PCF"
 ::= { starentTrapData 7 }
```

```
starPeerAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Peer Address"
 ::= { starentTrapData 8 }
```

-- License traps

```
starLicensedSessions OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The number of sessions enabled by the software license"
 ::= { starentTrapData 9 }
```

```
starCurrentSessions OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The number of current sessions in use against a software license"
 ::= { starentTrapData 10 }
```

```
starL3Address OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "L3 Address"
 ::= { starentTrapData 11 }
```

```
starUDPPortNum OBJECT-TYPE
SYNTAX Integer32(1..65535)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "UDP Port Number"
 ::= { starentTrapData 12 }
```

```
starSRPIpAddress OBJECT-TYPE
```

SYNTAX InetAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"SRP IP Address"
::= { starentTrapData 13 }

starBGPPEerIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"BGP Peer IP Address"
::= { starentTrapData 14 }

starContFiltCFFilename OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"File name for the OPTCMDB"
::= { starentTrapData 15 }

starContFiltCFErrorCode OBJECT-TYPE
SYNTAX INTEGER {
 unknownerror(1),
 notavailable(2),
 loadfailure(3)
}
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Error code"
::= { starentTrapData 16 }

starFetchedFromAAAMgr OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number calls fetched from aaa mgr"
::= { starentTrapData 17 }

starPriorToAudit OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number calls prior to audit"
::= { starentTrapData 18 }

starPassedAudits OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number of calls passed audit"
::= { starentTrapData 19 }

starCallsRecovered OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number of calls recovered"
::= { starentTrapData 20 }

starAllCallLines OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number of a11 call lines"
::= { starentTrapData 21 }

starElapsedMs OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The audit time elapsed in ms"
::= { starentTrapData 22 }

starCDRFilename OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The name of a CDR (EDR/UDR) file"
::= { starentTrapData 23 }

-- Diameter

starDiameterVpnName OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Diameter VPN (Context) Name"
::= { starentTrapData 24 }

starDiameterPeerAddr OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Diameter Peer Address"
::= { starentTrapData 25 }

starDiameterEndpointName OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Diameter Endpoint Name"
::= { starentTrapData 26 }

starDiameterPeerAddrIpv6 OBJECT-TYPE

SYNTAX Ipv6Address
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Diameter Peer Address"
::= { starentTrapData 34 }

starInterfaceIPAddress OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Interface IP Address"
::= { starentTrapData 27 }

starOSPFNeighborRouterID OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Interface IP Address"
 ::= { starentTrapData 28 }

starOSPFFromState OBJECT-TYPE

SYNTAX StarOSPFNeighborState
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "FROM state for OSPF Neighbor"
 ::= { starentTrapData 29 }

starOSPFToState OBJECT-TYPE

SYNTAX StarOSPFNeighborState
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "TO state for OSPF Neighbor"
 ::= { starentTrapData 30 }

starBLFilename OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "File name for the OPTBLDB"
 ::= { starentTrapData 31 }

starBLErrorCode OBJECT-TYPE

SYNTAX INTEGER {
 unknownerror(1),
 notavailable(2),
 loadfailure(3)
 }
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Error code"
 ::= { starentTrapData 32 }

starDiameterECode OBJECT-TYPE

SYNTAX INTEGER {
 notcomplete(1),
 hostnamemismatch(2),
 hostrealmmismatch(3),
 securitymismatch(4),
 tlscertificateerror(5),
 tlshandshakeerror(6),
 authappidmismatch(7)
 }
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Diameter Cause Code"
 ::= { starentTrapData 33 }

starContFiltCFUpgradeFilename OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current

DESCRIPTION

"File name for the Full or Incremental OPTCMDB"

::= { starentTrapData 35 }

starContFiltCFUpgradeErrorCode OBJECT-TYPE

```
SYNTAX  INTEGER {
    unknownerror(1),
    upgradefullfailure(2),
    upgradeincrfailure(3)
}
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Error code"

::= { starentTrapData 36 }

starBLUpgradeFilename OBJECT-TYPE

```
SYNTAX  DisplayString
MAX-ACCESS accessible-for-notify
STATUS  current
DESCRIPTION
```

"File name for the Full OPTBLDB"

::= { starentTrapData 37 }

starBLUpgradeErrorCode OBJECT-TYPE

```
SYNTAX  INTEGER {
    unknownerror(1),
    upgradefullfailure(2)
}
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Error code"

::= { starentTrapData 38 }

starDynPkgFilename OBJECT-TYPE

```
SYNTAX  DisplayString
MAX-ACCESS accessible-for-notify
STATUS  current
DESCRIPTION
```

"File name for the DynPkg"

::= { starentTrapData 39 }

starDynCFErrorCode OBJECT-TYPE

```
SYNTAX  INTEGER {
    unknownerror(1),
    notavailable(2),
    loadfailure(3)
}
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Error code"

::= { starentTrapData 40 }

starDynPkgUpgradeFilename OBJECT-TYPE

```
SYNTAX  DisplayString
MAX-ACCESS accessible-for-notify
STATUS  current
DESCRIPTION
```

"File name for the Full DynPkg"

::= { starentTrapData 41 }

starDynCFUpgradeErrorCode OBJECT-TYPE

```
SYNTAX  INTEGER {
    unknownerror(1),
    upgradefullfailure(2)
}
```

```
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
"Error code"
::= { starentTrapData 42 }
```

starCscfSessCongestionResourceType OBJECT-TYPE

```
SYNTAX  INTEGER {
    cpu(1),
    memory(2)
}
```

```
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
"Cscf Session resource type for a congestion event"
::= { starentTrapData 43 }
```

starSmgrId OBJECT-TYPE

```
SYNTAX  Integer32(1..255)
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
```

"Session Manager Instance ID"

```
::= { starentTrapData 44 }
```

-- EGTP traps

starEGTPVpnName OBJECT-TYPE

```
SYNTAX  DisplayString
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
```

"The name of this VPN (context)"

```
::= { starentTrapData 45 }
```

starEGTPServName OBJECT-TYPE

```
SYNTAX  DisplayString
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
```

"The name of this service"

```
::= { starentTrapData 46 }
```

starEGTPInterfaceType OBJECT-TYPE

```
SYNTAX  INTEGER {
    invalid(0),
    sgwingress(1),
    sgwegress(2),
    pgwingress(3),
    sgsn(4)
}
```

```
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
```

"Egtp interface type"

```
::= { starentTrapData 47 }
```

starEGTPSelfPort OBJECT-TYPE

```
SYNTAX  Gauge32
MAX-ACCESS  accessible-for-notify
STATUS      current
```


DESCRIPTION

"The Port number of the EGTP"

::= { starentTrapData 48 }

starEGTPSelfAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The IP Address of the EGTP"

::= { starentTrapData 49 }

starEGTPPeerPort OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The Port number of the PeerNode"

::= { starentTrapData 50 }

starEGTPPeerAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The IP Address of the PeerNode"

::= { starentTrapData 51 }

starEGTPPeerOldRstCnt OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"EGTP peer old restart counter"

::= { starentTrapData 52 }

starEGTPPeerNewRstCnt OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"EGTP peer new restart counter"

::= { starentTrapData 53 }

starEGTPPeerSessCnt OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"EGTP peer session count"

::= { starentTrapData 54 }

starEGTPFailureReason OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 restartcounterchange(1),
 noresponsefrompeer(2)
 }

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Egtp path failure reason"

::= { starentTrapData 55 }

starGSSCDRLossConfigured OBJECT-TYPE

SYNTAX Unsigned32

```
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The configured value of threshold CDR Loss at GSS"
::= { starentTrapData 56 }
```

```
starGSSCDRLossMeasured OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The Measured value of CDR Loss at GSS"
::= { starentTrapData 57 }
```

```
starLicenseKey OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The license key"
::= { starentTrapData 58 }
```

```
starLicenseExpiryDate OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The license expiration date/time"
::= { starentTrapData 59 }
```

```
starLicenseDaysRemaining OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number of days remaining before the license expires"
::= { starentTrapData 60 }
```

```
starLicenseDaysAfterExpiry OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The number of days after the license has expired"
::= { starentTrapData 61 }
```

```
starNPUSlot OBJECT-TYPE
SYNTAX Integer32(1..48)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The NPU slot number"
::= { starentTrapData 62 }
```

```
starSPRServerIpAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The IP Address of the SSC Server"
::= { starentTrapData 63 }
```

-- MVG objects,used for traps only

```
starMVGEndpointName OBJECT-TYPE
SYNTAX DisplayString
```

```
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "MVG Endpoint Name"
 ::= { starentTrapData 66 }
```

```
starMVGCauseCode OBJECT-TYPE
SYNTAX INTEGER {
    servernotreachable(1),
    servicereachable(2)
}
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "MVG Cause Code"
 ::= { starentTrapData 69 }
```

```
starMVGProtocolType OBJECT-TYPE
SYNTAX INTEGER {
    protocolhttp(1),
    protocoltcp(2),
    protocolicmp(3)
}
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "MVG Protocol Types"
 ::= { starentTrapData 68 }
```

```
starPCCNtfyIntfPeerName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    " IPCF Event Notification Interface Peer Name "
 ::= { starentTrapData 73 }
```

```
starECSTotalDNSLearntIPThresholdInstance OBJECT-TYPE
SYNTAX Integer32(1..65535)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    " ACSMgr Instance Id"
 ::= { starentTrapData 74 }
```

```
starECSTotalDNSLearntIPThresholdconfigured OBJECT-TYPE
SYNTAX Integer32 (1..100)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    " Configured Threshold value in Percentage"
 ::= { starentTrapData 75 }
```

```
starECSTotalDNSLearntIPThresholdmeasured OBJECT-TYPE
SYNTAX Integer32 (1..100)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    " Measured value in Percentage"
 ::= { starentTrapData 76 }
```

```
starPeerAddressIpv6 OBJECT-TYPE
SYNTAX Ipv6Address
MAX-ACCESS accessible-for-notify
STATUS current
```

DESCRIPTION

"Peer Ipv6 Address"

::= { starentTrapData 77 }

starLAGPartner OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of this service"

::= { starentTrapData 78 }

starSGSServiceVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SGS service context name"

::= { starentTrapData 79 }

starSGSServiceServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SGS service name"

::= { starentTrapData 80 }

starVLRName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"VLR name"

::= { starentTrapData 81 }

starVLRIpAddr1 OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"VLR IP Address1"

::= { starentTrapData 82 }

starVLRIpAddr2 OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"VLR IP Address2"

::= { starentTrapData 83 }

starVLRPortNum OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"VLR Port Number"

::= { starentTrapData 84 }

starCongestionType OBJECT-TYPE

SYNTAX INTEGER {

critical(1),

major(2),

minor(3)

}

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The type congestion threshold hit"

::= { starentTrapData 85 }

starCongestionActionProfileName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of a action profile associated with the threshold type"

::= { starentTrapData 86 }

starSessMgrFlowInstId OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Session Manager instance ID"

::= { starentTrapData 87 }

starSessMgrFlowPDNNo OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Tota PDNs Available"

::= { starentTrapData 88 }

starSessMgrFlowMemUsage OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Totat Memory Usage of this instance"

::= { starentTrapData 89 }

starSessMgrFlowCounter OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Session Manager Active Flows"

::= { starentTrapData 90 }

starSessMgrTotalFlowCount OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Session Manager Active Flows"

::= { starentTrapData 91 }

starHENBGWServiceVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"HENBGW Service VPN Name"

::= { starentTrapData 92 }

starHENBGWServiceServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current
DESCRIPTION
"HENBGW Service Name"
::= { starentTrapData 93 }

starHENBGWServiceLogicalENBId OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"HENBGW Service Logical Enodb ID"
::= { starentTrapData 94 }

starHENBGWServiceMMEServName OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"HENBGW Service MME Name"
::= { starentTrapData 95 }

starHENBGWServiceSelfAddr OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"HENBGW Service Self IP Address"
::= { starentTrapData 96 }

starHENBGWServicePeerAddr OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"HENBGW Service Peer IP Address"
::= { starentTrapData 97 }

starHENBGWServiceSelfPort OBJECT-TYPE

SYNTAX Integer32(1..65535)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"HENBGW Service Self Port Number"
::= { starentTrapData 98 }

starHENBGWServicePeerPort OBJECT-TYPE

SYNTAX Integer32(1..65535)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"HENBGW Service Peer Port Number"
::= { starentTrapData 99 }

starNPUSlotNumber OBJECT-TYPE

SYNTAX Integer32(1..65535)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"NPU Slot Number"
::= { starentTrapData 100 }

starNPUCPUNumber OBJECT-TYPE

SYNTAX Integer32(1..65535)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION

```
"NPU CPU Number"
 ::= { starentTrapData 101 }

starNPUNPUNumber OBJECT-TYPE
 SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "NPU's NPU Number"
 ::= { starentTrapData 102 }

starChassisCrashList OBJECT-TYPE
 SYNTAX TruthValue
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Chassis Crash List Full"
 ::= { starentTrapData 103 }

starLIRcvryErrType OBJECT-TYPE
 SYNTAX INTEGER {
 syncerror(0),
 readerror(1),
 writeerror(2),
 integrityerror(3)
 }
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "LI Recovery Error Types"
 ::= { starentTrapData 104 }

starLIRcvryErrString OBJECT-TYPE
 SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "LI Recovery Error String"
 ::= { starentTrapData 105 }

-- PMIP

starPMIPVpnName OBJECT-TYPE
 SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The name of this VPN (context)"
 ::= { starentTrapData 106 }

starPMIPServName OBJECT-TYPE
 SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The name of this service"
 ::= { starentTrapData 107 }

starPMIPSelfAddrType OBJECT-TYPE
 SYNTAX InetAddressType
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "The IP Address of the PMIP"
 ::= { starentTrapData 108 }
```

```

starPMIPSelfAddr OBJECT-TYPE
    SYNTAX  InetAddress
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "The IP Address of the PMIP"
    ::= { starentTrapData 109 }

starPMIPPeerAddrType OBJECT-TYPE
    SYNTAX  InetAddressType
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "The IP Address of the PMIP"
    ::= { starentTrapData 110 }

starPMIPPeerAddr OBJECT-TYPE
    SYNTAX  InetAddress
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "The IP Address of the PMIP"
    ::= { starentTrapData 111 }

starPMIPPeerOldRstCnt OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "PMIP peer old restart counter"
    ::= { starentTrapData 112 }

starPMIPPeerNewRstCnt OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "PMIP peer new restart counter"
    ::= { starentTrapData 113 }

starPMIPPeerSessCnt OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "PMIP peer session count"
    ::= { starentTrapData 114 }

starPMIPFailureReason OBJECT-TYPE
    SYNTAX  INTEGER {
        unknown(0),
        heartbeatsprestartchange(1),
        noresponsefrompeer(2)
    }
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION
        "PMIP path failure reason"
    ::= { starentTrapData 115 }

starMMEInitialDisallowReason OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS accessible-for-notify
    STATUS   current
    DESCRIPTION

```


"MME initial connection disallow reason."

::= { starentTrapData 116 }

starSLSServiceVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SLS service context name"

::= { starentTrapData 117 }

starSLSServiceServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SLS service name"

::= { starentTrapData 118 }

starESMLCId OBJECT-TYPE

SYNTAX Integer32(0..255)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"ESMLC Id"

::= { starentTrapData 119 }

starESMLCpAddr1 OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"ESMLC IP Address1"

::= { starentTrapData 120 }

starESMLCpAddr2 OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"ESMLC IP Address2"

::= { starentTrapData 121 }

starESMLCPortNum OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"ESMLC Port Number"

::= { starentTrapData 122 }

starSBCServiceVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SBc service context name"

::= { starentTrapData 123 }

starSBCServiceServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SBc service name"

::= { starentTrapData 124 }

starPeerId OBJECT-TYPE

SYNTAX Integer32(0..255)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Peer Id"
 ::= { starentTrapData 125 }

starPeerIpAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Peer IP Address"
 ::= { starentTrapData 126 }

starPeerPortNum OBJECT-TYPE

SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Peer Port Number"
 ::= { starentTrapData 127 }

starBfdSrcAddressType OBJECT-TYPE

SYNTAX InetAddressType
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "This object specifies IP address type of the source IP address of this BFD session. Only values unknown(0), ipv4(1), ipv6(2), or ipv6z(4) have to be supported. The value of unknown(0) is allowed only when the session is singleHop(1) and the source IP address of this BFD session is derived from the outgoing interface, or when the BFD session is not associated with a specific interface."
 ::= { starentTrapData 128 }

starBfdSrcAddress OBJECT-TYPE

SYNTAX InetAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "This object specifies the source IP address of this BFD session."
 ::= { starentTrapData 129 }

starBfdDstAddressType OBJECT-TYPE

SYNTAX InetAddressType
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "This object specifies IP address type of the neighboring IP address which is being monitored with this BFD session. Only values unknown(0), ipv4(1), ipv6(2), or ipv6z(4) have to be supported. The value of unknown(0) is allowed only when the session is singleHop(1) and the outgoing interface is of type point-to-point, or when the BFD session is not associated with a specific interface."
 ::= { starentTrapData 130 }

starBfdDstAddress OBJECT-TYPE

SYNTAX InetAddress
 MAX-ACCESS accessible-for-notify

```

STATUS    current
DESCRIPTION
    "This object specifies the neighboring IP address which is
    being monitored with this BFD session."
 ::= { starentTrapData 131 }

```

```

starBfdLocalDisc OBJECT-TYPE
SYNTAX    Unsigned32
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "This object specifies the local discriminator for this BFD
    session, used to uniquely identify it"
 ::= { starentTrapData 132 }

```

```

starBfdRemDisc OBJECT-TYPE
SYNTAX    Unsigned32
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "This object specifies the session discriminator chosen
    by the remote system for this BFD session. The value may
    be zero(0) if the remote discriminator is not yet known
    or if the session is in the down or adminDown(1) state."
 ::= { starentTrapData 133 }

```

```

starBfdSessDiagCode OBJECT-TYPE
SYNTAX    INTEGER {
    noDiagnostic(0),
    controlDetectionTimeExpired(1),
    echoFunctionFailed(2),
    neighborSignaledSessionDown(3),
    forwardingPlaneReset(4),
    pathDown(5),
    concatenatedPathDown(6),
    administrativelyDown(7),
    reverseConcatenatedPathDown(8),
    misConnectivityDefect(9)
}
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "A diagnostic code specifying the local system's reason
    for the last transition of the session from up(4)
    to some other state."
 ::= { starentTrapData 134 }

```

```

starSRPSwitchReason OBJECT-TYPE
SYNTAX    INTEGER {
    notDefined(0),
    aaaFailure(1),
    bgpFailure(2),
    bfdFailure(3),
    diameterFailure(4),
    hsrpSwitchover(5),
    chassisChassisBfdFailure(6),
    dualActive(7),
    dualStandby(8),
    deadTimerExpiry(9),
    forceStateChange(10),
    manualSwitchOver(11),
    egqcFailure(12)
}
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION

```

"A Switchover code specifying the SRP's Switchover reason.
 The following reasons would appear when chassis transitioning
 from Active to Standby State:
 notDefined(0),
 aaaFailure(1),
 bgpFailure(2),
 bfdFailure(3),
 diameterFailure(4),
 hsrpSwitchover(5),
 dualActive(7)
 manualSwitchOver(11),
 egqcFailure(12),
 The following reasons would appear when chassis transitioning
 from Standby to Pending Active State:
 notDefined(0),
 chassisChassisBfdFailure(6),
 deadTimerExpiry(9)
 "
 ::= { starentTrapData 135 }

starHENBGWServiceTLRI OBJECT-TYPE
 SYNTAX Unsigned32
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "HENBGW Service Overload Traffic load reduction indication percentage."
 ::= { starentTrapData 136 }

-- CBS START

starCBSServiceVpnName OBJECT-TYPE
 SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "CBS service context name"
 ::= { starentTrapData 139 }

starluBcSelfPortNum OBJECT-TYPE
 SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "luBc Self Port Number"
 ::= { starentTrapData 140 }

starluBcSelfIpAddr OBJECT-TYPE
 SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "luBc Self IP Address"
 ::= { starentTrapData 141 }

starluBcPeerPortNum OBJECT-TYPE
 SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Peer Port Number"
 ::= { starentTrapData 142 }

starIuBcPeerIpAddr OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"IuBc Peer IP Address"
 ::= { starentTrapData 143 }

starIuBcTcpConnCauseStr OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"IuBc Tcp Conn Cause Str"
 ::= { starentTrapData 144 }

starPhyPortId OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Physical Port Id as IfIndex"
 ::= { starentTrapData 145 }

starGTPCRLFSSessMgrInst OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Session Manager Instance"
 ::= { starentTrapData 146 }

starGTPCRLFVPNName OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The context name of VPN is "
 ::= { starentTrapData 147 }

starGTPCRLFVPNId OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The context Id of VPN is "
 ::= { starentTrapData 148 }

starGTPCRLFContextName OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The name of Context is "
 ::= { starentTrapData 149 }

starGTPCRLFcurrAppTPS OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The current applied TPS value is "
 ::= { starentTrapData 150 }

starGTPCRLFcurrAppDelayTol OBJECT-TYPE

```
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The current applied delay Tolerance value is "
::= { starentTrapData 151 }
```

```
starBGPPeerIpv6Address OBJECT-TYPE
SYNTAX Ipv6Address
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Diameter Peer Address in IPv6"
::= { starentTrapData 152 }
```

-- CBS END

-- MME-EMBMS START

```
starMMEEMBMSServiceVpnName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"MME-EMBMS service context name"
::= { starentTrapData 153 }
```

```
starMMEEMBMSServiceServName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"MME-EMBMS service name"
::= { starentTrapData 154 }
```

```
starMMEEMBMSPeerId OBJECT-TYPE
SYNTAX Integer32(0..255)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Peer Id"
::= { starentTrapData 155 }
```

```
starMMEEMBMSPeerIpAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Peer IP Address"
::= { starentTrapData 156 }
```

```
starMMEEMBMSPeerPortNum OBJECT-TYPE
SYNTAX Integer32(1..65535)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Peer Port Number"
::= { starentTrapData 157 }
```

```
starImSimgrInstId OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"IMSI Manager Instance"
::= { starentTrapData 158 }
```

```
starLAGGroup OBJECT-TYPE
  SYNTAX Integer32(1..29)
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "The group number of the LAG group"
  ::= { starentTrapData 159 }

starLAGMinlink OBJECT-TYPE
  SYNTAX Integer32(1..29)
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "The Minlink configured for this lag_group"
  ::= { starentTrapData 160 }

starVRFName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "VRF Name"
  ::= { starentTrapData 161 }

starStatFilesizeLimit OBJECT-TYPE
  SYNTAX Integer32(1..29)
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "The Stat File Size in integer"
  ::= { starentTrapData 162 }

starStatFilesizeMeasured OBJECT-TYPE
  SYNTAX Integer32(1..29)
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "The Stat file Size measured"
  ::= { starentTrapData 163 }

starTetheringDatabasePreDBVersion OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "Tethering Database Pre-DB Version"
  ::= { starentTrapData 164 }

starTetheringDatabaseUpgradeDBVersion OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "Tethering Database Upgrade DB Version"
  ::= { starentTrapData 165 }

starTetheringDatabaseUpgradeComment OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "Tethering Database Upgrade Comment String"
  ::= { starentTrapData 166 }

starDiscReasons OBJECT-TYPE
  SYNTAX OCTET STRING (SIZE (1..512))
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Disconnect Reasons"

::= { starentTrapData 167 }

starDdfDev OBJECT-TYPE

SYNTAX INTEGER {

ddf0(0),

ddf1(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies DDF Engine number that was reloaded"

::= { starentTrapData 168 }

starHdRaidMgmtCardSwitchoverCause OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

stuck(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Management Card Switchover due to HD Raid irrecoverable error cause"

::= { starentTrapData 169 }

starDiameterPeerName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter Peer Name"

::= { starentTrapData 170 }

starDiameterRlfContext OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"RLF Context Name"

::= { starentTrapData 171 }

starDiameterRlfECode OBJECT-TYPE

SYNTAX INTEGER {

thresholdgood(0),

thresholdover(1),

overlimiterror(2)

}

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter Rlf Status Code"

::= { starentTrapData 172 }

starDiameterRlfTps OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter RLF Configured TPS"

::= { starentTrapData 173 }

starDiameterRlfDelayTolerance OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter RLF Configured Delay Tolerance"

::= { starentTrapData 174 }

starDiameterRlfQueuePercent OBJECT-TYPE

SYNTAX Integer32(0..100)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter RLF Current Queue Percentage"

::= { starentTrapData 175 }

starDiameterDiamproxyInstance OBJECT-TYPE

SYNTAX Integer32(1..144)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter Proxy Instance Number"

::= { starentTrapData 176 }

starSmartLicenseServiceUsage OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Smart License Service usage count"

::= { starentTrapData 177 }

starSmartLicenseServiceName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Smart License Service name"

::= { starentTrapData 178 }

starSmartLicenseEvalModeRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Renaming number of days the device can be used in Evaluation Mode"

::= { starentTrapData 179 }

starRuleBaseName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Rulebase Name"

::= { starentTrapData 180 }

starRuleDefName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Ruledef/GroupOfRuledef Name"

::= { starentTrapData 181 }

starGroupOfRuledef OBJECT-TYPE

SYNTAX INTEGER {
ruleDef(0),

```

        groupOfRuledef(1)
    }
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "GroupOfRuledef flag"
 ::= { starentTrapData 182 }

starIkev2DDoSUDPFailClearStr OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Clear string for IKEv2 DDoS UDP Fail clear alarm"
 ::= { starentTrapData 183 }

starMacaddress OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Mac Address for NicBondChange trap"
 ::= { starentTrapData 184 }

starP2PPluginVersion OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "P2P Plugin Version for ADC license"
 ::= { starentTrapData 185 }

starADCLicenseExpiryDate OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The license expiration date/time"
 ::= { starentTrapData 186 }

starSxInterfaceType OBJECT-TYPE
SYNTAX INTEGER {
    invalid(0),
    sxa(1),
    sxb(2),
    sxab(3)
}
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Sx interface type"
 ::= { starentTrapData 187 }

starSxSelfAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The IP Address of the Sx Service"
 ::= { starentTrapData 188 }

starSxPeerAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION

```

"The IP Address of the Sx Peer Node"

::= { starentTrapData 189 }

starSxPeerNewRecTimeStamp OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The New Recovery timestamp of the Peer"

::= { starentTrapData 190 }

starSxPeerOldRecTimeStamp OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The Old Recovery timestamp of the Peer"

::= { starentTrapData 191 }

starSxFailureCause OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

no-response-from-peer(1),

recovery-timestamp-change-in-heartbeat-req-msg(2),

recovery-timestamp-change-in-heartbeat-rsp-msg(3),

recovery-timestamp-change-in-control-msg(4),

heartbeat-rsp-received(5),

heartbeat-req-received(6),

sx-association-established(7),

bfd-failure(8)

}

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Sx Path failure cause"

::= { starentTrapData 192 }

starChassisThroughputLimit OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The committed chassis throughput"

::= { starentTrapData 193 }

starChassisThroughputMeasured OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The served chassis throughput"

::= { starentTrapData 194 }

starSmartLicenseFeatureUsage OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Smart License Feature usage count"

::= { starentTrapData 195 }

starSmartLicenseFeatureName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

```
"Smart License Feature name"  
 ::= { starentTrapData 196 }
```

starCommonDatabasePreDBVersion OBJECT-TYPE

```
SYNTAX DisplayString  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "Common Database Pre-DB Version"  
 ::= { starentTrapData 197 }
```

starCommonDatabaseUpgradeDBVersion OBJECT-TYPE

```
SYNTAX DisplayString  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "Common Database Upgrade DB Version"  
 ::= { starentTrapData 198 }
```

starCommonDatabaseUpgradeComment OBJECT-TYPE

```
SYNTAX DisplayString  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "Common Database Upgrade Comment String"  
 ::= { starentTrapData 199 }
```

starSxCPUGroupNames OBJECT-TYPE

```
SYNTAX OCTET STRING (SIZE (1..32))  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "The name of the CP or UP group"  
 ::= { starentTrapData 200 }
```

starIPAddressType OBJECT-TYPE

```
SYNTAX InetAddressType  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "This object specifies IP address type of the neighboring IP  
 address which is being monitored with this BFD session.  
 Only values unknown(0), ipv4(1), ipv6(2), or ipv6z(4)  
 have to be supported. The value of unknown(0) is allowed  
 only when the session is singleHop(1) and the outgoing  
 interface is of type point-to-point, or when the BFD  
 session is not associated with a specific interface."  
 ::= { starentTrapData 201 }
```

starServiceLossCause OBJECT-TYPE

```
SYNTAX DisplayString  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "Service Loss failure cause"  
 ::= { starentTrapData 202 }
```

starCFGSyncAbortReason OBJECT-TYPE

```
SYNTAX DisplayString  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
 "Config Sync Abort Reason"  
 ::= { starentTrapData 203 }
```

```
-- PGW START
```

starX3ContextName OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS deprecated
 DESCRIPTION
 "PGW service context name"
 ::= { starentTrapData 204 }

starX3srcIPAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "X3 Source IP Address"
 ::= { starentTrapData 205 }

starX3srcPort OBJECT-TYPE

SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "X3 Source Port Number"
 ::= { starentTrapData 206 }

starX3dstIPAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "X3 Dest IP Address"
 ::= { starentTrapData 207 }

starX3dstPort OBJECT-TYPE

SYNTAX Integer32(1..65535)
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "X3 Dest Port Number"
 ::= { starentTrapData 208 }

starX3ConnType OBJECT-TYPE

SYNTAX INTEGER {
 tcp(1),
 tcpproxy(2)
 }
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Gives the Connection Type :TCP and TCP Proxy"
 ::= { starentTrapData 209 }

starX3ConnCauseStr OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current
 DESCRIPTION
 "Gives more details Specific to the connection Connect/disconnect "
 ::= { starentTrapData 210 }

starObjectRCMChassisState OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS accessible-for-notify
 STATUS current

DESCRIPTION

"RCM Chassis State"

::= { starentTrapData 211 }

starObjectRCMReloadReason OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"RCM Chassis Reload Reason"

::= { starentTrapData 212 }

starX3ContextId OBJECT-TYPE

SYNTAX Integer32(1..65535)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"PGW service context Id"

::= { starentTrapData 213 }

starDiameterEndPointContextName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter endpoint context name"

::= { starentTrapData 214 }

starDiameterEndPointId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Diameter endpoint id"

::= { starentTrapData 215 }

starDiameterPeerCauseType OBJECT-TYPE

SYNTAX INTEGER {

prioritypeerunavailable(1),

prioritypeeravailable(2),

nonprioritypeerunavailable(3),

nonprioritypeeravailable(4)

}

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Trap cause type"

::= { starentTrapData 216 }

starSRPPeerVersion OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SRP Peer Version"

::= { starentTrapData 217 }

starSXPeerVersion OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"SX Peer Version"

::= { starentTrapData 218 }

starChassisState OBJECT-TYPE

```

SYNTAX INTEGER {
    chassisstateinit(0),
    chassisstateactive(1),
    chassisstatestandby(2),
    chassisstateactivependingstandby(3),
    chassisstatemax(4)
}
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Chassis State"
 ::= { starentTrapData 219 }

```

```

starSessMgrInstanceNumber OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Session manager instance number which is having more calls"
 ::= { starentTrapData 220 }

```

```

starSessMgrCallCount OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "Reported instance call count"
 ::= { starentTrapData 221 }

```

```

starSessUnevenCallDistThrdStr OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..512))
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "String containing list of least loaded session manager details "
 ::= { starentTrapData 222 }

```

```

starSgiReachabilityContextName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "APN context name"
 ::= { starentTrapData 223 }

```

```

starSgiReachabilityPgwIPAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "PGW IP address"
 ::= { starentTrapData 224 }

```

```

starSgiReachabilityApnName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "APN name"
 ::= { starentTrapData 225 }

```

```

starSXSelfVersion OBJECT-TYPE
SYNTAX DisplayString

```

```

MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
  "SX Self Version"
 ::= { starentTrapData 226 }

```

```

starSRPPeerIpAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
  "SRP Peer IP Address"
 ::= { starentTrapData 227 }

```

```

starSRPSelfVersion OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
  "SRP Self Version"
 ::= { starentTrapData 228 }

```

```

starAHTAge OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
  "AHT hold age value in seconds"
 ::= { starentTrapData 230 }

```

```
-- PGW END
```

```
-- MME-EMBMS END
```

```
-- L2TP objects, used for traps only
```

```
starentL2TP OBJECT IDENTIFIER ::= { starentMIBObjects 33 }
```

```

starL2TPTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarL2TPEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "A table containing L2TP related information"
 ::= { starentL2TP 1 }

```

```

starL2TPEntry OBJECT-TYPE
SYNTAX StarL2TPEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "The statistics for a L2TP entry"
INDEX { starL2TPLocalTunnelID, starL2TPPeerTunnelID }
 ::= { starL2TPTable 1 }

```

```

StarL2TPEntry ::=
SEQUENCE {
    starL2TPLocalTunnelID Unsigned32,
    starL2TPPeerTunnelID Unsigned32,
    starL2TPContextName DisplayString,
    starL2TPServiceName DisplayString,
    starL2TPServiceTypeName DisplayString,
    starL2TPLocalAddress IpAddress,
    starL2TPPeerAddress IpAddress
}

```


starL2TPLocalTunnelID OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The internal identification of the L2TP local tunnel ID"

::= { starL2TPEntry 1 }

starL2TPPeerTunnelID OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The internal identification of the L2TP peer tunnel ID"

::= { starL2TPEntry 2 }

starL2TPContextName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of the context"

::= { starL2TPEntry 3 }

starL2TPServiceName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of the service"

::= { starL2TPEntry 4 }

starL2TPServiceTypeName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of the service type"

::= { starL2TPEntry 5 }

starL2TPLocalAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The local address of the service"

::= { starL2TPEntry 6 }

starL2TPPeerAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The peer address of the service"

::= { starL2TPEntry 7 }

-- GGSN; these objects are provided for use in SNMP Traps only

starentGGSNService OBJECT IDENTIFIER ::= { starentMIBObjects 32 }

starGGSNSerTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarGGSNSerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing GGSN related information"

::= { starentGGSNService 1 }

starGGSNSerEntry OBJECT-TYPE

SYNTAX StarGGSNSerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific GGSN service"

INDEX { starGGSNSerVpnID, starGGSNSerSvcID }

::= { starGGSNSerTable 1 }

StarGGSNSerEntry ::=

SEQUENCE {

starGGSNSerVpnID Gauge32,

starGGSNSerSvcID Gauge32,

starSessGGSNVpnName DisplayString,

starSessGGSNServName DisplayString,

starSessGGSNPeerPort Gauge32,

starSessGGSNPeerAddr IpAddress,

starSessGGSNimsi OCTET STRING,

starSessGGSNSubsName OCTET STRING,

starSessGGSNAPNName OCTET STRING,

starSessGTPPGroupName OCTET STRING

}

starGGSNSerVpnID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The internal identification of the VPN (context)"

::= { starGGSNSerEntry 1 }

starGGSNSerSvcID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The internal identification of this service; unique within a specific context"

::= { starGGSNSerEntry 2 }

starSessGGSNVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this VPN (context)"

::= { starGGSNSerEntry 3 }

starSessGGSNServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this service"

::= { starGGSNSerEntry 4 }

starSessGGSNPeerPort OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The Peer Port for which PATH Failure has occurred"

```
::= { starGGSNSerEntry 5 }
```

```
starSessGGSNPeerAddr OBJECT-TYPE
```

```
SYNTAX IpAddress
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The Peer Address for which PATH Failure has occurred"
```

```
::= { starGGSNSerEntry 6 }
```

```
starSessGGSNImsi OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..8))
```

```
MAX-ACCESS accessible-for-notify
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The IMSI of the subscriber"
```

```
::= { starGGSNSerEntry 7 }
```

```
starSessGGSNSubsName OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..128))
```

```
MAX-ACCESS accessible-for-notify
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The name of the subscriber"
```

```
::= { starGGSNSerEntry 8 }
```

```
starSessGGSNAPNName OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..64))
```

```
MAX-ACCESS accessible-for-notify
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The name of the APN"
```

```
::= { starGGSNSerEntry 9 }
```

```
starSessGTPPGroupName OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..64))
```

```
MAX-ACCESS accessible-for-notify
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The name of the GTPP Group"
```

```
::= { starGGSNSerEntry 10 }
```

```
-- single subscriber info
```

```
-- This is used to perform a lookup on information on a single subscriber. This is done in a
```

```
-- two-step process
```

```
--
```

```
-- 1. Use a SET pdu to provide the keys to lookup. Set one or more of the fields
```

```
-- starSessSub1Context, starSessSub1NAI, starSessSub1MSID, starSessSub1IpAddr
```

```
--
```

```
-- The SET pdu returns once the query is complete. This query can takes some time
```

```
-- especially on large systems, so do not use small retry timers.
```

```
--
```

```
-- 2. Use a GET pdu to retrieve the data.
```

```
--
```

```
-- Note that in some cases, multiple subscribers might match the given search criteria.
```

```
-- The starSessSub1LastResult field identifies if zero, one or multiple matches were found.
```

```
-- If multiple matches are found, data is returned for one of them.
```

```
starSessSub1 OBJECT IDENTIFIER ::= { starentMIBObjects 34 }
```

```
starSessSub1Context OBJECT-TYPE
```

```
SYNTAX DisplayString
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The name of the context for this subscriber.

If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row."

::= { starSessSub1 1 }

starSessSub1NAI OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..128))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The NAI for this subscriber

If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row."

::= { starSessSub1 2 }

starSessSub1MSID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..16))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The MSID for this subscriber

If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row."

::= { starSessSub1 3 }

starSessSub1IpAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The remote IP address for this subscriber

If a SET is received, triggers a lookup for a subscriber that matches the specified search criteria and fills in the various objects in this row."

::= { starSessSub1 4 }

starSessSub1LastResult OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 error(1),
 nomatch(2),
 onematch(3),
 multimatch(4)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The result of the last search. A value of unknown(0) means that the query wasn't created properly, or that no query has been performed; error(1) indicates an internal error performing the query, this is an abnormal condition that shouldn't normally be seen; nomatch(2) means that the query did not find a matching subscriber; onematch(3) means that the query found exactly one subscriber; multimatch(4) means that more than one subscriber matched; the information for one (random) subscriber was fetched"

::= { starSessSub1 5 }

starSessSub1ServiceName OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..63))

MAX-ACCESS read-only

STATUS current
 DESCRIPTION
 "The service name of the subscriber."
 ::= { starSessSub1 6 }

starSessSub1HAIpAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The HA IP address for FA MIP connections"
 ::= { starSessSub1 7 }

starSessSub1PeerIpAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The remote IP address of the peer. The type of peer depends
 on the session type.

Session Type	Peer
-----	-----
PDSN	PCF
GGSN	SGSN
HA Mobile IP/HA IPSEC	FA
LAC	LNS
LNS	LAC"

::= { starSessSub1 8 }

starSessSub1InPackets OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of incoming packets for the subscriber"
 ::= { starSessSub1 9 }

starSessSub1InPacketsDropped OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of incoming packets dropped for the subscriber"
 ::= { starSessSub1 10 }

starSessSub1InBytes OBJECT-TYPE

SYNTAX Counter32
 UNITS "KB"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The count of incoming bytes for the subscriber, in kilobytes,
 rounded down (i.e. 1023 bytes = 0 kilobytes)"
 ::= { starSessSub1 11 }

starSessSub1OutPackets OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of outgoing packets for the subscriber"
 ::= { starSessSub1 12 }

starSessSub1OutPacketsDropped OBJECT-TYPE

SYNTAX Counter32

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of out going packets dropped for the subscriber"
::= { starSessSub1 13 }
```

```
starSessSub1OutBytes OBJECT-TYPE
SYNTAX Counter32
UNITS "KB"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The count of outgoing bytes for the subscriber, in kilobytes,
rounded down (i.e. 1023 bytes = 0 kilobytes)"
::= { starSessSub1 14 }
```

```
starSessSub1Activity OBJECT-TYPE
SYNTAX Gauge32
UNITS "%"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"TBD"
::= { starSessSub1 15 }
```

```
starSessSub1State OBJECT-TYPE
SYNTAX INTEGER {
    unknown(0),
    connecting(1),
    connected(2),
    disconnecting(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The state of the subscriber"
::= { starSessSub1 16 }
```

```
starSessSub1CallID OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The internal call ID of the subscriber"
::= { starSessSub1 17 }
```

```
starSessSub1ConnectTime OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The connect time for the subscriber, in UTC. The UNIX epoch (Jan 1, 1970) is used if no
value is available"
::= { starSessSub1 18 }
```

```
starSessSub1CallDuration OBJECT-TYPE
SYNTAX Counter32
UNITS "Seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The duration of the call, in seconds"
::= { starSessSub1 19 }
```

```
starSessSub1TimeIdle OBJECT-TYPE
SYNTAX Gauge32
```

UNITS "Seconds"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The idle time of the call, in seconds"
 ::= { starSessSub1 20 }

starSessSub1AccessType OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 pdsnsimpleip(1),
 pdsnmobileip(2),
 hamobileip(3),
 ggsnpdptypeipv4(4),
 ggsnpdptypeppp(5),
 ggsnpdptypeipv6(6),
 lnsl2tp(7),
 haipsec(8),
 ipsg(9),
 pdsnsipmip(10),
 miproxyfa(11),
 imsa(12),
 bcmcs(13),
 ggsnmip(14),
 ipprobe(15),
 ansgw(16)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The access type for the subscriber"
 ::= { starSessSub1 21 }

starSessSub1AccessTech OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 cdma1xrtt(1),
 cdmaevdo(2),
 cdmaother(3),
 wcdmautran(4),
 gprsgeran(5),
 gprsother(6),
 wirelesslan(7),
 ipsg(8),
 wimax(9),
 sip(10),
 other(11),
 cdmaevdoreva(12),
 pdfif(13),
 phs(14),
 ehrpd(15),
 eutran(16),
 gan(17),
 hspa(18)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The access technology for the subscriber"
 ::= { starSessSub1 22 }

starSessSub1LinkStatus OBJECT-TYPE

SYNTAX INTEGER {
 unknown(0),
 active(1),
 dormant(2)
 }

```

    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The link status for the subscriber"
    ::= { starSessSub1 23 }

starSessSub1NetworkType OBJECT-TYPE
    SYNTAX INTEGER {
        unknown(0),
        ip(1),
        mobileip(2),
        l2tp(3),
        proxymobileip(4),
        ipinip(5),
        gre(6),
        ipv6inipv4(7)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The network type for the subscriber"
    ::= { starSessSub1 24 }

starSessSub1CarrierID OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..6))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Carrier ID"
    ::= { starSessSub1 25 }

starSessSub1ESN OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..15))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Electronic Serial Number"
    ::= { starSessSub1 26 }

starSessSub1GMTTimezoneOffset OBJECT-TYPE
    SYNTAX Integer32
    UNITS "Seconds"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Timezone offset from GMT, in seconds. This is a signed value"
    ::= { starSessSub1 27 }

starSessSub1SessMgr OBJECT-TYPE
    SYNTAX Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The instance number of the session manager for this subscriber."
    ::= { starSessSub1 28 }

starSessSub1RemoteIPAddr OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Remote IP Address"
    ::= { starSessSub1 29 }

starSessSub1Card OBJECT-TYPE

```



```
SYNTAX Integer32(1..16)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The card holding the session manager for this session. Use in combination
    with starSessSub1CPU"
 ::= { starSessSub1 30 }
```

```
starSessSub1CPU OBJECT-TYPE
SYNTAX Integer32(0..3)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The CPU holding the session manager for this session. Use in combination
    with starSessSub1Card"
 ::= { starSessSub1 31 }
```

```
starSessSub1TimeIdleLeft OBJECT-TYPE
SYNTAX Gauge32
UNITS "Seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The remaining idle time of the call, in seconds. A value of 0xffffffff is used if the call
    does not have an idle timeout"
 ::= { starSessSub1 32 }
```

```
starSessSub1TimeLeft OBJECT-TYPE
SYNTAX Gauge32
UNITS "Seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The remaining session time of the call, in seconds. A value of 0xffffffff is used if the call
    does not have a session timeout"
 ::= { starSessSub1 33 }
```

```
starSessSub1TimeLongDurLeft OBJECT-TYPE
SYNTAX Gauge32
UNITS "Seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The remaining long duration time of the call, in seconds. A value of 0xffffffff is used if the call
    does not have a long duration timer"
 ::= { starSessSub1 34 }
```

```
starSessSub1LongDurAction OBJECT-TYPE
SYNTAX StarLongDurTimeoutAction
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The action to take when the long duration timer is reached"
 ::= { starSessSub1 35 }
```

```
starSessSub1AlwaysOn OBJECT-TYPE
SYNTAX INTEGER {
    unknown(0),
    enabled(1),
    disabled(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
 ::= { starSessSub1 36 }
```

starSessSub1IPPoolName OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..31))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starSessSub1 37 }

starSessSub1VLANID OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"0 is returned if this is not applicable"

::= { starSessSub1 38 }

starSessSub1LNSIPAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Only valid if starSessSub1NetworkType is l2tp(3), otherwise 0.0.0.0"

::= { starSessSub1 39 }

starSessSub1ProxyMIP OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

enabled(1),

disabled(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starSessSub1 40 }

starSessSub1GGSNMIP OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

enabled(1),

disabled(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starSessSub1 41 }

starSessSub1HomeAgentIpAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The IP address of the Home Agent. This value is applicable only if one of the following is true:

1. The value of starSessSub1AccessType is pdsmobileip(2)
2. The value of starSessSub1ProxyMIP is enabled(1)
3. The value of starSessSub1GGSNMIP is enabled(1)

If not applicable, a value of 0.0.0.0 will be returned"

::= { starSessSub1 42 }

starSessSub1LocalIPAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Local IP address of the Home Agent. This value is applicable only if one of the following is true:

1. The value of starSessSub1AccessType is pdsnsimpleip(1)
2. The value of starSessSub1AccessType is ggsnpdptypeppp(5)
3. The value of starSessSub1AccessType is Insl2tp(7)

If not applicable, a value of 0.0.0.0 will be returned"

::= { starSessSub1 43 }

starSessSub1FAServiceName OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..63))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The FA service name for the subscriber. This value is applicable only if one of the following is true:

1. The value of starSessSub1AccessType is pdsnmobileip(2)
2. The value of starSessSub1ProxyMIP is enabled(1)
3. The value of starSessSub1GGSNMIP is enabled(1)

"

::= { starSessSub1 44 }

starSessSub1FAVPNName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The FA VPN (Context) name. This value is applicable only if one of the following is true:

1. The value of starSessSub1AccessType is pdsnmobileip(2)
2. The value of starSessSub1ProxyMIP is enabled(1)
3. The value of starSessSub1GGSNMIP is enabled(1)

"

::= { starSessSub1 45 }

starSessSub1SourceVPN OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Source VPN (Context) name."

::= { starSessSub1 46 }

starSessSub1DestVPN OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Destination VPN (Context) name."

::= { starSessSub1 47 }

starSessSub1AAAVPN OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starSessSub1 48 }

starSessSub1AAADomain OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starSessSub1 49 }

starSessSub1AAASStart OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 50 }
```

starSessSub1AAASStop OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 51 }
```

starSessSub1AAAInterim OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 52 }
```

starSessSub1AcctSessionID OBJECT-TYPE

```
SYNTAX OCTET STRING (SIZE(0..47))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 53 }
```

starSessSub1AAARadiusGroup OBJECT-TYPE

```
SYNTAX OCTET STRING (SIZE(0..63))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 54 }
```

starSessSub1AAARadiusAuthServerIPAddr OBJECT-TYPE

```
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 55 }
```

starSessSub1AAARadiusAcctServerIPAddr OBJECT-TYPE

```
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 56 }
```

starSessSub1NASIPAddr OBJECT-TYPE

```
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "NAS IP Address (D2)"
```

```
::= { starSessSub1 57 }
```

starSessSub1NextHopIPAddr OBJECT-TYPE

```
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 58 }
```

```
starSessSub1ActiveInACL OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..79))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 59 }
```

```
starSessSub1ActiveOutACL OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..79))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 60 }
```

```
starSessSub1ECSRulebase OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..63))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 61 }
```

```
starSessSub1InPlcyGrp OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..15))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 62 }
```

```
starSessSub1OutPlcyGrp OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..15))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
```

```
::= { starSessSub1 63 }
```

```
starSessSub1DownTrafPolState OBJECT-TYPE
SYNTAX INTEGER {
    unknown(0),
    enabled(1),
    disabled(2)
}
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
    "Downlink traffic policing state"
```

```
::= { starSessSub1 64 }
```

```
starSessSub1DownCommDataRate OBJECT-TYPE
SYNTAX Unsigned32
UNITS "bps"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

```
    "Downlink committed data rate, in bps. This value is only valid if
```

```

starSessSub1DownTrafPolState is enabled(1)"
 ::= { starSessSub1 65 }

```

starSessSub1DownPeakDataRate OBJECT-TYPE

```

SYNTAX      Unsigned32
UNITS       "bps"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Downlink peak data rate, in bps. This value will be 0 if the value
    of starSessSub1DownTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 66 }

```

starSessSub1DownBurstSize OBJECT-TYPE

```

SYNTAX      Unsigned32
UNITS       "bytes"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Downlink burst size, in bytes. This value will be 0 if the value
    of starSessSub1DownTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 67 }

```

starSessSub1DownExceedAction OBJECT-TYPE

```

SYNTAX      StarQOSTPAction
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Downlink Exceed Action. This value will be notapplicable(1) if the value
    of starSessSub1DownTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 68 }

```

starSessSub1DownViolateAction OBJECT-TYPE

```

SYNTAX      StarQOSTPAction
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Downlink Violate Action. This value will be notapplicable(1) if the value
    of starSessSub1DownTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 69 }

```

starSessSub1DownExceed OBJECT-TYPE

```

SYNTAX      Counter32
UNITS       "packets"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Downlink packets exceeded bandwidth parameters"
 ::= { starSessSub1 70 }

```

starSessSub1DownViolate OBJECT-TYPE

```

SYNTAX      Counter32
UNITS       "packets"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Downlink packets violated bandwidth parameters"
 ::= { starSessSub1 71 }

```

starSessSub1UpTrafPolState OBJECT-TYPE

```

SYNTAX      INTEGER {
                unknown(0),
                enabled(1),
                disabled(2)
            }
MAX-ACCESS  read-only

```

```
STATUS current
DESCRIPTION
    "Uplink traffic policing state"
 ::= { starSessSub1 72 }
```

starSessSub1UpCommDataRate OBJECT-TYPE

```
SYNTAX Unsigned32
UNITS "bps"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Uplink committed data rate, in bps. This value is only valid if
    starSessSub1UpTrafPolState is enabled(1)"
 ::= { starSessSub1 73 }
```

starSessSub1UpPeakDataRate OBJECT-TYPE

```
SYNTAX Unsigned32
UNITS "bps"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Uplink peak data rate, in bps. This value will be 0 if the value
    of starSessSub1UpTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 74 }
```

starSessSub1UpBurstSize OBJECT-TYPE

```
SYNTAX Unsigned32
UNITS "bytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Uplink burst size, in bytes. This value will be 0 if the value
    of starSessSub1UpTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 75 }
```

starSessSub1UpExceedAction OBJECT-TYPE

```
SYNTAX StarQOSTPAction
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Uplink Exceed Action. This value will be notapplicable(1) if the value
    of starSessSub1UpTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 76 }
```

starSessSub1UpViolateAction OBJECT-TYPE

```
SYNTAX StarQOSTPAction
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Uplink Violate Action. This value will be notapplicable(1) if the value
    of starSessSub1UpTrafPolState is anything other than enabled(1)"
 ::= { starSessSub1 77 }
```

starSessSub1UpExceed OBJECT-TYPE

```
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Uplink packets exceeded bandwidth parameters"
 ::= { starSessSub1 78 }
```

starSessSub1UpViolate OBJECT-TYPE

```
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
```

```

STATUS    current
DESCRIPTION
    "Uplink packets violated bandwidth parameters"
 ::= { starSessSub1 79 }

```

starSessSub1L3TunnelingState OBJECT-TYPE

```

SYNTAX    INTEGER {
                unknown(0),
                enabled(1),
                disabled(2)
            }
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "Identifies if L3 tunneling is enabled. This value should be enabled(1) if
    starSessSub1NetworkType is ipinip(5) or gre(6)"
 ::= { starSessSub1 80 }

```

starSessSub1L3TunLocalIPAddr OBJECT-TYPE

```

SYNTAX    IpAddress
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "L3 tunnel local address. This value is valid only if starSessSub1L3TunnelState
    is enabled(1), other it will be 0.0.0.0"
 ::= { starSessSub1 81 }

```

starSessSub1L3TunRemoteIPAddr OBJECT-TYPE

```

SYNTAX    IpAddress
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "L3 tunnel remote address. This value is valid only if starSessSub1L3TunnelState
    is enabled(1), other it will be 0.0.0.0"
 ::= { starSessSub1 82 }

```

starSessSub1AddrViaDHCP OBJECT-TYPE

```

SYNTAX    INTEGER {
                unknown(0),
                enabled(1),
                disabled(2)
            }
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    ""
 ::= { starSessSub1 83 }

```

starSessSub1DHCPServName OBJECT-TYPE

```

SYNTAX    OCTET STRING (SIZE(0..63))
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "DHCP service name. This value is only valid if starSessSub1DHCPAddrViaDHCP
    is enabled(1)"
 ::= { starSessSub1 84 }

```

starSessSub1DHCPServIPAddr OBJECT-TYPE

```

SYNTAX    IpAddress
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "DHCP service IP address. This value is only valid if starSessSub1DHCPAddrViaDHCP
    is enabled(1), otherwise it will be 0.0.0.0"
 ::= { starSessSub1 85 }

```


starSessSub1AccessLinkIPFrag OBJECT-TYPE

```

SYNTAX  INTEGER {
            unknown(0),
            normal(1),
            dfignore(2),
            dffragandicmp(3)
        }
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    ""
 ::= { starSessSub1 86 }

```

starSessSub1IgnoreDFBit OBJECT-TYPE

```

SYNTAX  INTEGER {
            unknown(0),
            enabed(1),
            disabled(2)
        }
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "Ignore DF-bit data-tunnel"
 ::= { starSessSub1 87 }

```

starSessSub1MIPGratARPMode OBJECT-TYPE

```

SYNTAX  INTEGER {
            unknown(0),
            notapplicable(1),
            aggressive(2),
            normal(3)
        }
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "This field is only applicable if starSessSub1AccessType is hamobileip(3) or haipsec(8)"
 ::= { starSessSub1 88 }

```

starSessSub1ExtInISrvrProc OBJECT-TYPE

```

SYNTAX  INTEGER {
            unknown(0),
            enabled(1),
            disabled(2)
        }
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "The state of external inline server processing"
 ::= { starSessSub1 89 }

```

starSessSub1ExtInISrvrIngrIPAddr OBJECT-TYPE

```

SYNTAX  IpAddress
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "The external inline server ingress IP address. This value is only valid if
    starSessSub1ExtInISrvrProc is enabled(1)"
 ::= { starSessSub1 90 }

```

starSessSub1ExtInISrvrIngrVLANTag OBJECT-TYPE

```

SYNTAX  Unsigned32
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "The external inline server ingress VLAN tag. This value is only valid if
    starSessSub1ExtInISrvrProc is enabled(1)"

```

```
::= { starSessSub1 91 }
```

starSessSub1ExtInlSrvrEgrIPAddr OBJECT-TYPE

```
SYNTAX      IpAddress
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The external inline server egress IP address. This value is only valid if
    starSessSub1ExtInlSrvrProc is enabled(1)"
::= { starSessSub1 92 }
```

starSessSub1ExtInlSrvrEgrVLANTag OBJECT-TYPE

```
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The external inline server egress VLAN tag. This value is only valid if
    starSessSub1ExtInlSrvrProc is enabled(1)"
::= { starSessSub1 93 }
```

starSessSub1ExtInlSrvrVPNName OBJECT-TYPE

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The external inline server context (VPN). This value is only valid if
    starSessSub1ExtInlSrvrProc is enabled(1)"
::= { starSessSub1 94 }
```

starSessSub1RadAcctMode OBJECT-TYPE

```
SYNTAX      INTEGER {
                unknown(0),
                flowbasedaux(1),
                flowbasedall(2),
                flowbasednone(3),
                sessionbased(4)
            }
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Radius Accounting Mode"
::= { starSessSub1 95 }
```

starSessSub1InBytesDropped OBJECT-TYPE

```
SYNTAX      Counter32
UNITS      "KB"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The count of incoming bytes dropped for the subscriber, in kilobytes,
    rounded down (i.e. 1023 bytes = 0 kilobytes)"
::= { starSessSub1 96 }
```

starSessSub1OutBytesDropped OBJECT-TYPE

```
SYNTAX      Counter32
UNITS      "KB"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The count of outgoing bytes dropped for the subscriber, in kilobytes,
    rounded down (i.e. 1023 bytes = 0 kilobytes)"
::= { starSessSub1 97 }
```

starSessSub1PeakBPSTx OBJECT-TYPE

```
SYNTAX      Gauge32
UNITS      "Bytes per second"
```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Peak rate from user, in bytes per second"
 ::= { starSessSub1 98 }
```

starSessSub1PeakBPSRx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Bytes per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Peak rate to user, in bytes per second"
 ::= { starSessSub1 99 }
```

starSessSub1AveBPSTx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Bytes per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Average rate from user, in bytes per second"
 ::= { starSessSub1 100 }
```

starSessSub1AveBPSRx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Bytes per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Average rate to user, in bytes per second"
 ::= { starSessSub1 101 }
```

starSessSub1SustBPSTx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Bytes per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Sustained rate from user, in bytes per second"
 ::= { starSessSub1 102 }
```

starSessSub1SustBPSRx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Bytes per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Sustained rate to user, in bytes per second"
 ::= { starSessSub1 103 }
```

starSessSub1PeakPPSTx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Packets per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Peak rate from user, in packets per second"
 ::= { starSessSub1 104 }
```

starSessSub1PeakPPSRx OBJECT-TYPE

```
SYNTAX Gauge32
UNITS "Packets per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"Peak rate to user, in packets per second"

::= { starSessSub1 105 }

starSessSub1AvePPSTx OBJECT-TYPE

SYNTAX Gauge32

UNITS "Packets per second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Average rate from user, in packets per second"

::= { starSessSub1 106 }

starSessSub1AvePPSRx OBJECT-TYPE

SYNTAX Gauge32

UNITS "Packets per second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Average rate to user, in packets per second"

::= { starSessSub1 107 }

starSessSub1SustPPSTx OBJECT-TYPE

SYNTAX Gauge32

UNITS "Packets per second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Sustained rate from user, in packets per second"

::= { starSessSub1 108 }

starSessSub1SustPPSRx OBJECT-TYPE

SYNTAX Gauge32

UNITS "Packets per second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Sustained rate to user, in packets per second"

::= { starSessSub1 109 }

starSessSub1ActivePct OBJECT-TYPE

SYNTAX Integer32(0..100)

UNITS "percent"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Link online/active percentage"

::= { starSessSub1 110 }

starSessSub1IPv4BadHdr OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"IPv4 Bad Headers"

::= { starSessSub1 111 }

starSessSub1IPv4TtlExceeded OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"IPv4 Total Exceeded"

::= { starSessSub1 112 }

starSessSub1IPv4FragSent OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Fragments sent"
::= { starSessSub1 113 }

starSessSub1IPv4FragFail OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Could Not Fragment errors"
::= { starSessSub1 114 }

starSessSub1IPv4InACLDrop OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Input ACL Drops"
::= { starSessSub1 115 }

starSessSub1IPv4OutACLDrop OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv5 Output ACL Drops"
::= { starSessSub1 116 }

starSessSub1IPv4InCSSDownDrop OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Input CSS Down Drops"
::= { starSessSub1 117 }

starSessSub1IPv4OutCSSDownDrop OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Output CSS Down Drops"
::= { starSessSub1 118 }

starSessSub1IPv4OutXOFFDropPkt OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Output XOFF Packets Drop"
::= { starSessSub1 119 }

starSessSub1IPv4OutXOFFDropByte OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Output XOFF Bytes Drop"
::= { starSessSub1 120 }

starSessSub1IPv4SrcViol OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only

STATUS current
DESCRIPTION
"IPv4 Source Violations"
::= { starSessSub1 121 }

starSessSub1IPv4ProxyDNSRedir OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Proxy-DNS Redirect"
::= { starSessSub1 122 }

starSessSub1IPv4SrcProxyDNSPTThru OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Proxy-DNS Pass-Thru"
::= { starSessSub1 123 }

starSessSub1IPv4ProxyDNSDrop OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Proxy-DNS Drop"
::= { starSessSub1 124 }

starSessSub1IPv4SrcViolNoAcct OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Source Violations No Account"
::= { starSessSub1 125 }

starSessSub1IPv4SrcViolIgnored OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"IPv4 Source Violations Ignored"
::= { starSessSub1 126 }

starSessSub1ExtInISrvrTxPkt OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Packets transmitted to inline server. This value is valid only if
the value of starSessSub1ExtInISrvrProc is enabled(1)"
::= { starSessSub1 127 }

starSessSub1ExtInISrvrRxPkt OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Packets received from inline server. This value is valid only if
the value of starSessSub1ExtInISrvrProc is enabled(1)"
::= { starSessSub1 128 }

starSessSub1IPv4ICMPDropPkt OBJECT-TYPE

```
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "IPv4 ICMP Packets dropped"
 ::= { starSessSub1 129 }
```

starSessSub1TunnelType OBJECT-TYPE

```
SYNTAX INTEGER {
    unknown(0),
    none(1),
    pptp(2),
    l2tp(3),
    ah(4),
    ipinip(5),
    esp(6),
    gre(7)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Tunnel Type"
 ::= { starSessSub1 130 }
```

starSessSub1IPSECTunDownDropPkt OBJECT-TYPE

```
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Pool IPSEC tunnel down packets dropped. This value is only valid if the
    value of starSessSub1TunnelType is esp(6)"
 ::= { starSessSub1 131 }
```

starSessSub1IPSECFLOWID OBJECT-TYPE

```
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "IP Pool IPSEC flow id. This value is only valid if the
    value of starSessSub1TunnelType is esp(6)"
 ::= { starSessSub1 132 }
```

starSessSub1DormancyTotal OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Dormancy total. This value is not valid if the value of
    starSessSub1AccessType is ggsnpdptypeipv4(4) or ggsnpdptypeppp(5)"
 ::= { starSessSub1 133 }
```

starSessSub1HandoffTotal OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Handoff total. This value is not valid if the value of
    starSessSub1AccessType is ggsnpdptypeipv4(4) or ggsnpdptypeppp(5)"
 ::= { starSessSub1 134 }
```

starSessSub1AccessFlows OBJECT-TYPE

```
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
```

DESCRIPTION

"Access flows"

::= { starSessSub1 135 }

starSessSub1TFT OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of TFTs"

::= { starSessSub1 136 }

starSessSub1NASPort OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"NAS port"

::= { starSessSub1 137 }

starSessSub1CorrID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..47))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"ThreeGPP2-correlation-id (C2)"

::= { starSessSub1 139 }

starSessSub1L2TPPeerIPAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"L2TP Peer address. This value is only valid if the value of starSessSub1NetworkType is l2tp(3)"

::= { starSessSub1 140 }

starSessSub1IPv4EarlyPDURecv OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"IPv4 early PDU received"

::= { starSessSub1 141 }

-- Nw Reacheability Srvr; these objects are provided for use in SNMP Traps only

starentNwReachServer OBJECT IDENTIFIER ::= { starentMIBObjects 35 }

starNwReachTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarNwReachEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing Network Reacheable Server information"

::= { starentNwReachServer 1 }

starNwReachEntry OBJECT-TYPE

SYNTAX StarNwReachEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information for a specific Ntw Reachable Server"

INDEX { starNwReachName }

::= { starNwReachTable 1 }

StarNwReachEntry ::=

```
SEQUENCE {
    starNwReachName      OCTET STRING,
    starNwReachSrvrAddr  IpAddress
}
```

starNwReachName OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..16))

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The Name for this Network Reacheable Server"

::= { starNwReachEntry 1 }

starNwReachSrvrAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The IP Address for the Network Reacheable Server"

::= { starNwReachEntry 2 }

-- IPSEC; these objects are provided for use in SNMP Traps only

starentIPSEC OBJECT IDENTIFIER ::= { starentMIBObjects 36 }

starIPSECContextName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of a context"

::= { starentIPSEC 1 }

starIPSECGroupName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The name of a crypto group. The name could be empty,
when group name is not configured."

::= { starentIPSEC 2 }

starIPSECTunLocallpAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The local IP Address for an IPSEC tunnel"

::= { starentIPSEC 3 }

starIPSECTunRemotelpAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The remote IP Address for an IPSEC tunnel"

::= { starentIPSEC 4 }

starIPSECPolicyName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"An IPSEC policy name"

::= { starentIPSEC 5 }

starIPSECDynPolicyType OBJECT-TYPE

```
SYNTAX      INTEGER {
                unknown(0),
                manual(1),
                isakmp(2),
                subscribertemplate(3),
                subscribertunnel(4),
                test(5),
                dynamic(6)
            }
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"An IPSEC dynamic policy type. Note that the value test(5) is used only for internal testing"

::= { starentIPSEC 6 }

starIPSECDynPolicyPayloadType OBJECT-TYPE

```
SYNTAX      INTEGER {
                unknown(0),
                control(1),
                data(2),
                ipip(3),
                gre(4),
                test(5)
            }
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"An IPSEC dynamic policy payload type"

::= { starentIPSEC 7 }

starIPSECLocalGateway OBJECT-TYPE

```
SYNTAX      IpAddress
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starentIPSEC 8 }

starIPSECRemoteGateway OBJECT-TYPE

```
SYNTAX      IpAddress
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starentIPSEC 9 }

starentSIPRoute OBJECT IDENTIFIER ::= { starentMIBObjects 37 }

starSIPRouteTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF StarSIPRouteEntry
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing SIPRoute related information"

::= { starentSIPRoute 1 }

starSIPRouteEntry OBJECT-TYPE

```
SYNTAX      StarSIPRouteEntry
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific SIPRoute service"

INDEX { starSIPRouteVpnID }

```
::= { starSIPRouteTable 1 }
```

```
StarSIPRouteEntry ::=
```

```
SEQUENCE {
  starSIPRouteVpnID      Gauge32,
  starSIPRouteVpnName   DisplayString,
  starSIPRouteVmgName   DisplayString,
  starSIPRouteAsName    DisplayString,
  starSIPRouteDestPartyNum DisplayString,
  starSIPRouteReqNum    DisplayString
}
```

```
starSIPRouteVpnID OBJECT-TYPE
```

```
SYNTAX      Gauge32
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
  "The internal identification of the VPN (context)"
::= { starSIPRouteEntry 1 }
```

```
starSIPRouteVpnName OBJECT-TYPE
```

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The name of this VPN (context)"
::= { starSIPRouteEntry 2 }
```

```
starSIPRouteVmgName OBJECT-TYPE
```

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The name of this VMG (context)"
::= { starSIPRouteEntry 3 }
```

```
starSIPRouteAsName OBJECT-TYPE
```

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The name of this AS (context)"
::= { starSIPRouteEntry 4 }
```

```
starSIPRouteDestPartyNum OBJECT-TYPE
```

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The dest. party number"
::= { starSIPRouteEntry 5 }
```

```
starSIPRouteReqNum OBJECT-TYPE
```

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The request number"
::= { starSIPRouteEntry 6 }
```

```
starentRPSERVICEOPTION OBJECT IDENTIFIER ::= { starentMIBObjects 38 }
```

```
starRPSERVICEOPTIONTABLE OBJECT-TYPE
```

```
SYNTAX      SEQUENCE OF StarRPSERVICEOPTIONENTRY
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" "

::= { starentRPSERVICEOPTION 1 }

starRPSERVICEOPTIONENTRY OBJECT-TYPE

SYNTAX StarRPSERVICEOPTIONENTRY

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" "

INDEX { starRPSERVICEOPTIONNUM }

::= { starRPSERVICEOPTIONTABLE 1 }

StarRPSERVICEOPTIONENTRY ::=

SEQUENCE {

 starRPSERVICEOPTIONNUM Integer32,

 starRPSERVICEOPTIONCALLS Gauge32

}

starRPSERVICEOPTIONNUM OBJECT-TYPE

SYNTAX Integer32(1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" "

::= { starRPSERVICEOPTIONENTRY 1 }

starRPSERVICEOPTIONCALLS OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starRPSERVICEOPTIONENTRY 2 }

-- PCF statistics

starentPCFSTATS OBJECT IDENTIFIER ::= { starentMIBOBJECTS 39 }

starPCFSTATTABLE OBJECT-TYPE

SYNTAX SEQUENCE OF StarPCFSTATENTRY

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of per-PCF statistics"

::= { starentPCFSTATS 1 }

starPCFSTATENTRY OBJECT-TYPE

SYNTAX StarPCFSTATENTRY

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific PCF"

INDEX { starPCFSTATVpnID, starPCFSTATIPADDR }

::= { starPCFSTATTABLE 1 }

StarPCFSTATENTRY ::=

SEQUENCE {

 starPCFSTATVpnID Gauge32,

 starPCFSTATIPADDR IpAddress,

 starPCFSTATVpnNAME DisplayString,

 starPCFSTATRxPkts Counter32,

 starPCFSTATTxPkts Counter32,

```

starPCFStatRxBytes      Counter32,
starPCFStatTxBytes      Counter32,
starPCFStatTotalSessions Counter32,
starPCFStatCurrentSessions Gauge32,
starPCFStatCurrentActiveSessions Gauge32,
starPCFStatCurrentDormantSessions Gauge32,
starPCFStatCurrentSIPConnected Gauge32,
starPCFStatCurrentMIPConnected Gauge32,
starPCFStatCurrentPMIPConnected Gauge32,
starPCFStatCurrentL2TPLACConnected Gauge32,
starPCFStatCurrentOtherConnected Gauge32

```

```

}

```

starPCFStatVpnID OBJECT-TYPE

```

SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

```

```

" "

```

```

::= { starPCFStatEntry 1 }

```

starPCFStatIpAddr OBJECT-TYPE

```

SYNTAX IpAddress
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

```

```

" "

```

```

::= { starPCFStatEntry 2 }

```

starPCFStatVpnName OBJECT-TYPE

```

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

```

" "

```

```

::= { starPCFStatEntry 3 }

```

starPCFStatRxPkts OBJECT-TYPE

```

SYNTAX Counter32
UNITS "Millions"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

```

" "

```

```

::= { starPCFStatEntry 4 }

```

starPCFStatTxPkts OBJECT-TYPE

```

SYNTAX Counter32
UNITS "Millions"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

```

" "

```

```

::= { starPCFStatEntry 5 }

```

starPCFStatRxBytes OBJECT-TYPE

```

SYNTAX Counter32
UNITS "Megabytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

```

" "

```

```

::= { starPCFStatEntry 6 }

```

starPCFStatTxBytes OBJECT-TYPE

```

SYNTAX Counter32

```

UNITS "Megabytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 7 }

starPCFStatTotalSessions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 8 }

starPCFStatCurrentSessions OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 9 }

starPCFStatCurrentActiveSessions OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 10 }

starPCFStatCurrentDormantSessions OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 11 }

starPCFStatCurrentSIPConnected OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 12 }

starPCFStatCurrentMIPConnected OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 13 }

starPCFStatCurrentPMIPConnected OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" "

::= { starPCFStatEntry 14 }

starPCFStatCurrentL2TPLACConnected OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

```

STATUS current
DESCRIPTION
    ""
 ::= { starPCFStatEntry 15 }

```

```
starPCFStatCurrentOtherConnected OBJECT-TYPE
```

```

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    ""
 ::= { starPCFStatEntry 16 }

```

```
-- Per Service PCF statistics
```

```
starPCFTable OBJECT-TYPE
```

```

SYNTAX SEQUENCE OF StarPCFEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table of per service PCF statistics"
 ::= { starentPCFStats 2 }

```

```
starPCFEntry OBJECT-TYPE
```

```

SYNTAX StarPCFEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The statistics for a specific PCF per service"
INDEX { starPCFSvcID, starPCFIpAddr }
 ::= { starPCFTable 1 }

```

```
StarPCFEntry ::=
```

```

SEQUENCE {
    starPCFSvcID          StarShortID,
    starPCFIpAddr         IpAddress,
    starPCFVpnID          Gauge32,
    starPCFVpnName        DisplayString,
    starPCFServName       DisplayString,
    starPCFRrqRcvd        Counter32,
    starPCFRrqAccepted    Counter32,
    starPCFRrqDenied      Counter32,
    starPCFRrqDiscarded   Counter32,
    starPCFInitialRrqRcvd Counter32,
    starPCFInitialRrqAccepted Counter32,
    starPCFIntraPDSNActiveHORrqAccepted Counter32,
    starPCFIntraPDSNDormantHORrqAccepted Counter32,
    starPCFInterPDSNHORrqAccepted Counter32,
    starPCFInitialRrqDenied Counter32,
    starPCFInitialRrqDiscarded Counter32,
    starPCFRenewRrqRcvd   Counter32,
    starPCFRenewRrqAccepted Counter32,
    starPCFRenewActiveRrqAccepted Counter32,
    starPCFRenewDormantRrqAccepted Counter32,
    starPCFRenewRrqDenied Counter32,
    starPCFRenewRrqDiscarded Counter32,
    starPCFDeregRrqRcvd   Counter32,
    starPCFDeregRrqAccepted Counter32,
    starPCFDeregDormantRrqAccepted Counter32,
    starPCFDeregRrqDenied Counter32,
    starPCFDeregRrqDiscarded Counter32,
    starPCFIntraPDSNActiveAnidHORrqAccepted Counter32,
    starPCFIntraPDSNDormantAnidHORrqAccepted Counter32,
    starPCFDeniedUnSpeReason Counter32,
    starPCFDeniedAdmProh Counter32,
    starPCFDeniedInsufResource Counter32,

```

```

starPCFDeniedMobNodeAuthFail      Counter32,
starPCFDeniedIdentMismatch        Counter32,
starPCFDeniedPoorFormedReq        Counter32,
starPCFDeniedUnknownPDSNAddr      Counter32,
starPCFDeniedRevTunnelUnavail     Counter32,
starPCFDeniedRevTunnelRequire     Counter32,
starPCFDeniedUnrecogVendorId      Counter32,
starPCFDeniedSessionClosed        Counter32,
starPCFDeniedBsnSessionInfoUnvail Counter32,
starPCFRegUpdTransmitted          Counter32,
starPCFRegUpdAccepted             Counter32,
starPCFRegUpdateRpLifetimeExpiry  Counter32,
starPCFRegUpdateUpperLayerIntiated Counter32,
starPCFRegUpdateOtherReason       Counter32,
starPCFRegUpdateHORElease         Counter32,
starPCFRegUpdateSessmgrDied       Counter32,
starPCFAuxA10ConnectionsSetup     Counter32,
starPCFSessionsDenied             Counter32,
starPCFSessionsInit               Counter32,
starPCFSessionsReneg              Counter32,
starPCFDiscLcpRemote              Counter32,
starPCFDiscRpRemote               Counter32,
starPCFDiscRpLocal                Counter32,
starPCFDiscMaxIpcpRetr            Counter32,
starPCFDiscMaxIpv6cpRetr         Counter32,
starPCFDiscMaxLcpRetr             Counter32,
starPCFDiscAuthFail               Counter32,
starPCFDiscSessSetupTimeout       Counter32,
starPCFDiscFlowAddFail            Counter32,
starPCFDiscInvDestContext         Counter32,
starPCFDiscLcpOptFail             Counter32,
starPCFDiscIpcpOptFail            Counter32,
starPCFDiscIpv6cpOptFail          Counter32,
starPCFDiscNoRemIpAddr            Counter32,
starPCFDiscDetectionFail          Counter32,
starPCFDiscMisc                   Counter32,
starPCFCurrentSessions            Gauge32,
starPCFSessionsSetup              Counter32,
starPCFSessionsRelse              Counter32,
starPCFCurrentRevaSessions        Gauge32,
starPCFRevaSessionsSetup          Counter32,
starPCFRevaSessionsRelse          Counter32
}

```

starPCFSvcID OBJECT-TYPE

```

SYNTAX  StarShortID
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION

```

"The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:), with the length of this structure at the beginning"

```
 ::= { starPCFEntry 1 }
```

starPCFIpAddr OBJECT-TYPE

```

SYNTAX  IpAddress
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION

```

"The PCF IP address"

```
 ::= { starPCFEntry 2 }
```

starPCFVpnID OBJECT-TYPE

```

SYNTAX  Gauge32
MAX-ACCESS read-only
STATUS  current

```


DESCRIPTION

"The internal identification of the VPN (context)"

::= { starPCFEntry 3 }

starPCFVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The VPN (context) name"

::= { starPCFEntry 4 }

starPCFServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this service"

::= { starPCFEntry 5 }

starPCFRrqRcvd OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of rrq received"

::= { starPCFEntry 6 }

starPCFRrqAccepted OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of rrq accepted"

::= { starPCFEntry 7 }

starPCFRrqDenied OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of rrq denied"

::= { starPCFEntry 8 }

starPCFRrqDiscarded OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of rrq discarded"

::= { starPCFEntry 9 }

starPCFInitialRrqRcvd OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Initial rrq received"

::= { starPCFEntry 10 }

starPCFInitialRrqAccepted OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Initial rrq accepted"

```
::= { starPCFEntry 11 }
```

```
starPCFIntraPDSNActiveHORrqAccepted OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Intra PDSN active handoff rrq accepted"
```

```
::= { starPCFEntry 12 }
```

```
starPCFIntraPDSNDormantHORrqAccepted OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Intra PDSN dormant handoff rrq accepted"
```

```
::= { starPCFEntry 13 }
```

```
starPCFInterPDSNHORrqAccepted OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Inter PDSN handoff rrq accepted"
```

```
::= { starPCFEntry 14 }
```

```
starPCFInitialRrqDenied OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Initial rrq denied"
```

```
::= { starPCFEntry 15 }
```

```
starPCFInitialRrqDiscarded OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Initial rrq discarded"
```

```
::= { starPCFEntry 16 }
```

```
starPCFRenewRrqRcvd OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Renew rrq received"
```

```
::= { starPCFEntry 17 }
```

```
starPCFRenewRrqAccepted OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Renew rrq accepted"
```

```
::= { starPCFEntry 18 }
```

```
starPCFRenewActiveRrqAccepted OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Renew active rrq accepted"
```

```
::= { starPCFEntry 19 }
```

starPCFRenewDormantRrqAccepted OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Renew dormant rrq accepted"
 ::= { starPCFEntry 20 }
```

starPCFRenewRrqDenied OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Renew rrq denied"
 ::= { starPCFEntry 21 }
```

starPCFRenewRrqDiscarded OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Renew rrq discarded"
 ::= { starPCFEntry 22 }
```

starPCFDeregRrqRcvd OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Deregistration rrq received"
 ::= { starPCFEntry 23 }
```

starPCFDeregRrqAccepted OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Deregistration rrq accepted"
 ::= { starPCFEntry 24 }
```

starPCFDeregDormantRrqAccepted OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Deregistration dormant rrq accepted"
 ::= { starPCFEntry 25 }
```

starPCFDeregRrqDenied OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Deregistration rrq denied"
 ::= { starPCFEntry 26 }
```

starPCFDeregRrqDiscarded OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Deregistration rrq discarded"
 ::= { starPCFEntry 27 }
```

starPCFIntraPDSNActiveAnidHORrqAccepted OBJECT-TYPE

```
SYNTAX Counter32
```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Intra PDSN active anid handoff rrq accepted"
::= { starPCFEntry 28 }

starPCFIntraPDSNDormantAnidHORrqAccepted OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Intra PDSN dormant anidhandoff rrq accepted"
::= { starPCFEntry 29 }

starPCFDeniedUnSpeReason OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Denied unspecified reason"
::= { starPCFEntry 30 }

starPCFDeniedAdmProh OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Denied admin prohibited"
::= { starPCFEntry 31 }

starPCFDeniedInsufResource OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Denied insufficient resources"
::= { starPCFEntry 32 }

starPCFDeniedMobNodeAuthFail OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Denied mobile node authentication failure"
::= { starPCFEntry 33 }

starPCFDeniedIdentMismatch OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Denied identification mismatch"
::= { starPCFEntry 34 }

starPCFDeniedPoorFormedReq OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Denied poor formed request"
::= { starPCFEntry 35 }

starPCFDeniedUnknownPDSNAddr OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"Denied unknown PDSN address"

::= { starPCFEntry 36 }

starPCFDeniedRevTunnelUnavail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Denied rev tunnel unavail"

::= { starPCFEntry 37 }

starPCFDeniedRevTunnelRequire OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Denied rev tunnel required"

::= { starPCFEntry 38 }

starPCFDeniedUnrecogVendorId OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Denied unrecognized vendor id"

::= { starPCFEntry 39 }

starPCFDeniedSessionClosed OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Denied session closed"

::= { starPCFEntry 40 }

starPCFDeniedBsnSessionInfoUnavail OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Denied bsn session information unavail"

::= { starPCFEntry 41 }

starPCFRegUpdTransmitted OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration updates transmitted"

::= { starPCFEntry 42 }

starPCFRegUpdAccepted OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration updates accepted"

::= { starPCFEntry 43 }

starPCFRegUpdateRpLifetimeExpiry OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration update rp life time expiry"

```
::= { starPCFEntry 44 }
```

starPCFRegUpdateUpperLayerIntiated OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration update upper layer intiated"

```
::= { starPCFEntry 45 }
```

starPCFRegUpdateOtherReason OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration update other reason"

```
::= { starPCFEntry 46 }
```

starPCFRegUpdateHORElease OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration update handoff release"

```
::= { starPCFEntry 47 }
```

starPCFRegUpdateSessmgrDied OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Registration update sessmgr denied "

```
::= { starPCFEntry 48 }
```

starPCFAuxA10ConnectionsSetup OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Aux a10 connections setup"

```
::= { starPCFEntry 49 }
```

starPCFSessionsDenied OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of sessions denied"

```
::= { starPCFEntry 50 }
```

starPCFSessionsInit OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of sessions initiated"

```
::= { starPCFEntry 51 }
```

starPCFSessionsReneg OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of PCF sessions renegotiated"

```
::= { starPCFEntry 52 }
```

```
starPCFDiscLcpRemote OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason lcp remote"
  ::= { starPCFEntry 53 }

starPCFDiscRpRemote OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason rp remote"
  ::= { starPCFEntry 54 }

starPCFDiscRpLocal OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason rp local"
  ::= { starPCFEntry 55 }

starPCFDiscMaxIpcpRetr OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason ppp maximum ipcp retries"
  ::= { starPCFEntry 56 }

starPCFDiscMaxIpv6cpRetr OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason max ipv6cp retries"
  ::= { starPCFEntry 57 }

starPCFDiscMaxLcpRetr OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason max lcp retries"
  ::= { starPCFEntry 58 }

starPCFDiscAuthFail OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason authentication failure"
  ::= { starPCFEntry 59 }

starPCFDiscSessSetupTimeout OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Disconnect reason session setup timeout"
  ::= { starPCFEntry 60 }

starPCFDiscFlowAddFail OBJECT-TYPE
  SYNTAX Counter32
```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason flow add failure"
::= { starPCFEntry 61 }

starPCFDisclnvDestContext OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason invalid destination context"
::= { starPCFEntry 62 }

starPCFDisclcpOptFail OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason lcp option failure"
::= { starPCFEntry 63 }

starPCFDisclpcpOptFail OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason lcp option failure"
::= { starPCFEntry 64 }

starPCFDisclpv6cpOptFail OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason ipv6cp option failure"
::= { starPCFEntry 65 }

starPCFDiscNoRemIpAddr OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason no ip remote ip address"
::= { starPCFEntry 66 }

starPCFDiscDetectionFail OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason detection failure"
::= { starPCFEntry 67 }

starPCFDiscMisc OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Disconnect reason miscellaneous"
::= { starPCFEntry 68 }

starPCFCurrentSessions OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"Current sessions"

::= { starPCFEntry 69 }

starPCFSessionsSetup OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Session setup"

::= { starPCFEntry 70 }

starPCFSessionsRelease OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Sessions release"

::= { starPCFEntry 71 }

starPCFCurrentRevaSessions OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current reva sessions"

::= { starPCFEntry 72 }

starPCFRevaSessionsSetup OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Reva session setup"

::= { starPCFEntry 73 }

starPCFRevaSessionsRelease OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Reva session release"

::= { starPCFEntry 74 }

-- SIP Route Server

-- These objects are defined only for use in traps

starentSIPRouteServer OBJECT IDENTIFIER ::= { starentMIBObjects 40 }

starSIPRouteServerTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarSIPRouteServerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing SIPRouteServer related information"

::= { starentSIPRouteServer 1 }

starSIPRouteServerEntry OBJECT-TYPE

SYNTAX StarSIPRouteServerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific SIPRouteServer"

INDEX { starSIPRouteServerVpnID }

::= { starSIPRouteServerTable 1 }

```

StarSIPRouteServerEntry ::=
SEQUENCE {
    starSIPRouteServerVpnID      Gauge32,
    starSIPRouteServerVpnName    DisplayString,
    starSIPRouteServerVmgName    DisplayString,
    starSIPRouteServerAsName     DisplayString,
    starSIPRouteServerIpAddr     IpAddress
}

starSIPRouteServerVpnID OBJECT-TYPE
SYNTAX      Gauge32
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "The internal identification of the VPN (context)"
::= { starSIPRouteServerEntry 1 }

starSIPRouteServerVpnName OBJECT-TYPE
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The name of this VPN (context)"
::= { starSIPRouteServerEntry 2 }

starSIPRouteServerVmgName OBJECT-TYPE
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The name of this VMG (context)"
::= { starSIPRouteServerEntry 3 }

starSIPRouteServerAsName OBJECT-TYPE
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The name of this AS (context)"
::= { starSIPRouteServerEntry 4 }

starSIPRouteServerIpAddr OBJECT-TYPE
SYNTAX      IpAddress
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The Sip Route Server IP Address"
::= { starSIPRouteServerEntry 5 }

-- VIM Service
-- These objects are defined only for use in traps

starentVIMService OBJECT IDENTIFIER ::= { starentMIBObjects 41 }

starVIMServiceTable OBJECT-TYPE
SYNTAX      SEQUENCE OF StarVIMServiceEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "A table containing VIM's Service related information"
::= { starentVIMService 1 }

starVIMServiceEntry OBJECT-TYPE
SYNTAX      StarVIMServiceEntry

```

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The statistics for a specific VIM's Service"
INDEX { starVIMServiceVpnID, starVIMServiceInstanceId }
 ::= { starVIMServiceTable 1 }

```

```

StarVIMServiceEntry ::=
SEQUENCE {
    starVIMServiceVpnID      Gauge32,
    starVIMServiceVpnName   DisplayString,
    starVIMServiceInstanceId Unsigned32,
    starVIMServiceFMDMaxCallRate Unsigned32,
    starVIMServiceFMDContinuousLoadCount Unsigned32
}

```

```

starVIMServiceVpnID OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The internal identification of the VPN (context)"
 ::= { starVIMServiceEntry 1 }

```

```

starVIMServiceVpnName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name of this VPN (context)"
 ::= { starVIMServiceEntry 2 }

```

```

starVIMServiceInstanceId OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The VIM Instance ID"
 ::= { starVIMServiceEntry 3 }

```

```

starVIMServiceFMDMaxCallRate OBJECT-TYPE
SYNTAX Unsigned32
UNITS "Calls per minute"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Configured FMD max call rate"
 ::= { starVIMServiceEntry 4 }

```

```

starVIMServiceFMDContinuousLoadCount OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Configured FMD continuous load count"
 ::= { starVIMServiceEntry 5 }

```

```

-- GTPP Storage Server, used for traps only
-- The GTPP Storage Server is an external entity, but the ST-16/ST-40 reports notifications
-- on its behalf

```

```

starentGSS OBJECT IDENTIFIER ::= { starentMIBObjects 42 }

```

```

starGSSClusterName OBJECT-TYPE
SYNTAX DisplayString

```

MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 "The name of the Storage Server Cluster"
 ::= { starentGSS 1 }

starGSSClusterNodeName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 "The name of a node within a Storage Server Cluster"
 ::= { starentGSS 2 }

starGSSClusterRgName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 "Resource Group"
 ::= { starentGSS 3 }

starGSSClusterRsName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 "Resource Name"
 ::= { starentGSS 4 }

starGSSClusterNodeState OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 " "
 ::= { starentGSS 5 }

starGSSClusterPrevOnlineNode OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 " "
 ::= { starentGSS 6 }

starGSSClusterFromNode OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 " "
 ::= { starentGSS 7 }

starGSSClusterToNode OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
 " "
 ::= { starentGSS 8 }

starGSSDiskPath OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS accessible-for-notify
STATUS current

DESCRIPTION

" "

::= { starentGSS 9 }

starGSSTransportPath OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starentGSS 10 }

starGSSIPMPGroupName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starentGSS 11 }

starGSSInterfaceName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starentGSS 12 }

--

starentPDIFSys OBJECT IDENTIFIER ::= { starentMIBObjects 43 }

starPDIFSysStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

noservice(1),

active(2),

temporary(3),

outofservice(4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The overall status of the chassis as a PDIF service. A value of noservice(1) means that the chassis is not configured/licensed for PDIF; active(2) indicates that at least one PDIF service is available for processing sessions; temporary(3) indicates that PDIF is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no PDIF service is currently active, but one or more PDIF services are configured"

::= { starentPDIFSys 1 }

starPDIFSysNumService OBJECT-TYPE

SYNTAX Unsigned32

UNITS "Services"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDIF services configured"

::= { starentPDIFSys 2 }

starPDIFSysSessCurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of current PDIF sessions for this chassis"

```
::= { starentPDIFSys 3 }
```

```
starPDIFSysSessCurrActive OBJECT-TYPE
```

```
SYNTAX      Gauge32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
"The number of currently active PDIF sessions for this chassis"
```

```
::= { starentPDIFSys 4 }
```

```
starPDIFSysSessCurrDormant OBJECT-TYPE
```

```
SYNTAX      Gauge32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
"The number of currently dormant PDIF sessions for this chassis"
```

```
::= { starentPDIFSys 5 }
```

```
starPDIFSysSessTtlSetup OBJECT-TYPE
```

```
SYNTAX      Counter32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
"The cumulative total number of PDIF sessions that has been setup"
```

```
::= { starentPDIFSys 6 }
```

```
starPDIFSysChildSACurrent OBJECT-TYPE
```

```
SYNTAX      Gauge32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
"The number of current PDIF child SAs for this chassis"
```

```
::= { starentPDIFSys 7 }
```

```
--
```

```
starentPDIFService OBJECT IDENTIFIER ::= { starentMIBObjects 44 }
```

```
starPDIFTable OBJECT-TYPE
```

```
SYNTAX      SEQUENCE OF StarPDIFEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

```
"A table of per-service PDIF information"
```

```
::= { starentPDIFService 1 }
```

```
starPDIFEntry OBJECT-TYPE
```

```
SYNTAX      StarPDIFEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

```
"The information for a PDIF service"
```

```
INDEX { IMPLIED starPDIFSvcID }
```

```
::= { starPDIFTable 1 }
```

```
StarPDIFEntry ::=
```

```
SEQUENCE {
    starPDIFSvcID          StarShortID,
    starPDIFVpnID         Gauge32,
    starPDIFVpnName       DisplayString,
    starPDIFServName      DisplayString,
    starPDIFStatus        INTEGER,
    starPDIFSessCurrent   Gauge32,
    starPDIFSessRemain    Gauge32,
    starPDIFSessCurrentActive Gauge32,
    starPDIFSessCurrentDormant Gauge32,
```

```

starPDIFSessCurrentIpv6Active      Gauge32,
starPDIFSessCurrentIpv6Dormant    Gauge32,
starPDIFSessCurrentIpv4Active     Gauge32,
starPDIFSessCurrentIpv4Dormant    Gauge32,
starPDIFBindIpAddress              IpAddress,
starPDIFBindIpPort                 Integer32,
starPDIFBindSlot                   Integer32,
starPDIFBindPort                   Integer32
}

```

starPDIFSvcID OBJECT-TYPE

SYNTAX StarShortID

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:)"

::= { starPDIFEntry 1 }

starPDIFVpnID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The internal identification of the VPN (context). Note that this identifier can change due to configuration changes and/or the restart of the PDIF device; in general starPDIFVpnName should be used to identify the VPN (context)"

::= { starPDIFEntry 2 }

starPDIFVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The VPN (context) name"

::= { starPDIFEntry 3 }

starPDIFServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this service"

::= { starPDIFEntry 4 }

starPDIFStatus OBJECT-TYPE

```

SYNTAX INTEGER {
    unknown(0),
    inservice(1),
    outofservice(2)
}

```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of this PDIF service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault."

::= { starPDIFEntry 5 }

starPDIFSessCurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of current sessions for this PDIF service."

::= { starPDIFEntry 6 }

starPDIFSessRemain OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the remaining capacity for this PDIF service, in terms of sessions. If a session limit is configured for this PDIF service, starPDIFSessRemain will identify the difference between this limit and starPDIFSessCurrent. If no individual limit has been configured for this service, starPDIFSessRemain will identify the remaining capacity for the entire chassis. Note that in this latter case, the value for starPDIFSessRemain cannot be summed across multiple services."

::= { starPDIFEntry 7 }

starPDIFSessCurrentActive OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active sessions for this PDIF service"

::= { starPDIFEntry 8 }

starPDIFSessCurrentDormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant sessions for this PDIF service. Note that this value will always be 0, as the current system does not identify PDIF sessions as dormant."

::= { starPDIFEntry 9 }

starPDIFSessCurrentIpv6Active OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active IPv6 sessions for this PDIF service. Note that this value will always be 0, as the current system does not support IPv6 sessions."

::= { starPDIFEntry 10 }

starPDIFSessCurrentIpv6Dormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant IPv6 sessions for this PDIF service. Note that this value will always be 0, as the current system does not support IPv6 sessions."

::= { starPDIFEntry 11 }

starPDIFSessCurrentIpv4Active OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active IPv4 sessions for this PDIF service. Note that all PDIF sessions are currently identified as 'active', and the value for starPDIFSessCurrentIpv4Dormant will always be zero."

::= { starPDIFEntry 12 }

starPDIFSessCurrentIpv4Dormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant IPv4 sessions for this PDIF service. Note that all PDIF sessions are currently identified as 'active', so the value for starPDIFsessCurrentIPv4Dormant will always be zero."

::= { starPDIFEntry 13 }

starPDIFBindIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The bind IP address for this PDIF service"

::= { starPDIFEntry 14 }

starPDIFBindIpPort OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The bind IP port for this PDIF service"

::= { starPDIFEntry 15 }

starPDIFBindSlot OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The physical slot number for the physical port which holds the interface bound to the starPDIFBindIpAddress address."

::= { starPDIFEntry 16 }

starPDIFBindPort OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The physical port number for the physical port which holds the interface bound to the starPDIFBindIpAddress address."

::= { starPDIFEntry 17 }

--PDG - START

starentPDGSys OBJECT IDENTIFIER ::= { starentMIBObjects 62 }

starPDGSysStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

noservice(1),

active(2),

temporary(3),

outofservice(4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The overall status of the chassis as a PDG service. A value of noservice(1) means that the chassis is not configured/licensed for PDG; active(2) indicates that at least one PDG service is available for processing sessions; temporary(3) indicates that PDG is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no PDG service is currently active, but one or more PDG services are configured"

::= { starentPDGSys 1 }

starPDGSysNumService OBJECT-TYPE

SYNTAX Unsigned32

UNITS "Services"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of PDG services configured"

::= { starentPDGSys 2 }

starPDGSysSessCurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of current PDG sessions for this chassis"

::= { starentPDGSys 3 }

starPDGSysSessCurrActive OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active PDG sessions for this chassis"

::= { starentPDGSys 4 }

starPDGSysSessCurrDormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant PDG sessions for this chassis"

::= { starentPDGSys 5 }

starPDGSysSessTtlSetup OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The cumulative total number of PDG sessions that has been setup"

::= { starentPDGSys 6 }

starPDGSysChildSACurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of current PDG child SAs for this chassis"

::= { starentPDGSys 7 }

starentPDGService OBJECT IDENTIFIER ::= { starentMIBObjects 63 }

starPDGTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarPDGEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of per-service PDG information"

::= { starentPDGService 1 }

starPDGEntry OBJECT-TYPE

SYNTAX StarPDGEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The information for a PDG service"

INDEX { IMPLIED starPDGSvcID }

::= { starPDGTable 1 }

StarPDGEntry ::=

SEQUENCE {

```

starPDGSvcID      StarShortID,
starPDGVpnID      Gauge32,
starPDGVpnName    DisplayString,
starPDGServName   DisplayString,
starPDGStatus     INTEGER,
starPDGSessCurrent Gauge32,
starPDGSessRemain Gauge32,
starPDGSessCurrentActive Gauge32,
starPDGSessCurrentDormant Gauge32,
starPDGSessCurrentIpv6Active Gauge32,
starPDGSessCurrentIpv6Dormant Gauge32,
starPDGSessCurrentIpv4Active Gauge32,
starPDGSessCurrentIpv4Dormant Gauge32,
starPDGBindIpAddress IpAddress,
starPDGBindIpPort Integer32,
starPDGBindSlot   Integer32,
starPDGBindPort   Integer32

```

starPDGSvcID OBJECT-TYPE

SYNTAX StarShortID

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The service identification is made up from first 8 chars of context name and first 8 chars of service name separated by (:)"

::= { starPDGEntry 1 }

starPDGVpnID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The internal identification of the VPN (context). Note that this identifier can change due to configuration changes and/or the restart of the PDG device; in general starPDGVpnName should be used to identify the VPN (context)"

::= { starPDGEntry 2 }

starPDGVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The VPN (context) name"

::= { starPDGEntry 3 }

starPDGServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this service"

::= { starPDGEntry 4 }

starPDGStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

inservice(1),

outofservice(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of this PDG service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault."

::= { starPDGEntry 5 }

starPDGSessCurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of current sessions for this PDG service."

::= { starPDGEntry 6 }

starPDGSessRemain OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the remaining capacity for this PDG service, in terms of sessions. If a session limit is configured for this PDG service, starPDGSessRemain will identify the difference between this limit and starPDGSessCurrent. If no individual limit has been configured for this service, starPDGSessRemain will identify the remaining capacity for the entire chassis. Note that in this latter case, the value for starPDGSessRemain cannot be summed across multiple services."

::= { starPDGEntry 7 }

starPDGSessCurrentActive OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active sessions for this PDG service"

::= { starPDGEntry 8 }

starPDGSessCurrentDormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant sessions for this PDG service"

::= { starPDGEntry 9 }

starPDGSessCurrentIpv6Active OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active IPv6 sessions for this PDG service. Note that this value will always be 0, as the current system does not support IPv6 sessions."

::= { starPDGEntry 10 }

starPDGSessCurrentIpv6Dormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant IPv6 sessions for this PDG service. Note that this value will always be 0, as the current system does not support IPv6 sessions."

::= { starPDGEntry 11 }

starPDGSessCurrentIpv4Active OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active IPv4 sessions for this PDG service. Note that all PDG sessions are currently identified as 'active', and the value for starPDGSessCurrentIPv4Dormant will always be zero."

::= { starPDGEntry 12 }

starPDGSessCurrentIpv4Dormant OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently dormant IPv4 sessions for this PDG service. Note that all PDG sessions are currently identified as 'active', so the value for starPDGSessCurrentIPv4Dormant will always be zero."

::= { starPDGEntry 13 }

starPDGBindIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The bind IP address for this PDG service"

::= { starPDGEntry 14 }

starPDGBindIpPort OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The bind IP port for this PDG service"

::= { starPDGEntry 15 }

starPDGBindSlot OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The physical slot number for the physical port which holds the interface bound to the starPDGBindIpAddress address."

::= { starPDGEntry 16 }

starPDGBindPort OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The physical port number for the physical port which holds the interface bound to the starPDGBindIpAddress address."

::= { starPDGEntry 17 }

-- PDG End

-- HNBGW -START

starentHNBGWService OBJECT IDENTIFIER ::= { starentMIBObjects 65 }

starHNBGWServTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarHNBGWSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing HNBGW related information"

::= { starentHNBGWService 1 }

starHNBGWSEntry OBJECT-TYPE

SYNTAX StarHNBGWSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The statistics for a specific HNBGW service"

INDEX { starHNBGWSEntryVpnID, starHNBGWSEntrySvcID }

::= { starHNBGWSEntryTable 1 }

StarHNBGWSEntry ::=

SEQUENCE {

starHNBGWSEntryVpnID Gauge32,

starHNBGWSEntrySvcID Gauge32,

starSessHNBGWVpnName DisplayString,

starSessHNBGWSEntryName DisplayString,

starSessHNBGWSEntryCsNwName DisplayString,

starSessHNBGWSEntryPsNwName DisplayString,

starSessHNBGWSEntrySgsnPtCd Integer32,

starSessHNBGWSEntryMscPtCd Integer32

}

starHNBGWSEntryVpnID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The internal identification of the VPN (context)"

::= { starHNBGWSEntry 1 }

starHNBGWSEntrySvcID OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The internal identification of this service; unique within a specific context"

::= { starHNBGWSEntry 2 }

starSessHNBGWVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this VPN (context)"

::= { starHNBGWSEntry 3 }

starSessHNBGWSEntryName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

```
"The name of this Service"  
 ::= { starHNBGWSEntry 4 }
```

```
starSessHNBGWCsNwName OBJECT-TYPE
```

```
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
 "The name of the CS NW"  
 ::= { starHNBGWSEntry 5 }
```

```
starSessHNBGWPsNwName OBJECT-TYPE
```

```
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
 "The name of the PS NW"  
 ::= { starHNBGWSEntry 6 }
```

```
starSessHNBGWSgsnPtCd OBJECT-TYPE
```

```
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
 "SGSN Point Code"  
 ::= { starHNBGWSEntry 7 }
```

```
starSessHNBGWMscPtCd OBJECT-TYPE
```

```
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
 "MSC Point Code"  
 ::= { starHNBGWSEntry 8 }
```

```
--End of HNBGW Service
```

```
-- ALCAP Service
```

```
starentALCAPService OBJECT IDENTIFIER ::= { starentMIBObjects 66 }
```

```
starALCAPServTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF StarALCAPServEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
 "A table containing ALCAP relate information"  
 ::= { starentALCAPService 1 }
```

```
starALCAPServEntry OBJECT-TYPE
```

```
SYNTAX StarALCAPServEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
 "The statistics for a specific ALCAP service"  
 INDEX { starALCAPSerVpnID, starALCAPSerSvcID }  
 ::= { starALCAPServTable 1 }
```

```

StarALCAPServEntry ::=
  SEQUENCE {
    starALCAPSerVpnID      Gauge32,
    starALCAPSerSvcID      Gauge32,
    starSessALCAPVpnName   DisplayString,
    starSessALCAPServName  DisplayString,
    starSessALCAPAAL2NodeName DisplayString,
    starSessALCAPPathId    Integer32
  }

```

```

starALCAPSerVpnID OBJECT-TYPE
  SYNTAX      Gauge32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The internal identification of the VPN (context)"
  ::= { starALCAPServEntry 1 }

```

```

starALCAPSerSvcID OBJECT-TYPE
  SYNTAX      Gauge32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The internal identification of this service; unique within a specific context"
  ::= { starALCAPServEntry 2 }

```

```

starSessALCAPVpnName OBJECT-TYPE
  SYNTAX      DisplayString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The name of this VPN (context)"
  ::= { starALCAPServEntry 3 }

```

```

starSessALCAPServName OBJECT-TYPE
  SYNTAX      DisplayString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The name of this Service"
  ::= { starALCAPServEntry 4 }

```

```

starSessALCAPAAL2NodeName OBJECT-TYPE
  SYNTAX      DisplayString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The name of the AAL2 Node"
  ::= { starALCAPServEntry 5 }

```

```

starSessALCAPPathId OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The path id of AAL2 path"
  ::= { starALCAPServEntry 6 }

```



```
-- ALCAP END
```

```
--FNG - START
```

```
starentFNGSys OBJECT IDENTIFIER ::= { starentMIBObjects 60 }
```

```
starFNGSysStatus OBJECT-TYPE
```

```
SYNTAX INTEGER {
    unknown(0),
    noservice(1),
    active(2),
    temporary(3),
    outofservice(4)
}
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The overall status of the chassis as a FNG service. A value of noservice(1) means that the chassis is not configured/licensed for FNG; active(2) indicates that at least one FNG service is available for processing sessions; temporary(3) indicates that FNG is running in a temporary capacity, such as running in standby mode during an online upgrade; outofservice(4) indicates that no FNG service is currently active, but one or more FNG services are configured"

```
::= { starentFNGSys 1 }
```

```
starFNGSysNumService OBJECT-TYPE
```

```
SYNTAX Unsigned32
```

```
UNITS "Services"
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of FNG services configured"

```
::= { starentFNGSys 2 }
```

```
starFNGSysSessCurrent OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of current FNG sessions for this chassis"

```
::= { starentFNGSys 3 }
```

```
starFNGSysSessCurrActive OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of currently active FNG sessions for this chassis"

```
::= { starentFNGSys 4 }
```

```
starFNGSysSessCurrDormant OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of currently dormant FNG sessions for this chassis"

```
::= { starentFNGSys 5 }
```

```
starFNGSysSessTtlSetup OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The cumulative total number of FNG sessions that has been setup"

```
::= { starentFNGSys 6 }
```

starFNGSysChildSACurrent OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of current FNG child SAs for this chassis"
 ::= { starentFNGSys 7 }

starentFNGService OBJECT IDENTIFIER ::= { starentMIBObjects 61 }

starFNGTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarFNGEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "A table of per-service FNG information"
 ::= { starentFNGService 1 }

starFNGEntry OBJECT-TYPE

SYNTAX StarFNGEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The information for a FNG service"
 INDEX { IMPLIED starFNGSvcID }
 ::= { starFNGTable 1 }

StarFNGEntry ::=

SEQUENCE {
 starFNGSvcID StarShortID,
 starFNGVpnID Gauge32,
 starFNGVpnName DisplayString,
 starFNGServName DisplayString,
 starFNGStatus INTEGER,
 starFNGSessCurrent Gauge32,
 starFNGSessRemain Gauge32,
 starFNGSessCurrentActive Gauge32,
 starFNGSessCurrentDormant Gauge32,
 starFNGSessCurrentIpv6Active Gauge32,
 starFNGSessCurrentIpv6Dormant Gauge32,
 starFNGSessCurrentIpv4Active Gauge32,
 starFNGSessCurrentIpv4Dormant Gauge32,
 starFNGBindIpAddress IpAddress,
 starFNGBindIpPort Integer32,
 starFNGBindSlot Integer32,
 starFNGBindPort Integer32
 }

starFNGSvcID OBJECT-TYPE

SYNTAX StarShortID
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The service identification is made up from first 8 chars of context name
 and first 8 chars of service name separated by (:)"
 ::= { starFNGEntry 1 }

starFNGVpnID OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The internal identification of the VPN (context). Note that this identifier can change due to

configuration changes and/or the restart of the FNG device; in general starFNGVpnName should be used to identify the VPN (context)"

::= { starFNGEntry 2 }

starFNGVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The VPN (context) name"

::= { starFNGEntry 3 }

starFNGServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this service"

::= { starFNGEntry 4 }

starFNGStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

inservice(1),

outofservice(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of this FNG service. The value unknown(0) indicates that the system is unable to determine the status; inservice(1) indicates that the service is available for processing sessions; outofservice(2) indicates that the service is configured, but unavailable, either due to operator action or due to a fault."

::= { starFNGEntry 5 }

starFNGSessCurrent OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of current sessions for this FNG service."

::= { starFNGEntry 6 }

starFNGSessRemain OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the remaining capacity for this FNG service, in terms of sessions. If a session limit is configured for this FNG service, starFNGSessRemain will identify the difference between this limit and starFNGSessCurrent. If no individual limit has been configured for this service, starFNGSessRemain will identify the remaining capacity for the entire chassis. Note that in this latter case, the value for starFNGSessRemain cannot be summed across multiple services."

::= { starFNGEntry 7 }

starFNGSessCurrentActive OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active sessions for this FNG service"

::= { starFNGEntry 8 }

starFNGSessCurrentDormant OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The number of currently dormant sessions for this FNG service"
::= { starFNGEntry 9 }

starFNGSessCurrentIpv6Active OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The number of currently active IPv6 sessions for this FNG service. Note that this value will always be 0, as the current system does not support IPv6 sessions."
::= { starFNGEntry 10 }

starFNGSessCurrentIpv6Dormant OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The number of currently dormant IPv6 sessions for this FNG service. Note that this value will always be 0, as the current system does not support IPv6 sessions."
::= { starFNGEntry 11 }

starFNGSessCurrentIpv4Active OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The number of currently active IPv4 sessions for this FNG service. Note that all FNG sessions are currently identified as 'active', and the value for starFNGSessCurrentIPv4Dormant will always be zero."
::= { starFNGEntry 12 }

starFNGSessCurrentIpv4Dormant OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The number of currently dormant IPv4 sessions for this FNG service. Note that all FNG sessions are currently identified as 'active', so the value for starFNGSessCurrentIPv4Dormant will always be zero."
::= { starFNGEntry 13 }

starFNGBindIpAddress OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The bind IP address for this FNG service"
::= { starFNGEntry 14 }

starFNGBindIpPort OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The bind IP port for this FNG service"
::= { starFNGEntry 15 }

starFNGBindSlot OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only

```

STATUS current
DESCRIPTION
  "The physical slot number for the physical port which holds the interface
  bound to the starFNGBindIp address."
 ::= { starFNGEntry 16 }

```

```

starFNGBindPort OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The physical port number for the physical port which holds the interface
  bound to the starFNGBindIp address."
 ::= { starFNGEntry 17 }

```

```
-- FNG End
```

```
-- SGSN
```

```
starentSGSNService OBJECT IDENTIFIER ::= { starentMIBObjects 45 }
```

```

starSGSNSerTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarSGSNSerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "A table containing SGSN related information"
 ::= { starentSGSNService 1 }

```

```

starSGSNSerEntry OBJECT-TYPE
SYNTAX StarSGSNSerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "The statistics for a specific SGSN service"
INDEX { starSGSNSerVpnID, starSGSNSerSvcID }
 ::= { starSGSNSerTable 1 }

```

```

StarSGSNSerEntry ::=
SEQUENCE {
  starSGSNSerVpnID      Gauge32,
  starSGSNSerSvcID      Gauge32,
  starSessSGSNVpnName   DisplayString,
  starSessSGSNServName  DisplayString,
  starSessSGSNMcc       OCTET STRING,
  starSessSGSNMnc       OCTET STRING,
  starSessSGSNRncld     Gauge32,
  starSessSGSNHlrNum    OCTET STRING
}

```

```

starSGSNSerVpnID OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "The internal identification of the VPN (context)"
 ::= { starSGSNSerEntry 1 }

```

```

starSGSNSerSvcID OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "The internal identification of this service; unique within a specific context"

```

```
::= { starSGNSerEntry 2 }
```

```
starSessSGSNVpnName OBJECT-TYPE
```

```
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The name of this VPN (context)"
::= { starSGNSerEntry 3 }
```

```
starSessSGNServName OBJECT-TYPE
```

```
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The name of this service"
::= { starSGNSerEntry 4 }
```

```
starSessSGSNMcc OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..3))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Mobile Country Code"
::= { starSGNSerEntry 5 }
```

```
starSessSGSNMnc OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..3))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Mobile Network Code"
::= { starSGNSerEntry 6 }
```

```
starSessSGSNRncId OBJECT-TYPE
```

```
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The Id of the RNC "
::= { starSGNSerEntry 7 }
```

```
starSessSGSNHlrNum OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (1..16))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The Id of the HLR "
::= { starSGNSerEntry 8 }
```

```
--SS7Rd
```

```
starentSS7Rd OBJECT IDENTIFIER ::= { starentMIBObjects 46 }
```

```
starSS7RdTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF StarSS7RdEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table containing SS7Rd related information"
::= { starentSS7Rd 1 }
```

```
starSS7RdEntry OBJECT-TYPE
```

```
SYNTAX StarSS7RdEntry
MAX-ACCESS not-accessible
```

```

STATUS current
DESCRIPTION
    "The statistics for a specific ss7rd "
INDEX { starSS7rdId }
 ::= { starSS7RdTable 1 }

```

```

StarSS7RdEntry ::=
SEQUENCE {
    starSS7rdId      Gauge32,
    starSS7Pc        Gauge32,
    starSS7M3UAPsId Gauge32,
    starSS7M3UAPspld Gauge32,
    starSS7MTP3LinkSetId Gauge32,
    starSS7MTP3LinkId Gauge32,
    starSS7SCTPSelfAddr IpAddress,
    starSS7SCTPPeerAddr IpAddress,
    starSS7SCTPSelfPort Gauge32,
    starSS7SCTPPeerPort Gauge32,
    starSS7CongLevel   Gauge32,
    starSS7LocalCong   Gauge32,
    starSS7CauseString DisplayString
}

```

```

starSS7rdId OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "SS7 Routing Domain identification"
 ::= { starSS7RdEntry 1 }

```

```

starSS7Pc OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Point Code"
 ::= { starSS7RdEntry 2 }

```

```

starSS7M3UAPsId OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Peer Server identification"
 ::= { starSS7RdEntry 3 }

```

```

starSS7M3UAPspld OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Peer Server process identification"
 ::= { starSS7RdEntry 4 }

```

```

starSS7MTP3LinkSetId OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "MTP3 LinkSet Identifier"
 ::= { starSS7RdEntry 5 }

```

```

starSS7MTP3LinkId OBJECT-TYPE
SYNTAX Gauge32

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"MTP3 Link Identifier"
::= { starSS7RdEntry 6 }

starSS7SCTPSelfAddr OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The self end point IP Address"
::= { starSS7RdEntry 7 }

starSS7SCTPPeerAddr OBJECT-TYPE

SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The IP Address of the PeerNode"
::= { starSS7RdEntry 8 }

starSS7SCTPSelfPort OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The self end point sctp port"
::= { starSS7RdEntry 9 }

starSS7SCTPPeerPort OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The peer end point sctp port"
::= { starSS7RdEntry 10 }

starSS7CongLevel OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Congestion Level Value"
::= { starSS7RdEntry 11 }

starSS7LocalCong OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Local Congestion Value"
::= { starSS7RdEntry 12 }

starSS7CauseString OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Cause string for failure"
::= { starSS7RdEntry 13 }

--SCCP Network

starentSccpNw OBJECT IDENTIFIER ::= { starentMIBObjects 47 }


```

starSccpNwTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarSccpNwEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table containing Sccp Network related information"
 ::= { starentSccpNw 1 }

starSccpNwEntry OBJECT-TYPE
SYNTAX StarSccpNwEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The statistics for a specific Sccp Network"
INDEX { starSccpNwId }
 ::= { starSccpNwTable 1 }

StarSccpNwEntry ::=
SEQUENCE {
    starSccpNwId      Gauge32,
    starSccpSsn      Gauge32
}

starSccpNwId OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"SCCP Network Id"
 ::= { starSccpNwEntry 1 }

starSccpSsn OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Sub System Number"
 ::= { starSccpNwEntry 2 }

-- SGTP Service
starentSGTPService OBJECT IDENTIFIER ::= { starentMIBObjects 48 }

starSGTPSerTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarSGTPSerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table containing SGTP Service related information"
 ::= { starentSGTPService 1 }

starSGTPSerEntry OBJECT-TYPE
SYNTAX StarSGTPSerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The statistics for a specific SGTP service"
INDEX { starSGTPSerVpnID, starSGTPSerSvcID }
 ::= { starSGTPSerTable 1 }

StarSGTPSerEntry ::=
SEQUENCE {
    starSGTPSerVpnID      Gauge32,
    starSGTPSerSvcID      Gauge32,
    starSGTPVpnName      DisplayString,

```

```

starSGTPServName    DisplayString,
starSGTPSelfAddr    IPAddress,
starSGTPPeerAddr    IPAddress,
starSGTPSelfPort    Gauge32,
starSGTPPeerPort    Gauge32
}

```

starSGTPSerVpnID OBJECT-TYPE

```

SYNTAX    Gauge32
MAX-ACCESS not-accessible
STATUS    current
DESCRIPTION
"The internal identification of the VPN (context)"
::= { starSGTPSerEntry 1 }

```

starSGTPSerSvcID OBJECT-TYPE

```

SYNTAX    Gauge32
MAX-ACCESS not-accessible
STATUS    current
DESCRIPTION
"The internal identification of this service; unique within a specific context"
::= { starSGTPSerEntry 2 }

```

starSGTPVpnName OBJECT-TYPE

```

SYNTAX    DisplayString
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The name of this VPN (context)"
::= { starSGTPSerEntry 3 }

```

starSGTPServName OBJECT-TYPE

```

SYNTAX    DisplayString
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The name of this service"
::= { starSGTPSerEntry 4 }

```

starSGTPSelfAddr OBJECT-TYPE

```

SYNTAX    IPAddress
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The IP Address of the SGSN"
::= { starSGTPSerEntry 5 }

```

starSGTPPeerAddr OBJECT-TYPE

```

SYNTAX    IPAddress
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The IP Address of the PeerNode"
::= { starSGTPSerEntry 6 }

```

starSGTPSelfPort OBJECT-TYPE

```

SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"The self end point sctp port"
::= { starSGTPSerEntry 7 }

```

starSGTPPeerPort OBJECT-TYPE

```

SYNTAX    Gauge32
MAX-ACCESS read-only

```

```

STATUS current
DESCRIPTION
"The peer end point sgtp port"
::= { starSGTPSerEntry 8 }

```

```
-- IPMS
```

```
starentIPMSSEServer OBJECT IDENTIFIER ::= { starentMIBObjects 49 }
```

```

starIPMSSEServerTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarIPMSSEServerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table containing information on IPMS Servers"
::= { starentIPMSSEServer 1 }

```

```

starIPMSSEServerEntry OBJECT-TYPE
SYNTAX StarIPMSSEServerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Information about a particular IPMS Server"
INDEX { starIPMSSEServerVpnID, starIPMSSEServerAddr }
::= { starIPMSSEServerTable 1 }

```

```

StarIPMSSEServerEntry ::=
SEQUENCE {
    starIPMSSEServerVpnID      Gauge32,
    starIPMSSEServerAddr      IpAddress,
    starIPMSSEServerVpnName   DisplayString
}

```

```

starIPMSSEServerVpnID OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The internal identification of the VPN (context)"
::= { starIPMSSEServerEntry 1 }

```

```

starIPMSSEServerAddr OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"The IP address of the IPMS server within this VPN (context)"
::= { starIPMSSEServerEntry 2 }

```

```

starIPMSSEServerVpnName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The name of this VPN (context)"
::= { starIPMSSEServerEntry 3 }

```

```
-- Certificates
```

```
starentCert OBJECT IDENTIFIER ::= { starentMIBObjects 50 }
```

```

starCertTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarCertEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

```

"A table containing information on X.509 Certificates"

::= { starentCert 1 }

starCertEntry OBJECT-TYPE

SYNTAX StarCertEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a particular X.509 Certificate"

INDEX { IMPLIED starCertSerialNumber }

::= { starCertTable 1 }

StarCertEntry ::=

SEQUENCE {

starCertSerialNumber DisplayString,

starCertExpiryTime DateAndTime,

starCertIssuer DisplayString

}

starCertSerialNumber OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The serial number for the certificate"

::= { starCertEntry 1 }

starCertExpiryTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Certificate expiration date/time"

::= { starCertEntry 2 }

starCertIssuer OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Certificate issuer"

::= { starCertEntry 3 }

-- Files; defined for traps only

starentFile OBJECT IDENTIFIER ::= { starentMIBObjects 51 }

starFileTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarFileEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of files stored on a mass storage device"

::= { starentFile 1 }

starFileEntry OBJECT-TYPE

SYNTAX StarFileEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a particular file on a mass storage device"

INDEX { IMPLIED starFileName }

::= { starFileTable 1 }

StarFileEntry ::=

SEQUENCE {

```

        starFileName          DisplayString,
        starFileApplication  INTEGER
    }

starFileName OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS accessible-for-notify
    STATUS  current
    DESCRIPTION
        "The name (full path) of the file"
    ::= { starFileEntry 1 }

starFileApplication OBJECT-TYPE
    SYNTAX  INTEGER {
                unknown(0),
                systemfile(1),
                cdrmod(2)
            }
    MAX-ACCESS read-only
    STATUS  current
    DESCRIPTION
        "The application that owns this file"
    ::= { starFileEntry 2 }

-- FTP Servers, defined for use in traps only

starentFTPServ OBJECT IDENTIFIER ::= { starentMIBObjects 52 }

starFTPServTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF StarFTPServEntry
    MAX-ACCESS not-accessible
    STATUS  current
    DESCRIPTION
        "A table of FTP servers configured"
    ::= { starentFTPServ 1 }

starFTPServEntry OBJECT-TYPE
    SYNTAX  StarFTPServEntry
    MAX-ACCESS not-accessible
    STATUS  current
    DESCRIPTION
        "Information about a particular FTP Server"
    INDEX { starFTPServVpnID, starFTPServIpAddr }
    ::= { starFTPServTable 1 }

StarFTPServEntry ::=
    SEQUENCE {
        starFTPServVpnID  Unsigned32,
        starFTPServIpAddr  IpAddress,
        starFTPServVpnName  DisplayString
    }

starFTPServVpnID OBJECT-TYPE
    SYNTAX  Unsigned32
    MAX-ACCESS not-accessible
    STATUS  current
    DESCRIPTION
        "The internal identification of the VPN (context) used to reach this FTP server"
    ::= { starFTPServEntry 1 }

starFTPServIpAddr OBJECT-TYPE
    SYNTAX  IpAddress
    MAX-ACCESS accessible-for-notify
    STATUS  current
    DESCRIPTION
        "The IP address of the FTP server"

```

```
::= { starFTPServEntry 2 }
```

```
starFTPServVpnName OBJECT-TYPE
```

```
SYNTAX DisplayString
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The name of the VPN (context)"
```

```
::= { starFTPServEntry 3 }
```

```
---for cscf peer server
```

```
starentCSCFPeerServer OBJECT IDENTIFIER ::= { starentMIBObjects 53 }
```

```
starCSCFPeerServerTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF StarCSCFPeerServerEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A table containing PeerServer related information"
```

```
::= { starentCSCFPeerServer 1 }
```

```
starCSCFPeerServerEntry OBJECT-TYPE
```

```
SYNTAX StarCSCFPeerServerEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The statistics for a specific CSCF service"
```

```
INDEX { starCSCFPeerServerVpnID, starCSCFPeerServerSvcID }
```

```
::= { starCSCFPeerServerTable 1 }
```

```
StarCSCFPeerServerEntry ::=
```

```
SEQUENCE {
```

```
starCSCFPeerServerVpnID Gauge32,
```

```
starCSCFPeerServerSvcID Gauge32,
```

```
starCSCFPeerServerVpnName DisplayString,
```

```
starCSCFPeerServerSvcName DisplayString,
```

```
starCSCFPeerServerListName DisplayString,
```

```
starCSCFPeerServerName DisplayString,
```

```
starCSCFPeerServerState DisplayString
```

```
}
```

```
starCSCFPeerServerVpnID OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The internal identification of the VPN (context)"
```

```
::= { starCSCFPeerServerEntry 1 }
```

```
starCSCFPeerServerSvcID OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The internal identification of this CSCF service; unique within a specific context"
```

```
::= { starCSCFPeerServerEntry 2 }
```

```
starCSCFPeerServerVpnName OBJECT-TYPE
```

```
SYNTAX DisplayString
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The name of this VPN (context)"
```

```
::= { starCSCFPeerServerEntry 3 }
```

```
starCSCFPeerServerSvcName OBJECT-TYPE
```

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this CSCF-service"

::= { starCSCFPeerServerEntry 4 }

starCSCFPeerServerListName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the cscf-peer-server"

::= { starCSCFPeerServerEntry 5 }

starCSCFPeerServerName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the cscf-peer-server"

::= { starCSCFPeerServerEntry 6 }

starCSCFPeerServerState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of the cscf-peer-server"

::= { starCSCFPeerServerEntry 7 }

---end for cscf peer server

--

starentSDH OBJECT IDENTIFIER ::= { starentMIBObjects 54 }

starSDHTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarSDHEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table ..."

::= { starentSDH 1 }

starSDHEntry OBJECT-TYPE

SYNTAX StarSDHEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a specific ..."

INDEX { starSDHSlot, starSDHPort }

::= { starSDHTable 1 }

StarSDHEntry ::=

SEQUENCE {

 starSDHSlot Integer32,

 starSDHPort Integer32,

 starSDHOperState Integer32

}

starSDHSlot OBJECT-TYPE

SYNTAX Integer32(17..48)

MAX-ACCESS accessible-for-notify

```

STATUS    current
DESCRIPTION
    "The slot number for this port"
 ::= { starSDHEntry 1 }

```

```

starSDHPort OBJECT-TYPE
SYNTAX    Integer32(1..8)
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "The port number within this slot"
 ::= { starSDHEntry 2 }

```

```

starSDHOperState OBJECT-TYPE
SYNTAX    Integer32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "A bitmask indicating the state of SDH layer SCT.
        0x0000      Good
        0x0001      lais
        0x0002      linesd
        0x0004      linesf
        0x0010      lof
        0x0020      los
        0x0040      msrdi"
 ::= { starSDHEntry 3 }

```

```

starentSDHPath OBJECT IDENTIFIER ::= { starentMIBObjects 55 }

```

```

starSDHPathTable OBJECT-TYPE
SYNTAX    SEQUENCE OF StarSDHPathEntry
MAX-ACCESS not-accessible
STATUS    current
DESCRIPTION
    "A table ..."
 ::= { starentSDHPath 1 }

```

```

starSDHPathEntry OBJECT-TYPE
SYNTAX    StarSDHPathEntry
MAX-ACCESS not-accessible
STATUS    current
DESCRIPTION
    "Information about a specific ..."
INDEX { starSDHPathSlot, starSDHPathPort, starSDHPathNum }
 ::= { starSDHPathTable 1 }

```

```

StarSDHPathEntry ::=
SEQUENCE {
    starSDHPathSlot      Integer32,
    starSDHPathPort      Integer32,
    starSDHPathNum       Integer32,
    starSDHPathOperState Integer32
}

```

```

starSDHPathSlot OBJECT-TYPE
SYNTAX    Integer32(17..48)
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "The slot number for this port"
 ::= { starSDHPathEntry 1 }

```

```

starSDHPathPort OBJECT-TYPE

```



```
SYNTAX Integer32(1..8)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The port number within this slot"
 ::= { starSDHPathEntry 2 }
```

```
starSDHPathNum OBJECT-TYPE
SYNTAX Integer32(1..3)
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
    "The path number"
 ::= { starSDHPathEntry 3 }
```

```
starSDHPathOperState OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "A bitmask indicating the state of SDH Path HOP.
        0x0000      Good
        0x0001      hopathsd
        0x0002      hopathsf
        0x0020      ppdi
        0x0040      prdi
        0x0080      perdi
        0x0100      perdival
        0x0200      perdivaloff"
 ::= { starSDHPathEntry 4 }
```

```
starentE1Trib OBJECT IDENTIFIER ::= { starentMIBObjects 56 }
```

```
starE1TribTable OBJECT-TYPE
SYNTAX SEQUENCE OF StarE1TribEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table ..."
 ::= { starentE1Trib 1 }
```

```
starE1TribEntry OBJECT-TYPE
SYNTAX StarE1TribEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a specific ..."
INDEX { starE1TribSlot, starE1TribPort, starE1TribPath, starE1TribTug2, starE1TribTu12 }
 ::= { starE1TribTable 1 }
```

```
StarE1TribEntry ::=
SEQUENCE {
    starE1TribSlot      Integer32,
    starE1TribPort      Integer32,
    starE1TribPath      Integer32,
    starE1TribTug2      Integer32,
    starE1TribTu12      Integer32,
    starE1TribOperStateLOP Integer32,
    starE1TribOperState Integer32
}
```

```
starE1TribSlot OBJECT-TYPE
SYNTAX Integer32(17..48)
```

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The slot number for this port"

::= { starE1TribEntry 1 }

starE1TribPort OBJECT-TYPE

SYNTAX Integer32(1..8)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The port number within this slot"

::= { starE1TribEntry 2 }

starE1TribPath OBJECT-TYPE

SYNTAX Integer32(1..3)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starE1TribEntry 3 }

starE1TribTug2 OBJECT-TYPE

SYNTAX Integer32(1..7)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starE1TribEntry 4 }

starE1TribTu12 OBJECT-TYPE

SYNTAX Integer32(1..3)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starE1TribEntry 5 }

starE1TribOperStateLOP OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A bitmask indicating the state of SDH layer LOP.

0x0000	Good
0x0001	lopathsd
0x0002	lopathsf
0x0100	erdi
0x0200	rdi
0x0400	lop
0x0800	ais
0x1000	lom"

::= { starE1TribEntry 6 }

starE1TribOperState OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A bitmask

0x0000	Good
0x0001	inf
0x0002	insmf
0x0004	incmf
0x0008	ooof
0x0010	raicrc

```

        0x0020 cfebe
        0x0040 rai
        0x0080 rmai
    0x0100 aisd
        0x0200 red
        0x0400 ais
        0x0800 ts16aisd"
 ::= { starE1TribEntry 7 }

```

starentFractE1Trib OBJECT IDENTIFIER ::= { starentMIBObjects 58 }

starFractE1TribTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarFractE1TribEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table ..."

::= { starentFractE1Trib 1 }

starFractE1TribEntry OBJECT-TYPE

SYNTAX StarFractE1TribEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a specific ..."

INDEX { starFractE1TribSlot, starFractE1TribPort, starFractE1TribPath, starFractE1TribTug2, starFractE1TribTu12, starFractE1TribBundNum }

::= { starFractE1TribTable 1 }

StarFractE1TribEntry ::=

SEQUENCE {

```

    starFractE1TribSlot      Integer32,
    starFractE1TribPort      Integer32,
    starFractE1TribPath      Integer32,
    starFractE1TribTug2      Integer32,
    starFractE1TribTu12      Integer32,
    starFractE1TribBundNum   Integer32,
    starFractE1TribTimeslots DisplayString

```

}

starFractE1TribSlot OBJECT-TYPE

SYNTAX Integer32(17..48)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The slot number for this port"

::= { starFractE1TribEntry 1 }

starFractE1TribPort OBJECT-TYPE

SYNTAX Integer32(1..8)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The port number within this slot"

::= { starFractE1TribEntry 2 }

starFractE1TribPath OBJECT-TYPE

SYNTAX Integer32(1..3)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

" "

::= { starFractE1TribEntry 3 }

starFractE1TribTug2 OBJECT-TYPE

```
SYNTAX      Integer32(1..7)
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
    ""
```

```
::= { starFractE1TribEntry 4 }
```

```
starFractE1TribTu12 OBJECT-TYPE
```

```
SYNTAX      Integer32(1..3)
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
    ""
```

```
::= { starFractE1TribEntry 5 }
```

```
starFractE1TribBundNum OBJECT-TYPE
```

```
SYNTAX      Integer32(0..31)
MAX-ACCESS  not-accessible
STATUS      obsolete
DESCRIPTION
    ""
```

```
::= { starFractE1TribEntry 6 }
```

```
starFractE1TribTimeslots OBJECT-TYPE
```

```
SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    ""
```

```
::= { starFractE1TribEntry 7 }
```

```
--GPRSLink
```

```
starentGPRSLink OBJECT IDENTIFIER ::= { starentMIBObjects 57 }
```

```
starGPRSLinkTable OBJECT-TYPE
```

```
SYNTAX      SEQUENCE OF StarGPRSLinkEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "A table containing GPRSService Link related information"
```

```
::= { starentGPRSLink 1 }
```

```
starGPRSLinkEntry OBJECT-TYPE
```

```
SYNTAX      StarGPRSLinkEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "The link statistics for a specific GPRS service"
```

```
INDEX { starGPRSNsei }
```

```
::= { starGPRSLinkTable 1 }
```

```
StarGPRSLinkEntry ::=
```

```
SEQUENCE {
    starGPRSNsei      Gauge32,
    starGPRSNsvci     Gauge32,
    starGPRSBvci      Gauge32
}
```

```
starGPRSNsei OBJECT-TYPE
```

```
SYNTAX      Gauge32
MAX-ACCESS  accessible-for-notify
STATUS      current
DESCRIPTION
    "Network Service Entity Identifier"
```

```
::= { starGPRSLinkEntry 1 }
```

```

starGPRSNsvci OBJECT-TYPE
  SYNTAX Gauge32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Network Service Virtual Circuit Identifier"
  ::= { starGPRSLinkEntry 2 }

starGPRSBvci OBJECT-TYPE
  SYNTAX Gauge32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Base Station System GPRS(General Packet Radio Service) Protocol Virtual Circuit Identifier"
  ::= { starGPRSLinkEntry 3 }

-- end of GPRSLink

-- Files; defined for traps only

starentStorage OBJECT IDENTIFIER ::= { starentMIBObjects 59 }

starStorageTable OBJECT-TYPE
  SYNTAX SEQUENCE OF StarStorageEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "A table of mass storage devices"
  ::= { starentStorage 1 }

starStorageEntry OBJECT-TYPE
  SYNTAX StarStorageEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "Information about a particular file on a mass storage device"
  INDEX { starStorageSlot, IMPLIED starStorageName }
  ::= { starStorageTable 1 }

StarStorageEntry ::=
  SEQUENCE {
    starStorageSlot      Integer32,
    starStorageName      DisplayString,
    starStorageDeviceType INTEGER
  }

starStorageSlot OBJECT-TYPE
  SYNTAX Integer32(1..16)
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "The slot number of the card holding this storage device"
  ::= { starStorageEntry 1 }

starStorageName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS accessible-for-notify
  STATUS current
  DESCRIPTION
    "The name of the storage device"
  ::= { starStorageEntry 2 }

starStorageDeviceType OBJECT-TYPE
  SYNTAX INTEGER {
    unknown(0),
    independent(1),

```

```

        raid(2),
        raidmember(3)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The storage device type. A value of independent(1) means that the device can be
    accessed as a standalone device, and is not part of a raid array. A value of
    raid(2) means that this device is a raid array. A value of raidmember(3) means
    the device is part of a raid array, and thus cannot be read/written to
    outside of the raid array"
 ::= { starStorageEntry 3 }

-- MME S1 Associations; defined for traps only

starentMMES1Assoc OBJECT IDENTIFIER ::= { starentMIBObjects 67 }

starMMES1AssocTable OBJECT-TYPE
    SYNTAX SEQUENCE OF StarMMES1AssocEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A table of MME S1 Associations"
    ::= { starentMMES1Assoc 1 }

starMMES1AssocEntry OBJECT-TYPE
    SYNTAX StarMMES1AssocEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Information about a particular MME S1 Association"
    INDEX { starMMES1AssocSvcID, starMMES1AssocENBID }
    ::= { starMMES1AssocTable 1 }

StarMMES1AssocEntry ::=
    SEQUENCE {
        starMMES1AssocSvcID StarMediumID,
        starMMES1AssocENBID StarENBID,
        starMMES1AssocVpnName DisplayString,
        starMMES1AssocServName DisplayString
    }

starMMES1AssocSvcID OBJECT-TYPE
    SYNTAX StarMediumID
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The service identification is made up from the first 8 characters of the
        VPN name and the first 16 characters of the service name seperated by (:)"
    ::= { starMMES1AssocEntry 1 }

starMMES1AssocENBID OBJECT-TYPE
    SYNTAX StarENBID
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "The identification of the eNodeB"
    ::= { starMMES1AssocEntry 2 }

starMMES1AssocVpnName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The name of this VPN (context)"
    ::= { starMMES1AssocEntry 3 }

```

starMMES1AssocServName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this MME Service"

::= { starMMES1AssocEntry 4 }

-- MME S1 path; defined for traps only

starentMMES1Path OBJECT IDENTIFIER ::= { starentMIBObjects 70 }

starMMES1PathTable OBJECT-TYPE

SYNTAX SEQUENCE OF StarMMES1PathEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of MME S1 Path"

::= { starentMMES1Path 1 }

starMMES1PathEntry OBJECT-TYPE

SYNTAX StarMMES1PathEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information about a particular MME S1 Pathiation"

INDEX { starMMES1PathSvcID, starMMES1PathENBID }

::= { starMMES1PathTable 1 }

StarMMES1PathEntry ::=

SEQUENCE {

starMMES1PathSvcID StarMediumID,

starMMES1PathENBID StarENBID,

starMMES1PathVpnName DisplayString,

starMMES1PathServName DisplayString,

starMMES1PathSelfAddr IpAddress,

starMMES1PathSelfPort Gauge32,

starMMES1PathPeerAddr IpAddress,

starMMES1PathPeerPort Gauge32

}

starMMES1PathSvcID OBJECT-TYPE

SYNTAX StarMediumID

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The service identification is made up from the first 8 characters of the
VPN name and the first 16 characters of the service name seperated by (:)"

::= { starMMES1PathEntry 1 }

starMMES1PathENBID OBJECT-TYPE

SYNTAX StarENBID

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The identification of the eNodeB"

::= { starMMES1PathEntry 2 }

starMMES1PathVpnName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this VPN (context)"

::= { starMMES1PathEntry 3 }

starMMES1PathServName OBJECT-TYPE

SYNTAX DisplayString
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The name of this MME Service"
 ::= { starMMES1PathEntry 4 }

starMMES1PathSelfAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Interface IP Address"
 ::= { starMMES1PathEntry 5 }

starMMES1PathSelfPort OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Self port number"
 ::= { starMMES1PathEntry 6 }

starMMES1PathPeerAddr OBJECT-TYPE

SYNTAX IpAddress
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Interface IP Address"
 ::= { starMMES1PathEntry 7 }

starMMES1PathPeerPort OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Peer port number"
 ::= { starMMES1PathEntry 8 }

-- traps

starentTraps OBJECT IDENTIFIER ::= { starentMIB 2 }

-- Card Trap

starCardTempOverheat NOTIFICATION-TYPE

OBJECTS { starSlotNum,
 starCardTemperature }
 STATUS current
 DESCRIPTION

"The card has reached a temperature beyond its safe operating range.

Probable Cause: External temperature is too high; One or more fan failures; blockages the prevent fan air inflow/outflow.

Action to be Taken: Inspect chassis for any item that may be blocking chassis air flow. Verify adjacent equipment is not obstructing air flow. Verify that the fans are running via the CLI/EMS. Check air filters. Check chassis maintenance schedule to see if chassis needs routine air filter replacement. Verify room temperature is within acceptable operating conditions.

Clear Condition: This condition is cleared when the card reaches its operating temperature range or is removed from the system.

Condition Clear Alarm: This condition is cleared by a starCardTempOK notification.

This is not applicable to QVPC-SI and QVPC-DI"

```
--#SUMMARY "[Card %d] Card has overheated; measured temperature %d C"
--#ARGUMENTS {0,1}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 1 }
```

starCardTempOK NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardTemperature }
```

```
STATUS current
```

```
DESCRIPTION
```

"The temperature of the card is now within its safe operating range.

This notification is only generated if the card has previously generated a starCardTempOverheat notification.

Action to be Taken: No action required. The cause for the card overheat condition should be investigated. This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[Slot %d] Temperature OK (%d C)"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 2 }
```

starCardReset NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber }
```

```
STATUS obsolete
```

```
DESCRIPTION
```

"A reset operation has been invoked on the card. This trap is obsolete.

This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %-d] Card has been reset UUID %s"
--#ARGUMENTS {1,0,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 3 }
```

starCardRebootRequest NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"A Reboot operation has been invoked on this card by an administrator. If successful, a subsequent CardDown trap is typically generated.

Action to be Taken: No action required. If the reboot was not scheduled the admin logs can be examined to determine who invoked the reboot operation. This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %-d] Reboot operation invoked on card UUID %s"
--#ARGUMENTS {1,0,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 4 }
```

starCardUp NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"The card is up (operational). This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %-d] Card is up UUID %s"
--#ARGUMENTS {1,0, 2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 5 }
```

starCardVoltageFailure NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"A voltage regulation failure has been detected this card.

Probable Cause: Problem with incoming power; failure of power filters; hardware issue with card. Note that this is an extremely abnormal condition.

Action To Be Taken: Verify that the power supplied to the chassis is operating correctly; use the CLI/EMS to check the state of the chassis power filters; replace the card

Clear Condition: This is not a recoverable error except via restarting the card, so the condition is only cleared via a starCardUp or starCardActive notification.

This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[Card %s-%d] Voltage Failure UUID %s"
```

```
--#ARGUMENTS {1,0,2}
```

```
--#STATE NONOPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 6 }
```

starCardRemoved NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber}
```

```
STATUS current
```

```
DESCRIPTION
```

"A card has been removed from the chassis.

Probable Cause: An operator has physically unlocked and removed a card from the chassis

Action to be Taken: No action is required. If the card removal was unplanned, the admin logs can identify the time when the card was initially unlocked.

This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %s-%d] Card removed UUID %s"
```

```
--#ARGUMENTS {1,0,2}
```

```
--#STATE NONOPERATIONAL
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 7 }
```

starCardInserted NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber}
```

```
STATUS current
```

```
DESCRIPTION
```

"A card has been inserted into the chassis.This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %s-%d] Card inserted UUID $s"
```

```
--#ARGUMENTS {1,0,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 8 }
```

starCardBootFailed NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber}
```

```
STATUS current
```

```
DESCRIPTION
```

"A card has failed to startup properly. The card is not operational

Probable Cause: The system logs should contain additional information about the cause of the boot failure. This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %-s-%d] Card boot failure UUID %s"
--#ARGUMENTS {1,0,2}
--#STATE NONOPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 9 }
```

starCardFailed NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotSerialNumber }
STATUS obsolete
DESCRIPTION
```

"The card has failed and is no longer operational. This trap is obsolete and has been replaced with more specific traps to identify specific failures.This is not applicable to QVPC-SI."

```
::= { starentTraps 10 }
```

starCardSWFailed NOTIFICATION-TYPE

```
OBJECTS { starSlotNum }
STATUS obsolete
DESCRIPTION
```

"A unrecoverable software error has occurred on the card. This trap is obsolete and has been replaced with more specific traps to identify specific failures.This is not applicable to QVPC-SI."

```
::= { starentTraps 11 }
```

starCardRCCFailed NOTIFICATION-TYPE

```
OBJECTS { starSlotNum }
STATUS obsolete
DESCRIPTION
```

"The RCC has failed.

Probable Cause: A hardware failure on the RCC card. This trap is obsolete. This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[Card RCC-%d] Card failure"
--#ARGUMENTS {0}
--#STATE NONOPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 12 }
```

starCardMismatch NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotSerialNumber }
STATUS current
DESCRIPTION
```

"The card does not match its configuration, or the card does not match the slot it was inserted into, or the card is of an unsupported type.

Probable Cause: A card was inserted into a slot which was configured for a different type of card. For example, a Gigabit Ethernet card was inserted into a slot configured for a Fast Ethernet card.

A starCardUp or starCardActive notification would indicate that this condition has been cleared.This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %-s-%d] Card does not match system configuration UUID %s"
--#ARGUMENTS {1,0,2}
--#STATE NONOPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 13 }
```

starCardFailureLEDOn NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber}
STATUS obsolete
DESCRIPTION
```

"The failure LED is illuminated on the card. This trap is obsolete and has been replaced with more specific traps for specific failures.

This is not applicable to QVPC-SI and QVPC-DI."

::= { starentTraps 14 }

starCardFailureLEDOff NOTIFICATION-TYPE

OBJECTS { starSlotNum,
starCardType,
starSlotSerialNumber }

STATUS obsolete

DESCRIPTION

"The failure LED is no longer illuminated on the card. This notification is only generated if the card has previously generated a starCardFailureLEDOff notification. This trap is obsolete and has been replaced with more specific traps for specific failures. This is not applicable to QVPC-SI and QVPC-DI."

::= { starentTraps 15 }

starCardPACMigrateStart NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum }

STATUS deprecated

DESCRIPTION

"A PAC/PSC Migration operation has begun. The first varbind identifies the PAC/PSC being migrated away from; the second varbind identifies the PAC/PSC being migrated to.

Probable Cause: This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.

A starCardPACMigrateComplete is generated when the migration is completed"

--#SUMMARY "[Card PAC-%d] Migration start to card PAC-%d"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 16 }

starCardPACMigrateComplete NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum }

STATUS deprecated

DESCRIPTION

"A PAC/PSC Migration operation has successfully completed. The first varbind identifies the PAC/PSC that was migrated away from; the second varbind identifies the PAC/PSC that was migrated to."

--#SUMMARY "[Card PAC-%d] Migration completed from card PAC-%d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 17 }

starCardPACMigrateFailed NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum }

STATUS deprecated

DESCRIPTION

"A PAC/PSC Migration operation has failed. The first varbind identifies the PAC/PSC that was attempted to be migrated away from; the second varbind identifies the PAC/PSC that was attempted to be migrated to.

Probable Cause: The PAC/PSC being migrated to was removed or reset before the migration completed; the migration operation was terminated by an operator; or a software or hardware failure on either PAC/PSC involved in the migration operation.

The PAC/PSC in question will be reset; a starCardUp notification will be generated when the card is operational again."

--#SUMMARY "[Card PAC-%d] Migration failed to card PAC-%d"

--#ARGUMENTS {0,1}

```
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 18 }
```

starCardSPCSwitchoverStart NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starSlotNum }
STATUS deprecated
DESCRIPTION
```

"An SPC switchover operation has begun. The first varbind identifies the SPC being switched away from; the second varbind identifies the SPC being switched to. Note that since an SPC switchover can cause a momentary loss of communication through the management (SPIO) interface, it is possible that this trap will not be successfully delivered.

Probable Cause: This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.

Action to be Taken: If the SPC switchover was unplanned, the admin logs should be examined for the cause of the switchover. If the cause was a software failure, the system crash logs should be examined.

Clear Condition: Verify the SPC switchover completes successfully.

Clear Condition Alarm: A starCardSPCSwitchoverComplete is generated when the switchover operation has completed."

```
--#SUMMARY "[Card SPC-%d] Switchover started to card SPC-%d"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 19 }
```

starCardSPCSwitchoverComplete NOTIFICATION-TYPE

```
OBJECTS { starSlotNum }
STATUS deprecated
DESCRIPTION
```

"An SPC Switchover has completed successfully. The starSlotNum varbind identifies the new primary SPC

Action to be Taken: If the SPC switchover was unplanned, the admin logs should be examined for the cause of the switchover. If the cause was a software failure, the system crash logs should be examined."

```
--#SUMMARY "[Card SPC-%d] Switchover complete to card SPC-%d"
--#ARGUMENTS {0,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 20 }
```

starCardSPCSwitchoverFailed NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starSlotNum }
STATUS deprecated
DESCRIPTION
```

"An SPC switchover operation has failed. The first varbind identifies the SPC that was attempted to be switched away from; the second varbind identifies the SPC that was attempted to be switched to.

Probable Cause: The SPC being migrated to was removed or reset before the migration completed; the migration operation was terminated by an operator; or a software or hardware failure on either SPC.

Action to be Taken: Verify that both SPCs have the card locks in the locked position; examine the admin logs for the cause of the failure. If the cause was a software failure, the system crash logs should be examined.

Clear Condition: The SPC in question will be reset; a starCardUp notification will be generated when the card is operational again."

```
--#SUMMARY "[Card SPC-%d] Switchover failed to card SPC-%d"
```

```
--#ARGUMENTS {0,1}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 21 }
```

-- Fan Notifications

starFanFailed NOTIFICATION-TYPE

```
OBJECTS { starFanNum,
          starFanStatus }
```

```
STATUS current
```

```
DESCRIPTION
```

"One of more fans have failed on the indicated fan controller.

Probable Cause: A hardware failure on the fan tray. The fan tray should be replaced.

Action to be Taken: Verify there is no physical obstruction to the fans; Replace the fan tray.

Clear Condition: Verify the fans are running

Condition Clear Alarm: A starFanInserted notification will be generated when the fan tray is replaced.

This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[FTC] Fan failure fan number %d fan status %s"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 22 }
```

starFanRemoved NOTIFICATION-TYPE

```
OBJECTS { starFanNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A fan tray has been removed

Action to be Taken: Replace the fan tray

Clear Condition: Verify both fan trays are present and operational.

Condition Clear Alarm: A starFanInserted notification will be generated when the fan tray is replaced.

This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[FTC] Fan tray removed fan number %d"
```

```
--#ARGUMENTS {0}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 23 }
```

starFanInserted NOTIFICATION-TYPE

```
OBJECTS { starFanNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A fan tray has been inserted

This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[FTC] Fan tray inserted fan number %d"
```

```
--#ARGUMENTS {0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 24 }
```

-- Log Notifications.

starLogThreshold NOTIFICATION-TYPE

```
OBJECTS { starLogName,
```

```

    starLogCurSize,
    starLogMaxSize }
STATUS obsolete
DESCRIPTION
    "A system log has reached its maximum size. This trap is obsolete."
::= { starentTraps 25 }

```

-- CPU Notifications

```

starCPUBusy NOTIFICATION-TYPE
OBJECTS { starCPUSlot, starCPUNumber }
STATUS current
DESCRIPTION
    "The CPU is experiencing very high usage.

```

Probable Cause: For SPC/SMC CPUs this typically represents an abnormal amount of management (CLI, SNMP, CORBA) requests. For PAC/PSC cards this indicates that the system is reaching its capacity.

Action to be Taken: For SPC/SMC cards, this may be a transient condition because of a burst of management activity. Monitor the CPU usage and if it is persistently high, examine the CPU table to determine which management activity is causing the excessive usage. For PAC/PSC cards, this indicates the system is nearing its overall capacity. Monitor CPU usage and if it is persistently high, the system may need additional PACs/PSCs to keep up with the system load.

Clear Condition: Verify that CPU usage returned to a normal load. This can represent a transient condition; the trap will be periodically repeated if the condition persists."

```

--#SUMMARY "[Card %d] CPU %d is experiencing very high usage"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 26 }

```

```

starCPUMemoryLow NOTIFICATION-TYPE
OBJECTS { starCPUSlot, starCPUNumber }
STATUS current
DESCRIPTION

```

"The CPU is experiencing a low memory condition.

Probable Cause: For SPC CPUs this typically represents an abnormal number of management sessions, in particular CLI sessions. For PAC/PCS cards this indicates that the system is reaching its capacity.

Action to be Taken: For SPC cards, this may be a transient condition because of a burst of management activity. Monitor memory usage and if it is persistently high, examine the CPU table to determine which management activity is causing the excessive usage. Verify that large numbers of CLI sessions are not being generated and, if needed, terminate extra sessions. For PAC/PCS cards, this indicated the system is nearing its overall capacity. Monitor memory usage and if it is persistently high, the system may need additional PACs/PCSs or additional PAC/PCS memory to keep up with the system load.

Clear Condition: Verify that memory usage returned to a normal load. This can represent a transient condition; the trap will be periodically repeated if the condition persists."

```

--#SUMMARY "[Card %d] CPU %d is low on available memory"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 27 }

```

```

starCPUMemoryFailed NOTIFICATION-TYPE
OBJECTS { starCPUSlot, starCPUNumber }
STATUS current

```

DESCRIPTION

"The memory on this CPU has failed.

Probable Cause: This indicates a hardware problem.

Action to be Taken: Replace the failing card.

The card will be reset; a starCardUp will be generated if the card is restored to an operational state."

--#SUMMARY "[Card %d] CPU %d memory failure"

--#ARGUMENTS {0,1}

--#STATE NONOPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 28 }

starCPUFailed NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber }

STATUS current

DESCRIPTION

"The CPU has failed.

Probable Cause: This indicates a hardware problem.

Action to be Taken: Replace the failing card.

The card will be reset; a starCardUp will be generated if the card is restored to an operational state."

--#SUMMARY "[Card %d] CPU %d failure"

--#ARGUMENTS {0,1}

--#STATE NONOPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 29 }

starCPUWatchDogExpired NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber }

STATUS current

DESCRIPTION

"The watch dog timer has failed on this CPU.

Probable Cause; This could indicate an extremely busy CPU, a software problem, or a hardware issue.

Action to be Taken: Check the admin logs for an indication of the problem. Check the system crash logs for an indication of software problems. If the problem persists, replace the card.

Clear Condition: Verify that an SPC/SMC switchover or PAC/PSC migration completes successfully to recover from the failure condition.

Condition Clear Alarm: A starCardUp will be generated if the card is restored to an operational state."

--#SUMMARY "[Card %d] CPU %d watchdog expiry"

--#ARGUMENTS {0,1}

--#STATE NONOPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 30 }

-- NPU Manager Notifications

starNPUARPPoolExhausted NOTIFICATION-TYPE

OBJECTS { starNPUMgrNumber }

STATUS current

DESCRIPTION

"The ARP pool on this NPU manager is exhausted. When this occurs, the ARP entry isn't added and traffic to the local device is forwarded through a slower path.

Action To Be Taken: Reduce the total number of directly connected devices or clear ARP entries."

```
--#SUMMARY "[System] NPU ARP pool exhausted for NPU Manager %d"
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 31 }
```

-- Power Notifications

starPowerFilterUnitFailed NOTIFICATION-TYPE

OBJECTS { starPowerNumber }

STATUS deprecated

DESCRIPTION

"A Power Filter Unit (PFU) failed.

Probable Cause: The external power source has failed or has been disconnected, or a hardware failure on the PFU.

Action to be Taken: Verify that the input power to the power filter is operational and repair if needed. Verify that the connections to the power filter are intact and that the power filter is properly inserted into the chassis. Replace the power filter if required.

Clear Condition: Verify that both power filters are operating.

Condition Clear Alarm: A starPowerFilterAvail will be generated when the power filter is replaced."

```
--#SUMMARY "[Power %d] Power filter has failed."
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 32 }
```

starPowerFilterUnitUnavail NOTIFICATION-TYPE

OBJECTS { starPowerNumber }

STATUS current

DESCRIPTION

"A Power Filter Unit (PFU) is unavailable.

Probable Cause: The power filter has been removed from the chassis, or no power is being provided to the PFU.

Action to be Taken: If the power filter removal wasn't planned, Verify that the input power to the power filter is operational and repair if needed. Verify that the connections to the power filter are intact and that the power filter is properly inserted into the chassis. Replace the power filter if required.

Clear Condition: Verify that both power filters are operating.

Condition Clear Alarm: A starPowerFilterUnitAvail will be generated when the power filter is replaced.

This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[Power %d] Power filter has been removed"
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 33 }
```

starPowerFilterUnitAvail NOTIFICATION-TYPE

OBJECTS { starPowerNumber }

STATUS current

DESCRIPTION

"A Power Filter Unit (PFU) is available. This typically means that a PFU has been inserted

into the chassis or has its power source restored.

Action to be Taken: No action required

This is not applicable to QVPC-SI and QVPC-DI."

--#SUMMARY "[Power %d] Power filter is available"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 34 }

starAlertsDisabled NOTIFICATION-TYPE

OBJECTS { starMaxAlertsPerTime,
starWindowTime }

STATUS current

DESCRIPTION

"The sending of SNMP Traps has been disabled because too many alerts were generated within the defined window type

Probable Cause: Either a large number of SNMP notifications are being generated, or the configured threshold which limits the number of notifications is set too aggressively.

Actions to be Taken: Examine the admin logs and the SNMP trap logs to determine the source of the large number of traps and take appropriate actions; verify that the configured limit for the rate at which traps will be sent is appropriate for your environment.

Clear Condition Alarm: When the rate of SNMP notifications goes down a starAlertsEnabled notification is generated"

--#SUMMARY "[System] SNMP alerts disabled; %d alerts generated in %d seconds"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY MINOR

::= { starentTraps 37 }

starAlertsEnabled NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"The sending of SNMP Traps has been reenabled"

--#SUMMARY "[System] SNMP alert re-enabled"

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 38 }

-- AAA Failures

starAAAAuthServerUnreachable NOTIFICATION-TYPE

OBJECTS { radiusAuthServerIndex, radiusAuthServerAddress }

STATUS current

DESCRIPTION

"The Authentication, Authorization and Accounting (AAA) server cannot be reached.

Probable Cause: The AAA server is down, or there is a network issue preventing communication with the AAA server.

Actions to be Taken: Restore the AAA server to an operational status; Verify that the AAA server is reachable by performing a 'ping' operation from the CLI in the appropriate context. Check the admin logs for notification of communication problems.

Clear Condition: Verify that communication to the AAA authentication server has been restored.

Condition Clear Alarm: When this condition clears a starAAAAuthServerReachable notification will be generated."

```
--#SUMMARY "[System] AAA Authentication Server %d (%s) is unreachable"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 39 }
```

starAAAAuthServerReachable NOTIFICATION-TYPE

OBJECTS { radiusAuthServerIndex, radiusAuthServerAddress }

STATUS current

DESCRIPTION

"The Authentication, Authorization and Accounting (AAA) server is now reachable. This can be the result of a system startup, the configuration of a new server, or a previously unreachable server becoming reachable.

Action to be Taken: No Action Required."

```
--#SUMMARY "[System] AAA Authentication Server %d (%s) is reachable"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 40 }
```

starAAAAuthServerMisconfigured NOTIFICATION-TYPE

OBJECTS { radiusAuthServerIndex, radiusAuthServerAddress }

STATUS current

DESCRIPTION

"The Authentication, Authorization and Accounting (AAA) server has been misconfigured. This server is not usable until this condition is repaired.

Action to be Taken: Examine the system configuration and correct the misconfiguration. See the user documentation for details on AAA configuration.

Clear Condition: Verify that communication to the AAA authentication server has been restored.

Condition Clear Alarm: When this condition clears a starAAAAuthServerReachable notification will be generated."

```
--#SUMMARY "[System] AAA Authentication Server %d (%s) is misconfigured"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 41 }
```

starAAAAccServerUnreachable NOTIFICATION-TYPE

OBJECTS { radiusAccServerIndex, radiusAccServerAddress }

STATUS current

DESCRIPTION

"The Authentication, Authorization and Accounting (AAA) server cannot be reached.

Probable Cause: The AAA server is down, or there is a network issue preventing communication with the AAA server.

Actions to be Taken: Restore the AAA server to an operational status; Verify that the AAA server is reachable by performing a 'ping' operation from the CLI in the appropriate context. Check the admin logs for notification of communication problems.

Clear Condition: Verify that communication to the AAA accounting server has been restored.

Condition Clear Alarm: When this condition clears a starAAAAccServerReachable notification will be generated."

```
--#SUMMARY "[System] AAA Accounting Server %d (%s) is unreachable"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
::= { starentTraps 42 }
```

starAAAAccServerReachable NOTIFICATION-TYPE

```
OBJECTS { radiusAccServerIndex, radiusAccServerAddress }
```

```
STATUS current
```

```
DESCRIPTION
```

"The Authentication, Authorization and Accounting (AAA) server is now reachable. This can be the result of a system startup, the configuration of a new server, or a previously unreachable server becoming reachable.

Note that since Accounting servers are not responding to 'hello'-type messages, it is not always possible to accurately determine when an accounting server is reachable. A server may be declared 'reachable' when the ST16 is ready to start using the server, but before any acknowledgement is actually received from the server. Once accounting information actually is sent to the server a starAAAAccServerUnreachable will be generated if the server does not properly respond.

Action to be Taken: No Action Required."

```
--#SUMMARY "[System] AAA Accounting Server %d (%s) is reachable"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 43 }
```

starAAAAccServerMisconfigured NOTIFICATION-TYPE

```
OBJECTS { radiusAccServerIndex, radiusAccServerAddress }
```

```
STATUS current
```

```
DESCRIPTION
```

"The Authentication, Authorization and Accounting (AAA) server has been misconfigured. This server is not usable until this condition is repaired.

Action to be Taken: Examine the system configuration and correct the misconfiguration. See the user documentation for details on AAA configuration.

Clear Condition: Verify that communication to the AAA authentication server has been restored.

Condition Clear Alarm: When this condition clears a starAAAAccServerReachable notification will be generated."

```
--#SUMMARY "[System] AAA Accounting Server %d (%s) is misconfigured"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 44 }
```

```
--- Log Message, debugging use only
```

starLogMsg NOTIFICATION-TYPE

```
OBJECTS { starLogText }
```

```
STATUS current
```

```
DESCRIPTION
```

"A log message. This trap is used only for debugging. This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[System] Log message: %s"
```

```
--#ARGUMENTS {0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 45 }
```

```
--- Service Traps
```

starPDSNServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

DESCRIPTION

"A PDSN Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service PDSN-%s-%s] PDSN service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 46 }

starPDSNServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A PDSN Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the PDSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PDSN service is operational.

Condition Clear Alarm: A starPDSNServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service PDSN-%s-%s] PDSN service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 47 }

starHAServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An HA Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service HA-%s-%s] HA service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 48 }

starHAServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An HA Service has stopped

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the PDSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PDSN service is operational.

Condition Clear Alarm: A starHAServiceStart notification will be generated when

the service is restarted"

--#SUMMARY "[Service HA-%s-%s] HA service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 49 }

starFAServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An FA Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service FA-%s-%s] FA service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 50 }

starFAServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An FA Service has stopped

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the FA service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the FA service is operational.

Condition Clear Alarm: A starFAServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[FA %s-%s] FA service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 51 }

starCLISessionStart NOTIFICATION-TYPE

OBJECTS { starCLIUsername, starCLIPrivs, starCLITtyname }

STATUS current

DESCRIPTION

"An interactive CLI session has started

A starCLISessionEnd notification will be sent when the CLI session is terminated."

--#SUMMARY "[System] CLI session for %s %s started on %s"

--#ARGUMENTS {1,0,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 52 }

starCLISessionEnd NOTIFICATION-TYPE

OBJECTS { starCLIUsername, starCLIPrivs, starCLITtyname }

STATUS current

DESCRIPTION

"An interactive CLI session has ended.

The CLI session may have been terminated by the CLI user; the session

may have expired due to an idle timeout, or a session timeout; or the session may have been terminated by operator intervention."

```
--#SUMMARY "[System] CLI session for %s %s ended on %s"
--#ARGUMENTS {1,0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 53 }
```

starCritTaskFailed NOTIFICATION-TYPE

```
OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard, starTaskCPU }
STATUS current
DESCRIPTION
```

"A critical task has failed and the appropriate recovery steps begun.
The card containing the failed task will be restarted; migration/recovery operations will proceed.

Probable Cause: Software error

Actions to be Taken: Examine the admin logs for an indication of the source of the failure.

Clear Condition: Verify that an SPC switchover or PAC/PSC migration completes to recover from this condition.

Condition Clear Alarm: A starCardUp will be generated when the card has successfully restarted."

```
--#SUMMARY "[Card %d] Task %s/%d on CPU %d has failed"
--#ARGUMENTS {2,0,1,3}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 54 }
```

starCardActive NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber}
STATUS current
DESCRIPTION
```

"The card is now active. This is not applicable to QVPC-SI."

```
--#SUMMARY "[%s-%d] Card is active UUID %s"
--#ARGUMENTS {1,0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 55 }
```

starLACServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A LAC Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service LAC-%s-%s] LAC service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 56 }
```

starLACServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A LAC Service has stopped

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to

support the running configuration.

Action to be Taken: If the LAC service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the LAC service is operational.

Condition Clear Alarm: A starLACServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service LAC-%s-%s] LAC service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 57 }
```

starLNSServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A LNS Service has started
```

Action to be Taken: No Action Required"

```
--#SUMMARY "[Service LNS-%s-%s] LNS service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 58 }
```

starLNSServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A LNS Service has stopped
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the LNS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the LNS service is operational.

Condition Clear Alarm: A starLNSServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service LNS-%s-%s] LNS service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 59 }
```

starCardDown NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,
  starCardType,
  starSlotSerialNumber}
STATUS current
DESCRIPTION
  "The card is now down.
```

Probable Cause: The card was shut down by an operator; the card was removed by an operator; or a hardware or software fault caused the card to shut down. In the latter case an additional notification is

generated with the specific failure.

Action to be Taken: If the card shutdown was not planned, verify that the card is present in the system and its card lock is in the locked position. Check the admin logs for the cause of the card shutdown.

Clear Condition: Verify that an SPC switchover/card migration completes to recover from the card shutdown.

Condition Clear Alarm: A starCardUp notification is generated when the card is restarted.

This is not applicable to QVPC-SI."

```
--#SUMMARY "[Card %s-%d] Card down UUID %s"
```

```
--#ARGUMENTS {1,0,2}
```

```
--#STATE NONOPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 60 }
```

```
-- The Following two traps are using the Standard MIB
```

```
-- See rfc2495 and rfc2496
```

```
-- ds3Traps OBJECT IDENTIFIER ::= { ds3 15}
```

```
-- starDsx3LineStatusChange NOTIFICATION-TYPE
```

```
-- ::= { starentTraps 61 }
```

```
-- severity INFORMATIONAL
```

```
-- This is not applicable to QVPC-SI and QVPC-DI.
```

```
-- ds1Traps OBJECT IDENTIFIER ::= { ds1 15}
```

```
-- starDsx1LineStatusChange NOTIFICATION-TYPE
```

```
-- ::= { starentTraps 62 }
```

```
-- severity INFORMATIONAL
```

```
-- This is not applicable to QVPC-SI and QVPC-DI.
```

```
starGGSNServiceStart NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A GGSN Service has started"
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service GGSN-%s-%s] GGSN service has started"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 63 }
```

```
starGGSNServiceStop NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A GGSN Service has stopped"
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the GGSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the GGSN service is operational.

Condition Clear Alarm: A starGGSNServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service GGSN-%s-%s] GGSN service has stopped"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 64 }
```

starLicenseExceeded NOTIFICATION-TYPE

```
OBJECTS { starLicensedSessions, starCurrentSessions, starServiceType }
STATUS current
DESCRIPTION
```

"The licenses session limit has been exceeded; note that a small number of sessions are permitted beyond the licensed limit.

Probable Cause: The usage of the system has exceeded the capacity of the license installed; The license installed does not match the identification of the system; No license is installed

Action to be Taken: Verify that the proper license is installed on the system; verify that the SPCs present in the system match those identified in the software license. If required, install an additional higher-capacity license.

Clear Condition: This condition is cleared when usage goes under the licensed limit.

Condition Clear Alarm: This condition is cleared by a starLicenseUnderLimit notification."

```
--#SUMMARY "[System] License Exceeded for %s service; current sessions %d exceeds license %d"
--#ARGUMENTS {2,0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 65 }
```

starSubscriberLimit NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starServiceSubLimit, starServiceSubCurrent, starServiceType }
STATUS current
DESCRIPTION
```

"The specified service has reached its configured limit for number of subscribers

Action to be Taken: Verify that the configured subscriber limit is correct. Configure additional services, or configure the existing service to permit a larger number of subscribers"

```
--#SUMMARY "[System] License Exceeded for %s service %s-%s; current sessions %d exceeds license %d"
--#ARGUMENTS {4,0,1,3,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 66 }
```

starSessionRejectNoResource NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceType }
STATUS current
DESCRIPTION
```

"A session setup was rejected because of a lack of available resources

Probable Cause: The system has reached its maximum capacity based on the number of available PACs/PSCs/CPUs/memory.

Actions to be Taken: Examine the system CPU table to determine if there is abnormal system usage or if the system is reaching its capacity. If this condition persists, additional PACs/PSCs or PAC/PSC memory may be required. Note that there is a configuration threshold which can be setup to monitor the number of NORESOURCE rejects."

```
--#SUMMARY "[System] Session rejected NORESOURCE for %s service of type %d"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 67 }
```

starLongDurTimerExpiry NOTIFICATION-TYPE

OBJECTS { starSubContext, starSubMSID, starSubName, starSubTimerDuration, starSubLongDurTimeoutAction, starSubSetupTime, starSubHomeAddr, starSubHomeAddrv6 }

STATUS current

DESCRIPTION

"The long duration timer has expired for the identified subscriber.

Note that either starSubHomeAddr or starSubHomeAddrv6 is typically filled in, as appropriate. The other attribute will be all zero octets.

Action to be Taken: No action is typically required. If an abnormal number of expiries occur, verify that the configuration expiry time is correct"

--#SUMMARY "[System] context %s subscriber name %s MSID %s timer duration %d timeout action %d setup time %s home address(ipv4/ipv6) %s"

--#ARGUMENTS {0,2,1,3,4,5,6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 68 }

starClosedRPServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"Closed RP Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service CLOSEDRP-%s-%s] Closed RP service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 69 }

starClosedRPServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"Closed RP Service has stopped

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the Closed RP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the Closed RP service is operational.

Condition Clear Alarm: A starClosedRPServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service CLOSEDRP-%s-%s] Closed RP service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 70 }

starGtpcPathFailure NOTIFICATION-TYPE

OBJECTS {starSessGGSNVpnName, starSessGGSNServName, starSessGGSNPeerAddr }

STATUS current

DESCRIPTION

"GTP Control Path Failure."

--#SUMMARY "[Service GGSN-%s-%s] GTP control path failure to %s"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

```
--#SEVERITY MAJOR
::= { starentTraps 71 }
```

starGtpuPathFailure NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNServName, starSessGGSNPeerAddr }
STATUS current
DESCRIPTION
    "GTP Data Path Failure."
--#SUMMARY "[Service GGSN-%s-%s] GTP data path failure to %s"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 72 }
```

starManagerFailure NOTIFICATION-TYPE

```
OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard, starTaskCPU}
STATUS current
DESCRIPTION
    "Software manager Failure.

    Probable Cause: A software failure. The failing manager will be restarted.

    Action to be Taken: Examine the admin and crash logs for more information
    about the failure"
--#SUMMARY "[System] Manager %s/%d failure on card %d cpu %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 73 }
```

starEISServerAlive NOTIFICATION-TYPE

```
OBJECTS { starEISServerVPNName, starEISServerAddr }
STATUS current
DESCRIPTION
    "EIS Server alive"
--#SUMMARY "[System] EIS server alive, VPN %d Server Address %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 74 }
```

starEISServerDead NOTIFICATION-TYPE

```
OBJECTS { starEISServerVPNName, starEISServerAddr }
STATUS current
DESCRIPTION
    "EIS Server down.

    Probable Cause: The remote EIS server is down or there is a network
    error making it unreachable.

    Condition Clear Alarm: A starEISServerAlive notification will be generated
    when this condition is cleared"
--#SUMMARY "[System] EIS server dead, VPN %d Server Address %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 75 }
```

starCgfAlive NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerPort, starSessGGSNPeerAddr }
STATUS current
DESCRIPTION
    "GTPP CGF Server Alive."
--#SUMMARY "[System] GTPP CGF server alive, VPN %s Server Address %s/%d"
--#ARGUMENTS {0,2,1}
--#STATE OPERATIONAL
```

--#SEVERITY INFORMATIONAL

::= { starentTraps 76 }

starCgfDead NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerPort, starSessGGSNPeerAddr }

STATUS current

DESCRIPTION

"GTPP CGF Server Dead.

Probable Cause: The remote CGF server is down or there is a network error making it unreachable.

Action to be Taken: Verify that the CGF server is functioning properly; verify network connectivity to the CGF server.

Clear Condition: This condition is cleared when the CGF server becomes reachable.

Condition Clear Alarm: A starCgfServerAlive notification will be generated when this condition is cleared"

--#SUMMARY "[System] GTPP CGF server dead, VPN %s Server Address %s/%d"

--#ARGUMENTS {0,2,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 77 }

starStorageServerAlive NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr }

STATUS current

DESCRIPTION

"GTPP Storage Server is Alive."

--#SUMMARY "[System] GTPP Storage Server alive, VPN %s Server Address %s"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 78 }

starStorageServerDead NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr }

STATUS current

DESCRIPTION

"GTPP Storage Server is Dead.

Probable Cause: The remote Storage server is down or there is a network error making it unreachable.

Action to be Taken: Verify that the Storage server is functioning properly; verify network connectivity to the Storage server.

Clear Condition: This condition is cleared when the Storage server becomes reachable.

Condition Clear Alarm: A starStorageServerAlive notification will be generated when this condition is cleared"

--#SUMMARY "[System] GTPP Storage Server dead, VPN %s Server Address %s"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY CRITICAL

::= { starentTraps 79 }

starGgsnInitiatedUpdtFailed NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNServName, starSessGGSNSubsName, starSessGGSNAPNName, starSessGGSNImsi, starSessGGSNPeerAddr }

STATUS current

DESCRIPTION

"GGSN Initiated Update PDP Context Response Failed.

Probable Cause: This can happen if there is an inter-SGSN handoff and the new SGSN is not listed in GGSN service and its PLMN policy is set to reject unknown SGSNs.

Action to be Taken: List the SGSN address in the GGSN service.

Condition Clear Alarm: NA"

```
--#SUMMARY "[System] SGSN Initiated Update PDP context response failed for APN %s Imsi %d, VPN %s Server Address %s"
--#ARGUMENTS {3,4,0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 80 }
```

starCongestion NOTIFICATION-TYPE

```
OBJECTS { starServiceType, starCongestionPolicy, starCongestionResourceType }
STATUS current
DESCRIPTION
```

"A congestion condition has occurred.

Probable Cause: This is the result of an operator-configured congestion threshold being reached. This can be due to high usage of the resource being monitored which indicates that the IMG is reaching its peak capacity, or could be caused by the incorrect configuration of the congestion thresholds.

Actions to be Taken: Verify that the congestion thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

This system is cleared when the use of the specific resource falls below the configured limit.

Condition Clear Alarm: A starCongestionClear notification is sent when there are no congestion conditions for a service type"

```
--#SUMMARY "[System] Congestion seen for %s service; resource %s, policy %s applied"
--#ARGUMENTS {0,2,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 81 }
```

starCongestionClear NOTIFICATION-TYPE

```
OBJECTS { starServiceType }
STATUS current
DESCRIPTION
```

"A congestion condition has cleared"

```
--#SUMMARY "[System] Congestion clear for %s service"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 82 }
```

starServiceLossPTACs NOTIFICATION-TYPE

```
OBJECTS { starCardMode, starPTACConfig, starPTACActive }
STATUS current
DESCRIPTION
```

"A service loss condition has occurred due to PAC/PSC/TAC failure or removal.

Probable cause: Multiple PAC/PSC/TAC cards are no longer available, due to failure, removal, or operator action -- or configuration changes have been made which eliminated the availability of redundant cards.

Action to be Taken: Bring additional PAC/PSC/TAC cards online to match the number of configured cards, or update the configuration to require fewer active PAC/PSC/TAC cards.

Clear Condition: This condition is cleared when the number of active PAC/PSC/TAC cards reaches or exceeds the configured number."

```
--#SUMMARY "[System] Service Loss - Not enough PAC/PSC/TACs, %d configured, %d active"
--#ARGUMENTS {1,2}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 83 }
```

starServiceLossLC NOTIFICATION-TYPE

OBJECTS { starCardType, starSlotNum, starSlotNum }

STATUS current

DESCRIPTION

"A service loss condition has occurred due to LC failure or removal.

Probable cause: The upper and lower Line Cards (LCs) are both no longer available, due to failure, removal, or operator action.

Action to be Taken: Fix or replace the line cards.

Clear Condition: This condition is cleared when one of the two card becomes active."

```
--#SUMMARY "[System] Service Loss - (%s) Line Cards %d and %d are both unavailable"
--#ARGUMENTS {0,1,2}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 84 }
```

starServiceLossSPIO NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A service loss condition has occurred due to SPIO failure or removal.

NOTE: Since the SPIO contains the ports used for SNMP access, this notification cannot normally be delivered as an SNMP trap. The notification will be logged and stored in the historical trap list, and if the system is configured to send INFORM PDUs the notification might be delivered at a later time.

Probable cause: Both SPIOs are no longer available, due to failure, removal, or operator action.

Action to be Taken: Bring at least one SPIO online.

Clear Condition: This condition is cleared when a SPIO is made active"

```
--#SUMMARY "[System] Service Loss - No SPIO is available"
--#STATE OPERATIONAL
--#SEVERITY WARNING
--NB: Lower severity than other 'service loss' traps as the SPIO does not carry
-- end-user traffic.
::= { starentTraps 85 }
```

-- IPSP trap

starIPSPAllAddrsFree NOTIFICATION-TYPE

OBJECTS { starContextName, starInterfaceName }

STATUS obsolete

DESCRIPTION

"All IP addresses are now free on the IP Pool Sharing Protocol (IPSP) primary HA.

Probable Cause: IP Pool Sharing Protocol (IPSP) is running between two HAs (a primary and a secondary). The primary HA has now released the last address that was in use. This presumably is done in preparation for taking the primary HA out of service.

User Action: Perform the desired maintenance on the primary HA that required taking the device out of service."

```
--#SUMMARY "[System] IPSP - all IP addresses are now free, context %s interface %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 86 }
```

-- PCF trap

```
starPCFUnreachable NOTIFICATION-TYPE
OBJECTS { starContextName, starPCFAddress }
STATUS current
DESCRIPTION
```

"A PCF that the IMG communicates which is no longer reachable.

Probable Cause: The PCF has failed or is otherwise unavailable, or a network connectivity problem makes it unreachable.

Action to be Taken: If the PCF outage was unplanned, restart/reset the PCF; verify network connectivity

Clear Condition: The condition is cleared when the PCF address becomes reachable, or if the configuration is changes to not use this server.

Condition Clear Alarm: A starPCFReachable notification is generated when the pcf address becomes reachable."

```
--#SUMMARY "[System] PCF Unreachable, VPN %s PCF address %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 87 }
```

```
starDhcpAlive NOTIFICATION-TYPE
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerPort, starSessGGSNPeerAddr }
STATUS current
DESCRIPTION
```

"DHCP Server Alive."

```
--#SUMMARY "[System] DHCP server alive, VPN %s Server Address %s/%d"
--#ARGUMENTS {0,2,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 88 }
```

```
starDhcpDead NOTIFICATION-TYPE
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerPort, starSessGGSNPeerAddr }
STATUS current
DESCRIPTION
```

"DHCP Server Dead.

Probable Cause: The remote DHCP server is down or there is a network error making it unreachable.

Action to be Taken: Verify that the DHCP server is functioning properly; verify network connectivity to the DHCP server.

Clear Condition: The condition is cleared when the DHCP server becomes reachable, or if the configuration is changes to not use this server.

Condition Clear Alarm: A starDhcpAlive notification is generated when the server becomes reachable."

```
--#SUMMARY "[System] DHCP server dead, VPN %s Server Address %s/%d"
--#ARGUMENTS {0,2,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 89 }
```


-- NTP traps

starNTPPeerUnreachable NOTIFICATION-TYPE

OBJECTS { starPeerAddress }

STATUS current

DESCRIPTION

"NTP Peer Unreachable.

Probable Cause: The NTP server is down or unavailable, or there is a network connectivity issue that prevents access to the NTP server.

Action to be Taken: Verify that the NTP server is running properly; verify that the connection to the NTP server is functioning.

Clear Condition: This condition is cleared when the NTP server becomes reachable.

Condition Clear Alarm: This condition is cleared by a starNTPPeerReachable notification."

--#SUMMARY "[System] NTP Peer Unreachable; peer address %s"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 90 }

starNTPSyncLost NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"NTP Synchronization Lost.

Probable Cause: All configured NTP server are no longer available, or some/all NTP servers have been unconfigured by an operator.

Action to be Taken: Verify that the NTP server(s) are running properly and that the network connections to the NTP servers are available. Check the configured of the NTP servers for correctness. If needed, configure additional NTP servers.

Clear Condition: This condition is cleared when any (one) NTP server becomes reachable.

Condition Clear Alarm: This condition is cleared by a starNTPSyncEstablished notification."

--#SUMMARY "[System] NTP Sync Lost"

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 91 }

--- L2TP traps

starL2TPTunnelDownPeerUnreachable NOTIFICATION-TYPE

OBJECTS { starL2TPLocalTunnelID,
starL2TPPeerTunnelID,
starL2TPContextName,
starL2TPServiceName,
starL2TPServiceTypeName,
starL2TPLocalAddress,
starL2TPPeerAddress }

STATUS current

DESCRIPTION

"L2TP tunnel down due to peer unreachable.

Probable Cause: Misconfiguration of the peer router address or inability to route to the peer.

Action to be Taken: Verify the peer address is correct; verify that the peer is operational; verify network connectivity to the peer."

```

--#SUMMARY "[System] L2TP tunnel down due to peer unreachable, context %s service type %s service name %s local tun id %d peer tun id %d
local address %s peer address %s"
--#ARGUMENTS {2,4,3,0,1,5,6}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 92 }

-- Card traps again
starCardStandby NOTIFICATION-TYPE
OBJECTS { starSlotNum,
          starCardType,
          starSlotSerialNumber}
STATUS current
DESCRIPTION
"The card is now standby.This is not applicable to QVPC-SI."
--#SUMMARY "[%s-%d] Card is standby UUID %s"
--#ARGUMENTS {1,0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 93 }

starLicenseUnderLimit NOTIFICATION-TYPE
OBJECTS { starLicensedSessions, starCurrentSessions, starServiceType }
STATUS current
DESCRIPTION
"Usage is now under the licensed session limit."
--#SUMMARY "[System] System under license limit for %s service; current sessions %d license %d"
--#ARGUMENTS {2,0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 94 }

-- IPSEC

starIPSECPriTunDown NOTIFICATION-TYPE
OBJECTS { starIPSECContextName, starIPSECGroupName, starIPSECTunLocalIpAddr, starIPSECTunRemotelpAddr }
STATUS current
DESCRIPTION "IPSEC Primary Tunnel Down"
--#SUMMARY "[System] IPSEC primary tunnel down, context %s, group %s, local ip address %s, remote ip address %s"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 95 }

starIPSECPriTunUp NOTIFICATION-TYPE
OBJECTS { starIPSECContextName, starIPSECGroupName, starIPSECTunLocalIpAddr, starIPSECTunRemotelpAddr }
STATUS current
DESCRIPTION "IPSEC Primary Tunnel Up"
--#SUMMARY "[System] IPSEC primary tunnel up, context %s, group %s, local ip address %s, remote ip address %s"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 96 }

starIPSECSecTunDown NOTIFICATION-TYPE
OBJECTS { starIPSECContextName, starIPSECGroupName, starIPSECTunLocalIpAddr, starIPSECTunRemotelpAddr }
STATUS current
DESCRIPTION "IPSEC Secondary Tunnel Down"
--#SUMMARY "[System] IPSEC secondary tunnel down, context %s, group %s, local ip address %s, remote ip address %s"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 97 }

starIPSECSecTunUp NOTIFICATION-TYPE

```

```

OBJECTS { starIPSECContextName, starIPSECGroupName, starIPSECTunLocalIpAddr, starIPSECTunRemotelpAddr }
STATUS current
DESCRIPTION "IPSEC Secondary Tunnel Up"
--#SUMMARY "[System] IPSEC secondary tunnel up, context %s, group %s, local ip address %s, remote ip address %s"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY INFORMATIONAL
::= { starentTraps 98 }

```

starIPSECTunSwitchFail NOTIFICATION-TYPE

```

OBJECTS { starIPSECContextName, starIPSECGroupName }
STATUS current
DESCRIPTION "IPSEC Tunnel Switchover failed or unable to be attempted"
--#SUMMARY "[System] IPSEC tunnel switchover failed, context %s, group %s"
--#ARGUMENTS {0,1}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 99 }

```

starIPSECTunSwitchComplete NOTIFICATION-TYPE

```

OBJECTS { starIPSECContextName, starIPSECGroupName, starIPSECTunLocalIpAddr, starIPSECTunRemotelpAddr }
STATUS current
DESCRIPTION "IPSEC Tunnel Switchover complete"
--#SUMMARY "[System] IPSEC tunnel switchover complete, context %s, group %s, active tunnel: local ip address %s, remote ip address %s"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 100 }

```

starNwReachServerAlive NOTIFICATION-TYPE

```

OBJECTS { starNwReachName, starNwReachSrvrAddr}
STATUS current
DESCRIPTION
    "Nw Reacheable Server alive"
--#SUMMARY "[System] Network Reachability server alive, Name %s Server Address %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 101 }

```

starNwReachServerDead NOTIFICATION-TYPE

```

OBJECTS { starNwReachName, starNwReachSrvrAddr}
STATUS current
DESCRIPTION
    "Nw Reacheable Server Dead.

```

Probable Cause: The remote server is down or there is a network error making it unreachable.

A starNwReachServerAlive notification will be generated when this condition is cleared"

```

--#SUMMARY "[System] Network Reachability server dead, Name %s Server Address %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 102 }

```

starStorageServerUnackedGcdrVolPurge NOTIFICATION-TYPE

```

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr }
STATUS current
DESCRIPTION
    "GTPP storage server has performed unacked GCDRs volume purge.

```

Probable Cause: GTPP storage server has purged unacked GCDRs after hitting the max allowed configured limit on unacked GCDR in the backup database.

Action to be Taken: Check for the unacked file generated for these GCDRs.

Clear Condition: There is no clear condition for this notification.

Condition Clear Alarm: There is no clear alarm for this notification."

```
--#SUMMARY "[System] GTPP Storage Server has performed unacked GCDRs volume purge. VPN %s Server Address %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 103 }
```

```
starStorageServerUnackedGcdrFileGen NOTIFICATION-TYPE
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr }
STATUS current
DESCRIPTION
```

"GTPP storage server has exported the unacked GCDRs to file from backup db.

Probable Cause: GTPP storage server has generated and saved all the unacked GCDRs to file.

Action to be Taken: Operator needs to ftp the generated file.

Clear Condition: There is no clear condition for this notification.

Condition Clear Alarm: There is no clear alarm for this notification."

```
--#SUMMARY "[System] GTPP storage server has exported the unacked GCDRs to file from backup db. VPN %s Server Address %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 104 }
```

```
starNTPPeerReachable NOTIFICATION-TYPE
OBJECTS { starPeerAddress }
STATUS current
DESCRIPTION
```

"NTP Peer Reachable.

Probable Cause: The NTP server is reachable. This could indicate a newly configured NTP server (including an initial configuration on system startup) or could indicate a previously unreachable server has become reachable.

Action to be Taken: No action required."

```
--#SUMMARY "[System] NTP Peer Reachable; peer address %s"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 105 }
```

```
starNTPSyncEstablished NOTIFICATION-TYPE
STATUS current
DESCRIPTION
```

"NTP Synchronization Established.

Probable Cause: An NTP server is available when previously no server was available. This could indicate a newly configured NTP server (including an initial configuration on system startup) or could indicate that one or more previously unreachable server(s) has become reachable.

Action to be Taken: No action required."

```
--#SUMMARY "[System] NTP Sync Established"
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 106 }
```

```
starSIPServiceStart NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
```

STATUS current

DESCRIPTION

"A SIP service has started

Action to be Taken: No action required"

--#SUMMARY "[Service SIP-%s-%s] SIP service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 107 }

starSIPServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A SIP service has stopped

Action to be Taken: No action required"

--#SUMMARY "[Service SIP-%s-%s] SIP service has stopped"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 108 }

starVIMServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A VIM service has started

Action to be taken: No action required"

--#SUMMARY "[Service VIM-%s-%s] VIM service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 109 }

starVIMServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A VIM service has stopped. This is because of application out-of-service or if vim is down or no app. server

Action to be taken: No action required"

--#SUMMARY "[Service VIM-%s-%s] VIM service has stopped"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 110 }

starCHATCONFServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A CHAT/CONF service has started

Action to be taken: No action required"

--#SUMMARY "[Service CHAT/CONF-%s-%s] CHAT/CONF service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 111 }

starCHATCONFServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A CHAT/CONF service has stopped. This is because of application out-of-service or if chatconf is down or no app. server

Action to be taken: No action required"

```
--#SUMMARY "[Service CHAT/CONF-%s-%s] CHAT/CONF service has stopped"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 112 }
```

starSIPRouteNomatch NOTIFICATION-TYPE

```
OBJECTS { starSIPRouteVpnName, starSIPRouteVmgName, starSIPRouteAsName, starSIPRouteDestPartyNum, starSIPRouteReqNum }
```

STATUS current

DESCRIPTION

"SIP session has failed since there is no match in the routing table with matching prefix

Action to be taken: Operator has to configure with matching prefix if required"

```
--#SUMMARY "[Service SIPROUTENOMATCH-%s-%s-%s-%s-%s] SIP Session failed: nomatch in routing table"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 113 }
```

starL3AddrUnreachable NOTIFICATION-TYPE

```
OBJECTS { starL3Address, starPortSlot, starPortNum }
```

STATUS current

DESCRIPTION

"A L3 Address is unreachable through the specific slot and port.

Action to be taken: No action required"

```
--#SUMMARY "[System] L3 Address %s unreachable through Slot %d/Port %d"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 114 }
```

starSWUpgradeStart NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"An operator has begun to upgrade the software on the chassis."

```
--#SUMMARY "[System] Software Upgrade started"
```

```
--#STATE DEGRADED
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 115 }
```

starSWUpgradeComplete NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"An operator-initiated software upgrade has been completed."

```
--#SUMMARY "[System] Software Upgrade complete"
```

```
--#STATE DEGRADED
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 116 }
```

starSWUpgradeAborted NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"An operator-initiated software upgrade has been aborted."

```
--#SUMMARY "[System] Software Upgrade started"
```

```
--#STATE DEGRADED
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 117 }
```

--- BGP

starBGPPeerSessionUp NOTIFICATION-TYPE

OBJECTS { starContextName, starBGPPeerIpAddress }

STATUS current

DESCRIPTION

"The BGP peer session to the specified IP address is operational.

This may indicate the initial configuration of a new peer, the initial connectivity after a system restart, or the restoration of connectivity after a starBGNPeerSessionDown event.

Action to be Taken: No action required."

--#SUMMARY "[System] BGP peer session, vpn %s, address %s, is operational"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 118 }

starBGPPeerSessionDown NOTIFICATION-TYPE

OBJECTS { starContextName, starBGPPeerIpAddress }

STATUS current

DESCRIPTION

"The BGP peer session to the specified IP address is no longer operational.

Probable Cause: The BGP peer is not-operational; the network between the ST16 and the BGP peer is experiencing an outage; LC failure(s) on the ST16.

Action to be Taken: Verify the BGP peer is operational; verify network connectivity to the BGP peer.

Clear Condition Alarm: A starBGPPeerSessionUp is generated when connectivity is reestablished"

--#SUMMARY "[System] BGP peer session, vpn %s, address %s, is non-operational"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 119 }

-- ICSR

starSRPActive NOTIFICATION-TYPE

OBJECTS { starContextName, starIPAddressType, starSRPIpAddress }

STATUS current

DESCRIPTION

"The SRP Chassis Status is now Active.

Action to be Taken: No action is required."

--#SUMMARY "[System] vpn %s SRP %s is now active"

--#ARGUMENTS {0,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 120 }

starSRPStandby NOTIFICATION-TYPE

OBJECTS { starContextName, starIPAddressType, starSRPIpAddress }

STATUS current

DESCRIPTION

"The SRP Chassis Status is now Standby.

Action to be Taken: No action is required."

--#SUMMARY "[System] vpn %s SRP %s is now standby"

--#ARGUMENTS {0,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 121 }

starBGPPeerReachable NOTIFICATION-TYPE

OBJECTS { starContextName,

```

starIPAddressType,
  starSRPIpAddress,
  starUDPPortNum,
  starBGPPEerIpAddress }

```

STATUS obsolete

DESCRIPTION

"The monitored BGP peer is now Reachable. This notification can represent the initial detection of the peer's state, or the reconnection to a peer after a starBGPPEerDown notification. This attribute is obsolete.

Action to be Taken: No action is required."

```
--#SUMMARY "[System] vpn %s SRP %s port %d BGP Peer %s is up"
```

```
--#ARGUMENTS {0,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 122 }
```

starBGPPEerUnreachable NOTIFICATION-TYPE

```

OBJECTS { starContextName,
  starIPAddressType,
  starSRPIpAddress,
  starUDPPortNum,
  starBGPPEerIpAddress }

```

STATUS obsolete

DESCRIPTION

"The monitored BGP peer is now Unreachable.

Action to be Taken: Verify that the BGP Peer is running and is properly configured. Verify the network link to the BGP Peer. This attribute is obsolete.

Clear Condition: This condition is cleared when communication with the BGP peer is reestablished.

Condition Clear Alarm: This condition is cleared by a starBGPPEerReachable notification."

```
--#SUMMARY "[System] vpn %s SRP %s port %d BGP Peer %s is unreachable"
```

```
--#ARGUMENTS {0,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 123 }
```

starSRPAAAReachable NOTIFICATION-TYPE

```

OBJECTS { starContextName,
  starIPAddressType,
  starSRPIpAddress,
  starUDPPortNum }

```

STATUS current

DESCRIPTION

"The SRP AAA monitor has found a reachable AAA server. This notification can represent the initial detection of an AAA server, or the restoration of reachability after a starSRPAAAUnreachable notification. This notification is only generated if there was previously no reachable AAA server.

Action to be Taken: No action required."

```
--#SUMMARY "[System] vpn %s SRP %s port %d reports AAA Reachable"
```

```
--#ARGUMENTS {0,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 124 }
```

starSRPAAAUnreachable NOTIFICATION-TYPE

```

OBJECTS { starContextName,
  starIPAddressType,
  starSRPIpAddress,
  starUDPPortNum }

```

STATUS current

DESCRIPTION

"The SRP AAA monitor has determined that all AAA servers are unreachable.

Action to be Taken: Verify the state of the configured AAA Server(s) and restart them if required. Verify the network link to the AAA Server(s). Configure additional AAA Servers if required.

Clear Condition: This condition is cleared when communication with any single AAA service is (re)established.

Condition Clear Alarm: This condition is cleared by a starSRPAAAReachable notification."

```
--#SUMMARY "[System] vpn %s SRP %s port %d reports AAA Unreachable"
--#ARGUMENTS {0,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 125 }
```

starSRPSwitchoverInitiated NOTIFICATION-TYPE

OBJECTS { starContextName,
starIPAddressType,
starSRPIpAddress }

STATUS current

DESCRIPTION

"An SRP (ICSR) Switchover operation has been initiated by an operator.

Action to be Taken: Verify that the switchover was a planned operator action."

```
--#SUMMARY "[System] SRP Switchover Initiated, vpn %s SRP %s"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 126 }
```

starSRPCheckpointFailure NOTIFICATION-TYPE

OBJECTS { starContextName,
starIPAddressType,
starSRPIpAddress }

STATUS current

DESCRIPTION

"The system has detected that a checkpoint message failed to be sent successfully to the standby HA. If the active HA were to fail, this information will be lost.

Action to be Taken: Verify the communication path to the Standby HA."

```
--#SUMMARY "[System] vpn %s SRP %s session checkpoint failure"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 127 }
```

starSRPConfigOutOfSync NOTIFICATION-TYPE

OBJECTS { starContextName,
starIPAddressType,
starSRPIpAddress }

STATUS current

DESCRIPTION

"The system has detected that the standby HA has a different configuration than the active HA. In the event of a failure of the active HA, it is possible that the standby HA is not configured properly to be able to take over.

Action to be Taken: Update the configuration of the standby HA to match the active HA.

Clear Condition: This condition is cleared when the active HA confirms that the standby HA has an identify configuration.

```

Condition Clear Alarm: This condition is cleared by a starSRPConfigInSync
notification."
--#SUMMARY "[System] vpn %s SRP %s configuration not synchronized"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 128 }

starSRPConfigInSync NOTIFICATION-TYPE
OBJECTS { starContextName,
          starIPAddressType,
          starSRPIpAddress }
STATUS current
DESCRIPTION
    "The system has detected that the standby HA has a matching configuration as the
    active HA. This notification is generated only after a starSRPConfigOutOfSync
    notification.

    Action to be Taken: No action required."
--#SUMMARY "[System] vpn %s SRP %s configuration synchronized"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 129 }

starGESwitchFailure NOTIFICATION-TYPE
OBJECTS { starSlotNum }
STATUS current
DESCRIPTION
    "A failure of an internal Gigabit Ethernet switch has been detected. If
    it is possible to determine the slot containing the failed switch it is
    identified in starSlotNum, otherwise starSlotNum is 0.

    Action to be Taken: If this condition persists, the identified card
    needs to be replaced. This is not applicable to QVPC-SI and QVPC-DI."
--#SUMMARY "[Card %d] GE Switch Failure"
--#ARGUMENTS {0}
--#STATE NONOPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 130 }

starSIPRouteServerAvailable NOTIFICATION-TYPE
OBJECTS { starSIPRouteServerVpnName, starSIPRouteServerVmgName, starSIPRouteServerAsName, starSIPRouteServerIpAddr }
STATUS current
DESCRIPTION
    "SIP route server is available

    Action to be taken: None"
--#SUMMARY "[Service SIPROUTESERVER-%s-%s-%s-%s] SIP Route Server Available"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 131 }

starSIPRouteServerUnavailable NOTIFICATION-TYPE
OBJECTS { starSIPRouteServerVpnName, starSIPRouteServerVmgName, starSIPRouteServerAsName, starSIPRouteServerIpAddr }
STATUS current
DESCRIPTION
    "SIP session has failed since the server is unavailable

    Action to be taken: Operator has to check the reasons for the unavailability of the server and act accordingly"
--#SUMMARY "[Service SIPROUTESERVER-%s-%s-%s-%s] SIP Route Server Unavailable"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY WARNING
::= { starentTraps 132 }

```

starFMDMaxCallRateReached NOTIFICATION-TYPE

OBJECTS { starVIMServiceVpnName, starVIMServiceInstanceId, starVIMServiceFMDMaxCallRate, starVIMServiceFMDContinuousLoadCount }

STATUS current

DESCRIPTION

"FMD max call rate reached

Action to be taken: Increase the value of fmd-max-call-rate or set no fmd-max-call-rate

Condition Clear Alarm: This condition is cleared by a starFMDCallRateUnderControl notification"

--#SUMMARY "[Service VIM-%s-%d] Number of FMD messages processed per minute reached its limit (%d) continuously for %d measurement periods."

--#ARGUMENTS {0,1,2,3}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 133 }

starFMDCallRateUnderControl NOTIFICATION-TYPE

OBJECTS { starVIMServiceVpnName, starVIMServiceInstanceId, starVIMServiceFMDMaxCallRate, starVIMServiceFMDContinuousLoadCount }

STATUS current

DESCRIPTION

"FMD call rate under control

Action to be taken: None"

--#SUMMARY "[Service VIM-%s-%d] Number of FMD messages processed per minute, under limit (%d) for %d measurement periods."

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 134 }

starStorageServerCPUBusy NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshPct, starThreshMeasuredPct,
starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GTPP Storage Server is experiencing high CPU usage. The usage has exceeded an operator-configure value.

Note that this is an external server, not part of the ST16.

Probable Cause: The amount of information being sent to the Storage Server is approaching the server's capacity; the Storage Server has other tasks running on it which are taking CPU time; a problem with the Storage Server is causing the CPU to be abnormally busy;

Condition Clear Alarm: This condition is cleared by a starStorageServerCPUNormal notification"

--#SUMMARY "[System] GTPP Storage Server CPU busy, VPN %s Server Address %s, GTPP Storage Server Cluster %s node %s, CPU usage %d percent (alarm at %d percent)"

--#ARGUMENTS {0,1,4,5,3,2}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 135 }

starStorageServerCPUNormal NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshPct, starThreshMeasuredPct,
starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GTPP Storage Server CPU usage has returned to a normal range.

Note that this is an external server, not part of the ST16."

--#SUMMARY "[System] GTPP Storage Server CPU usage normal, VPN %s Server Address %s, GTPP Storage Server Cluster %s node %s, CPU usage %d percent (alarm at %d percent)"

--#ARGUMENTS {0,1,4,5,3,2}

```
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 136 }
```

starStorageServerDiskSpaceLow NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshGB, starThreshMeasuredGB,
          starGSSClusterName, starGSSClusterNodeName }
```

```
STATUS current
```

```
DESCRIPTION
```

"GTPP Storage Server is experiencing low available disk space. The available disk space has gone below an operator-configure value.

Note that this is an external server, not part of the ST16.

Probable Cause: The amount of information being sent to the Storage Server is approaching the server's capacity; the Storage Server has other information consuming disk space; a problem with the Storage Server is causing less disk space to be available than normal.

Condition Clear Alarm: If the GTPP Storage Server is configured to run in an 'alarm' model, this condition is cleared by a starStorageServerDiskSpaceOK notification.

Otherwise the starStorageServerDiskSpaceLow notification will be generated periodically until the condition is cleared."

```
--#SUMMARY "[System] GTPP Storage Server Disk space low, VPN %s Server Address %s, GTPP Storage Server Cluster %s node %s, disk available
%d GB (alarm at %d GB)"
```

```
--#ARGUMENTS {0,1,4,5,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 137 }
```

starStorageServerDiskSpaceOK NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshPct, starThreshMeasuredPct,
          starGSSClusterName, starGSSClusterNodeName }
```

```
STATUS current
```

```
DESCRIPTION
```

"GTPP Storage Server available disk space to a normal range.

Note that this is an external server, not part of the ST16."

```
--#SUMMARY "[System] GTPP Storage Server Disk space OK, VPN %s Server Address %s, GTPP Storage Server Cluster %s node %s, disk available
%d GB (alarm at %d GB)"
```

```
--#ARGUMENTS {0,1,4,5,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 138 }
```

starCardSPOFAlarm NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"The identified card is a Single Point of Failure (SPOF). There is no redundant card available to take over in the event of a failure.

Probable Cause: This can be caused by an improper configuration, or by the failure or removal of other cards in the system.

Action to be Taken: Install or configure additional redundant cards.

Clear Condition: A starCardSPOFClear notification will be generated is a redundant card becomes available. Notifications like starCardDown could also obsolete this notification"

```
--#SUMMARY "[Card %s-%d] Card is Single Point of Failure (SPOF) UUID %s. This is not applicable to QVPC-SI."
```

```
--#ARGUMENTS {1,0,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 139 }
```

starCardSPOFClear NOTIFICATION-TYPE

OBJECTS { starSlotNum, starCardType, starSlotSerialNumber }

STATUS current

DESCRIPTION

"The identified card is no longer a Single Point of Failure (SPOF)"

--#SUMMARY "[Card %s-%d] Card is no longer a Single Point of Failure (SPOF) UUID %s. This is not applicable to QVPC-SI."

--#ARGUMENTS {1,0,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 140 }

starStorageServerOldGcdrPending NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshInt, starThreshMeasuredInt,
starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GTPP Storage Server reports that GCDR files have been unprocessed for too long.

Note that this is an external server, not part of the ST16.

Probable Cause: No action has been taken long for the GCDR files generated by Storage Server.

Condition Clear Alarm: If the GTPP Storage Server is configured to run in an 'alarm' model, this condition is cleared by a starStorageServerOldGcdrCleared notification. Otherwise the starStorageServerOldGCDRPending notification will be generated periodically"

--#SUMMARY "[System] GTPP Storage Server has many unprocessed GCDR files, VPN %s Server Address %s, GTPP Storage Server Cluster %s node %s, Oldest unprocessed GCDR file %d mins. Configured period %d mins"

--#ARGUMENTS {0,1,4,5,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 141 }

starStorageServerOldGcdrCleared NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshInt,
starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GCDR files on the Storage Server have been processed on the Storage Server.

The threshold condition is now clear.

Note that this is an external server, not part of the ST16."

--#SUMMARY "[System] All old GCDR files on Storage Server over the configured period of %lu min have been processed. VPN %s Storage Server Address %s, GTPP Storage Server Cluster %s node %s, "

--#ARGUMENTS {2,0,1,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 142 }

starLoginFailure NOTIFICATION-TYPE

OBJECTS { starCLITtyname, starCLIRemoteIpAddrType,
starCLIRemoteIpAddr, starCLIType }

STATUS current

DESCRIPTION

"A login failure occurred attempting to establish a CLI or FTP session."

--#SUMMARY "[System] CLI/FTP login failure from %s/%s, failure starting %s"

--#ARGUMENTS {1,0,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 143 }

starIPSGServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A IP Services Gateway (IPSG) Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service IPSG-%s-%s] IPSG service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 144 }
```

starIPSGServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A IP Services Gateway (IPSG) Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the IPSG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the IPSG service is operational.

Condition Clear Alarm: A starIPSGServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service IPSG-%s-%s] IPSG service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 145 }
```

starHAUnreachable NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starServiceFAIpAddr, starServiceHAIpAddr }
STATUS current
DESCRIPTION
```

"A monitored HA is unreachable from the identified FA Service.

Condition Clear Alarm: A starHAReachable notification will be generated when the HA becomes reachable"

```
--#SUMMARY "[FA %s-%s] HA Unreachable; HA address %s"
--#ARGUMENTS {0,1,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 146 }
```

starHAReachable NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starServiceFAIpAddr, starServiceHAIpAddr }
STATUS current
DESCRIPTION
```

"A monitored HA is now reachable. A starHAReachable notification is only generated for monitored HA's which previously were marked unreachable."

```
--#SUMMARY "[FA %s-%s] HA Reachable; HA address %s"
--#ARGUMENTS {0,1,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 147 }
```

starASNGWServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS obsolete
DESCRIPTION
```

"A WiMAX ASN Gateway (ASNGW) Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service ASNGW-%s-%s] ASNGW service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 148 }
```

starASNGWServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS obsolete

DESCRIPTION

"A WiMAX ASN Gateway (ASNGW) Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the ASNGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the ASNGW service is operational.

Condition Clear Alarm: A starASNGWServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service ASNGW-%s-%s] ASNGW service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 149 }
```

starTaskFailed NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard, starTaskCPU }

STATUS current

DESCRIPTION

"A non-critical task has failed and the appropriate recovery steps begun. The failing task will be restarted.

Probable Cause: Software error

Actions to be Taken: Examine the admin logs for an indication of the source of the failure.

Clear Condition: Verify that the task has been restarted.

Condition Clear Alarm: A starTaskRestart notification will be generated when task has successfully restarted."

```
--#SUMMARY "[Card %d] Task %s/%d on CPU %d has failed"
--#ARGUMENTS {2,0,1,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 150 }
```

starTaskRestart NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard, starTaskCPU }

STATUS current

DESCRIPTION

"A non-critical task has restarted after an earlier failure.

Actions to be Taken: None"

```
--#SUMMARY "[Card %d] Task %s/%d on CPU %d has been restarted"
--#ARGUMENTS {2,0,1,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 151 }
```

starCSCFServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An CSCF Service has started"

Action to be Taken: No action required"

--#SUMMARY "[Service CSCF-%s-%s] CSCF service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 152 }

starCSCFServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An CSCF Service has stopped"

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the CSCF service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the CSCF service is operational.

Condition Clear Alarm: A starCSCFServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[CSCF %s-%s] CSCF service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 153 }

starDhcpServiceStarted NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A DHCP Service has started"

Action to be Taken: No action required"

--#SUMMARY "[System] DHCP service started, VPN %s Service Name %s"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 154 }

starDhcpServiceStopped NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A DHCP Service has stopped"

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the DHCP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the DHCP service is operational.

Condition Clear Alarm: A starDHCPServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[System] DHCP service stopped, VPN %s Service Name %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 155 }
```

starContFiltDBError NOTIFICATION-TYPE

OBJECTS { starContFiltCFFilename, starContFiltCFErrorCode }

STATUS current

DESCRIPTION

"The Content Filtering OPTCMDB file error displayed with an error code.

Action to be Taken: If no OPTCMDB file is there in the specified directory then Place a OPTCMDB-FULL file in the directory and give an upgrade command or place an OPTCMDB file and load the SRDBs by killing them all.

Condition Clear Alarm: This condition is cleared by a starContFiltDBErrorClear notification"

```
--#SUMMARY "[System] Content Filtering file %s error code: %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 156 }
```

starContFiltDBErrorClear NOTIFICATION-TYPE

OBJECTS { starContFiltCFFilename, starContFiltCFErrorCode }

STATUS current

DESCRIPTION

"The Content Filtering OPTCMDB file error removed.

Action to be Taken: No action required"

```
--#SUMMARY "[System] Content Filtering file %s error code: %s cleared"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 157 }
```

starBLDBError NOTIFICATION-TYPE

OBJECTS { starBLFilename, starBLErrorCode }

STATUS current

DESCRIPTION

"The Blacklisting OPTBLDB file error displayed with an error code.

Action to be Taken: If no or invalid OPTBLDB file is there in the specified directory then Place a OPTBLDB_FULL file in the directory and give an upgrade command.

Condition Clear Alarm: This condition is cleared by a starBLDBErrorClear notification"

```
--#SUMMARY "[System] Blacklisting file %s error code: %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 158 }
```

starBLDBErrorClear NOTIFICATION-TYPE

OBJECTS { starBLFilename, starBLErrorCode }

STATUS current

DESCRIPTION

"The Blacklisting OPTBLDB file error removed.

Action to be Taken: No action required"

```
--#SUMMARY "[System] Blacklisting file %s error code: %s cleared"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 159 }
```

starContFiltDBUpgradeError NOTIFICATION-TYPE

```
OBJECTS { starContFiltCFUpgradeFilename, starContFiltCFUpgradeErrorCode }
STATUS current
DESCRIPTION
"The Content Filtering OPTCMDB file error displayed with an error code.
```

Action to be Taken: Place a valid OPTCMDB-FULL file or OPTCMDB_INCR file in the directory and give an upgrade command.

Condition Clear Alarm: This condition is cleared by a starContFiltDBUpgradeErrorClear notification"

```
--#SUMMARY "[System] Content Filtering file %s error code: %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY INFORMATIONAL
::= { starentTraps 160 }
```

starContFiltDBUpgradeErrorClear NOTIFICATION-TYPE

```
OBJECTS { starContFiltCFUpgradeFilename, starContFiltCFUpgradeErrorCode }
STATUS current
DESCRIPTION
"The Content Filtering OPTCMDB file error removed.
```

Action to be Taken: No action required"

```
--#SUMMARY "[System] Content Filtering file %s error code: %s cleared"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 161 }
```

starBLDBUpgradeError NOTIFICATION-TYPE

```
OBJECTS { starBLUpgradeFilename, starBLUpgradeErrorCode }
STATUS current
DESCRIPTION
"The Blacklisting OPTBLDB file error displayed with an error code.
```

Action to be Taken: Place a valid OPTBLDB-FULL file file in the directory and give an upgrade command.

Condition Clear Alarm: This condition is cleared by a starBLDBUpgradeErrorClear notification"

```
--#SUMMARY "[System] Blacklisitng file %s error code: %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY INFORMATIONAL
::= { starentTraps 162 }
```

starBLDBUpgradeErrorClear NOTIFICATION-TYPE

```
OBJECTS { starBLUpgradeFilename, starBLUpgradeErrorCode }
STATUS current
DESCRIPTION
"The Blacklisting OPTBLDB file error removed.
```

Action to be Taken: No action required"

```
--#SUMMARY "[System] Blacklisting file %s error code: %s cleared"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 163 }
```

starIPSECDynTunUp NOTIFICATION-TYPE

OBJECTS { starIPSECContextName, starIPSECPolicyName, starIPSECDynPolicyType, starIPSECDynPolicyPayloadType, starIPSECLocalGateway, starIPSECRemoteGateway }

STATUS current

DESCRIPTION

"IPSEC Dynamic Tunnel Up.

Action to be Taken: No action required"

--#SUMMARY "[System] IPSEC Dynamic Tunnel Up; context %s, policy name %s, policy type %d, payload type %d, local gateway %s, remote gateway %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 164 }

starIPSECDynTunDown NOTIFICATION-TYPE

OBJECTS { starIPSECContextName, starIPSECPolicyName, starIPSECDynPolicyType, starIPSECDynPolicyPayloadType, starIPSECLocalGateway, starIPSECRemoteGateway }

STATUS current

DESCRIPTION

"IPSEC Dynamic Tunnel Down.

Condition Clear Alarm: a starIPSECDynTunUp notification will be sent when the tunnel is operational again. Note however that a tunnel may go down due to administrative action, or the tunnel may not longer be required, thus a starIPSECDynTunUp may not follow."

--#SUMMARY "[System] IPSEC Dynamic Tunnel Down; context %s, policy name %s, policy type %d, payload type %d, local gateway %s, remote gateway %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE DEGRADED

--#SEVERITY MINOR

::= { starentTraps 165 }

starHeartbeat NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"Periodic SNMP heartbeat. A starHeartbeat notification can be generated periodically if the system is configured to do so. These notifications serve only to validate that there is communication to external entities which sink SNMP notifications"

--#SUMMARY "[System] SNMP Heartbeat"

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 166 }

starOverloadSystem NOTIFICATION-TYPE

OBJECTS { starCongestionResourceType }

STATUS current

DESCRIPTION

"A system-wide congestion overload condition has occurred.

Probable Cause: This is the result of an operator-configured congestion overload value reached. This notification indicated a chassis-wide overload condition, typically overall system usage reaching some fraction of capacity.

Once this limit is reached, the configured behavior is taken. This will cause certain older and/or dormant calls to be dropped in favor of newer calls.

Note that this is similar to, but different than, the starCongestion notification. Typically the 'overload' condition will be configured to trigger at an earlier point.

Actions to be Taken: Verify that the congestion overload thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

This system is cleared when the use of the specific resource falls below the configured limit.

Condition Clear Alarm: A starOverloadSystemClear notification is sent when the system overload condition is clear"

```
--#SUMMARY "[System] System Congestion Overload; resource type %s"
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 167 }
```

starOverloadSystemClear NOTIFICATION-TYPE

STATUS current
DESCRIPTION

"A system-wide congestion overload condition has cleared"

```
--#SUMMARY "[System] Congestion overload clear"
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 168 }
```

starOverloadService NOTIFICATION-TYPE

OBJECTS { starCongestionResourceType, starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A service-specific congestion overload condition has occurred.

Probable Cause: This is the result of an operator-configured congestion overload value reached. This notification indicated a service-specific overload condition, typically the use of the service reaching some fraction of capacity.

Once this limit is reached, the configured behavior is taken. This will cause certain older and/or dormant calls to be dropped in favor of newer calls.

Note that this is similar to, but different than, the starCongestion notification. Typically the 'overload' condition will be configured to trigger at an earlier point.

Since this is a service-specific notification, it is possible to receive multiple notifications for different services. Each

Actions to be Taken: Verify that the congestion overload thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

This system is cleared when the use of the specific resource falls below the configured limit.

Condition Clear Alarm: A starOverloadServiceClear notification is sent when the service-specific overload condition is clear."

```
--#SUMMARY "[Service %s-%s] System Congestion Overload; resource type %s"
--#ARGUMENTS {1,2,0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 169 }
```

starOverloadServiceClear NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A service-specific congestion overload condition has cleared"

```
--#SUMMARY "[Service %s-%s] Congestion overload clear"
--#ARGUMENTS {1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 170 }
```

starStorageServerClusterStateChange NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSClusterName,
          starGSSClusterRgName, starGSSClusterRsName, starGSSClusterNodeState,
          starGSSClusterPrevOnlineNode }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"GTPP Storage Server cluster state has been changed.
```

GTPP Storage Server may have gone offline from all the nodes or switchover has been occurred.

Note that this is an external server, not part of the ST16.

Probable Cause: GTPP Storage Server cluster hardware/software component failure or maintenance of GTPP Storage Server is in progress"

```
--#SUMMARY "[System] GTPP Storage Server cluster state changed, VPN %s Server Address %s, GTPP Storage Server Cluster name %s,
Associated resource group name %s and Associated resource name %s, Cluster node state %s, Previous online node name %s"
```

```
--#ARGUMENTS {0,1,2,3,4,5,6}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 171 }
```

starStorageServerClusSwitchOver NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSClusterName,
          starGSSClusterRgName, starGSSClusterFromNode, starGSSClusterToNode }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"GTPP Storage Server switchover from current online node to next available node in cluster.
```

Note that this is an external server, not part of the ST16.

Probable Cause: GTPP Storage Server cluster Hardware/Software component failure or maintenance of GTPP Storage Server is in progress"

```
--#SUMMARY "[System] GTPP Storage Server switchover, VPN %s Server Address %s, GTPP Storage Server Cluster name %s, Associated resource
group name %s , Switched-over from node %s to node %s"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 172 }
```

starStorageServerClusPathFail NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSDiskPath, starGSSClusterName,
          starGSSClusterNodeName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"GTPP Storage Server cluster disk path failure has been occurred.
```

Note that this is an external server, not part of the ST16.

Probable Cause: Fibre cable may have been damaged, fibre cable may have been pulled out or disk fault may have been occurred.

Condition Clear Alarm: This condition is cleared by a starStorageServerClusPathOK notification"

```
--#SUMMARY "[System] GTPP Storage Server cluster disk path failure, VPN %s Server Address %s, Cluster Disk Path %s, GTPP Storage Server
Cluster %s node %s"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 173 }
```

starStorageServerClusPathOK NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSDiskPath, starGSSClusterName,
          starGSSClusterNodeName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"GTPP Storage Server cluster disk path failure has been restored to ok state.
```

Note that this is an external server, not part of the ST16"

```
--#SUMMARY "[System] GTPP Storage Server cluster disk path OK, VPN %s Server Address %s, Cluster Disk Path %s, GTPP Storage Server Cluster %s node %s"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 174 }
```

starStorageServerClusInterCFail NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSTransportPath,
          starGSSClusterName, starGSSClusterNodeName }
```

STATUS current

DESCRIPTION

"GTPP Storage Server cluster transport path (Interconnect) failure has been occurred.

Note that this is an external server, not part of the ST16.

Probable Cause: Interconnect interface may have been failed, Interconnect interface cable may have been pulled out.

Condition Clear Alarm: This condition is cleared by a starStorageServerClusInterCOK notification"

```
--#SUMMARY "[System] GTPP Storage Server cluster transport path (Interconnect) failure, VPN %s Server Address %s, Cluster Transport Path %s, GTPP Storage Server Cluster %s node %s"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 175 }
```

starStorageServerClusInterCOK NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSTransportPath,
          starGSSClusterName, starGSSClusterNodeName }
```

STATUS current

DESCRIPTION

"GTPP Storage Server cluster transport path (Interconnect) failure has been restored to an operational state.

Note that this is an external server, not part of the ST16"

```
--#SUMMARY "[System] GTPP Storage Server cluster transport path (Interconnect) ok, VPN %s Server Address %s, Cluster Transport Path %s, GTPP Storage Server Cluster %s node %s"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 176 }
```

starStorageServerClusIntfFail NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSIPMPGroupName,
          starGSSInterfaceName, starGSSClusterName, starGSSClusterNodeName }
```

STATUS current

DESCRIPTION

"GTPP Storage Server cluster GE Interface failure has been occurred.

Note that this is an external server, not part of the ST16.

Probable Cause: Interface may have been failed, interface cable may have been pulled out.

Condition Clear Alarm: This condition is cleared by a starStorageServerClusIntfOK notification"

```
--#SUMMARY "[System] GTPP Storage Server cluster interface failure, VPN %s Server Address %s, Cluster IPMP Group name %s and associated interface name %s, GTPP Storage Server Cluster %s node %s"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 177 }
```

starStorageServerClusIntfOK NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSIPMPGroupName,
starGSSIInterfaceName, starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GTPP Storage Server cluster GE Interface failure failure has been restored to ok state.

Note that this is an external server, not part of the ST16"

--#SUMMARY "[System] GTPP Storage Server cluster GE interface ok, VPN %s Server Address %, Cluster IPMP Group name %s and associated
GE interface name %, GTPP Storage Server Cluster %s node %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 178 }

starStorageServerMemLow NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshMB,
starThreshMeasuredMB, starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GTPP Storage Server is experiencing a low memory condition.

Note that this is an external server, not part of the ST16.

Probable Cause: The amount of free memory used by Storage Server
is approaching the server's capacity;

Condition Clear Alarm: This condition is cleared by a starStorageServerMemNormal
notification"

--#SUMMARY "[System] GTPP Storage Server memory low, VPN %s Server Address %, Available free memory %d MB (notification at %d MB),
GTPP Storage Server Cluster %s node %s"

--#ARGUMENTS {0,1,3,2,4,5}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 179 }

starStorageServerMemNormal NOTIFICATION-TYPE

OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starThreshMB,
starThreshMeasuredMB, starGSSClusterName, starGSSClusterNodeName }

STATUS current

DESCRIPTION

"GTPP Storage Server Memory usage has returned to a normal range.

Note that this is an external server, not part of the ST16."

--#SUMMARY "[System] GTPP Storage Server memory normal, VPN %s Server Address %, Available free memory %d MB (notification at %d
MB), GTPP Storage Server Cluster %s node %s"

--#ARGUMENTS {0,1,3,2,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 180 }

starPDIFServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A PDIF Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service PDIF-%s-%s] PDIF service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 181 }

starPDIFServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A PDIF Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs) to support the running configuration.

Action to be Taken: If the PDIF service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PDIF service is operational.

Condition Clear Alarm: A starPDIFServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service PDIF-%s-%s] PDIF service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 182 }

starSessMgrRecoveryComplete NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starFetchedFromAAAMgr, starPriorToAudit, starPassedAudits, starCallsRecovered, starAllCallLines, starElapsedMs }

STATUS current

DESCRIPTION

"A Sess Mgr Recovery Complete

Probable Cause: This is typically caused by session manager task fails and successfully completed recovery.

Action to be Taken: None"

--#SUMMARY "[System] Session Manager task recovery completed, in %d (ms) fetched from aaamgr %d calls recovered %d passed audit %d prior to audit %d all call lines %d on Slot Number %d Cpu Number %d"

--#ARGUMENTS {7,2,3,4,5,6,0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 183 }

starDiameterPeerDown NOTIFICATION-TYPE

OBJECTS { starDiameterVpnName, starDiameterPeerAddr, starDiameterEndpointName }

STATUS current

DESCRIPTION

"A diameter peer is down.

Problem Cause: The diameter peer has failed, or a network connectivity prevents reaching the peer.

Condition Clear Alarm: A starDiameterPeerUp notification will be generated when the peer is up"

--#SUMMARY "[VPN %s] Diameter Peer %s endpoint %s is down"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 184 }

starDiameterPeerUp NOTIFICATION-TYPE

OBJECTS { starDiameterVpnName, starDiameterPeerAddr, starDiameterEndpointName }

STATUS current

DESCRIPTION

"A diameter peer is up. This notification is only generated for peers which have previously been declared down."

--#SUMMARY "[VPN %s] Diameter Peer %s endpoint %s is up"

--#ARGUMENTS {0,1,2}


```
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 185 }
```

starDiameterServerUnreachable NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starDiameterPeerAddr, starDiameterEndpointName }
STATUS current
DESCRIPTION
```

"A diameter server is down.

Problem Cause: The diameter server has failed, or a network connectivity prevents reaching the server.

Condition Clear Alarm: A starDiameterServerReachable notification will be generated when the server is reachable"

```
--#SUMMARY "[VPN %s] Diameter Server %s endpoint %s is unreachable"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 186 }
```

starDiameterServerReachable NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starDiameterPeerAddr, starDiameterEndpointName }
STATUS current
DESCRIPTION
```

"A diameter server is up. This notification is only generated for servers which have previously been declared unreachable."

```
--#SUMMARY "[VPN %s] Diameter Server %s endpoint %s is reachable"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 187 }
```

starCDRFileRemoved NOTIFICATION-TYPE

```
OBJECTS { starCDRFilename }
STATUS current
DESCRIPTION
```

"A Charging Data Record (CDR) file has been deleted from the system due to a lack of available storage space. When required, the system deletes old files to make space for new files. This notification is only generated when specifically enabled on the system.

Probable Cause: CDR files are not being moved off the system, or these files are not being deleted after they have been transferred."

```
--#SUMMARY "[System] CDR file %s removed"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 188 }
```

starCSCFPeerServerReachable NOTIFICATION-TYPE

```
OBJECTS { starCSCFPeerServerVpnName, starCSCFPeerServerSvcName, starCSCFPeerServerListName }
STATUS current
DESCRIPTION
```

"A peer server is reachable"

```
--#SUMMARY "[CSCF %s-%s] CSCF Peer Server %s Reachable"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 189 }
```

starCSCFPeerServerUnreachable NOTIFICATION-TYPE

```
OBJECTS { starCSCFPeerServerVpnName, starCSCFPeerServerSvcName, starCSCFPeerServerListName }
STATUS current
DESCRIPTION
```

"A peer server is unreachable"

```
--#SUMMARY "[CSCF %s-%s] CSCF Peer Server %s UnReachable"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 190 }
```

```
starDHCPV6ServiceStart NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A SGSN Service has started
Action to be Taken: No action required"
--#SUMMARY "[Service DHCP V6 %s-%s] DHCP V6 service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 191 }
```

```
starCLIConfigMode NOTIFICATION-TYPE
OBJECTS { starCLIUsername, starCLIContext }
STATUS current
DESCRIPTION
"An interactive CLI session has enter 'configuration' mode for the specified
context. This CLI user can thus potentially start issuing configuration
commands which will impact the overall system configuration.

Note that this notification is not enabled by default; it is only generated
if the system is specifically configured to enable it."
--#SUMMARY "[System] CLI session entered configuration mode for context %s, CLI user %s"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 192 }
```

```
starDHCPV6ServiceStop NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A DHCPV6 Service has stopped.
Clear Condition: Verify that the DHCPV6 service is operational.

Condition Clear Alarm: A starDHCPV6ServiceStart notification will be generated when
the service is restarted"
--#SUMMARY "[Service DHCPV6 %s-%s] DHCPV6 service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 193 }
```

```
starSGSNServiceStart NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A SGSN Service has started
Action to be Taken: No action required"
--#SUMMARY "[Service SGSN %s-%s] SGSN service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 194 }
```

```
starSGSNServiceStop NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A SGSN Service has stopped.
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SGSN service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SGSN service is operational.

Condition Clear Alarm: A starSGSNServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service SGSN %s-%s] SGSN service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 195 }
```

starM3UAPCUnavailable NOTIFICATION-TYPE

```
OBJECTS {
    starSS7rdId,
    starSS7Pc,
    starSS7M3UAPsId,
    starSS7CauseString
}
STATUS current
DESCRIPTION
"M3UA Route to the Point code becomes unavailable.
```

Possible reason:

1. Received destination unavailable (DUNA) message or
2. SCTP association is down or
3. Remote peer server is down

Condition Clear Alarm: A starM3UAPCAvailable notification will be generated when the remote peer identified by the point code becomes reachable"

```
--#SUMMARY "[ss7-routing-domain %d] m3ua point-code %d through peer-server %d unavailable cause %s"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 196 }
```

starM3UAPCAvailable NOTIFICATION-TYPE

```
OBJECTS {
    starSS7rdId,
    starSS7Pc,
    starSS7M3UAPsId,
    starSS7CauseString
}
STATUS current
DESCRIPTION
"M3UA Route to the Point code becomes available.
```

Possible reason:

1. Received destination available (DAVA) message.
2. SCTP association is up
3. Remote peer server is up

starM3UAPCAvailable is generated only when a previous starM3UAPCUnavailable is generated.

"

```
--#SUMMARY "[ss7-routing-domain %d] m3ua point-code %d through peer-server %d available cause %s"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 197 }
```

```
-- Thresholds
```

```
starThreshCPUUtilization NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

"The overall CPU utilization for the identified processor has exceeded for configured threshold value for the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCPUUtilization notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[Card] Threshold: CPU utilization threshold for card %d CPU %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 200 }
```

```
starThreshClearCPUUtilization NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Card] Threshold: CPU utilization threshold clear card %d for CPU %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 201 }
```

```
starThreshCPUMemory NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The amount of available memory for the identified processor has fallen below the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCPUMemory notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[Card %d] Threshold: CPU memory threshold for CPU %d; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 202 }
```

```
starThreshClearCPUMemory NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Card %d] Threshold: CPU memory threshold CLEAR for CPU %d; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 203 }
```

```
starThreshLicense NOTIFICATION-TYPE
```

```
OBJECTS { starThreshPct, starThreshMeasuredPct, starServiceType }
```

STATUS current

DESCRIPTION

"The percentage available, licensed subscribers has fallen below the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearLicense notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: license threshold for service %s threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {2,0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 204 }
```

starThreshClearLicense NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct, starServiceType }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: license threshold for service %s threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {2,0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 205 }
```

starThreshSubscriberTotal NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of subscribers is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearSubscriberTotal notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: subscriber total threshold; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 206 }
```

starThreshClearSubscriberTotal NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: subscriber total threshold CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 207 }
```

starThreshSubscriberActive NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of active subscribers is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearSubscriberActive notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: active subscribers threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 208 }
```

starThreshClearSubscriberActive NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: active subscribers threshold CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 209 }
```

starThreshPortRxUtil NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"The Rx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPortRxUtil notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: port rx utilization threshold on slot %d port %d threshold %d%% measured %d%% UUID %s"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 210 }
```

starThreshClearPortRxUtil NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: port rx utilization threshold clear on slot %d port %d threshold %d%% measured %d%% UUID %s"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 211 }
```

starThreshPortTxUtil NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

"The Tx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPortTxUtil notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: port tx utilization threshold on slot %d port %d threshold %d%% measured %d%% UUID %s"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 212 }
```

starThreshClearPortTxUtil NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct, starSlotSerialNumber }
```

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: port tx utilization threshold clear on slot %d port %d threshold %d%% measured %d%% UUID %s"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 213 }

starThreshPortHighActivity NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct, starSlotSerialNumber }

STATUS current

DESCRIPTION

"High activity on the port has exceeded the configured threshold value during the current monitoring period."

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPortHighActivity notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: port high activity threshold on slot %d port %d threshold %d%% measured %d%% UUID %s"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 214 }

starThreshClearPortHighActivity NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct, starSlotSerialNumber }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: port high activity threshold clear on slot %d port %d threshold %d%% measured %d%% UUID %s"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 215 }

starThreshAAAAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of AAA authentication failures has exceeded the configured threshold during the current monitoring period."

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearAAAAuthFail notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: AAA authentication failures threshold; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 216 }

starThreshClearAAAAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: AAA authentication failures threshold CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 217 }

starThreshAAAAuthFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of AAA authentication requests which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearAAAAuthFailRate notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: AAA authentication failure rate threshold for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 218 }

starThreshClearAAAAuthFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: AAA authentication failure rate threshold clear for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 219 }

starThreshAAAacctFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of AAA accounting failures has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearAAAacctFail notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: AAA accounting failures threshold; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 220 }

starThreshClearAAAacctFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: AAA accounting failures threshold CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 221 }

starThreshAAAacctFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of AAA accounting requests which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearAAAacctFailRate notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: AAA accounting failure rate threshold for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 222 }
```

starThreshClearAAAacctFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: AAA accounting failure rate threshold clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 223 }
```

starThreshAAARetryRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of AAA requests which has to be retried has exceeded the configured threshold
during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearAAARetryRate notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: AAA retry rate threshold for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 224 }
```

starThreshClearAAARetryRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: AAA retry rate threshold clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 225 }
```

starThreshCallSetup NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of call setup operations has exceeded the configured threshold during the
current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearCallSetup notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: call setups threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
::= { starentTraps 226 }
```

starThreshClearCallSetup NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: call setups threshold CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 227 }
```

starThreshCallSetupFailure NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of call setup operations which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCallSetupFailure notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: call setup failures threshold; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 228 }
```

starThreshClearCallSetupFailure NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: call setup failures threshold CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 229 }
```

starThreshCallRejectNoResource NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of call setup operations which were rejected due to a no resource condition has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCallRejectNoResource notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: calls rejects for no resource condition threshold; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 230 }
```

starThreshClearCallRejectNoResource NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: calls rejects for no resource condition threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 231 }
```

starThreshPacketsFilteredDropped NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of user data packets filtered has exceeded the configured threshold for the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPacketsFilteredDropped notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: user packets filtered threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 232 }
```

starThreshClearPacketsFilteredDropped NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: user packets filtered threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 233 }
```

starThreshPacketsForwarded NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of user data packets forwarded has exceeded the configured threshold for the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPacketsForwarded notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: user packets forwarded threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 234 }
```

starThreshClearPacketsForwarded NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: user packets forwarded threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 235 }
```

starThreshSessCPUThroughput NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshMB, starThreshMeasuredMB }

STATUS current

DESCRIPTION

"The total session throughput for the specified processor has exceeded the configured threshold for the current monitoring period."

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearSessCPUThroughput notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[Card %d] Threshold: CPU throughput threshold on CPU %d; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 236 }

starThreshClearSessCPUThroughput NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshMB, starThreshMeasuredMB }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Card %d] Threshold: CPU throughput threshold CLEAR on CPU %d; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 237 }

starThreshIPPoolAvail NOTIFICATION-TYPE

OBJECTS { starIPPoolContext, starIPPoolGroup, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The available IP pool addresses in a context has fallen below the configured threshold"

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearIPPoolAvail notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: IP Pool availability threshold for context %s pool group %s threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 238 }

starThreshClearIPPoolAvail NOTIFICATION-TYPE

OBJECTS { starIPPoolContext, starIPPoolGroup, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: IP Pool availability threshold clear for context %s pool group %s threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 239 }

starThreshCPUUtilization10Sec NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The CPU utilization of 10 second measurement for the identified processor has exceeded for configured threshold value for the current monitoring period."

--#SUMMARY "[Card] Threshold: 10 Second Average utilization for card %d CPU %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

```
::= { starentTraps 240 }
```

```
starThreshClearCPUUtilization10Sec NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[Card] Threshold: 10 Second Average utilization clear for card %dCPU %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 241 }
```

```
starThreshCPULoad NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The CPU load for the identified processor has exceeded for configured  
threshold value for the current monitoring period."
```

```
--#SUMMARY "[Card %d] Threshold: CPU Load for CPU %d; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 242 }
```

```
starThreshClearCPULoad NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[Card %d] Threshold: CPU Load CLEAR for CPU %d; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 243 }
```

```
starThreshCPUMemUsage NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The CPU mem usage for the identified processor has exceeded for configured  
threshold value for the current monitoring period."
```

```
--#SUMMARY "[Card] Threshold: CPU Memory Usage for card %d CPU %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 244 }
```

```
starThreshClearCPUMemUsage NOTIFICATION-TYPE
```

```
OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[Card] Threshold: Memory Usage clear for card %d CPU %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 245 }
```

```
starThreshPDSNSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of PDSN sessions is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Total PDSN Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 246 }
```

starThreshClearPDSNSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total PDSN Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 247 }
```

starThreshGGSNSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of GGSN sessions is above the configured threshold value."
--#SUMMARY "[System] Threshold: Total GGSN Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 248 }
```

starThreshClearGGSNSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total GGSN Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 249 }
```

starThreshHASessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of HA sessions is above the configured threshold value."
--#SUMMARY "[System] Threshold: Total HA Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 250 }
```

starThreshClearHASessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total HA Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 251 }
```

starThreshLNSSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of L2TP LNS sessions is above the configured threshold value."
--#SUMMARY "[System] Threshold: Total L2TP LNS Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 252 }
```

starThreshClearLNSSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total L2TP LNS Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 253 }
```

starThreshPerServicePDSNSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of PDSN sessions in a service is above the configured threshold value."
--#SUMMARY "[System] Threshold: Per Service PDSN Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 254 }
```

starThreshClearPerServicePDSNSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service PDSN Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 255 }
```

starThreshPerServiceGGSNSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of GGSN sessions in a service is above the configured threshold value."
--#SUMMARY "[System] Threshold: Per Service GGSN Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 256 }
```

starThreshClearPerServiceGGSNSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service GGSN Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 257 }
```

starThreshPerServiceHASessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of HA sessions in a service is above the configured threshold value."
--#SUMMARY "[System] Threshold: Per Service HA Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 258 }
```

starThreshClearPerServiceHASessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service HA Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 259 }
```

starThreshPerServiceLNSSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of L2TP LNS sessions in a service is above the configured threshold value."
--#SUMMARY "[System] Threshold: Per Service L2TP LNS Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 260 }
```

starThreshClearPerServiceLNSSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service L2TP LNS Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 261 }
```

starThreshIPPoolHold NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The percentage IP pool addresses in HOLD state in a context has gone above the configured
    threshold"
--#SUMMARY "[System] Threshold: IP Pool Address in Hold State for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 262 }
```

starThreshClearIPPoolHold NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: IP Pool Address in Hold State clear for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 263 }
```

starThreshIPPoolUsed NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The percentage IP pool addresses in USED state in a context has gone above the configured
    threshold"
```



```
--#SUMMARY "[System] Threshold: IP Pool Address in Used State for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 264 }
```

starThreshClearIPPoolUsed NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: IP Pool Address in Used State clear for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 265 }
```

starThreshIPPoolRelease NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The percentage IP pool addresses in RELEASE state in a context has gone above the configured threshold"

```
--#SUMMARY "[System] Threshold: IP Pool Address in Release State for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 266 }
```

starThreshClearIPPoolRelease NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: IP Pool Address in Release State clear for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 267 }
```

starThreshIPPoolFree NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The percentage IP pool addresses in HOLD state in a context has gone below the configured threshold"

```
--#SUMMARY "[System] Threshold: IP Pool Address in Free State for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 268 }
```

starThreshClearIPPoolFree NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: IP Pool Address in Free State clear for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 269 }
```

starThreshAAAActArchive NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
```

DESCRIPTION

"The AAA accounting archive size has gone above the configured threshold"

--#SUMMARY "[System] Threshold: AAA Accounting Archive Size; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 270 }

starThreshClearAAAacctArchive NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: AAA Accounting Archive Size CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 271 }

starThreshPortSpecRxUtil NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct }

STATUS deprecated

DESCRIPTION

"The Rx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPortSpecRxUtil notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: port rx utilization threshold on card %d port %d; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 272 }

starThreshClearPortSpecRxUtil NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct }

STATUS deprecated

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: port rx utilization threshold CLEAR on card %d port %d; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 273 }

starThreshPortSpecTxUtil NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct }

STATUS deprecated

DESCRIPTION

"The Tx utilization of the port has exceeded the configured threshold value during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearPortSpecTxUtil notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: port tx utilization threshold on card %d port %d; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 274 }

starThreshClearPortSpecTxUtil NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starThreshPct, starThreshMeasuredPct }

STATUS deprecated

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: port tx utilization threshold CLEAR on card %d port %d; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 275 }

starThreshHACallSetupRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The per-context HA call setup rate (calls per second) has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearHACallSetupRate notification will be generated when the measured
 value falls below the threshold."

--#SUMMARY "[VPN %s] Threshold: HA Per-Context Call Setup Rate; measured %d (cps) threshold %d (cps)"

--#ARGUMENTS {0,2,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 276 }

starThreshClearHACallSetupRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[VPN %s] Threshold: HA Per-Context Call Setup Rate CLEAR; measured %d (cps) threshold %d (cps)"

--#ARGUMENTS {0,2,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 277 }

starThreshHASvcCallSetupRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The per-service HA Call setup rate (calls per second) has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearHASvcCallSetupRate notification will be generated when the measured
 value falls below the threshold."

--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Call Setup Rate; measured %d (cps) threshold %d (cps)"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 278 }

starThreshClearHASvcCallSetupRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Call Setup Rate CLEAR; measured %d (cps) threshold %d (cps)"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 279 }
```

starThreshHASvcRegReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The per-service HA Reg Reply Error count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearHASvcRegReplyError notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Reg Reply Error; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 280 }
```

starThreshClearHASvcRegReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Reg Reply Error CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 281 }
```

starThreshHASvcReregReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The per-service HA Rereg Reply Error count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearHASvcReregReplyError notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Rereg Reply Error; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 282 }
```

starThreshClearHASvcReregReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Rereg Reply Error CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 283 }
```

starThreshHASvcDeregReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The per-service HA Dereg Reply Error count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearHASvcDeregReplyError notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Dereg Reply Error; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 284 }
```

starThreshClearHASvcDeregReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service Dereg Reply Error CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 285 }
```

starThreshFASvcRegReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service FA Reg Reply Error count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearFASvcRegReplyError notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service FA-%s-%s] Threshold: FA Per-Service Reg Reply Error; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 286 }
```

starThreshClearFASvcRegReplyError NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[Service FA-%s-%s] Threshold: FA Per-Service Reg Reply Error CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 287 }
```

starThreshPDSNCallSetupRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Context PDSN Call Setup Rate (calls per second) has gone above the
configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDSNCallSetupRate notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[VPN %s] Threshold: PDSN Per-Context Call Setup Rate; measured %d (cps) threshold %d (cps)"
--#ARGUMENTS {0,2,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 288 }
```

```

starThreshClearPDSNCallSetupRate NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[VPN %s] Threshold: PDSN Per-Context Call Setup Rate CLEAR; measured %d (cps) threshold %d (cps)"
--#ARGUMENTS {0,2,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 289 }

starThreshPDSNSvcCallSetupRate NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The Per-Service PDSN Call Setup Rate (calls per second) has gone above the
    configured threshold

    Probable Cause: This is a user configurable threshold.

    If the thresholding subsystem is configured to run in an 'alarm' model,
    a starThreshClearPDSNSvcCallSetupRate notification will be generated when the measured
    value falls below the threshold."

--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service Call Setup Rate; measured %d (cps) threshold %d (cps)"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 290 }

starThreshClearPDSNSvcCallSetupRate NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service Call Setup Rate CLEAR; measured %d (cps) threshold %d (cps)"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 291 }

starThreshPDSNSvcA11RRPFailure NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The Per-Service PDSN A11 RRP Failure count has gone above the configured threshold

    Probable Cause: This is a user configurable threshold.

    If the thresholding subsystem is configured to run in an 'alarm' model,
    a starThreshClearPDSNSvcA11RRPFailure notification will be generated when the measured
    value falls below the threshold."
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 RRP Failure; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 292 }

starThreshClearPDSNSvcA11RRPFailure NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 RRP Failure CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL

```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 293 }
```

```
starThreshPDSNSvcA11RRQMsgDiscard NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The Per-Service PDSN A11 RRQ Msg Discard count has gone above the configured threshold
```

```
Probable Cause: This is a user configurable threshold.
```

```
If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDSNSvcA11RRQMsgDiscard notification will be generated when the measured
value falls below the threshold."
```

```
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 RRQ Msg Discard; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 294 }
```

```
starThreshClearPDSNSvcA11RRQMsgDiscard NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 RRQ Msg Discard CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 295 }
```

```
starThreshPDSNSvcA11RACMsgDiscard NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The Per-Service PDSN A11 RAC Msg Discard count has gone above the configured threshold
```

```
Probable Cause: This is a user configurable threshold.
```

```
If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDSNSvcA11RACMsgDiscard notification will be generated when the measured
value falls below the threshold."
```

```
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 RAC Msg Discard; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 296 }
```

```
starThreshClearPDSNSvcA11RACMsgDiscard NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 RAC Msg Discard CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 297 }
```

```
starThreshPDSNSvcA11PPPSendDiscard NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The Per-Service PDSN A11 PPP Send Discard count has gone above the configured threshold
```

```
Probable Cause: This is a user configurable threshold.
```

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDSNSvcA11PPPSendDiscard notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service All PPP Send Discard; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 298 }
```

starThreshClearPDSNSvcA11PPPSendDiscard NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Service PDSN-%s-%s] Threshold: PDSN Per-Service A11 PPP Send Discard CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 299 }
```

starThreshAAAMgrQueue NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The Per-AAA Manager internal request queue usage has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearAAAMgrQueue will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: AAA Mgr internal request queue for AAA Manager %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 300 }
```

starThreshClearAAAMgrQueue NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: AAA Mgr internal request queue clear for AAA Manager %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 301 }
```

starThreshAAAacctArchiveQueue1 NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The Per-Sessmgr Archive queue usage is above the configured threshold percentage

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearAAAacctArchiveQueue-1 notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Sessmgr Archive Queue for SessMgr instance %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 505 }
```



```

starThreshClearAAAActArchiveQueue1 NOTIFICATION-TYPE
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold:Sessmgr Archive Queue clear for SessMgr instance %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 506 }

starThreshAAAActArchiveQueue2 NOTIFICATION-TYPE
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The Sessmgr Archive queue usage is above the configured threshold percentage

    Probable Cause: This is a user configurable threshold.

    If the thresholding subsystem is configured to run in an 'alarm' model,
    a starThreshClearAAAActArchiveQueue-2 notification will be generated when the measured
    value falls below the threshold."
--#SUMMARY "[System] Threshold: Sessmgr Archive Queue for Sessmgr instance %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 507 }

starThreshClearAAAActArchiveQueue2 NOTIFICATION-TYPE
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Sessmgr Archive Queue clear for Sessmgr instance %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 508 }

starThreshAAAActArchiveQueue3 NOTIFICATION-TYPE
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The Sessmgr Archive queue usage is above the configured threshold percentage

    Probable Cause: This is a user configurable threshold.

    If the thresholding subsystem is configured to run in an 'alarm' model,
    a starThreshClearAAAActArchiveQueue-3 notification will be generated when the measured
    value falls below the threshold."
--#SUMMARY "[System] Threshold: Sessmgr Archive Queue for Sessmgr instance %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 509 }

starThreshClearAAAActArchiveQueue3 NOTIFICATION-TYPE
OBJECTS { starTaskInstance, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Sessmgr Archive Queue Clear for Sessmgr instance %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 510 }

```

starThreshDnsLookupSrvFailure NOTIFICATION-TYPE

OBJECTS { starContextName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Total number of DNS SRV lookup failures is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearSrvLookupSrvFailure notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[System] Threshold: DNS SRV lookup failure; context %s measured %d threshold %d"

--#ARGUMENTS {0,2,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 511 }

starThreshClearDnsLookupSrvFailure NOTIFICATION-TYPE

OBJECTS { starContextName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: DNS SRV lookup failure CLEAR; context %s measured %d threshold %d"

--#ARGUMENTS {0,2,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 512 }

starThreshCPUOrbsWarn NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The ORBs task has exceeding the CPU usage configured as a warning"

--#SUMMARY "[System] Threshold: ORBs process CPU warning on card %d CPU %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 302 }

starThreshClearCPUOrbsWarn NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: ORBs process CPU warning clear on card %d CPU %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 303 }

starThreshCPUOrbsCritical NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The ORBs task has exceeded the CPU usage configured as a critical error"

--#SUMMARY "[System] Threshold: ORBs process CPU critical on card %d CPU %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 304 }

starThreshClearCPUOrbsCritical NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: ORBs process CPU critical clear on card %d CPU %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 305 }

starThreshRPSetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The RP call setup failure rate has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: RP Setup failure rate for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 306 }

starThreshClearRPSetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: RP Setup failure rate clear for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 307 }

starThreshPPPSetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The PPP call setup failure rate has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: PPP Setup failure rate for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 308 }

starThreshClearPPPSetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: PPP Setup failure rate clear for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 309 }

starThreshStorageUtilization NOTIFICATION-TYPE

OBJECTS { starStorageSlot, starStorageName, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The utilization of a mass storage device has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: Mass storage device usage on card %d storage device %s threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 310 }

starThreshClearStorageUtilization NOTIFICATION-TYPE

OBJECTS { starStorageSlot, starStorageName, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: Mass storage device usage clear on card %d storage device %s threshold %d%% measured %d%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 311 }

starThreshDCCAProtocolErrors NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of DCCA Protocol Errors has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: DCCAProtocol Errors; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 312 }

starThreshClearDCCAProtocolErrors NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: DCCA Protocol Errors CLEAR; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 313 }

starThreshDCCABadAnswers NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of DCCA BadAnswers has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: DCCA BadAnswers; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 314 }

starThreshClearDCCABadAnswers NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: DCCA BadAnswers CLEAR; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 315 }

starThreshDCCAUnknownRatingGroup NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of DCCA UnknownRatingGroup has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: DCCA UnknownRatingGroup; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 316 }

starThreshClearDCCAUnknownRatingGroup NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: DCCA UnknownRatingGroup CLEAR; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 317 }

starThreshDCCARatingFailed NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of DCCA RatingFailed has exceeded the configured threshold"

--#SUMMARY "[System] Threshold: DCCA RatingFailed; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 318 }

starThreshClearDCCARatingFailed NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[System] Threshold: DCCA RatingFailed CLEAR; %d measured threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 319 }

starThreshIPSECIKRequests NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of IPSEC IKE requests seen for this HA service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearIPSECIKRequests notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC IKE Requests; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 320 }

starThreshClearIPSECIKRequests NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "Service HA-%s-%s] Threshold: HA Per-Service IPSEC IKE Requests CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 321 }

starThreshIPSECIKFailures NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of IPSEC IKE failures seen for this HA service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearIPSECIKEFailures notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC IKE Failed; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 322 }
```

starThreshClearIPSECIKEFailures NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear"

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC IKE Failures CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 323 }
```

starThreshIPSECIKEFailRate NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The rate of IPSEC IKE failures (as a percentage of total requests) seen for this HA service
has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearIPSECIKEFailRate notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service] Threshold: HA Per-Service IPSEC IKE Failure Rate for context %s service %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 324 }
```

starThreshClearIPSECIKEFailRate NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear"

```
--#SUMMARY "[Service] Threshold: HA Per-Service IPSEC IKE Failure Rate clear for context %s service %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 325 }
```

starThreshIPSECTunSetup NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The number of IPSEC tunnels setup over the last measurement period for this HA service
has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearIPSECTunSetup notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC Tunnels Setup; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
::= { starentTraps 326 }
```

starThreshClearIPSECTunSetup NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear"

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC Tunnels Setup CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 327 }
```

starThreshIPSECTunEstabl NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The current number of IPSEC tunnels established for this HA service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearIPSECTunEstabl notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC Tunnels Established; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 328 }
```

starThreshClearIPSECTunEstabl NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear"

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC Tunnels Established CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 329 }
```

starThreshIPSECCallReqRej NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of IPSEC Rejected Call Requests has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold. Reject Call Requests indicate that an IPSEC Manager has reached its maximum allowable number of IPSEC tunnels.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearIPSECTunnelsTotal notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC Reject Call Requests CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 330 }
```

starThreshClearIPSECCallReqRej NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear"

--#SUMMARY "[Service HA-%s-%s] Threshold: HA Per-Service IPSEC Rejected Call Requests CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 331 }

starThreshCSCFSvcRouteFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service CSCF Route failure count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearCSCFSvcRouteFailure notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Route failure; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 332 }

starThreshClearCSCFSvcRouteFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Route failure CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 333 }

starThreshContFiltRating NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of Content Filtering Rating operations performed has gone above
the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearContFiltRating notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[System] Threshold: Content Filtering 'ratings'; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 334 }

starThreshClearContFiltRating NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Content Filtering 'ratings' CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 335 }

starThreshContFiltBlock NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of Content Filtering Block operations performed has gone above the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearContFiltBlock notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: Content Filtering 'blocks'; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 336 }

starThreshClearContFiltBlock NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Content Filtering 'blocks' CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 337 }

starThreshCDRFileSpace NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The CDR file space usage is above the configured threshold percentage

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCDRFileSpaceOverLimit notification will be generated when the measured value falls below the threshold."

--#SUMMARY "Threshold: CDR File space for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 338 }

starThreshClearCDRFileSpace NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "Threshold: CDR File space clear for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 339 }

starThreshEDRFileSpace NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The EDR file space usage is above the configured threshold percentage

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearEDRFileSpaceOverLimit notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "Threshold: EDR File space for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 340 }
```

```
starThreshClearEDRFileSpace NOTIFICATION-TYPE
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "Threshold: EDR File space clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 341 }
```

```
starThreshPDIFCurrSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The chassis-wide count of current PDIF sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDIFCurrSess notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PDIF Current Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 342 }
```

```
starThreshClearPDIFCurrSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PDIF Current Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 343 }
```

```
starThreshPDIFCurrActSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The chassis-wide count of current PDIF active sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDIFCurrActiveSess notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PDIF Current Active Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 344 }
```

```
starThreshClearPDIFCurrActSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: PDIF Current Active Sessions CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 345 }

starThreshCDRFlowControl NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of Charging Data Record (CDR) records which have been discarded at an ACSMGR due to flow control has gone above the configured threshold.

Probable Cause: This is a user configurable threshold. This threshold potentially indicates an overload condition due which prevents processes CDR messages at the same rate as the incoming packets."

--#SUMMARY "[System] Threshold: Total num of CDR records discarded by due to flow control; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 346 }

starThreshClearCDRFlowControl NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Total number of CDR records discarded due to flow control CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 347 }

starThreshASNGWSessTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The ASNGW session timeout has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshASNGWSessTimeout notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: ASNGW Session Timeout; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 348 }

starThreshClearASNGWSessTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: ASNGW Session Timeout CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 349 }

starThreshASNGWSessSetupTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The ASNGW session setup timeout has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshASNGWSessSetupTimeout notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[System] Threshold: ASNGW Session Setup Timeout; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 350 }

starThreshClearASNGWSessSetupTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: ASNGW Session Setup Timeout CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 351 }

starThreshASNGWAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of ASNGW authentication failures has exceeded the configured threshold
during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshASNGWAuthFail notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[System] Threshold: ASNGW authentication failures threshold; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 352 }

starThreshClearASNGWAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: ASNGW authentication failures threshold CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 353 }

starThreshASNGWR6InvNai NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of ASNGW R6 Invalid Nai has exceeded the configured threshold
during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshASNGWR6InvNai notification will be generated when the measured
value falls below the threshold. This trap is obsolete."

```
--#SUMMARY "[System] Threshold: ASNGW R6 Invalid NAI threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 354 }
```

starThreshClearASNGWR6InvNai NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS obsolete
DESCRIPTION
```

"The threshold condition is now clear. This trap is obsolete."

```
--#SUMMARY "[System] Threshold: ASNGW R6 Invalid NAI threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 355 }
```

starThreshASNGWMaxEAPRetry NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS obsolete
DESCRIPTION
```

"The number of ASNGW Maximum EAP Retry has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshASNGWMaxEAPRetry notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: ASNGW Maximum EAP Retry threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 356 }
```

starThreshClearASNGWMaxEAPRetry NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS obsolete
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: ASNGW Maximum EAP Retry threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 357 }
```

starThreshASNGWNWEntryDenial NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS obsolete
DESCRIPTION
```

"The number of ASNGW Network Entry Denial has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshASNGWNWEntryDenial notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: ASNGW Network Entry Denial threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 358 }
```

starThreshClearASNGWNWEntryDenial NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: ASNGW Network Entry Denial threshold CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 359 }

starThreshASNGWHandoffDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of ASNGW Handoff Denial has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshASNGWHandoffDenial notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: ASNGW Handoff Denial threshold; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 360 }

starThreshClearASNGWHandoffDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: ASNGW Handoff Denial threshold CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 361 }

starThreshSGSNSessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of SGSN sessions is above the configured threshold value."

--#SUMMARY "[System] Threshold: Total SGSN Sessions; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 362 }

starThreshClearSGSNSessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Total SGSN Sessions CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 363 }

starThreshPerServiceSGSNSessions NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of SGSN sessions in a service is above the configured threshold value."

--#SUMMARY "[System] Threshold: Per Service SGSN Sessions, context %s service name %s; measured %d threshold %d"

```
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 364 }
```

starThreshClearPerServiceSGSNSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service SGSN Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 365 }
```

starThreshSGSNPdpSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of SGSN PDP sessions is above the configured threshold value."
--#SUMMARY "[System] Threshold: Total SGSN PDP Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 366 }
```

starThreshClearSGSNPdpSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total SGSN PDP Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 367 }
```

starThreshPerServiceSGSNPdpSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of SGSN PDP sessions in a service is above the configured threshold value."
--#SUMMARY "[System] Threshold: Per Service SGSN PDP Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 368 }
```

starThreshClearPerServiceSGSNPdpSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service SGSN PDP Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 369 }
```

starThreshFWDosAttack NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The cumulative number of FW Dos-Attacks has exceeded the configured
    threshold during the current monitoring period."
```

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearFWDosAttack notification will be generated when the
measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Firewall 'Dos-Attack'; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 370 }
```

starThreshClearFWDosAttack NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Firewall 'Dos-Attack' CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 371 }
```

starThreshFWDropPacket NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The cumulative number of FW Dropped Packets has exceeded the configured
threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearFWDropPacket notification will be generated when the
measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Firewall 'Drop-Packet'; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 372 }
```

starThreshClearFWDropPacket NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Firewall 'Drop-Packet' CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 373 }
```

starThreshFWDenyRule NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The cumulative number of FW Deny-Rules has exceeded the configured
threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearFWDenyRule notification will be generated when the
measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Firewall 'Deny-Rule'; measured %d threshold %d"
--#ARGUMENTS {1,0}
```



```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 374 }
```

starThreshClearFWDenyRule NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Firewall 'Deny-Rule' CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 375 }
```

starThreshFWNoRule NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The cumulative number of FW No Rules has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearFWNoRule notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Firewall 'No-Rule'; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 376 }
```

starThreshClearFWNoRule NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Firewall 'No-Rule' CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 377 }
```

starThreshPHSGWSessTimeout NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The PHSGW session timeout has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshPHSGWSessTimeout notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW Session Timeout; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 378 }
```

starThreshClearPHSGWSessTimeout NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW Session Timeout CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 379 }
```

starThreshPHSGWSessSetupTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The PHSGW session setup timeout has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshPHSGWSessSetupTimeout notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW Session Setup Timeout; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 380 }
```

starThreshClearPHSGWSessSetupTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW Session Setup Timeout CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 381 }
```

starThreshPHSGWAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of PHSGW authentication failures has exceeded the configured threshold
during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshPHSGWAuthFail notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW authentication failures threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 382 }
```

starThreshClearPHSGWAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW authentication failures threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 383 }
```

starThreshPHSGWMaxEAPRetry NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of PHSGW Maximum EAP Retry has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshPHSGWMaxEAPRetry notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW Maximum EAP Retry threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 384 }
```

starThreshClearPHSGWMaxEAPRetry NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW Maximum EAP Retry threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 385 }
```

starThreshPHSGWNWEntryDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of PHSGW Network Entry Denial has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshPHSGWNWEntryDenial notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW Network Entry Denial threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 386 }
```

starThreshClearPHSGWNWEntryDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW Network Entry Denial threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 387 }
```

starThreshPHSGWHandoffDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of PHSGW Handoff Denial has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshPHSGWHandoffDenial notification will be generated when the measured

value falls below the threshold."

--#SUMMARY "[System] Threshold: PHSGW Handoff Denial threshold; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 388 }

starThreshClearPHSGWHandoffDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: PHSGW Handoff Denial threshold CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 389 }

starThreshASNGWSessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The total number of ASNGW sessions is above the configured threshold value."

--#SUMMARY "[System] Threshold: Total ASNGW Sessions; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 390 }

starThreshClearASNGWSessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Total ASNGW Sessions CLEAR; measured %d threshold %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 391 }

starThreshPerServiceASNGWSessions NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The total number of ASNGW sessions in a service is above the configured threshold value."

--#SUMMARY "[System] Threshold: Per Service ASNGW Sessions, context %s service name %s; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 392 }

starThreshClearPerServiceASNGWSessions NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Per Service ASNGW Sessions CLEAR, context %s service name %s; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 393 }

starThreshPHSPCSessSetupTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The PHSPC session setup timeout has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshPHSPCSessSetupTimeout notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSPC Session Setup Timeout; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 394 }
```

starThreshClearPHSPCSessSetupTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSPC Session Setup Timeout CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 395 }
```

starThreshPHSPCSleepModeTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The PHSPC idle mode timeout has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshPHSPCSleepModeTimeout notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSPC Idle Mode Timeout; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 396 }
```

starThreshClearPHSPCSleepModeTimeout NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSPC Idle Mode Timeout CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 397 }
```

starThreshPHSPCSmEntryDenial NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS obsolete

DESCRIPTION

"The number of PHSPC sm entry denial has exceeded the configured threshold
during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshPHSPCSmEntryDenial notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSPC Sm Entry Denial threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 398}
```

starThreshClearPHSPCSmEntryDenial NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS obsolete
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: PHSPC Sm Entry Denial threshold CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 399 }
```

starThreshSGWSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of SGW sessions is above the configured threshold value.

    Probable Cause: This is a user configurable threshold.

    If the thresholding subsystem is configured to run in an 'alarm' model,
    a starThreshClearSGWSessions notification will be generated when the measured
    value falls below the threshold."
--#SUMMARY "[System] Threshold: Total SGW Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 408 }
```

starThreshClearSGWSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total SGW Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 409 }
```

starThreshPGWSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The total number of PGW sessions is above the configured threshold value.

    Probable Cause: This is a user configurable threshold.

    If the thresholding subsystem is configured to run in an 'alarm' model,
    a starThreshClearSGWSessions notification will be generated when the measured
    value falls below the threshold."
--#SUMMARY "[System] Threshold: Total PGW Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 410 }
```

starThreshClearPGWSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total PGW Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 411 }
```

starThreshLMASessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of LMA sessions is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearLMASessions notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Total LMA Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 412 }
```

starThreshClearLMASessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total LMA Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 413 }
```

starThreshMAGSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of MAG sessions is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearMAGSessions notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Total MAG Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 414 }
```

starThreshClearMAGSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total MAG Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 415 }
```

starThreshFNGCurrSess NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The chassis-wide count of current FNG sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearFNGCurrSess notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: FNG Current Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 416 }
```

```
starThreshClearFNGCurrSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: FNG Current Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 417 }
```

```
starThreshFNGCurrActSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The chassis-wide count of current FNG active sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearFNGCurrActiveSess notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: FNG Current Active Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 418 }
```

```
starThreshClearFNGCurrActSess NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: FNG Current Active Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 419 }
```

```
starThreshPHSGWEAPOLAuthFailure NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The number of PHSGW EAPOL Auth Failure has exceeded the configured threshold
during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshPHSGWEAPOLAuthFailure notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW EAPOL Auth Failure threshold; measured %d threshold %d"
--#ARGUMENTS {1,0}
```



```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 420 }
```

starThreshClearPHSGWEAPOLAuthFailure NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW EAPOL Auth Failure threshold CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 421 }
```

starThreshPHSGWMaxEAPOLRetry NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The number of PHSGW max EAPOL retry has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshPHSGWMaxEAPOLRetry notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PHSGW max EAPOL retry threshold; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 422 }
```

starThreshClearPHSGWMaxEAPOLRetry NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS obsolete
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PHSGW max EAPOL retry threshold CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 423 }
```

starThreshHSGWSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of HSGW sessions is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearHSGWSessions notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Total HSGW Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 424 }
```

starThreshClearHSGWSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total HSGW Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 425 }
```

starThreshPDGCurrSess NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The chassis-wide count of current PDG sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDGCurrSess notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PDG Current Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 426 }
```

starThreshClearPDGCurrSess NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PDG Current Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 427 }
```

starThreshPDGCurrActSess NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The chassis-wide count of current PDG active sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearPDGCurrActiveSess notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: PDG Current Active Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 428 }
```

starThreshClearPDGCurrActSess NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: PDG Current Active Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 429 }
```

starThreshNATPortChunks NOTIFICATION-TYPE

OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The NAT port chunks utilization of NAT pool is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearNATPortChunks notification will be generated when the measured value exceeds the threshold."

```
--#SUMMARY "[System] Threshold: NAT port chunk utilization in context %s for pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 430 }
```

starThreshClearNATPortChunks NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext,starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: NAT port chunk utilization threshold clear in context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 431 }
```

starThreshGPRSSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of GPRS sessions is above the configured threshold value."

```
--#SUMMARY "[System] Threshold: Total GPRS Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 432 }
```

starThreshClearGPRSSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total GPRS Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 433 }
```

starThreshPerServiceGPRSSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of GPRS sessions in a service is above the configured threshold value."

```
--#SUMMARY "[System] Threshold: Per Service GPRS Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 434 }
```

starThreshClearPerServiceGPRSSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Per Service GPRS Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 435 }
```

```
starThreshGPRSPdpSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of GPRS PDP sessions is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Total GPRS PDP Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 436 }
```

```
starThreshClearGPRSPdpSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: Total GPRS PDP Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 437 }
```

```
starThreshPerServiceGPRSPdpSessions NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of GPRS PDP sessions in a service is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Per Service GPRS PDP Sessions, context %s service name %s; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 438 }
```

```
starThreshClearPerServiceGPRSPdpSessions NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: Per Service GPRS PDP Sessions CLEAR, context %s service name %s; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 439 }
```

```
starThreshMMESessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of subscribers is above the configured threshold value.
```

```
Probable Cause: This is a user configurable threshold.
```

```
If the thresholding subsystem is configured to run in an 'alarm' model,  
a starThreshClearMMESessions notification will be generated when the measured  
value falls below the threshold."
```

```
--#SUMMARY "[System] Threshold: Session total threshold measured %d threshold %d"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 440 }
```

starThreshClearMMESessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Total MME Sessions CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 441 }

starThreshMMEAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of subscribers is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearMMEAuthFail notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[System] Threshold: MME Auth Fail measured %d threshold %d"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 442 }

starThreshClearMMEAuthFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Total MME Auth Fail CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 443 }

starThreshMMEAttachFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of subscribers is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearMMEAttachFail notification will be generated when the measured
value falls below the threshold."

--#SUMMARY "[System] Threshold: MME AttachFail measured %d threshold %d"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 444 }

starThreshClearMMEAttachFail NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: Total MME Attach Fail CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 445 }

starThreshCSCFSvcRegRcvdRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service CSCF Registration Per Interval count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcRegRcvdRate notification will be generated when the measured
 value falls below the threshold."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Registrations Per Interval; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 446 }

starThreshClearCSCFSvcRegRcvdRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Registrations Per Interval CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 447 }

starThreshCSCFSvcTotalActiveReg NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service CSCF Total Active Registrations count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcTotalActiveReg notification will be generated when the measured
 value falls below the threshold."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Total Active Registrations; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 448 }

starThreshClearCSCFSvcTotalActiveReg NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Total Active Registrations CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 449 }

starThreshCSCFSvcInviteRcvdRate NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service CSCF Calls Per Interval count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcInviteRcvdRate notification will be generated when the measured
 value falls below the threshold."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Calls Per Interval ; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 450 }
```

starThreshClearCSCFSvcInviteRcvdRate NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Calls Per Interval CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 451 }
```

starThreshCSCFSvcTotalActiveCalls NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The Per-Service CSCF Total Active Calls count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcTotalActiveCalls notification will be generated when the measured
 value falls below the threshold."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Total Active Calls; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 452 }
```

starThreshClearCSCFSvcTotalActiveCalls NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Total Active Calls CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 453 }
```

starThreshCSCFSvcTotalCallFailure NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The Per-Service CSCF Total Call Failure count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcTotalCallFailure notification will be generated when the measured
 value falls below the threshold."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Total Call Failure; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 454 }
```

starThreshClearCSCFSvcTotalCallFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Total Call Failure CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 455 }

starThreshCSCFSvcErrorNoResource NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service CSCF No resource failure count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcErrorNoResource notification will be generated when the measured
 value falls below the threshold."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service No resource failure; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 456 }

starThreshClearCSCFSvcErrorNoResource NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service No resource failure CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 457 }

starThreshCSCFSvcErrorTcp NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Per-Service CSCF Tcp failure count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
 a starThreshClearCSCFSvcErrorTcp notification will be generated when the measured
 value falls below the threshold."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Tcp failure; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 458 }

starThreshClearCSCFSvcErrorTcp NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Tcp failure CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}


```
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 459 }
```

starThreshCSCFSvcErrorPresence NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The Per-Service CSCF Presence failure count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearCSCFSvcErrorPresence notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Presence failure; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 460 }
```

starThreshClearCSCFSvcErrorPresence NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Presence failure CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 461 }
```

starThreshCSCFSvcErrorRegAuth NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The Per-Service CSCF Reg-Auth failure count has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearCSCFSvcErrorRegAuth notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Reg-Auth failure; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 462 }
```

starThreshClearCSCFSvcErrorRegAuth NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[Service CSCF-%s-%s] Threshold: CSCF Per-Service Reg-Auth failure CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 463 }
```

starThreshBGPRoutes NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The Total number of BGP routes is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearBGPRoutes notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: maximum routes for context %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 464 }
```

starThreshClearBGPRoutes NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: maximum routes clear for context %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 465 }
```

starThreshPCCPolicySessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of PCC-Policy sessions is above the configured threshold value."

```
--#SUMMARY "[System] Threshold: Total PCC-Policy Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 466 }
```

starThreshClearPCCPolicySessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total PCC-Policy Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 467 }
```

starThreshPerServicePCCPolicySessions NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of PCC-Policy sessions in a service is above the configured threshold value."

```
--#SUMMARY "[System] Threshold: Per Service PCC-Policy Sessions, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 468 }
```

starThreshClearPerServicePCCPolicySessions NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Per Service PCC-Policy Sessions CLEAR, context %s service name %s; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 469 }
```

```
starThreshPCCQuotaSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of PCC-Quota sessions is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Total PCC-Quota Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 470 }
```

```
starThreshClearPCCQuotaSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: Total PCC-Quota Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 471 }
```

```
starThreshPerServicePCCQuotaSessions NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of PCC-Quota sessions in a service is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Per Service PCC-Quota Sessions, context %s service name %s; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 472 }
```

```
starThreshClearPerServicePCCQuotaSessions NOTIFICATION-TYPE
```

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: Per Service PCC-Quota Sessions CLEAR, context %s service name %s; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 473 }
```

```
starThreshPCCAFSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of PCC-AF sessions is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Total PCC-AF Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 474 }
```

```
starThreshClearPCCAFSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: Total PCC-AF Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 475 }
```

starThreshPerServicePCCAFSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The total number of PCC-AF sessions in a service is above the configured threshold value."

```
--#SUMMARY "[System] Threshold: Per Service PCC-AF Sessions, context %s service name %s; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 476 }
```

starThreshClearPerServicePCCAFSessions NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Per Service PCC-AF Sessions CLEAR, context %s service name %s; measured %d threshold %d"
```

```
--#ARGUMENTS {0,1,3,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 477 }
```

starThreshNPUUtilization NOTIFICATION-TYPE

```
OBJECTS { starNPUSlot, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

"The overall NPU utilization for the identified processor has exceeded for configured threshold value for the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearNPUUtilization notification will be generated when the measured value falls below the threshold. This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[Card] Threshold: NPU utilization threshold for card %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 478 }
```

starThreshClearNPUUtilization NOTIFICATION-TYPE

```
OBJECTS { starNPUSlot, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear. This is not applicable to QVPC-SI and QVPC-DI."

```
--#SUMMARY "[Card] Threshold: NPU utilization threshold clear for card %d threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 479 }
```

starThreshDnsLookupFailure NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starThreshPct, starThreshMeasuredPct }
```

```
STATUS current
```

```
DESCRIPTION
```

"The Total number of DNS lookup failures is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearDnsLookupFailure notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: DNS lookup failure for context %s threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 480 }
```

starThreshClearDnsLookupFailure NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: DNS lookup failure clear for context %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 481 }
```

starThreshDiameterRetryRate NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The percentage of Diameter requests which has to be retried has exceeded the configured threshold
    during the current monitoring period.
```

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearDiameterRetryRate notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Diameter retry rate threshold for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 482 }
```

starThreshClearDiameterRetryRate NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Diameter retry rate threshold clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 483 }
```

starThreshHNBGWHnbSess NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The chassis-wide count of current HNBGW HNB sessions has gone above the configured threshold"
--#SUMMARY "[System] Threshold: HNBGW HNB Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 484 }
```

starThreshClearHNBGWHnbSess NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: HNBGW HNB Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 485 }
```

```
starThreshHNBGWUeSess NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The chassis-wide count of current HNBGW UE sessions has gone above the configured threshold "
```

```
--#SUMMARY "[System] Threshold: HNBGW UE Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 486 }
```

```
starThreshClearHNBGWUeSess NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: HNBGW UE Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 487 }
```

```
starThreshHNBGWluSess NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The chassis-wide count of current HNBGW IU sessions has gone above the configured threshold"
```

```
--#SUMMARY "[System] Threshold: HNBGW IU Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 488 }
```

```
starThreshClearHNBGWluSess NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: HNBGW IU Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 489 }
```

```
starThreshPerServicePDGSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The total number of PDG sessions in a service is above the configured threshold value."
```

```
--#SUMMARY "[System] Threshold: Per Service PDG Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 491 }
```

```
starThreshClearPerServicePDGSessions NOTIFICATION-TYPE
```

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The threshold condition is now clear."
```

```
--#SUMMARY "[System] Threshold: Per Service PDG Sessions CLEAR,measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 492 }
```

starThreshSystemCapacity NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
  "The System resource capacity has exceeded the configured threshold"
--#SUMMARY "[System] Threshold: System Resource Capacity for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 493 }
```

starThreshClearSystemCapacity NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
  " The threshold condition is now clear for system capacity."
--#SUMMARY "[System] Threshold: System Resource Capacity clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 494 }
```

starThreshTpoRtoTimeout NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
  "The total number of TPO RTO timeouts is above the configured
  threshold value.
  Probable Cause: This is a user configurable threshold.
  If the thresholding subsystem is configured to run in an 'alarm' model,
  a starThreshClearTpoRtoTimeout notification will be generated when the
  measured value falls below the threshold."
--#SUMMARY "[System] Threshold: TPO RTO timeouts; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 495 }
```

starThreshClearTpoRtoTimeout NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
  "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: TPO RTO timeouts CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 496 }
```

starThreshTpoDnsFailure NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
  "The total number of TPO DNS query failure is above the configured threshold value.
  Probable Cause: This is a user configurable threshold.
  If the thresholding subsystem is configured to run in an 'alarm' model,
  a starThreshClearTpoDnsFailure notification will be generated when the
  measured value falls below the threshold. "
--#SUMMARY "[System] Threshold: TPO DNS query failure for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 497 }
```

starThreshClearTpoDnsFailure NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: TPO DNS query failure clear for threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 498 }
```

starThreshTpoLowCompressionGain NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The total number of TPO low compression gain is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearTpoLowCompressionGain notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: TPO TPO low compression gain; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 499 }
```

starThreshClearTpoLowCompressionGain NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: TPO low compression gain CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 500 }
```

starThreshEPDGCurrSess NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The chassis-wide count of current EPDG sessions has gone above the configured threshold

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearEPDGCurrSess notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: EPDG Current Sessions; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 501 }
```

starThreshClearEPDGCurrSess NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: EPDG Current Sessions CLEAR; measured %d threshold %d"
```

```
--#ARGUMENTS {1,0}
```



```
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 502 }
```

```
starThreshCardTemperatureNearPowerOffLimit NOTIFICATION-TYPE
OBJECTS { starSlotNum, starThreshInt, starThreshMeasuredInt}
STATUS current
DESCRIPTION
"On the certain card, the distance between the poweroff/reset point and
current temperature on card is smaller than the setted threshold, during
the current monitoring period.
```

Probable Cause: This is a user configurable threshold.

Possible reason to cause this alarm:

- 1) External temperature is too high;
- 2) One or more fan failures;
- 3) Blockages the prevent fan air inflow/outflow.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCardTemperaturePowerOffLimit notification will be generated when the measured temperature falls, making the distance between the poweroff/reset point and current temperature larger than the setted threshold."

```
--#SUMMARY "[Card] Threshold: Card temperature near power off limit alarm for slot number %d threshold %d measured %d"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 503 }
```

```
starThreshClearCardTemperaturePowerOffLimit NOTIFICATION-TYPE
OBJECTS {starSlotNum, starThreshInt, starThreshMeasuredInt}
STATUS current
DESCRIPTION
"On the certain card, the distance between the poweroff/reset point and
current temperature on card is larger than the setted clear point."
--#SUMMARY "[Card] Threshold: Card temperature near power off limit clear for slot number %d threshold %d measured %d"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 504 }
```

```
starThreshHENBGWHenbSessions NOTIFICATION-TYPE
OBJECTS {starThreshInt, starThreshMeasuredInt}
STATUS current
DESCRIPTION
"The total number of HENBGW Henb sessions is above the configured threshold value.
```

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearHENBGWHenbSessions notification will be generated when the measure value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Total HENBGW Henb Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 513 }
```

```
starThreshClearHENBGWHenbSessions NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
"The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Total HENBGW Henb Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
::= { starentTraps 514 }
```

```
starThreshHENBGWUeSessions NOTIFICATION-TYPE
OBJECTS {starThreshInt, starThreshMeasuredInt}
STATUS current
DESCRIPTION
```

"The total number of HENBGW UE sessions is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearHENBGWUeSessions notification will be generated when the measure value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Total HENBGW Sessions; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 515 }
```

```
starThreshClearHENBGWUeSessions NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total HENBGW UE Sessions CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 516 }
```

```
starThreshHENBGWPagingMessages NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of HENBGW Paging Messages received is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearHENBGWPagingMessages notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: Total HENBGW Paging Messages; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 517 }
```

```
starThreshClearHENBGWPagingMessages NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Total HENBGW Paging Messages CLEAR; measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 518 }
```

```
starThreshPerServiceSAMOGSessions NOTIFICATION-TYPE
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The total number of SAMOG sessions in a service is above the configured threshold value."

```
--#SUMMARY "[System] Threshold: Per Service SAMOG Sessions, measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
::= { starentTraps 519 }
```

starThreshClearPerServiceSAMOGSessions NOTIFICATION-TYPE

```
OBJECTS { starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: Per Service SAMOG Sessions CLEAR, measured %d threshold %d"
--#ARGUMENTS {1,0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 520 }
```

starThreshNATPktDrop NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext,starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The NAT packet drops from a NAT pool is above the configured threshold value.

    Probable Cause: This is a user configurable threshold.
```

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshNATPktDrop notification will be generated when the measured
value exceeds the threshold."

```
--#SUMMARY "[System] Threshold: NAT Pkt Drop in context %s for pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 521 }
```

starThreshClearNATPktDrop NOTIFICATION-TYPE

```
OBJECTS { starIPPoolContext,starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "[System] Threshold: NAT Pkt Drop threshold clear in context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 522 }
```

starThreshFabricEGQDiscards NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starThreshDeviceNum, starThreshMeasuredInt, starThreshInt, starThreshPeriodInt }
STATUS current
DESCRIPTION
    "The number of EGQDiscards observed during configured threshold and interval exceeded.
    Probable Cause: Possible FAP or FE issue. Collect more data by running .show fabric health. command."
--#SUMMARY "Threshold EGQDiscards slot %d device %d measured %d threshold %d per %d sec"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 523 }
```

starThreshClearFabricEGQDiscards NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starThreshDeviceNum, starThreshMeasuredInt, starThreshInt }
STATUS current
DESCRIPTION
    "The threshold condition is now clear."
--#SUMMARY "Threshold EGQDiscards slot %d device %d threshold CLEAR measured %d threshold %d"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 524 }
```

starGILANServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A GILAN Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service GILAN-%s-%s] GILAN service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 525 }

starGILANServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A GILAN Service has stopped

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the GILAN service shutdown was not planned, examine the admin logs for an indication of the failure. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the GILAN service is operational.

Condition Clear Alarm: A starGILANServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service GILAN-%s-%s] GILAN service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 526 }

starThreshEPDGIKEV2SetupAttempts NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of IKEv2 Setup attempts requests seen for this ePDG service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshEPDGIKEV2SetupAttempts notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Attempts; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 527 }

starThreshClearEPDGIKEV2SetupAttempts NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Attempts CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 528 }

starThreshEPDGIKEV2AuthFailures NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of IKEv2 Authentication Failures seen for this ePDG service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshEPDGIKEV2AuthFailures notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Authentication Failures; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 529 }

starThreshClearEPDGIKEV2AuthFailures NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Authentication Failures CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 530 }

starThreshEPDGIKEV2SetupSuccess NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of IKEv2 Setup Success seen for this ePDG service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshEPDGIKEV2SetupSuccess notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Success; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 531 }

starThreshClearEPDGIKEV2SetupSuccess NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear"

--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Success CLEAR; measured %d threshold %d"

--#ARGUMENTS {0,1,3,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 532 }

starThreshEPDGIKEV2SetupFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The number of IKEv2 Setup Failure seen for this ePDG service has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshEPDGIKEV2SetupFailure notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Failure; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 533 }
```

starThreshClearEPDGIKEV2SetupFailure NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshInt, starThreshMeasuredInt }
STATUS current
```

DESCRIPTION

"The threshold condition is now clear"

```
--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Failure CLEAR; measured %d threshold %d"
--#ARGUMENTS {0,1,3,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 534 }
```

starThreshEPDGIKEV2SetupFailureRate NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshPct, starThreshMeasuredPct }
STATUS current
```

DESCRIPTION

"The rate of IKEv2 Setup failures (as a percentage of total requests) seen for this ePDG service
has exceeded the configured threshold.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshEPDGIKEV2SetupFailureRate notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Failure Rate; measured %d%% threshold %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 535 }
```

starThreshClearEPDGIKEV2SetupFailureRate NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starThreshPct, starThreshMeasuredPct }
STATUS current
```

DESCRIPTION

"The threshold condition is now clear"

```
--#SUMMARY "[Service ePDG-%s-%s] Threshold: ePDG Per-Service IKEv2 Setup Failure Rate CLEAR; measured %d%% threshold %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 536 }
```

starThreshLagRxUtil NOTIFICATION-TYPE

```
OBJECTS { starLAGGroup, starThreshPct, starThreshMeasuredPct }
STATUS current
```

DESCRIPTION

"The Rx utilization of port on a lag group has exceeded the configured threshold value during
the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearLagRxUtil notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: lag ports rx utilization threshold for lag group id %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 537 }
```

starThreshClearLagRxUtil NOTIFICATION-TYPE

OBJECTS { starLAGGroup, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: lag ports rx utilization threshold clear for lag group id %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 538 }

starThreshLagTxUtil NOTIFICATION-TYPE

OBJECTS { starLAGGroup, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The Tx utilization of port on a lag group has exceeded the configured threshold value during the current monitoring period."

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearLagTxUtil notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: lag ports tx utilization threshold for lag group id %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 539 }

starThreshClearLagTxUtil NOTIFICATION-TYPE

OBJECTS { starLAGGroup, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: lag ports tx utilization threshold clear for lag group id %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 540 }

starThreshCPUCryptoCoresUtilization NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starCPUCoreNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The CPU Crypto Core utilization has exceeded for configured threshold value for the current monitoring period."

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearCPUCryptoCoresUtilization notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[Card] Threshold: CPU utilization threshold for card %d CPU %d CORE %d threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 541 }

starThreshClearCPUCryptoCoresUtilization NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber, starCPUCoreNumber, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[Card] Threshold: CPU utilization threshold clear card %d for CPU %d CORE %d threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 542}
```

-- Non Thresholds Range 2

starOSPFNeighborDown NOTIFICATION-TYPE

```
OBJECTS { starContextName, starInterfaceName, starInterfaceIPAddress, starOSPFNeighborRouterID, starOSPFFromState, starOSPFToState }
STATUS current
DESCRIPTION
```

"An OSPF neighbor is down.

Condition Clear Alarm: A starOSPFNeighborFull notification will be generated when the neighbor is restored."

```
--#SUMMARY "[VPN %s] OSPF Neighbor down, interface %s/%s, OSPF Neighbor %s, transitioned from state %s to %s"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 1001 }
```

starOSPFNeighborFull NOTIFICATION-TYPE

```
OBJECTS { starContextName, starInterfaceName, starInterfaceIPAddress, starOSPFNeighborRouterID }
STATUS current
DESCRIPTION
```

"An OSPF neighbor is full. A starOSPFNeighborFull notification is only sent for neighbors which had previous been declared down via a starOSPFNeighborDown notification."

```
--#SUMMARY "[VPN %s] OSPF Neighbor full, interface %s/%s, OSPF Neighbor %s"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1002 }
```

starM3UAPSDown NOTIFICATION-TYPE

```
OBJECTS { starSS7rdId, starSS7M3UAPsId }
STATUS current
DESCRIPTION
```

"The M3UA Peer Server is unavailable.

Possible reason: All related Peer Server Processes(PSPs) are in the ASP-DOWN state for this Peer Server.

Condition Clear Alarm: A starM3UAPSActive notification will be generated when the Peer Server becomes reachable as at least one PSP is in ASP-ACTIVE state"

```
--#SUMMARY "[ss7-routing-domain %d] peer-server-%d is down"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1004 }
```

starM3UAPSActive NOTIFICATION-TYPE

```
OBJECTS { starSS7rdId, starSS7M3UAPsId }
STATUS current
DESCRIPTION
```

"Peer Server is available and application traffic is active.This state implies that at least one PSP is in the ASP-ACTIVE state.

starM3UAPSActive is only generated for Application Services which were previously declared down via a starM3UAPSDown notification"

```
--#SUMMARY "[ss7-routing-domain %d] peer-server-%d is active"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1005 }
```

starM3UAPSPDown NOTIFICATION-TYPE

```
OBJECTS {
```



```

starSS7rdld,
starSS7M3UAPsld,
starSS7M3UAPspld,
starSS7CauseString
}

```

STATUS current

DESCRIPTION

"An ASP Down message received from the remote M3UA peer indicates the adaptation layer at the remote M3UA peer is NOT ready to receive DATA, SSNM, RKM or ASPTM messages

Possible reason:

1. SCTP association is down or
2. Remote peer server process is down

Condition Clear Alarm: A starM3UAPSPUp notification will be generated when the reemote ASP becomes available"

--#SUMMARY "[ss7-routing-domain %d] peer-server %d peer-server-process %d is down cause %s"

--#ARGUMENTS {0,1,2,3}

--#STATE DEGRADED

--#SEVERITY MINOR

::= { starentTraps 1006 }

starM3UAPSPUp NOTIFICATION-TYPE

OBJECTS {

```

starSS7rdld,
starSS7M3UAPsld,
starSS7M3UAPspld,
starSS7CauseString
}

```

STATUS current

DESCRIPTION

"An ASP Up message received from the remote M3UA peer indicates that that the adaptation layer at the remote peer is ready to receive any ASPSM/ASPTM messages for all Routing Keys that the ASP is configured to serve

starM3UAPSPUp is generated only when previous starM3UAPSPDown was generated"

--#SUMMARY "[ss7-routing-domain %d] peer-server %d peer-server-process %d is active cause %s"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1007 }

starSCCPSPcRcvd NOTIFICATION-TYPE

OBJECTS { starSccpNwld, starSS7Pc, starSccpSsn }

STATUS current

DESCRIPTION

"Subsystem prohibited received from a peer. The receiving node needs to update the translation tables so that traffic could be re routed to a backup system if available

Condition Clear: A starSCCPSPcClear notification will be generated when this condition is cleared."

--#SUMMARY "[sccp-network %d] dpc-%d ssn-%d prohibited"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1008 }

starSCCPSPcClear NOTIFICATION-TYPE

OBJECTS { starSccpNwld, starSS7Pc, starSccpSsn }

STATUS current

DESCRIPTION

"Subsystem available received from a peer. This indicates a previously prohibited

node is now available. Receiving node needs to update its translation tables

A starSCCPSPcClear notification is only generated for peers which had previously generated a starSCCPSPcRcvd notification"

--#SUMMARY "[sccp-network %d] dpc-%d ssn-%d allowed"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1009 }
```

starSGSNRNCReset NOTIFICATION-TYPE

```
OBJECTS { starSessSGSNVpnName, starSessSGSNServName,starSessSGSNMcc,starSessSGSNMnc,starSessSGSNRncId}
```

```
STATUS current
```

```
DESCRIPTION
```

"SGSN has received an Radio Network Controller(RNC) reset event.SGSN will clean up all the lu connections with the RNC.

This event is not generated when we get RNC Reset the first time system boots up. This trap is generated only on subsequent reset events"

```
--#SUMMARY "[Service SGSN %s-%s] RNC Reset event received ; MCC %s MNC %s RncId %d"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1010 }
```

starSGSNHLRReset NOTIFICATION-TYPE

```
OBJECTS { starSessSGSNVpnName, starSessSGSNServName, starSessSGSNHLrNum}
```

```
STATUS current
```

```
DESCRIPTION
```

"Home Location register(HLR) reset event received. SGSN will mark all the subscribers served by this HLR so that the subscription record can be fetched again on subsequent user activity"

```
--#SUMMARY "[Service SGSN %s-%s] HLR Reset event received ; HLR Number %s"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1011 }
```

starSGSNGtpcPathFailure NOTIFICATION-TYPE

```
OBJECTS {starSGTPVpnName, starSGTPServName, starSGTPPeerAddr , starSGTPPeerPort , starSGTPSelfAddr, starSGTPSelfPort}
```

```
STATUS current
```

```
DESCRIPTION
```

"No response received from peer GPRS Serving Node(GSN) as several messages have timed out. The control path towards the peer GSN is down. Check that the peer GSN or SGSN is UP

Possible reason: Remote GSN is down

Condition Clear Alarm: A starSGSNGtpcPathFailureClear notification will be generated when the control path towards the peer GSN is available"

```
--#SUMMARY "[Service SGTP %s-%s] GTP control path failure. peer-end-point %s:%d , self-end-point %s:%d"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1012 }
```

starSGSNGtpcPathFailureClear NOTIFICATION-TYPE

```
OBJECTS {starSGTPVpnName, starSGTPServName, starSGTPPeerAddr , starSGTPPeerPort , starSGTPSelfAddr, starSGTPSelfPort}
```

```
STATUS current
```

```
DESCRIPTION
```

"The path to the peer GSN which was down is now available

A starSGSNGtpcPathFailureClear notification is only generated for GSNs which had previously generated a starSGSNGtpcPathFailure notification"

```
--#SUMMARY "[Service SGTP %s-%s] GTP control path active peer-end-point %s:%d , self-end-point %s:%d"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1013 }
```

starSGSNGtpuPathFailure NOTIFICATION-TYPE

```
OBJECTS {starSGTPVpnName, starSGTPServName, starSGTPPeerAddr , starSGTPPeerPort , starSGTPSelfAddr, starSGTPSelfPort}
```

```
STATUS current
```

```
DESCRIPTION
```

"No response received for ECHO request sent from SGSN. Data path failure detected towards peer GPRS Serving Node(GSN) or Radio Network Controller(RNC).

Check if the peer RNC or GSN is up

Possible reason: Remote GSN is down

Condition Clear Alarm: A starSGSNGtpuPathFailureClear notification will be generated when the data path to the remote GSN becomes available"

```
--#SUMMARY "[Service SGTP %s-%s] GTP data path failure. peer-end-point %s:%d , self-end-point %s:%d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1014 }
```

starSGSNGtpuPathFailureClear NOTIFICATION-TYPE

```
OBJECTS {starSGTPVpnName, starSGTPServName, starSGTPPeerAddr , starSGTPPeerPort , starSGTPSelfAddr, starSGTPSelfPort}
STATUS current
DESCRIPTION
```

"The data path toward peer GSN or RNC is now available

A starSGSNGtpuPathFailureClear notification is only sent for peers which had previously generated a starSGSNGtpuPathFailure notification."

```
--#SUMMARY "[Service SGTP %s-%s] GTP data path is available peer-end-point %s:%d , self-end-point %s:%d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1015 }
```

starMTP3LinkOutOfService NOTIFICATION-TYPE

```
OBJECTS {starSS7rdld,starSS7MTP3LinkSetId, starSS7MTP3LinkId}
STATUS current
DESCRIPTION
```

"Message Transfer Part(MTP3) link out of service.

Possible reason:

1. Physical link is down or
2. Layer 2 (SSCOP/MTP2) is down
3. Operator action - link deactivated.

Condition Clear Alarm: A starMTP3LinkInService notification will be generated when the link comes back in service"

```
--#SUMMARY "[ss7-routing-domain %d] linkset-%d link-%d out of service"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 1016 }
```

starMTP3LinkInService NOTIFICATION-TYPE

```
OBJECTS {starSS7rdld,starSS7MTP3LinkSetId, starSS7MTP3LinkId}
STATUS current
DESCRIPTION
```

"Message Transfer Part(MTP3) link is in service."

```
--#SUMMARY "[ss7-routing-domain %d] linkset-%d link-%d in service"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1017 }
```

starMTP3LinkSetUnAvailable NOTIFICATION-TYPE

```
OBJECTS {starSS7rdld,starSS7MTP3LinkSetId}
STATUS current
DESCRIPTION
```

"Message Transfer Part(MTP3) linkset Unavailable

Possible reason:

1. All the links in the linkset is down.
2. Operator action - linkset deactivated.

Condition Clear Alarm: A starMTP3LinkSetAvailable notification will be generated when the previously down linkset is available"

```
--#SUMMARY "[ss7-routing-domain%d] linkset-%d unavailable"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1018 }
```

```
starMTP3LinkSetAvailable NOTIFICATION-TYPE
OBJECTS {starSS7rdId, starSS7MTP3LinkSetId}
STATUS current
DESCRIPTION
"Message Transfer Part(MTP3) linkset Available.
A starMTP3LinkSetAvailable notification is only generated for linksets which previously generated a starMTP3LinkSetUnavailable notification"
--#SUMMARY "[ss7-routing-domain%d] linkset-%d available"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1019 }
```

```
starSCTPAssociationFail NOTIFICATION-TYPE
OBJECTS {starSS7rdId, starSS7M3UAPsId, starSS7M3UAPspld }
STATUS current
DESCRIPTION
"M3UA Stream Control Transmission Protocol(SCTP) association establishment failure.
Possible reason: The peer is down. or network reachability to the remote server is down or the end point configuration is not correct at our end.
Condition Clear Alarm: A starSCTPAssociationEstablished notification will be generated when
the previously failed association is successfully established again"
--#SUMMARY "[ss7-routing-domain %d] peer-server-%d peer-server-process-%d association down"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1020 }
```

```
starSCTPAssociationEstablished NOTIFICATION-TYPE
OBJECTS {starSS7rdId, starSS7M3UAPsId, starSS7M3UAPspld }
STATUS current
DESCRIPTION
"M3UA Stream Control Transmission Protocol (SCTP) association establishment ok. Previously there was a failure to establish the same
association
A starM3UASCTPAssociationEstablish notification is only generated for peers which previously generated a starM3UASCTPAssociationFail
notification"
--#SUMMARY "[ss7-routing-domain %d] peer-server-%d peer-server-process-%d association up"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1021 }
```

```
starSCTPPathDown NOTIFICATION-TYPE
```

```
OBJECTS {
    starSS7rdId,
    starSS7M3UAPsId,
    starSS7M3UAPspld,
    starSS7SCTPSelfAddr,
    starSS7SCTPSelfPort,
    starSS7SCTPPeerAddr,
    starSS7SCTPPeerPort,
    starSS7CauseString
}
STATUS current
DESCRIPTION
"Stream Control Transmission Protocol(SCTP) path down.
Possible reason: The peer is down. or network reachability to the remote server is down or the end point configuration is not correct at our end.
Condition Clear Alarm: A starSCTPPathUp notification will be generated when the previously down path becomes usable"
--#SUMMARY "[ss7-routing-domain %d] peer-server %d peer-server-process %d self-end-point %s:%d peer-end-point %s:%d sctp path down
cause %s"
```

```
--#ARGUMENTS {0,1,2,3,4,5,6,7}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MINOR
```

```
::= { starentTraps 1022 }
```

starSCTPPathUp NOTIFICATION-TYPE

```
OBJECTS {
```

```
    starSS7rdld,
    starSS7M3UAPsld,
    starSS7M3UAPspld,
    starSS7SCTPSelfAddr,
    starSS7SCTPSelfPort,
    starSS7SCTPPeerAddr,
    starSS7SCTPPeerPort,
    starSS7CauseString
```

```
}
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Stream Control Transmission Protocol(SCTP) path up.
```

```
A starSCTPPathUp notification is only generated for peers which had previously generated a starSCTPPathDown notification"
```

```
--#SUMMARY "[ss7-routing-domain %d] peer-server %d peer-server-process %d self-end-point %s:%d peer-end-point %s:%d sctp path up cause %s"
```

```
--#ARGUMENTS {0,1,2,3,4,5,6,7}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1023 }
```

starPortDown NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starPortType,starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Port status is Down. This notification is only generated for physical port.
```

```
Action to be Taken: No action required. The cause for the port down should be investigated."
```

```
--#SUMMARY "[Card] Port status is down Slot %d Port %d port type %s UUID %s"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1024 }
```

starPortUp NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starPortType, starSlotSerialNumber }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Port status is up. This notification is only generated for physical port and a 'starPortDown' notification was previously generated.
```

```
Action to be Taken: No action required"
```

```
--#SUMMARY "[Card] Port status is up Slot %d Port %d port type %s UUID %s"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1025 }
```

```
-- BS trap
```

starBSReachable NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starPeerAddress }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The Base Station is reachable now. This can be result of Base Station Startup, etc.
```

```
Action to be Taken: No Action Required"
```

```
--#SUMMARY "[ASNGW Service %s-%s] Base Station Reachable, Base Station address %s"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
::= { starentTraps 1026 }
```

starBSUnreachable NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starPeerAddress }
```

```
STATUS current
```

```
DESCRIPTION
```

"A Base Station that the IMG communicates with is no longer reachable.

Probable Cause: The Base Station has failed or is otherwise unavailable, or a network connectivity problem makes it unreachable.

Action to be Taken: If the Base Station outage was unplanned, restart/reset the Base Station; verify network connectivity.

Condition Clear Alarm: This condition is cleared by a starBSReachable notification."

```
--#SUMMARY "[ASNGW Service %s-%s] Base Station Unreachable, Base Station address %s"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1027 }
```

starSystemStartup NOTIFICATION-TYPE

```
OBJECTS { starChassisType, starChassisDescription, starChassisSWRevision }
```

```
STATUS current
```

```
DESCRIPTION
```

"The system has completed a reboot/startup"

```
--#SUMMARY "[Chassis] System Startup, Cisco %s chassis, '%s', SW Revision %s"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1028 }
```

starMTP3PCUnavailable NOTIFICATION-TYPE

```
OBJECTS { starSS7rdId, starSS7Pc, starSS7MTP3LinkSetId }
```

```
STATUS current
```

```
DESCRIPTION
```

"Message Transfer Part(MTP3) Route to the Point code becomes unavailable.

Possible reason:

1. Associated linkset (all links within this linkset) becomes unavailable, hence route to the point code also becomes unavailable through this linkset.
2. Remote peer is down

Condition Clear Alarm: A starMTP3PCAvailable notification will be generated when the remote peer identified by the point code becomes reachable"

```
--#SUMMARY "[ss7-routing-domain %d] mtp3 point code-%d through linkset-%d unavailable"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MINOR
```

```
::= { starentTraps 1029 }
```

starMTP3PCAvailable NOTIFICATION-TYPE

```
OBJECTS { starSS7rdId, starSS7Pc, starSS7MTP3LinkSetId }
```

```
STATUS current
```

```
DESCRIPTION
```

"Message Transfer Part(MTP3) Route to the Point code becomes available.

Possible reason:

1. Associated linkset (one of the links in the linkset) becomes available.
2. Remote peer is up

starMTP3PCAvailable is generated only when a previous starMTP3PCUnavailable is generated.

"

```
--#SUMMARY "[ss7-routing-domain %d] mtp3 point code-%d through linkset-%d available"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1030 }
```

starSS7PCUnavailable NOTIFICATION-TYPE

```
OBJECTS { starSS7rdId, starSS7Pc}
STATUS current
DESCRIPTION
"SS7 Point code is unavailable, all the routes to this point code is unavailable.
```

Possible reason:

1. All the routes (both M3UA and MTP3) to this point code becomes unavailable.

Condition Clear Alarm: A starSS7PCAvailable notification will be generated when the reemore peer identified by the point code becomes reachable"

```
--#SUMMARY "[ss7-routing-domain %d] point code-%d unavailable"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 1031 }
```

starSS7PCAvailable NOTIFICATION-TYPE

```
OBJECTS { starSS7rdId, starSS7Pc}
STATUS current
DESCRIPTION
"SS7 Point code is available, one of the routes to this point code is available.
```

Possible reason:

1. One of the routes (either M3UA or MTP3) to this point code becomes available.

starSS7PCAvailable is generated only when a previous starSS7PCUnavailable is generated.
"

```
--#SUMMARY "[ss7-routing-domain %d] point code-%d available"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1032 }
```

starASNPCServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS obsolete
DESCRIPTION
"A WiMAX ASN Paging Controller (ASNPC) Service has started
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service ASNPC-%s-%s] ASNPC service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1033 }
```

starASNPCServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS obsolete
DESCRIPTION
"A WiMAX ASN Paging Controller (ASNPC) Service has stopped.
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the ASNPC service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that

all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the ASNPC service is operational.

Condition Clear Alarm: A starASNPCServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service ASNPC-%s-%s] ASNPC service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1034 }
```

starDiameterCapabilitiesExchangeFailure NOTIFICATION-TYPE

```
OBJECTS { starDiameterVpnName, starDiameterPeerAddr, starDiameterEndpointName , starDiameterECode}
STATUS current
DESCRIPTION
    "Capability negotiations has failed and connections are down.
```

Problem Cause: Due to an error in Capability Exchange Answer received from the peer the connections have been torn down.
"

```
--#SUMMARY "[VPN %s] Capability exchange for %s endpoint %s failed. Cause Code: %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1035 }
```

starDiameterCapabilitiesExchangeSuccess NOTIFICATION-TYPE

```
OBJECTS { starDiameterVpnName, starDiameterPeerAddr, starDiameterEndpointName}
STATUS current
DESCRIPTION
```

"A diameter server is up. This notification is only generated for servers which have previously been declared unreachable."

```
--#SUMMARY "[VPN %s] Capability exchange for %s endpoint %s is a success"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1036 }
```

starSRPConnDown NOTIFICATION-TYPE

```
OBJECTS { starContextName, starIPAddressType, starSRPIpAddress }
STATUS current
DESCRIPTION
```

"The connection to the standby SRP system is down. While this connection is down, the active system is operating without a standby and would be unable to perform an SRP switchover.

Action to be Taken: Verify that the standby system is operational; verify the network between systems is operational.

Clear Condition: This condition is cleared when the active system is reconnected to the standby SRP system.

Condition Clear Alarm: A starSRPConnUp notification is generated when this condition is clear"

```
--#SUMMARY "[System] SRP Connection Down, SRP standby vpn %s address %s"
--#ARGUMENTS {0,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1037 }
```

starSRPConnUp NOTIFICATION-TYPE

```
OBJECTS { starContextName, starIPAddressType, starSRPIpAddress }
STATUS current
DESCRIPTION
```


"The connection to the standby SRP system is now up. This notification is only generated if a starSRPConnDown had previously been generated."

```
--#SUMMARY "[System %s] SRP Connection Up, SRP standby vpn %s address %s"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1038 }
```

starDiameterIpv6PeerDown NOTIFICATION-TYPE

OBJECTS { starDiameterVpnName, starDiameterPeerAddrIpv6, starDiameterEndpointName }

STATUS current

DESCRIPTION

"A diameter peer is down. This diameter peer is reached using an IPv6 address.

For IPv4-connected diameter peers, a starDiameterPeerDown notification would be generated.

Problem Cause: The diameter peer has failed, or a network connectivity prevents reaching the peer.

Condition Clear Alarm: A starDiameterPeerUp notification will be generated when the peer is up"

```
--#SUMMARY "[VPN %s] Diameter Peer %s endpoint %s is down"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1039 }
```

starDiameterIpv6PeerUp NOTIFICATION-TYPE

OBJECTS { starDiameterVpnName, starDiameterPeerAddrIpv6, starDiameterEndpointName }

STATUS current

DESCRIPTION

"A diameter peer is up. This diameter peer is reached using an IPv6 address.

This notification is only generated for peers which have previously been declared down.

For IPv4-connected diameter peers, a starDiameterPeerUp notification would be generated."

```
--#SUMMARY "[VPN %s] Diameter Peer %s endpoint %s is up"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1040 }
```

starIPMSServerUnreachable NOTIFICATION-TYPE

OBJECTS { starIPMSServerVpnName, starIPMSServerAddr }

STATUS current

DESCRIPTION

"An IPMS server is unreachable.

Probable Cause: The IPMS server has failed, or a network connectivity issue prevents reaching the server.

Condition Clear Alarm: A starIPMSServerReachable notification will be generated when the server becomes reachable."

```
--#SUMMARY "[VPN %s] IPMS Server %s is unreachable"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 1041 }
```

starIPMSServerReachable NOTIFICATION-TYPE

OBJECTS { starIPMSServerVpnName, starIPMSServerAddr }

STATUS current

DESCRIPTION

"An IPMS server is reachable. A starIPMSServerReachable notification is only generated for servers which had previously been declared unreachable."

```
--#SUMMARY "[VPN %s] IPMS Server %s is reachable"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1042 }
```

starCertShortLifetime NOTIFICATION-TYPE

```
OBJECTS { starCertSerialNumber, starCertIssuer, starCertExpiryTime }
STATUS current
DESCRIPTION
```

"A certificate is approaching its expiration. The certificate is still valid, but should be updated with a new certificate.

Action to be Taken: A new certificate should be created and configured on the system."

```
--#SUMMARY "[System] Certificate short lifetime, certificate serial number %s, expiration date %s"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1043 }
```

starCertExpired NOTIFICATION-TYPE

```
OBJECTS { starCertSerialNumber, starCertIssuer, starCertExpiryTime }
STATUS current
DESCRIPTION
```

"A certificate has expired. The certificate is no longer valid.

Action to be Taken: A new certificate should be created and configured on the system.

Condition Clear Alarm: A starCertValid notification is sent when a new, valid, certificate is configured."

```
--#SUMMARY "[System] Certificate expired, certificate serial number %s, expiration date %s"
--#ARGUMENTS {0,2}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 1044 }
```

starCertValid NOTIFICATION-TYPE

```
OBJECTS { starCertSerialNumber, starCertIssuer, starCertExpiryTime }
STATUS current
DESCRIPTION
```

"A valid certificate has been configured. This notification is only generated if a starCertExpired had been previously generated."

```
--#SUMMARY "[System] Certificate valid, certificate serial number %s, expiration date %s"
--#ARGUMENTS {0,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1045 }
```

starFTPPushFail NOTIFICATION-TYPE

```
OBJECTS { starFTPServVpnName, starFTPServIpAddr, starFileName, starFileApplication }
STATUS current
DESCRIPTION
```

"An FTP push operation has failed for the specified file to the specified server."

```
--#SUMMARY "[System] FTP file push failure; server %s/%s, file %s (application %s)"
--#ARGUMENTS { 0,1,2,3 }
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1046 }
```

starFTPServSwitch NOTIFICATION-TYPE

```
OBJECTS { starFTPServVpnName, starFTPServIpAddr, starFTPServIpAddr, starFileApplication }
STATUS current
DESCRIPTION
```

"An FTP server switchover has been performed; that is, the system has determined that an external FTP server is unreachable, and is not using an alternate FTP server"

```
--#SUMMARY "[System] FTP Server switchover; from server %s/%s to %s/%s (application %s)"
--#ARGUMENTS { 0,1,0,2,3 }
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1047 }
```

starSDHSectionDown NOTIFICATION-TYPE

```
OBJECTS { starSDHSlot, starSDHPort, starSDHOperState }
STATUS current
DESCRIPTION
```

"The SDH interface on this port is down. The starSDHOperState identifies the specific issue.

Probable Cause:

Action to be Taken:

Condition Clear Alarm: This condition is cleared by a starSDHSectionUp notification,"

```
--#SUMMARY "[Port %d-%d] SDH Down, operstate %x"
--#ARGUMENTS {0,1,2}
--#STATE NONOPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1048 }
```

starSDHSectionUp NOTIFICATION-TYPE

```
OBJECTS { starSDHSlot, starSDHPort }
STATUS current
DESCRIPTION
```

"The SDH interface on this port is now up. A starSDHSectionUp notification is only generated if a starSDHSectionDown was previously generated for this port."

```
--#SUMMARY "[Port %d-%d] SDH Up"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1049 }
```

starSDHPathHopDown NOTIFICATION-TYPE

```
OBJECTS { starSDHPathSlot, starSDHPathPort, starSDHPathNum, starSDHPathOperState }
STATUS current
DESCRIPTION
```

"The identified SDH Path is down. The value of starSDHPathOperState identifies the specific failure bits."

```
--#SUMMARY "[Port %d-%d] SDH Path down, path %d, operstate %x"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1050 }
```

starSDHPathHopUp NOTIFICATION-TYPE

```
OBJECTS { starSDHPathSlot, starSDHPathPort, starSDHPathNum }
STATUS current
DESCRIPTION
```

"The identified SDH Path is up."

```
--#SUMMARY "[Port %d-%d] SDH Path up, path %d"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1051 }
```

starSDHLopDown NOTIFICATION-TYPE

```
OBJECTS { starE1TribSlot, starE1TribPort, starE1TribPath, starE1TribTug2, starE1TribTu12, starE1TribOperStateLOP }
STATUS current
DESCRIPTION
```

"The identified E1 Tributary on this port is down. The value of starE1TribOperStateLOP identifies the specific failure bits.

Probable Cause:

Action to be Taken:

Condition Clear Alarm: This condition is cleared by a starSDHLopDown notification,"

```
--#SUMMARY "[Port %d-%d] E1 Tributary down, path %d, E1 tributary %d/%d, LOP operstate %x"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1052 }
```

starSDHLopUp NOTIFICATION-TYPE

OBJECTS { starE1TribSlot, starE1TribPort, starE1TribPath, starE1TribTug2, starE1TribTu12 }

STATUS current

DESCRIPTION

"The identified E1 Tributary on this port is now up. A starE1TributaryUp notification is only generated if a starSDHLopDown was previously generated for this E1 tributary."

```
--#SUMMARY "[Port %d-%d] E1 Tributary up, path %d, E1 tributary %d/%d"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1053 }
```

starIMSUEServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A IMSUE Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service IMSUE-%s-%s] IMSUE service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1054 }
```

starIMSUEServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A IMSUE Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the IMSUE service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the IMSUE service is operational.

Condition Clear Alarm: A starIMSUEServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service IMSUE-%s-%s] IMSUE service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1055 }
```

starSS7PCCongested NOTIFICATION-TYPE

OBJECTS { starSS7rdld, starSS7Pc, starSS7CongLevel, starSS7LocalCong }

STATUS current

DESCRIPTION

"SS7 Point code is congested, all the routes to this point-code is congested.

Possible reason:

1. All the routes (both M3UA and MTP3) to this Point Code have become congested.

Condition Clear Alarm: A starSS7PCCongestionCleared notification will be generated when the congestion gets cleared for any one of the routes

```
--#SUMMARY "[ss7-routing-domain %d] point code-%d %d congested level-%d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1056 }
```

starSS7PCCongestionCleared NOTIFICATION-TYPE

OBJECTS { starSS7rdId, starSS7Pc, starSS7CongLevel, starSS7LocalCong }

STATUS current

DESCRIPTION

"SS7 Point code Congestion gets cleared, one of the routes to this point-code is cleared from congestion.

Possible reason:

1. One of the routes (either M3UA or MTP3) to this Point Code has resumed from congestion.

starSS7PCCongestionCleared is generated only when a previous starSS7PCCongested is generated.

```
--#SUMMARY "[ss7-routing-domain %d] point code-%d %d congestion cleared level-%d"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1057 }
```

starPHSGWServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS obsolete

DESCRIPTION

"A PHS-GW Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service PHW-GW-%s-%s] PHS-GW service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1058 }
```

starPHSGWServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS obsolete

DESCRIPTION

"A PHS-GW Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the PHS-GW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PHS-GW service is operational.

Condition Clear Alarm: A starPHSGWServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service PHS-GW-%s-%s] PHS-GW service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1059 }
```

starGPRSServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName}
 STATUS current
 DESCRIPTION
 "A GPRS Service has started
 Action to be Taken: No action required"
 --#SUMMARY "[Service GPRS %s-%s] GPRS service has started"
 --#ARGUMENTS {0,1}
 --#STATE OPERATIONAL
 --#SEVERITY INFORMATIONAL
 ::= { starentTraps 1060 }

starGPRSServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName}
 STATUS current
 DESCRIPTION
 "A GPRS Service has stopped.
 Probable Cause:
 In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration. This can also happen due to some misconfiguration of the service parameters.

Action to be Taken: If the GPRS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the GPRS service is operational.

Condition Clear Alarm: A starGPRSServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service GPRS %s-%s] GPRS service has stopped"
 --#ARGUMENTS {0,1}
 --#STATE DEGRADED
 --#SEVERITY MAJOR
 ::= { starentTraps 1061 }

starGPRSNseDown NOTIFICATION-TYPE

OBJECTS { starGPRSNsei }
 STATUS current
 DESCRIPTION
 "Network Service Entity (NSE) is down.

Possible reason:
 The Last NSVC(Network Service virtual circuit in the NSE is down.

Condition Clear Alarm: A starGPRSNseUp will be generated when at least one NSVC in the NSE comes up"

--#SUMMARY "[nsei %d] NSE down "
 --#ARGUMENTS {0}
 --#STATE DEGRADED
 --#SEVERITY MAJOR
 ::= { starentTraps 1062 }

starGPRSNseUp NOTIFICATION-TYPE

OBJECTS { starGPRSNsei }
 STATUS current
 DESCRIPTION
 "Network Service Entity (NSE) is up.

Possible reason:
 The First NSVC(Network Service virtual circuit in the NSE is up.

starGPRSNseUp is generated only when a previous starGPRSNseDown has been generated"

```
--#SUMMARY "[nsei %d] NSE Up"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1063 }
```

starGPRSNsvcDown NOTIFICATION-TYPE

OBJECTS { starGPRSNsei, starGPRSNsvci }

STATUS current

DESCRIPTION

"Network Service Entity Virtual Circuit (NSVC) is down.

Possible reasons:

- 1) NS_ALIVE heartbeat messages sent from the Serving GPRS support Node (SGSN) were not acknowledged by the Base Station Subsystem(BSS) for a configured number of maximum retries.

This trap is generated only when an NSVC goes down due to reasons other than physical port failure. A separate trap is generated for a physical port failure event.

Condition Clear Alarm: A starGPRSNsvcUp will be generated when the NSVC comes up"

```
--#SUMMARY "[nsei %d] nsvci %d NSVC is down "
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1064 }
```

starGPRSNsvcUp NOTIFICATION-TYPE

OBJECTS { starGPRSNsei, starGPRSNsvci }

STATUS current

DESCRIPTION

"An Network Service Entity Virtual Circuit (NSVC) comes up

An starGPRSNsvcUp trap is generated only when a previous starGPRSNsvcDown was generated"

--#SUMMARY "[nsei %d] nsvci %d NSVC is up"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1065 }

starGPRSBvcDown NOTIFICATION-TYPE

OBJECTS { starGPRSNsei, starGPRSBvci }

STATUS current

DESCRIPTION

"Base Station Subsystem (BSS) GPRS (General Packet Radio Service) Protocol (BSSGP) Virtual Circuit (BVC) is Down.

Possible reason:

- 1) ALL Network Service Entity Virtual Circuit (NSVC) associated with this BVC are down

Condition Clear Alarm: A starGPRSBvcUp will be generated when the BVC is available"

```
--#SUMMARY "[nsei %d] bvci %d BVC is down"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1066 }
```

starGPRSBvcUp NOTIFICATION-TYPE

OBJECTS { starGPRSNsei, starGPRSBvci }

STATUS current

DESCRIPTION

"Base Station Subsystem (BSS) GPRS ((General Packet Radio Service) Protocol (BSSGP) Virtual Circuit (BVC) is Up

Possible reasons:

- 1) Atleast one NSVC associated with the BVC becomes available.

starGPRSBvcUp is generated only when a previous starGPRSBvcDown has been generated.

"

--#SUMMARY "[nsei %d] bvci %d BVC Up"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1067 }

starSDHE1TribDown NOTIFICATION-TYPE

OBJECTS { starE1TribSlot, starE1TribPort, starE1TribPath, starE1TribTug2, starE1TribTu12, starE1TribOperState }

STATUS current

DESCRIPTION

"The identified E1 Tributary on this port is down.

Probable Cause:

Action to be Taken:

Condition Clear Alarm: This condition is cleared by a starSDHTugUp notification,"

--#SUMMARY "[Port %d-%d] E1 Tributary down, path %d, E1 tributary %d/%d, operstate %x"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1068 }

starSDHE1TribUp NOTIFICATION-TYPE

OBJECTS { starE1TribSlot, starE1TribPort, starE1TribPath, starE1TribTug2, starE1TribTu12 }

STATUS current

DESCRIPTION

"The identified E1 Tributary on this port is up."

--#SUMMARY "[Port %d-%d] E1 Tributary up, path %d, E1 tributary %d/%d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1069 }

starSDHFractE1LMIDown NOTIFICATION-TYPE

OBJECTS { starFractE1TribSlot, starFractE1TribPort, starFractE1TribPath, starFractE1TribTug2, starFractE1TribTu12, starFractE1TribTimeslots }

STATUS current

DESCRIPTION

"The identified fractional E1 Tributary on this port is down."

--#SUMMARY "[Port %d-%d] Fractional E1 LMI down, path %d, E1 tributary %d/%d, timeslots %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1070 }

starSDHFractE1LMIUp NOTIFICATION-TYPE

OBJECTS {

starFractE1TribSlot,

starFractE1TribPort,

starFractE1TribPath,

starFractE1TribTug2,

starFractE1TribTu12,

starFractE1TribTimeslots

}

STATUS current

DESCRIPTION

"The identified fractional E1 Tributary on this port is up."

--#SUMMARY "[Port %d-%d] Fractional E1 up, path %d, E1 tributary %d/%d, timeslots %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1071 }

starPHSPServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS obsolete

DESCRIPTION

"A PHS-PC Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service PHS-PC-%s-%s] PHS-PC service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1072 }

starPHSPServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS obsolete

DESCRIPTION

"A PHS-PC Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the PHS-PC service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PHS-PC service is operational.

Condition Clear Alarm: A starPHSPServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service PHS-PC-%s-%s] PHS-PC service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1073 }

starM3UAPSPCongested NOTIFICATION-TYPE

OBJECTS { starSS7rdId, starSS7M3UAPsId, starSS7M3UAPspld, starSS7Pc, starSS7CongLevel}

STATUS current

DESCRIPTION

"Peer Server Process (PSP) link is congested, when the congestion queue size rises above the threshold limit.

Possible reason:

1. No Stream Control Transmission Protocol (SCTP) Acknowledgement from peer end due to packet loss
2. Acknowledgement with zero window size

Condition Clear Alarm: A starM3UAPSPCongestionCleared notification will be generated when the congestion queue size goes below the threshold limit

"

--#SUMMARY "[ss7-routing-domain %d] peer-server-%d peer-server-process-%d (point-code-%d) congested"

--#ARGUMENTS {0,1,2,3}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1074 }

starM3UAPSPCongestionCleared NOTIFICATION-TYPE

OBJECTS { starSS7rdId, starSS7M3UAPsId, starSS7M3UAPspld, starSS7Pc, starSS7CongLevel}

STATUS current

DESCRIPTION

"Peer Server Process (PSP) link Congestion gets cleared, when the congestion queue size goes below the threshold limit. starM3UAPSPCongestionCleared is generated only when a previous starM3UAPSPCongested is generated.

"

--#SUMMARY "[ss7-routing-domain %d] peer-server-%d peer-server-process-%d (point-code-%d) congestion cleared"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

```
--#SEVERITY INFORMATIONAL
::= { starentTraps 1075 }
```

starStorageFailed NOTIFICATION-TYPE

```
OBJECTS { starStorageSlot, starStorageName }
STATUS current
DESCRIPTION
```

"The specified storage device has failed. This storage device is now out of service and cannot be used to store additional data.

This notification is currently only generated for failures on the hard drive attached to the SMC card.

Probable Cause: A hardware failure on the device; a hardware failure on the card to which the device is attached.

Action to be Taken: Replace the card

Condition Clear Alarm: A starCardRemoved notification will be generated when the card is removed from the chassis."

```
--#SUMMARY "[Slot-%d] Storage device %s failed"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1076 }
```

starRaidFailed NOTIFICATION-TYPE

```
OBJECTS { starStorageName }
STATUS current
DESCRIPTION
```

"The specified raid array has failed. The raid array can no longer be used to store data.

Probable Cause: Hardware failure(s) on the devices within the raid array; Hardware failure(s) on the card(s) to which the devices are attached; the removal of the cards containing devices in the array; operator action which disabled the raid array.

Condition Clear Alarm: a starRaidStarted notification will be generated when the raid array is online."

```
--#SUMMARY "[System] Raid array %s failed"
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1077 }
```

starRaidStarted NOTIFICATION-TYPE

```
OBJECTS { starStorageName }
STATUS current
DESCRIPTION
```

"The specific raid array has resumed operation. This notification is only generated if a starRaidFailed notification was previously generated for this array."

```
--#SUMMARY "[System] Raid array %s started"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1078 }
```

starRaidDegraded NOTIFICATION-TYPE

```
OBJECTS { starStorageName, starStorageSlot, starStorageName }
STATUS current
DESCRIPTION
```

"The specified raid array is running in a degraded state. This typically means one of the member devices has failed or become unavailable. The raid array continues to function and can read/store data, but may not be operating in a redundant manner.

Probable Cause: Hardware failure(s) on the devices within the raid array;
Hardware failure(s) on the card(s) to which the devices are attached;
the removal of the cards containing devices in the array; operator action
which disabled the raid array.

The first variable binding, starStorageName is indicating the raid array
name; The second variable binding, starStorageSlot is the disk card number,
in which the fail happens; The third varbind, which is also the second
starStorageName, is the name of the disk that the fail happens.

Condition Clear Alarm: a starRaidRecovered notification will be generated when the
raid array is fully recovered."

```
--#SUMMARY "[System] Raid array %s degraded; slot/device %d/%s unavailable"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1079 }
```

starRaidRecovered NOTIFICATION-TYPE

OBJECTS { starStorageName, starStorageSlot, starStorageName }

STATUS current

DESCRIPTION

"The specific raid array has been recovered and is running in its normal,
redundant state. This notification is only generated if a starRaidDegraded
notification was previously generated for this array. As to the variable
bindings, please refer to the trap starRaidDegraded.
"

```
--#SUMMARY "[System] Raid array %s recovered; slot/device %d/%s added to array"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1080 }
```

starPGWServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Packet Data Network Gateway (PGW) Service has started.

Action to be Taken: No action required"

```
--#SUMMARY "[Service PGW-%s-%s] PGW service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATION
::= { starentTraps 1081 }
```

starPGWServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Packet Data Network Gateway (PGN) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In
rare cases it can be caused by the loss of resources (PSCs) to support
the running configuration.

Action to be Taken: If the PGW service shutdown was not planned,
examine the admin logs for an indication of the failure. Verify that
all configured PSCs are present and running in the system. Check the
crash logs for an indication of a software failure.

Clear Condition: Verify that the PGW service is operational.

Condition Clear Alarm: A starPGWServiceStart notification will be
generated when the service is restarted"

```
--#SUMMARY "[Service PGW-%s-%s] PGW service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1082 }
```

starSGWServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A Serving Gateway (SGW) Service has started.
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service SGW-%s-%s] SGW service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATION
::= { starentTraps 1083 }
```

starSGWServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A Serving Gateway (SGW) Service has stopped.
```

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the SGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SGW service is operational.

Condition Clear Alarm: A starSGWServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service SGW-%s-%s] SGW service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1084 }
```

starEGTPServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "An Evolved GPRS Tunneling Protocol (EGTP) Service has started.
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service EGTP-%s-%s] EGTP service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATION
::= { starentTraps 1085 }
```

starEGTPServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "An Evolved GPRS Tunneling Protocol (EGTP) Service has stopped.
```

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the EGTP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the EGTP service is operational.

Condition Clear Alarm: A starEGTPServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service EGTP-%s-%s] EGTP service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1086 }
```

starLMAServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A Local Mobility Anchor (LMA) Service has started.
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service LMA-%s-%s] LMA service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATION
::= { starentTraps 1087 }
```

starLMAServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A Local Mobility Anchor (LMA) Service has stopped.
```

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the LMA service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the LMA service is operational.

Condition Clear Alarm: A starLMAServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service LMA-%s-%s] LMA service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1088 }
```

starMAGServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A Mobile Access Gateway (MAG) Service has started.
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service MAG-%s-%s] MAG service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATION
::= { starentTraps 1089 }
```

starMAGServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A MAG Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the MAG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the MAG service is operational.

Condition Clear Alarm: A starMAGServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service MAG-%s-%s] MAG service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1090 }

starMMEServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Mobility Management Entity (MME) Service has started.

Action to be Taken: No action required"

--#SUMMARY "[Service MME-%s-%s] MME service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATION

::= { starentTraps 1091 }

starMMEServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Mobility Management Entity (MME) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the MME service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the MME service is operational.

Condition Clear Alarm: A starMMEServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service MME-%s-%s] MME service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1092 }

starHSGWServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A HRPD Serving Gateway (HSGW) Service has started.

Action to be Taken: No action required"

--#SUMMARY "[Service HSGW-%s-%s] HSGW service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATION

::= { starentTraps 1093 }

starHSGWServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A HRPD Serving Gateway (HSGW) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the HSGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the HSGW service is operational.

Condition Clear Alarm: A starHSGWServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service HSGW-%s-%s] HSGW service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1094 }

starCPUBusyClear NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber }

STATUS current

DESCRIPTION

"The CPU is no longer busy."

--#SUMMARY "[Card %d] CPU %d is no longer experiencing very high usage"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1095 }

starCPUMemoryLowClear NOTIFICATION-TYPE

OBJECTS { starCPUSlot, starCPUNumber }

STATUS current

DESCRIPTION

"The CPU is no longer experiencing a low memory condition."

--#SUMMARY "[Card %d] CPU %d is no longer low on available memory"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1096 }

-- FNG Service

starFNGServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A FNG Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service FNG-%s-%s] FNG service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1097 }
```

starFNGServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

DESCRIPTION

"A FNG Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs) to support the running configuration.

Action to be Taken: If the FNG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the FNG service is operational.

Condition Clear Alarm: A starFNGServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service FNG-%s-%s] FNG service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1098 }
```

starManagerRestart NOTIFICATION-TYPE

```
OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard, starTaskCPU }
```

```
STATUS current
```

DESCRIPTION

"The identified manager task has been restarted."

```
--#SUMMARY "[System] Manager %s/%d restarted on %d/%d"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1099 }
```

starConfigurationUpdate NOTIFICATION-TYPE

```
STATUS current
```

DESCRIPTION

"The configuration of the chassis has been changed. This notification is generated based on a periodic polling of the chassis, it is not real-time generated based on individual changes. The configuration change could have been made via CLI sessions, CORBA management operations, or other methods.

This notification is not generated by default; it is only generated if the configuration polling mechanism is specifically enabled."

```
--#SUMMARY "[System] System configuration updated"
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1100 }
```

```
-- PDG Service
```

starPDGServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

DESCRIPTION

"A PDG Service has started

Action to be Taken: No action required"


```
--#SUMMARY "[Service PDG-%s-%s] PDG service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1101 }
```

starPDGServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A PDG Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs) to support the running configuration.

Action to be Taken: If the PDG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PDG service is operational.

Condition Clear Alarm: A starPDGServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service PDG-%s-%s] PDG service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1102 }
```

starDynPkgLoadError NOTIFICATION-TYPE

OBJECTS { starDynPkgFilename, starDynCFErrorCode }

STATUS current

DESCRIPTION

"The Dynamic rater package error displayed with an error code.

Action to be Taken: If no or invalid rater.pkg file is there in the specified directory then Place a rater_f.pkg file in the directory and give an upgrade command or place a valid Rater.pkg file and load the SRDBs by killing them all.

Condition Clear Alarm: This condition is cleared by a starDynPkgLoadErrorClear notification"

```
--#SUMMARY "[System] Dynamic Rater package %s error code: %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1103 }
```

starDynPkgLoadErrorClear NOTIFICATION-TYPE

OBJECTS { starDynPkgFilename, starDynCFErrorCode }

STATUS current

DESCRIPTION

"The Dynamic rater package error removed.

Action to be Taken: No action required"

```
--#SUMMARY "[System] Dynamic Rater package %s error code: %s cleared"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1104 }
```

starDynPkgUpgradeError NOTIFICATION-TYPE

OBJECTS { starDynPkgUpgradeFilename, starDynCFUpgradeErrorCode }

STATUS current

DESCRIPTION

"The Dynamic rater package error displayed with an error code.

Action to be Taken: Place a valid rater_f.pkg file in the directory and give an upgrade command.

Condition Clear Alarm: This condition is cleared by a starDynPkgUpgradeErrorClear notification"

```
--#SUMMARY "[System] Dynamic Rater package %s error code: %s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY INFORMATIONAL
::= { starentTraps 1105 }
```

starDynPkgUpgradeErrorClear NOTIFICATION-TYPE

OBJECTS { starDynPkgUpgradeFilename, starDynCFUpgradeErrorCode }

STATUS current

DESCRIPTION

"The Dynamic Rater package error removed.

Action to be Taken: No action required"

```
--#SUMMARY "[System] Dynamic Rater package %s error code: %s cleared"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1106 }
```

starCSCFPeerServerUnavailable NOTIFICATION-TYPE

OBJECTS { starCSCFPeerServerVpnName, starCSCFPeerServerSvcName, starCSCFPeerServerName }

STATUS current

DESCRIPTION

"Peer server is unavailable"

```
--#SUMMARY "[CSCF %s-%s] CSCF Peer Server %s Unavailable"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1107 }
```

starCSCFPeerServerOutOfService NOTIFICATION-TYPE

OBJECTS { starCSCFPeerServerVpnName, starCSCFPeerServerSvcName, starCSCFPeerServerName }

STATUS current

DESCRIPTION

"Peer server is out-of-service"

```
--#SUMMARY "[CSCF %s-%s] CSCF Peer Server %s Out-of-service"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY CRITICAL
::= { starentTraps 1108 }
```

starCSCFPeerServerInService NOTIFICATION-TYPE

OBJECTS { starCSCFPeerServerVpnName, starCSCFPeerServerSvcName, starCSCFPeerServerName }

STATUS current

DESCRIPTION

"Peer server unavailable and/or out of service condition cleared"

```
--#SUMMARY "[CSCF %s-%s] CSCF Peer Server %s Available and In Service"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1109 }
```

starServiceLossPTACsClear NOTIFICATION-TYPE

OBJECTS {starCardMode}

STATUS current

DESCRIPTION

"Service Loss condition is no longer valid for PAC/PSC/TACs."

```
--#SUMMARY "[System] Service Loss condition clear for cardmode %s"
```

```
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1110 }
```

starServiceLossLCClear NOTIFICATION-TYPE

```
OBJECTS { starCardType, starSlotNum, starSlotNum }
STATUS current
DESCRIPTION
```

"Service Loss condition is no longer valid for LC."

```
--#SUMMARY "[System] Service Loss condition clear because one of the two %s cards (%d, %d) is active now"
```

```
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1111 }
```

starEgtpcPathFailure NOTIFICATION-TYPE

```
OBJECTS { starEGTPVpnName, starEGTPServName, starEGTPInterfaceType, starEGTPSelfAddr, starEGTPPeerAddr, starEGTPPeerOldRstCnt,
starEGTPPeerNewRstCnt, starEGTPPeerSessCnt, starEGTPFailureReason }
```

```
STATUS current
DESCRIPTION
```

"EGTP Control Path Failure. No response received for GTPV2 request sent from MME or SGW or PGW.

Possible reason: Remote peer MME or SGW or PGW is down

Condition Clear Alarm: A StarEgtpcPathFailureClear notification will be generated when the control path to the remote peer MME or SGW or PGW becomes available"

```
--#SUMMARY "[Service GTPV2-%s-%s] EGTP control path failure interface type %s, self address %s, peer address %s, peer old restart counter %d, peer new restart counter %d, peer session count %d, failure reason %s"
```

```
--#ARGUMENTS {0,1,2,3,4,5,6,7,8}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1112 }
```

starEgtpcPathFailureClear NOTIFICATION-TYPE

```
OBJECTS { starEGTPVpnName, starEGTPServName, starEGTPInterfaceType, starEGTPSelfAddr, starEGTPPeerAddr, starEGTPPeerOldRstCnt,
starEGTPPeerSessCnt}
```

```
STATUS current
DESCRIPTION
```

"EGTP Control Path Failure condition is no longer valid."

```
--#SUMMARY "[Service GTPV2-%s-%s] EGTP control path failure condition clear for interface type %s, self address %s, peer address %s, peer restart counter %d, peer session count %d"
```

```
--#ARGUMENTS {0,1,2,3,4,5,6}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1113 }
```

starCscfSessResourceCongestion NOTIFICATION-TYPE

```
OBJECTS { starSmgrId, starCongestionPolicy, starCscfSessCongestionResourceType }
```

```
STATUS current
DESCRIPTION
```

"A congestion condition has occurred at Session Manager for Cscf Service.

Probable Cause: This is the result of an operator-configured congestion threshold being reached for Cscf Service at Session Manager. This can be due to high usage of the resource being monitored which indicates that the IMG is reaching its peak capacity, or could be caused by the incorrect configuration of the congestion thresholds.

Actions to be Taken: Verify that the congestion thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

This system is cleared when the use of the specific resource falls below the configured limit.

Condition Clear Alarm: A starCscfSessResourceCongestionClear notification is sent when there are no congestion conditions for cscf service in that Session Manager Instance"

```
--#SUMMARY "[System] Cscf Congestion seen for sessmgr-%d; resource %s, policy %s applied"
--#ARGUMENTS {0,2,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1114 }
```

starCscfSessResourceCongestionClear NOTIFICATION-TYPE

```
OBJECTS { starSmgrId }
STATUS current
DESCRIPTION
  "A congestion condition has cleared at Session Manager for Cscf service"
--#SUMMARY "[System] Cscf Congestion clear for sessmgr-%d"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1115 }
```

starOSPFv3NeighborDown NOTIFICATION-TYPE

```
OBJECTS { starContextName, starInterfaceName, starInterfaceIPAddress, starOSPFNeighborRouterID, starOSPFFromState, starOSPFToState }
STATUS current
DESCRIPTION
  "An OSPFv3 neighbor is down.
```

Condition Clear Alarm: A starOSPFv3NeighborFull notification will be generated when the neighbor is restored."

```
--#SUMMARY "[VPN %s] OSPFv3 Neighbor down, interface %s/%s, OSPFv3 Neighbor %s, transitioned from state %s to %s"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE DEGRADED
--#SEVERITY MINOR
::= { starentTraps 1116 }
```

starOSPFv3NeighborFull NOTIFICATION-TYPE

```
OBJECTS { starContextName, starInterfaceName, starInterfaceIPAddress, starOSPFNeighborRouterID }
STATUS current
DESCRIPTION
  "An OSPFv3 neighbor is full. A starOSPFv3NeighborFull notification is only sent for neighbors which had previous been declared down via a starOSPFv3NeighborDown notification."
--#SUMMARY "[VPN %s] OSPFv3 Neighbor full, interface %s/%s, OSPFv3 Neighbor %s"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1117 }
```

starServiceLossSPIOClear NOTIFICATION-TYPE

```
STATUS current
DESCRIPTION
  "Service Loss condition is no longer valid for SPIO."
--#SUMMARY "[System] Service Loss condition clear for SPIO"
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1118 }
```

starEgtpuPathFailure NOTIFICATION-TYPE

```
OBJECTS { starEGTPVpnName, starEGTPServName, starEGTPSelfAddr, starEGTPPeerAddr, starEGTPSelfPort, starEGTPPeerPort, starEGTPPeerSessCnt }
STATUS current
DESCRIPTION
  "No response received for GTP-U ECHO requests. Data path failure detected towards peer EPC Node.
```

Check if the peer RNC or GSN is up

Possible reason: Remote EPC node is down

Condition Clear Alarm: A starEgtpuPathFailureClear notification will be generated when the data path towards the peer node is available"

```
--#SUMMARY "[Service GTPU-%s-%s] EGTPU path failure self address %s, peer address %s, self port %d, peer port %d, peer session count %d"
--#ARGUMENTS {0,1,2,3,4,5,6}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1119 }
```

starEgtpuPathFailureClear NOTIFICATION-TYPE

```
OBJECTS { starEGTPVpnName, starEGTPServName, starEGTPSelfAddr, starEGTPPeerAddr, starEGTPSelfPort, starEGTPPeerPort }
STATUS current
DESCRIPTION
```

"The data path to the peer EPC node which was down is now available
A starEgtpuPathFailureClear notification is only generated for nodes which had previously generated a
starEgtpuPathFailure notification"

```
--#SUMMARY "[Service GTPU-%s-%s] EGTPU path failure condition clear for self address %s, peer address %s self port %d, peer port %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1120 }
```

starStorageServerCDRLoss NOTIFICATION-TYPE

```
OBJECTS { starSessGGSNVpnName, starSessGGSNPeerAddr, starGSSCDRLossConfigured, starGSSCDRLossMeasured, starGSSClusterName,
starGSSClusterNodeName }
STATUS current
DESCRIPTION
```

"GTPP Storage Server is experiencing CDR Loss greater than the configured threshold value at the GSS.
Note that this is an external server, not part of the ST16."

```
--#SUMMARY "[System] GTPP Storage Server CDR Loss, VPN %s Server Address %s, GTPP Storage Server Cluster %s node %s, CDR Lost %d (alarm
at %d )"
--#ARGUMENTS {0,1,4,5,3,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1121 }
```

starHNBGWServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A Home Node B Gateway (HNB GW) Service has started.

Action to be Taken: No action required"

```
--#SUMMARY "[Service HNBGW-%s-%s] HNB GW service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATION
::= { starentTraps 1122 }
```

starHNBGWServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A Home Node B Gateway (PGN) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the HNB GW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the HNB GW service is operational.

Condition Clear Alarm: A starHNBGWServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service HNBGW-%s-%s] HNB GW service has stopped"
```

```
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1123 }
```

starSystemReboot NOTIFICATION-TYPE

```
OBJECTS { starChassisType, starChassisDescription, starChassisSWRevision }
STATUS current
DESCRIPTION
  "The system has rebooted by the operator. If successful, a subsequent
  starSystemStartup trap is typically generated.
```

Action to be Taken: No action required. If the reboot was not scheduled the admin logs can be examined to determine who invoked the reboot operation."

```
--#SUMMARY "[Chassis] System Reboot, Starent %s chassis, '%s', SW Revision %s"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1124 }
```

starLicenseAboutToExpire NOTIFICATION-TYPE

```
OBJECTS { starLicenseKey, starLicenseExpiryDate, starLicenseDaysRemaining }
STATUS current
DESCRIPTION
  "A license is about to expire.
```

Action to be Taken: A new license should be created and configured on the system before the grace period is over."

```
--#SUMMARY "[System] License is about to expire for license with key %d, expiration date %s with %d day to expire."
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 1125 }
```

starLicenseExpired NOTIFICATION-TYPE

```
OBJECTS { starLicenseKey, starLicenseExpiryDate, starLicenseDaysAfterExpiry }
STATUS current
DESCRIPTION
  "A license is in the grace period and should be updated with a new license.
```

Action to be Taken: A new license should be created and configured on the system."

```
--#SUMMARY "[System] License expired for license with key %d, expiration date %s and it has been %d day the license has expired."
--#ARGUMENTS {0,1,2}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 1126 }
```

-- PCC-Policy Service

starPCCPolicyServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A PCC-Policy Service has started
  Action to be Taken: No action required"
```

--#SUMMARY "[Service PCC-Policy-%s-%s] PCC-Policy service has started"

```
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1127 }
```

starPCCPolicyServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A PCC-Policy Service has stopped.
```

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the PCC-Policy service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PCC-Policy service is operational.

Condition Clear Alarm: A starPCCPolicyServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service PCC-Policy-%s-%s] PCC-Policy service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
::= { starentTraps 1128 }
```

-- PCC-Quota Service

```
starPCCQuotaServiceStart NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A PCC-Quota Service has started
Action to be Taken: No action required"
--#SUMMARY "[Service PCC-Quota-%s-%s] PCC-Quota service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1129 }
```

```
starPCCQuotaServiceStop NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A PCC-Quota Service has stopped.
Probable Cause: This is typically caused by operator invention. In
rare cases it can be caused by the loss of resources (PACs/PSCs) to
support the running configuration.
```

Action to be Taken: If the PCC-Quota service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PCC-Quota service is operational.

Condition Clear Alarm: A starPCCQuotaServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service PCC-Quota-%s-%s] PCC-Quota service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1130 }
```

-- PCC-AF Service

```
starPCCAFServiceStart NOTIFICATION-TYPE
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A PCC-AF Service has started
Action to be Taken: No action required"
```

```
--#SUMMARY "[Service PCC-AF-%s-%s] PCC-AF service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1131 }
```

starPCCAFServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

DESCRIPTION

"A PCC-AF Service has stopped.

Probable Cause: This is typically caused by operator invention. In rare cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the PCC-AF service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the PCC-AF service is operational.

Condition Clear Alarm: A starPCCAFServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service PCC-AF-%s-%s] PCC-AF service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1132 }
```

--SPR Failures

starSPRServerUnreachable NOTIFICATION-TYPE

```
OBJECTS { starSPRServerIpAddr }
```

```
STATUS current
```

DESCRIPTION

"The Subscriber Profile Repository (SPR) server cannot be reached.

Probable Cause: The SPR server is down, or there is a network issue preventing communication with the SPR server.

Actions to be Taken: Restore the SPR server to an operational status; Verify that the SPR server is reachable by performing a 'ping' operation from the CLI in the appropriate context. Check the admin logs for notification of communication problems.

Clear Condition: Verify that communication to the SPR authentication server has been restored.

Condition Clear Alarm: When this condition clears a starSPRServerReachable notification will be generated."

```
--#SUMMARY "[System] SPR Server %s is unreachable"
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1133 }
```

starSPRServerReachable NOTIFICATION-TYPE

```
OBJECTS { starSPRServerIpAddr }
```

```
STATUS current
```

DESCRIPTION

"The Subscriber Profile Repository (SPR) server is now reachable.

This can be the result of a system startup, the configuration of a new server, or a previously unreachable server becoming reachable.

Action to be Taken: No Action Required."

--#SUMMARY "[System] SPR Server %s is reachable"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1134 }

starGSServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A GS Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service GS %s-%s] GS service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1135 }

starGSServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A GS Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the GS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the GS service is operational.

Condition Clear Alarm: A starGSServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service GS %s-%s] GS service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1136 }

starMAPServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A MAP Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service MAP %s-%s] MAP service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1137 }

starMAPServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A MAP Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the MAP service shutdown was not planned,

examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the MAP service is operational.

Condition Clear Alarm: A starMAPServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service MAP %s-%s] MAP service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1138 }
```

starIUPSServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"An IUPS Service has started
Action to be Taken: No action required"
--#SUMMARY "[Service IUPS %s-%s] IUPS service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1139 }
```

starIUPSServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"An IUPS Service has stopped.
Probable Cause: This is typically caused by operator invention. In
unusual cases it can be caused by the loss of resources (PACs/PSCs) to
support the running configuration.
```

Action to be Taken: If the IUPS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the IUPS service is operational.

Condition Clear Alarm: A starIUPSServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service IUPS %s-%s] IUPS service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1140 }
```

starSGTPServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A SGTP Service has started
Action to be Taken: No action required"
--#SUMMARY "[Service SGTP %s-%s] SGTP service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1141 }
```

starSGTPServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A SGTP Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SGTP service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SGTP service is operational.

Condition Clear Alarm: A starSGTPServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service SGTP %s-%s] SGTP service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1142 }
```

starEPDGServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A EPDG Service has started
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service EPDG-%s-%s] EPDG service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1143 }
```

starEPDGServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A EPDG Service has stopped.
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the EPDG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the EPDG service is operational.

Condition Clear Alarm: A starEPDGServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service EPDG-%s-%s] EPDG service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1144 }
```

starApsCommandSuccess NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starPortNum, starPortType }
STATUS current
DESCRIPTION
```

"APS Command Success Status."

```
--#SUMMARY "APS Command Success for card %d card type %d port %d port type %s"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
::= { starentTraps 1145 }
```

starApsCommandFailure NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starPortNum, starPortType }
STATUS current
DESCRIPTION
  "APS Command Failure Status."
--#SUMMARY "APS Command Failure for card %d card type %d port %d port type %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1146 }
```

starApsSwitchSuccess NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starPortNum, starPortType }
STATUS current
DESCRIPTION
  "APS Switch Success Status."
--#SUMMARY "APS Switch Command Status for card %d card type %d port %d port type %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1147 }
```

starApsSwitchFailure NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starPortNum, starPortType }
STATUS current
DESCRIPTION
  "APS Switch Failure Status."
--#SUMMARY "APS Switch Command Failure Status for card %d card type %d port %d port type %s"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1148 }
```

starApsModeMismatch NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starPortNum }
STATUS current
DESCRIPTION
  "APS Mode Mismatch Status."
--#SUMMARY "APS Mode Mismatch for card %d card type %s port %d"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1149 }
```

starApsChannelMismatch NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotNum }
STATUS current
DESCRIPTION
  "APS Channel Mismatch Status."
--#SUMMARY "APS Channel Mismatch for card %d card type %s port %d"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1150 }
```

starApsByteMismatch NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotNum }
STATUS current
DESCRIPTION
  "APS Byte Mismatch Status."
--#SUMMARY "APS Byte Mismatch for card %d card type %s for card %d"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
::= { starentTraps 1151 }
```

starApsFeProtLineFailure NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotNum, starSlotNum }
STATUS current
DESCRIPTION
  "APS FE Protocol Line Failure Status."
--#SUMMARY "APS FE Port Line Failure Status for card %d card type %s from card %d to card %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1152 }
```

starApsLossOfRedundancy NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotNum, starSlotNum }
STATUS current
DESCRIPTION
  "APS Loss of Redundancy Status."
--#SUMMARY "APS Loss of Redundancy for card %d card type %s from card %d to card %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1153 }
```

starApsLossOfRedundancyClear NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starCardType, starSlotNum, starSlotNum }
STATUS current
DESCRIPTION
  "APS Loss of Redundancy Clear Status."
--#SUMMARY "APS Redundancy Restored for card %d card type %s from card %d to card %d"
--#ARGUMENTS {0,1,2,3}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1154 }
```

starHNBGWSGSNRanapReset NOTIFICATION-TYPE

```
OBJECTS { starSessHNBGWVpnName, starSessHNBGWServName, starSessHNBGWPsNwName, starSessHNBGWSgsnPtCd }
STATUS current
DESCRIPTION
  "RANAP Reset Received from SGSN"

--#SUMMARY "[Service HNBGW %s-%s PS Network %s] Received RANAP Reset from SGSN %d"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1155 }
```

starHNBGWMSCRanapReset NOTIFICATION-TYPE

```
OBJECTS { starSessHNBGWVpnName, starSessHNBGWServName, starSessHNBGWCsNwName, starSessHNBGWMscPtCd }
STATUS current
DESCRIPTION
  "RANAP Reset Received from MSC"

--#SUMMARY "[Service HNBGW %s-%s CS Network %s] Received RANAP Reset from MSC %d"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1156 }
```

starALCAPNodeReset NOTIFICATION-TYPE

```
OBJECTS { starSessALCAPVpnName, starSessALCAPServName, starSessALCAPAAL2NodeName }
STATUS current
DESCRIPTION
  "ALCAP Node Reset Received from MGW"
```

```
--#SUMMARY "[Service ALCAP %s-%s] AAL2 Node %s Received ALCAP Node Reset"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1157 }
```

starALCAPPathReset NOTIFICATION-TYPE

```
OBJECTS { starSessALCAPVpnName, starSessALCAPServName, starSessALCAPAAL2NodeName, starSessALCAPPathId }
STATUS current
DESCRIPTION
"ALCAP Path Reset Received from MGW"
```

```
--#SUMMARY "[Service ALCAP %s-%s] AAL2 Node %s Path %d Received ALCAP Path Reset"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1158 }
```

starALCAPPathBlock NOTIFICATION-TYPE

```
OBJECTS { starSessALCAPVpnName, starSessALCAPServName, starSessALCAPPathId }
STATUS current
DESCRIPTION
"ALCAP Block Received from MGW"
```

```
--#SUMMARY "[Service ALCAP %s-%s] Path %d Received ALCAP Block"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1159 }
```

starALCAPPathUnBlock NOTIFICATION-TYPE

```
OBJECTS { starSessALCAPVpnName, starSessALCAPServName, starSessALCAPPathId }
STATUS current
DESCRIPTION
"ALCAP Un Block Received from MGW"
```

```
--#SUMMARY "[Service ALCAP %s-%s] Path %d Received ALCAP Un Block"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1160 }
```

starSGSServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A SGS Service has started"
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service SGS-%s-%s] SGS service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1161 }
```

starSGSServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
"A SGS Service has stopped."
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SGS service shutdown was not planned,

examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SGS service is operational.

Condition Clear Alarm: A starSGSServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service SGS-%s-%s] SGS service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1162 }
```

starSgsnGnMsgDelay NOTIFICATION-TYPE

```
OBJECTS { starSGTPVpnName, starSGTPServName, starSGTPPeerAddr }
STATUS current
DESCRIPTION
  "Messaging Dealy seen towards GGSN as many messages sent to that GGSN did
  not receive response within a certain time"
```

```
--#SUMMARY "[Service SGTP %s-%s] SGSN Gn Message delay towards GGSN %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1163 }
```

starSgsnGnMsgDelayClear NOTIFICATION-TYPE

```
OBJECTS { starSGTPVpnName, starSGTPServName, starSGTPPeerAddr}
STATUS current
DESCRIPTION
  "The delay seen towards GGSN is no longer seen as message responses are received in time as expected"
```

```
--#SUMMARY "[Service SGTP %s-%s] Clear SGSN Gn Message delay towards GGSN %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1164 }
```

starBNGServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A BNG Service has started"
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service BNG-%s-%s] BNG service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1165 }
```

starBNGServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "A BNG Service has stopped."
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the BNG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the BNG service is operational.

Condition Clear Alarm: A starBNGServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service BNG-%s-%s] BNG service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1166 }
```

starMMES1AssocFail NOTIFICATION-TYPE

OBJECTS { starMMES1AssocVpnName, starMMES1AssocServName, starMMES1AssocENBID }

STATUS current

DESCRIPTION

"An S1 Association between an MME service and an eNodeB has failed.

Action to be Taken: If the shutdown of the eNodeB was not planned, determine the health/status of the eNodeB. If available, verify the health of the network between the two elements.

Clear Condition: The condition is cleared with the S1 Association is reestablished.

Condition Clear Alarm: A starMMES1AssocEstab notification will be generated when the S1 association is re-established"

```
--#SUMMARY "[S1 Association %s-%s-%s] Association Failed"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1167 }
```

starMMES1AssocSetup NOTIFICATION-TYPE

OBJECTS { starMMES1AssocVpnName, starMMES1AssocServName, starMMES1AssocENBID }

STATUS current

DESCRIPTION

"An S1 Association between an MME service and an eNodeB has been established. Normally a starMMES1AssocSetup notification would be generated only for an associated which had previously failed, but optionally this notification can be generated for any association setup."

```
--#SUMMARY "[S1 Association %s-%s-%s] Association Setup"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY INFORMATIONAL
::= { starentTraps 1168 }
```

--MVG Traps

starMVGPeerDown NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starPeerAddress, starMVGEndpointName, starMVGCauseCode, starMVGProtocolType }

STATUS current

DESCRIPTION

"A MVG peer is down.

Problem Cause: The MVG peer has failed, or a network connectivity prevents reaching the peer.

Condition Clear Alarm: A starMVGPeerUp notification will be generated when the peer is up"

```
--#SUMMARY "[VPN %s] MVG Peer %s endpoint %s is down"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
```



```
::= { starentTraps 1169 }
```

starMVGPeerUp NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starPeerAddress, starMVGEndpointName,
starMVGCauseCode, starMVGProtocolType }
```

```
STATUS current
```

```
DESCRIPTION
```

"A MVG peer is up. This notification is only generated for peers which have previously been declared down."

```
--#SUMMARY "[VPN %s] MVG Peer %s endpoint %s is up"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1170 }
```

starPCCntfyIntfPeerUnreachable NOTIFICATION-TYPE

```
OBJECTS { starPCCntfyIntfPeerName }
```

```
STATUS current
```

```
DESCRIPTION
```

"The IPCF Event Notification Interface peer cannot be reached. ?

Probable Cause: The Event Notification server on SPR is down Or the IP-address/port configuration does not match with the server

Actions to be Taken: Check the Event notification server on SPR and ensure it is running. Ensure that IP-address port combination on IPCF match the server side configurations.

Clear Condition: Verify that the Event notification interface status on boxer is up.

Condition Clear Alarm: When this condition clears a starNtfyIntfPeerReachable notification will be generated."

```
--#SUMMARY "[System] Event Notification Peer (%s) is unreachable"
```

```
--#ARGUMENTS {0}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1173 }
```

starPCCntfyIntfPeerReachable NOTIFICATION-TYPE

```
OBJECTS { starPCCntfyIntfPeerName }
```

```
STATUS current
```

```
DESCRIPTION
```

" The Notification Interface peer can be reached.?"

Action to be Taken: No Action Required."

```
--#SUMMARY "[System] Event Notification Peer (%s) is reachable"
```

```
--#ARGUMENTS {0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1174 }
```

starIPSecNodePeerDown NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName, starPeerAddress }
```

```
STATUS current
```

```
DESCRIPTION
```

"A Node Service peer has stopped responding.

Problem Cause: The IPSec Node peer has failed, or a network connectivity prevents reaching the peer.

Condition Clear Alarm: A starIPSecNodePeerUp notification will be generated when the peer is up"

```
--#SUMMARY "[Service %-s-%s] IPSec Node peer %s is down"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1175 }
```

starIPSecNodePeerUp NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starPeerAddress }

STATUS current

DESCRIPTION

"A Node Service peer is back online

Action to be Taken: No action required"

--#SUMMARY "[Service %s-%s] IPsec Node peer %s is up"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1176 }

starApsRemoteResponseFail NOTIFICATION-TYPE

OBJECTS { starSlotNum, starCardType, starPortSlot }

STATUS current

DESCRIPTION

"APS Remote Response Fail."

--#SUMMARY "APS Remote Response Fail for card %d type %s port %d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1177 }

starCdrPurged NOTIFICATION-TYPE

OBJECTS {starSessGGSNVpnName,starSessGGSNAPNName,starSessGTPPGroupName }

STATUS current

DESCRIPTION

"CDRs purged"

--#SUMMARY "[System] CDRs purged for context %s in apn %s for gtp group%d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1178 }

starLocalUserAdded NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr,
starCLIDatabaseUsername,
starCLIPrivs

}

STATUS current

DESCRIPTION

"A local user was added to the system.

Probable Cause: A command was issued which resulted in a new user being added to the local user database. If this was not a planned action then further investigation is advised."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s added user %s with %s privileges to the local database"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1180 }

starLocalUserRemoved NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr,
starCLIDatabaseUsername

}

STATUS current

DESCRIPTION

"A local user was removed from the system.

Probable Cause: A command was issued which resulted in an existing user being removed from the local user database. If this was not a planned action then further investigation is advised."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s removed user %s from the local database"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1181 }

starLocalUserPrivilegeChanged NOTIFICATION-TYPE

OBJECTS {

starCLIUsername,
starCLITtname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr,
starCLIDatabaseUsername,
starCLIPrivs

}

STATUS current

DESCRIPTION

"A local user's privileges were modified.

Probable Cause: A command was issued which resulted in an existing user's privileges being modified. If this was not a planned action then further investigation is advised."

--#SUMMARY "[System] Security: User %s %s from IP %s changed user %s privilege to %s in the local database"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1182 }

starOsShellAccessed NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr

}

STATUS current

DESCRIPTION

"A user has accessed the OS shell.

Probable Cause: A command was issued which resulted in a user's access to the operating system shell. If this activity was not anticipated, then further investigation should be performed."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s has gained access to the OS shell"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1183 }

starTestModeEntered NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr

}

STATUS current

DESCRIPTION

"A user has entered the StarOS Test Mode.

Probable Cause: A command was issued which resulted in a user entering the CLI test command mode. The test command mode is only intended for maintenance and diagnostic activity and could result in major service disruptions. If this action was not

intentional, the user should exit from test mode."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s has entered test mode"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1184 }

starLicenseFeaturesModified NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtyname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr

}

STATUS current

DESCRIPTION

"A user has manually modified the StarOS license feature set through the CLI.

Probable Cause: A command was issued which resulted in a user modifying the set of license features available to the user. This capability was only intended for maintenance and diagnostic activity and could result in major service disruptions. If this action was not intentional, the user should restore the original license feature set."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s has modified the license feature set"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1185 }

starHiddenAccessEnabled NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtyname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr

}

STATUS current

DESCRIPTION

"An administrator has explicitly enabled the use of hidden test commands.

Probable Cause: A command was configured which resulted in users having access to the specific test commands which may have been previously unavailable. If this action was not intentional, the user should disable access to the hidden test commands."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s has enabled access to hidden test commands"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1186 }

starHiddenAccessDisabled NOTIFICATION-TYPE

OBJECTS {

starCLIContext,
starCLIUsername,
starCLITtyname,
starCLIRemotelpAddrType,
starCLIRemotelpAddr

}

STATUS current

DESCRIPTION

"An administrator has explicitly disabled the use of hidden test commands.

Probable Cause: A command was configured which resulted in users no longer having access to specific test commands which may have been previously available. If this action was not intentional, the user should re-enable access to the hidden test commands."

--#SUMMARY "[System] Security: Context %s User %s %s from IP %s has disabled access to hidden test commands"

```
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1187 }
```

starLawfulInterceptChanged NOTIFICATION-TYPE

```
OBJECTS { starCLIUsername, starCLIUsername }
STATUS current
DESCRIPTION
    "Original Lawful Intercept configured by Admin: %s is changed by Admin: %s"
--#SUMMARY "Original Lawful Intercept configured by Admin: %s is changed by Admin: %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1188 }
```

starMMES1PathFail NOTIFICATION-TYPE

```
OBJECTS { starMMES1PathVpnName, starMMES1PathServName, starMMES1PathENBID, starMMES1PathSelfAddr,
    starMMES1PathSelfPort, starMMES1PathPeerAddr, starMMES1PathPeerPort }
STATUS current
DESCRIPTION
    "An S1 Path between an MME service and an eNodeB has failed.

    Action to be Taken: If the shutdown of the eNodeB was not planned,
    determine the health/status of the eNodeB. If available, verify the
    health of the network between the two elements.

    Clear Condition: The condition is cleared with the S1 Path is
    reestablished.

    Condition Clear Alarm: A starMMES1PathEstab notification will be generated
    when the S1 path is re-established"
--#SUMMARY "[S1 Path %s-%s-%s] Path Failed for self endpoint %s:%d peer endpoint %s:%d"
--#ARGUMENTS {0,1,2,3,4,5,6}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1189 }
```

starMMES1PathSetup NOTIFICATION-TYPE

```
OBJECTS { starMMES1PathVpnName, starMMES1PathServName, starMMES1PathENBID, starMMES1PathSelfAddr,
    starMMES1PathSelfPort, starMMES1PathPeerAddr, starMMES1PathPeerPort }
STATUS current
DESCRIPTION
    "An S1 Path between an MME service and an eNodeB has been
    established. Normally a starMMES1PathSetup notification would be
    generated only for a path which had previously failed, but
    optionally this notification can be generated for any path
    setup."
--#SUMMARY "[S1 Path %s-%s-%s] Path Setup for self endpoint %s:%d peer endpoint %s:%d"
--#ARGUMENTS {0,1,2,3,4,5,6}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1190 }
```

starSAEGWServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
    "A SAEGW Service has started

    Action to be Taken: No action required"
--#SUMMARY "[Service SAEGW -%s-%s] SAEGW service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1191 }
```

starSAEGWServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A SEAGW Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SAEGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SEAGW service is operational.

Condition Clear Alarm: A starSAEGWServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service SAEGW-%s-%s] SAEGW service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1192 }

starHcnbgwAccessServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A HENBGW Access Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service HcnbgwAccess-%s-%s] HENBGW Access service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1193 }

starHcnbgwAccessServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A HENBGW Access Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the HENBGW Access service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the HENBGW Access service is operational.

Condition Clear Alarm: A starHcnbgwAccessServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service HcnbgwAccess-%s-%s] HENBGW Access service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1194 }

starHcnbgwNetworkServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A HENBGW Network Service has started

Action to be Taken: No action required"

--#SUMMARY "[Service HenbgwNetwork-%s-%s] HENBGW Network service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1195 }

starHenbgwNetworkServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A HENBGW Network Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the HENBGW Network service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the HENBGW Network service is operational.

Condition Clear Alarm: A starHenbgwNetworkServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service HenbgwNetwork-%s-%s] HENBGW Network service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1196 }

starAAAArchiveStarted NOTIFICATION-TYPE

OBJECTS {starTaskInstance}

STATUS current

DESCRIPTION

"Archive started"

--#SUMMARY "[System] AAA Archive started for sessmgr instance %d"

--#ARGUMENTS {1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1197 }

starECSTotalDNSLearntIPv4Threshold NOTIFICATION-TYPE

OBJECTS {starECSTotalDNSLearntIPThresholdInstance, starECSTotalDNSLearntIPThresholdconfigured, starECSTotalDNSLearntIPThresholdmeasured}

STATUS current

DESCRIPTION

" DNS Learnt IPv4 entries exceed the threshold limit (high water mark) configured.

For IPv4 Max IP entries = 512,00

Alarm Cleared when the IPv4 entries go below the Lower Water Mark configured"

--#SUMMARY "[ACSMgr Instance %d] Threshold-%d Measured value-%d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1198 }

starECSTotalDNSLearntIPv4ThresholdClear NOTIFICATION-TYPE

OBJECTS {starECSTotalDNSLearntIPThresholdInstance, starECSTotalDNSLearntIPThresholdconfigured, starECSTotalDNSLearntIPThresholdmeasured}

STATUS current

DESCRIPTION

"DNS Learnt IPv4 entries reach below the threshold limit (lower water mark) configured."

--#SUMMARY "[ACSMgr Instance %d] Threshold-%d Measured value-%d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1199 }

starECSTotalDNSLearntIPv6Threshold NOTIFICATION-TYPE

OBJECTS {starECSTotalDNSLearntIPThresholdInstance, starECSTotalDNSLearntIPThresholdconfigured, starECSTotalDNSLearntIPThresholdmeasured}

STATUS current

DESCRIPTION

"DNS Learnt IPv6 entries exceed the threshold limit (high water mark) configured.

For IPv6 Max IP entries = 256,00

Alarm Cleared when the IPv6 entries go below the Lower Water Mark configured"

--#SUMMARY "[ACSMgr Instance %d] Threshold-%d Measured value-%d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1200 }

starECSTotalDNSLearntIPv6ThresholdClear NOTIFICATION-TYPE

OBJECTS {starECSTotalDNSLearntIPThresholdInstance, starECSTotalDNSLearntIPThresholdconfigured, starECSTotalDNSLearntIPThresholdmeasured}

STATUS current

DESCRIPTION

"DNS Learnt IPv6 entries reach below the threshold limit (lower water mark) configured."

--#SUMMARY "[ACSMgr Instance %d] Threshold-%d Measured value-%d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1201 }

starIPSecNodeIpv6PeerDown NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starPeerAddressIpv6 }

STATUS current

DESCRIPTION

"A Node Service peer has stopped responding. This peer is reached using an IPv6 address.

For IPv4-connected peers, a starIPSecNodePeerDown notification would be generated.

Problem Cause: The IPSec Node peer has failed, or a network connectivity prevents reaching the peer.

Condition Clear Alarm: A starIPSecNodeIpv6PeerUp notification will be generated when the peer is up"

--#SUMMARY "[Service %s-%s] IPSec Node peer %s is down"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1202 }

starIPSecNodeIpv6PeerUp NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starPeerAddressIpv6 }

STATUS current

DESCRIPTION

"A Node Service peer is back online. This peer is reached using an IPv6 address.

For IPv4-connected peers, a starIPSecNodePeerUp notification would be generated.

Action to be Taken: No action required"

--#SUMMARY "[Service %s-%s] IPSec Node peer %s is up"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL


```
--#SEVERITY INFORMATIONAL
::= { starentTraps 1203 }
```

starLAGGroupDown NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starLAGPartner }
```

```
STATUS current
```

```
DESCRIPTION
```

"LAG group status is Down. This notification is only generated for master physical port and a previous 'starLAGGroupUp' notification was previously generated.

Action to be Taken: No action required. The cause for the LAG down should be investigated."

```
--#SUMMARY "[Port] LAG group status is down Slot %d Port %d Partner %s"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1204 }
```

starLAGGroupUp NOTIFICATION-TYPE

```
OBJECTS { starPortSlot, starPortNum, starLAGPartner }
```

```
STATUS current
```

```
DESCRIPTION
```

"LAG group status is up. This notification is only generated for master physical port.

Action to be Taken: No action required"

```
--#SUMMARY "[Port] LAG group status is up Slot %d Port %d Partner %s"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1205 }
```

starVLRAssocDown NOTIFICATION-TYPE

```
OBJECTS { starSGSServiceVpnName, starSGSServiceServName, starVLRName, starVLRipAddr1,
          starVLRipAddr2, starVLRPortNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A VLR Association is down.

Problem Cause: The VLR Association has failed, or a network connectivity prevents reaching the VLR.

Condition Clear Alarm: A starVLRAssocUp notification will be generated when the VLR association is up"

```
--#SUMMARY "[ VLR Association %s-%s-%s] is down; End point Addr1: %s Addr2: %s Port: %d"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1206 }
```

starVLRAssocUp NOTIFICATION-TYPE

```
OBJECTS { starSGSServiceVpnName, starSGSServiceServName, starVLRName, starVLRipAddr1,
          starVLRipAddr2, starVLRPortNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A VLR Association is up. This notification is only generated for Association which have previously been declared down."

```
--#SUMMARY "[ VLR Association %s-%s-%s] is up; End pointAddr1: %s Addr2: %s Port %d"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1207 }
```

starVLRAllAssocDown NOTIFICATION-TYPE

```
OBJECTS { starSGSServiceVpnName, starSGSServiceServName }
```

```
STATUS current
```

```
DESCRIPTION
```

"All the VLR Associations are down.

Problem Cause: All the VLR Associations has failed, or network connectivity

prevents reaching the VLRs.

Condition Clear Alarm: A starVLRAllAssocUp notification will be generated when all the VLR associations are up"

```
--#SUMMARY "All VLR Associations are down %s-%s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1208}
```

starVLRAllAssocDownClear NOTIFICATION-TYPE

```
OBJECTS { starSGSServiceVpnName, starSGSServiceServName }
STATUS current
DESCRIPTION
```

"VLR at least one association is up. This notification is only generated for all the Association which have previously been declared down."

```
--#SUMMARY "VLR at least one association is up %s-%s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1209 }
```

starEnhancedCongestion NOTIFICATION-TYPE

```
OBJECTS { starServiceType, starCongestionPolicy, starCongestionResourceType, starCongestionType, starCongestionActionProfileName}
STATUS current
DESCRIPTION
```

"A congestion condition has occurred.

Probable Cause: This is the result of an operator-configured congestion threshold being reached. This can be due to high usage of the resource being monitored which indicates that the IMG is reaching its peak capacity, or could be caused by the incorrect configuration of the congestion thresholds.

Actions to be Taken: Verify that the congestion thresholds are correct; if the congested state is seen repeatedly, or for sustained periods of time, additional system capacity may need to be brought online.

This system is cleared when the use of the specific resource falls below the configured limit.

Condition Clear Alarm: A starCongestionClear notification is sent when there are no congestion conditions for a service type"

```
--#SUMMARY "[System] Congestion seen for %s service; resource %s, policy %s applied, %s threshold exceeded, action profile %s"
--#ARGUMENTS {0,2,1,3,4}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1210 }
```

starEnhancedCongestionClear NOTIFICATION-TYPE

```
OBJECTS { starServiceType, starCongestionType }
STATUS current
DESCRIPTION
```

"A congestion condition has cleared."

```
--#SUMMARY "[System] Congestion cleared for service %s threshold %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1211 }
```

starSGSNRNCNoResetAck NOTIFICATION-TYPE

```
OBJECTS { starSessSGSNVpnName, starSessSGSNServName,starSessSGSNMcc,starSessSGSNMnc,starSessSGSNRncId}
STATUS current
DESCRIPTION
```

"SGSN has not received an Radio Network Controller(RNC) reset-ack event.

This event is generated on expiry of all retransmission for RNC Reset and non-receipt of Reset-Ack."

```
--#SUMMARY "[Service SGSN %s-%s] RNC Reset Ack event not received ; MCC %s MNC %s RnclId %d"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1212 }
```

starThreshSAEGWSessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The total number of SAEGW sessions is above the configured threshold value.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearSAEGWSessions notification will be generated when the measured value falls below the threshold"

```
--#SUMMARY "ThreshSAEGWSessions threshold %d measured value %d"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1213 }
```

starThreshClearSAEGWSessions NOTIFICATION-TYPE

OBJECTS { starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "ThreshClearSAEGWSessions threshold %d measured value %d"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1214 }
```

starSGSNRMCPUPWarn NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The CPU usage is going in Warning level.

This event is generated when current CPU usage reaches 90% of allocated limit.

Condition Clear Alarm: A starSGSNRMCPUPWarnClear notification is sent when there CPU usage reaches 50% of allocated limit after warning"

```
--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1215 }
```

starSGSNRMCPUPWarnClear NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The CPU usage is coming back to normal once warned.

This event is generated when current CPU usage reaches 50% of allocated limit after warning."

```
--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1216 }
```

starSGSNRMMemWarn NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Memory usage for the proclat is going in Warning level.
This event is generated when current Memory usage exceeds allocated limit.

Condition Clear Alarm: A starSGSNRMMemWarnClear notification is sent when
current Memory usage reaches below 95% of allocated limit once warned."

--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1217 }

starSGSNRMMemWarnClear NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Memory usage for the proclat is coming back to normal once warned.
This event is generated when current Memory usage reaches below 95% of allocated limit once warned."

--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1218 }

starRMCPUOver NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The CPU usage is going in Overload level.
This event is generated when current CPU usage reaches 50% more of allocated limit.

Condition Clear Alarm: A starRMCPUOverClear notification is sent when
current CPU usage reaches 50% of allocated limit after over"

--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1219 }

starRMCPUOverClear NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The CPU usage is going back to normal level.
This event is generated when current CPU usage reaches 50% of allocated limit after over."

--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1220 }

starSGSNRMMemOver NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Memory usage of the task is going in Overload level.

This event is generated when current Memory usage reached twice allocated limit."

--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1221 }

starSGSNRMMemOverClear NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starTaskCard,
starTaskCPU, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"The Memory usage for a proclat reached normal after overload.

This event is generated when current Memory usage reaches 95% of allocated limit once overloaded."

--#SUMMARY "[SGSN Facility %s-%d] Card %d CPU %d allocated %d used %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1222 }

starSessMgrFlowCount NOTIFICATION-TYPE

OBJECTS {

starSessMgrFlowInstId,
starSessMgrFlowPDNNo,
starSessMgrFlowMemUsage,
starSessMgrFlowCounter,
starSessMgrTotalFlowCount

}

STATUS current

DESCRIPTION

"Session Manager Flows counting, This event is generated when number of flows in a session manager instance goes beyond configured threshold,it will also print number of PDN, Memeory usage and sess manager instance number."

--#SUMMARY "[Session Manager Instance %d] is Having Total number of PDNs %d with Memory Usage %d and Max Flows per Session %d, Total used Flows %d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1223 }

starSessMgrFlowCountClear NOTIFICATION-TYPE

OBJECTS {

starSessMgrFlowInstId,
starSessMgrFlowPDNNo,
starSessMgrFlowMemUsage,
starSessMgrFlowCounter,
starSessMgrTotalFlowCount

}

STATUS current

DESCRIPTION

"Clear Session Manager Flows Counting Trap, This event is generated when number of flows in a session manager instance goes below configured threshold,it will also print number of PDN, Memeory usage and sess manager instance number."

--#SUMMARY "[Session Manager Instance %d] is Having Total number of PDNs %d with Memory Usage %d and Max Flows per Session %d, Total used Flows %d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1224 }

starStorageFound NOTIFICATION-TYPE

```

OBJECTS { starStorageSlot, starStorageName }
STATUS current
DESCRIPTION
"The specified storage device is found and mounted successfully
on the card. This notification only generated to the storage device for
which 'starStorageNotFound' notification was generated"

--#SUMMARY "[Slot-%d] Storage device is found and mounted on %s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1225 }

```

starStorageNotFound NOTIFICATION-TYPE

```

OBJECTS { starStorageSlot, starStorageName }
STATUS current
DESCRIPTION
"The specified storage device not found on the card.
This notification is currently only generated for failures to access
the specified storage device on the card.
Probable Cause: The storage device is not accessible on the card.

```

Action to be Taken: Verify the storage device on the card is attached correctly.

Condition Clear Alarm: A starStorageFound notification will be generated when the storage device is mounted on the card."

```

--#SUMMARY "[Slot-%d] Storage device %s is not mounted or present"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1226 }

```

starHENBGWMMESCTPAssocDown NOTIFICATION-TYPE

```

OBJECTS { starHENBGWServiceVpnName, starHENBGWServiceServName, starHENBGWServiceLogicalENBId,
          starHENBGWServiceMMEServName, starHENBGWServicePeerAddr, starHENBGWServicePeerPort }
STATUS current
DESCRIPTION
"A HENBGW MME SCTP Association is down.
Problem Cause: The HENBGW MME SCTP Association has failed, or a network
connectivity prevents reaching the MME.

```

Condition Clear Alarm: A starHENBGWMMESCTPAssocUp notification will be generated when the HENBGW MME SCTP association is up."

```

--#SUMMARY "[ HENBGW MME Association %s-%s-%s-%s] is down; End pointAddr: %s Port %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1227 }

```

starHENBGWMMESCTPAssocUp NOTIFICATION-TYPE

```

OBJECTS { starHENBGWServiceVpnName, starHENBGWServiceServName, starHENBGWServiceLogicalENBId,
          starHENBGWServiceMMEServName, starHENBGWServicePeerAddr, starHENBGWServicePeerPort }
STATUS current
DESCRIPTION
"A HENBGW MME SCTP Association is up. This notification is only generated for
Association which have previously been declared down, optionally this notification
can be generated for any association up."
--#SUMMARY "[HENBGW MME Association %s-%s-%s-%s] is up; End pointAddr: %s Port %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1228 }

```

starHENBGWMMESCTPAllAssocDown NOTIFICATION-TYPE

```

OBJECTS { starHENBGWServiceVpnName, starHENBGWServiceServName }

```

STATUS current

DESCRIPTION

"All the HENBGW MME SCTP Associations are down.

Problem Cause: All the HENBGW MME SCTP Associations has failed, or network connectivity prevents reaching the MMEs.

Condition Clear Alarm: A starHENBGWMMESCTPAllAssocDownClear notification will be generated when at least one HENBGW MME SCTP association is up."

--#SUMMARY "All HENBGW MME SCTP Associations are down %s-%s"

--#ARGUMENTS {0,1}

--#STATE NONOPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1229 }

starHENBGWMMESCTPAllAssocDownClear NOTIFICATION-TYPE

OBJECTS { starHENBGWServiceVpnName, starHENBGWServiceServName }

STATUS current

DESCRIPTION

"HENBGW MME SCTP at least one association is up. This notification is only generated for all the Association which have previously been declared down."

--#SUMMARY "HENBGW MME SCTP at least one association is up %s-%s"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1230 }

starNPDBConnectionDown NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starNwReachSrvrAddr}

STATUS current

DESCRIPTION

" A NPDB connection is down.

Probable Cause: This is typically caused when NPDB server resets the socket.

Action to be Taken: Check if the NDPB Server is running.

Clear Condition: Verify that PING PONG messages are exchanged with the NPDB Server.

Condition Clear Alarm: A startNPDBConnectionUp notification will be generated when the service is restarted"

--#SUMMARY "[CSCF Task %s/%d] Connection to NPDB server %s is down"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1231 }

starNPDBConnectionUp NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starNwReachSrvrAddr}

STATUS current

DESCRIPTION

" A NPDB connection is up.

Action to be Taken: No action required"

--#SUMMARY "[CSCF Task %s/%d] Connection to NPDB server %s is up"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 1232 }

starNPUMissedARPFrames NOTIFICATION-TYPE

OBJECTS { starNPUSlotNumber, starNPUCPUNumber, starNPUNPUNumber }

STATUS current

DESCRIPTION

"This trap will be raised when NPU misses the ARP and packets route to kernel. This will print the slot number CPU number and NPU number"

```
--#SUMMARY "[Slot-%d] CPU %d NPU %d are routed through the kernel"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1233 }
```

```
starNPUMissedARPFramesClear NOTIFICATION-TYPE
OBJECTS { starNPUSlotNumber, starNPUCPUNumber, starNPUNPUNumber }
STATUS current
DESCRIPTION
"This clear trap will be raised when NPU misses the ARP and packets route
to kernel recovers. This will print the slot number CPU number and NPU number"
```

```
--#SUMMARY "[Slot-%d] CPU %d NPU %d are routed through the kernel"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1234 }
```

```
starChassisCrashListFull NOTIFICATION-TYPE
OBJECTS { starChassisCrashList }
STATUS current
DESCRIPTION
"Chassis crash list is reached full. This notification is generated
when no more space is left to store the crash list and reached
to disk limit."
--#SUMMARY "[System] Chassis Crash List is %s"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1235 }
```

```
starSessMgrCSCFServiceRecoveryComplete NOTIFICATION-TYPE
OBJECTS {starServiceVpnName, starServiceServName, starTaskInstance, starCPUSlot, starCPUNumber}
STATUS current
DESCRIPTION
"Indicates that the CSCF Service had completed recovery.
This trap is generated when all the calls are recovered and the listen socket becomes active to accept packets"
--#SUMMARY "[Service CSCF %s-%s] CSCF Service Recovery Complete For Sessmgr Instance %d on %d/%d"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1236 }
```

```
starECSreaddressServerDown NOTIFICATION-TYPE
OBJECTS { starPeerAddress, starUDPPortNum}
STATUS current
DESCRIPTION
"Server from readdress server list is detected down
This notification is generated when there are consecutive failures for server."
--#SUMMARY "ECS Readdress server-list server %s:%d going down"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1237 }
```

```
starECSreaddressServerUp NOTIFICATION-TYPE
OBJECTS { starPeerAddress, starUDPPortNum}
STATUS current
DESCRIPTION
"Server from readdress server list is detected up
This notification is generated when after deadtime server is detected up."
--#SUMMARY "ECS Readdress server-list server %s:%d is up"
--#ARGUMENTS {0,1}
```



```
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1238 }
```

starCdrHDDStart NOTIFICATION-TYPE

```
OBJECTS {starServiceVpnName,starSessGTPPGroupName}
STATUS current
DESCRIPTION
    "CDRs are being written to the HDD"
--#SUMMARY "[System] CDRs are being written to the HDD for context %s for gtp group%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1239 }
```

starCdrStreamingStart NOTIFICATION-TYPE

```
OBJECTS {starServiceVpnName,starSessGTPPGroupName}
STATUS current
DESCRIPTION
    "CDR streaming is started"
--#SUMMARY "[System] CDR streaming is started for context %s for gtp group%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1240 }
```

starCdrStreamingComplete NOTIFICATION-TYPE

```
OBJECTS {starServiceVpnName,starSessGTPPGroupName}
STATUS current
DESCRIPTION
    "CDR streaming is Completed"
--#SUMMARY "[System] CDR streaming is completed for context %s for gtp group%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1241 }
```

starVLRDown NOTIFICATION-TYPE

```
OBJECTS { starSGSServiceVpnName, starSGSServiceServName, starVLRName }
STATUS current
DESCRIPTION
    "A VLR is down.
```

Problem Cause: The VLR has failed, or a network connectivity prevents reaching the VLR.

Condition Clear Alarm: A starVLRUp notification will be generated when the VLR is up"

```
--#SUMMARY "[ VLR %s-%s-%s] is down"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1242}
```

starVLRUp NOTIFICATION-TYPE

```
OBJECTS { starSGSServiceVpnName, starSGSServiceServName, starVLRName }
STATUS current
DESCRIPTION
    "A VLR is up. This notification is only generated for VLRs
    which have previously been declared down."
--#SUMMARY "[ VLR %s-%s-%s] is up"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1243}
```

starPCFReachable NOTIFICATION-TYPE

```
OBJECTS { starContextName, starPCFAddress }
```

STATUS current

DESCRIPTION

"A PCF that the IMG communication is reachable."

--#SUMMARY "[System] PCF Reachable, VPN %s PCF address %s"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1244 }

starLIRcvryError NOTIFICATION-TYPE

OBJECTS { starLIRcvryErrType, starLIRcvryErrString }

STATUS current

DESCRIPTION

"This trap will be raised when Lawful Intercepts cannot be saved or recovered to/from backup. This will print the type of error and error string"

--#SUMMARY "Lawful Intercept Recovery Error %d: %s"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1245 }

starLIRcvryComplete NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"This trap will be raised when Lawful Intercepts are successfully recovered"

--#SUMMARY "Lawful Intercepts are recovered successfully"

--#STATE DEGRADED

--#SEVERITY INFORMATIONAL

::= { starentTraps 1246 }

starCGWServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Serving Gateway (CGW) Service has started.

Action to be Taken: No action required"

--#SUMMARY "[Service CGW-%s-%s] CGW service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATION

::= { starentTraps 1247 }

starCGWServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Serving Gateway (CGW) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the CGW service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the CGW service is operational.

Condition Clear Alarm: A starCGWServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service CGW-%s-%s] CGW service has stopped"

```
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1248 }
```

starMMENewConnectionsDisallowed NOTIFICATION-TYPE

```
OBJECTS { starMMEInitialDisallowReason, starImsimgrInstId }
STATUS current
DESCRIPTION
```

"The demultiplexer on the MME chassis has reached a condition where new connections are being dropped/rejected on MME services due to the specified reason. Please note that this is the initial trigger for this condition. More reasons/triggers may be activated later i.e. after the trap has been sent. These are not indicated via a new trap.

Action to be Taken: If this is not intentional (i.e not driven by policy/configuration), cross-check IMSImgr counters using the reason provided.

Clear Condition: The condition is cleared when new connections at the MME are re-allowed.

Condition Clear Alarm: A starMMENewConnectionsAllowed notification will be generated when the condition is cleared."

```
--#SUMMARY "New connections being dropped/rejected at MME chassis %s due to reason %s"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1249 }
```

starMMENewConnectionsAllowed NOTIFICATION-TYPE

```
STATUS current
DESCRIPTION
```

"The MME chassis is now accepting new connections again. All conditions causing MME to disallow new connections have cleared."

```
--#SUMMARY "New connections now being allowed at MME chassis %s "
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1250 }
```

starSAMOGServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A SAMOG Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service SAMOG-%s-%s] SAMOG service has started"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1251 }
```

starSAMOGServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"A SAMOG Service has stopped.

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SAMOG service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SAMOG service is operational.

Condition Clear Alarm: A starSAMOGServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service SAMOG-%s-%s] SAMOG service has stopped"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1252 }
```

starCardSwitchoverStart NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starSlotNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A management card (SPC/MMIO) switchover operation has begun. The first varbind identifies from which management card switchover started.

The second varbind identifies to which management card switchover is planned to switch.

Switchover can cause a momentary loss of communication through the management interface (SPIO incase of ASR5000) , it is possible that this trap will not be successfully delivered.

Probable Cause: This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.

Action to be Taken: If the management card switchover was unplanned, the admin logs should be examined for the cause of the switchover. If the cause was a software failure, the system crash logs should be examined.

Clear Condition: Verify the management card switchover completed successfully.

Clear Condition Alarm: A starCardSPCSwitchoverComplete is generated when the switchover operation has completed.This is not applicable to QVPC-SI."

```
--#SUMMARY "Card Switchover start from card %d to card %d"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1253 }
```

starCardSwitchoverComplete NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starSlotNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A management card (SPC/MMIO) Switchover has completed successfully. The first varbind identifies from which management card switchover started.

The second varbind identifies to which management card switchover is completed.

Action to be Taken: If the management card switchover was unplanned, the admin logs should be examined for the cause of the switchover.

If the cause was a software failure, the system crash logs should be examined.This is not applicable to QVPC-SI."

```
--#SUMMARY "Card Switchover completed from card %d to card %d"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1254 }
```

starCardSwitchoverFailed NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starSlotNum }
```

```
STATUS current
```

```
DESCRIPTION
```

"A management card (SPC/MMIO) switchover operation has failed.

The first varbind identifies from which management card switchover started.

The second varbind identifies to which management card switchover is failed.

Probable Cause: The management card being switched to was removed or reset before the switchover completed; the switchover operation was terminated by an operator; or a software or hardware failure on another management card.

Action to be Taken: Verify that both management cards have the card locks in the locked position; examine the admin logs for the cause of the failure. If the cause was a software failure, the system crash logs should be examined.

Clear Condition: The management card in question will be reset; a starCardUp notification will be generated when the card is operational again. This is not applicable to QVPC-SI."

```
--#SUMMARY "Card Switchover failed from card %d to card %d"
--#ARGUMENTS {0,1}
--#STATE NONOPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 1255 }
```

starCardMigrateStart NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum }

STATUS current

DESCRIPTION

"A data processing card (PAC/PSC/DPC) Migration operation has begun. The first varbind identifies from which data processing card migration has started. The second varbind identifies to which data processing card migration is planned to migrate.

Probable Cause: This is typically caused by an operator action; it can also represent the system recovering from a software or hardware fault.

A starCardMigrateComplete is generated when the migration is completed. This is not applicable to QVPC-SI."

```
--#SUMMARY "Card Migration started from card %d to card %d"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1256 }
```

starCardMigrateComplete NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum }

STATUS current

DESCRIPTION

"A data processing card (PAC/PSC/DPC) Migration operation has successfully completed. The first varbind identifies from which data processing card migration has started. The second varbind identifies to which data processing card migration has completed. This is not applicable to QVPC-SI."

```
--#SUMMARY "Card Migration completed from card %d to card %d"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1257 }
```

starCardMigrateFailed NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum }

STATUS current

DESCRIPTION

"A data processing card (PAC/PSC/DPC) Migration operation has failed. The first varbind identifies from which data processing card migration has started. The second varbind identifies to which data processing card migration has

failed to migrate.

Probable Cause: The data processing card being migrated to was removed or reset before the migration completed; the migration operation was terminated by an operator; or a software or hardware failure on another data processing card involved in the migration operation.

The data processing card in question will be reset; a starCardUp notification will be generated when the card is operational again. This is not applicable to QVPC-SI."

```
--#SUMMARY "Card Migration failed from card %d to card %d"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1258 }
```

starTechSuppPasswdChanged NOTIFICATION-TYPE

OBJECTS {

```
    starCLIContext,
    starCLIUsername,
    starCLITyname,
    starCLIRemotelpAddrType,
    starCLIRemotelpAddr
}
```

STATUS current

DESCRIPTION

"A user has changed the StarOS tech-support password.

Probable Cause: A command was issued which resulted in a user changing the tech-support password value. The tech-support password is used to gain access to the CLI test-commands.

These CLI test commands are only intended for maintenance and diagnostic activity and could result in major service disruptions. If this action was unintended, the user should notify the Cisco TAC group to reset the tech-support password."

```
--#SUMMARY "[System] Technical support password has been changed"
--#ARGUMENTS {0,1,2,3,4}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1259 }
```

starPMIPPathFailure NOTIFICATION-TYPE

```
OBJECTS { starPMIPVpnName,
    starPMIPServName,
    starPMIPSelfAddrType,
    starPMIPSelfAddr,
    starPMIPPeerAddrType,
    starPMIPPeerAddr,
    starPMIPPeerOldRstCnt,
    starPMIPPeerNewRstCnt,
    starPMIPPeerSessCnt,
    starPMIPFailureReason
}
```

STATUS current

DESCRIPTION

"PMIP Path Failure.

Possible reason: This trap will be triggered by MAGMGR/HAMGR when path failure or node restart is detected."

```
--#SUMMARY "[Service PMIP-%s-%s] path failure, self address %s, peer address %s, peer old restart counter %d, peer new restart counter %d,
peer session count %d, failure reason %s"
--#ARGUMENTS {0,1,3,5,6,7,8,9}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1260 }
```

starPMIPPathFailureClear NOTIFICATION-TYPE

```

OBJECTS { starPMIPVpnName,
           starPMIPServName,
           starPMIPSelfAddrType,
           starPMIPSelfAddr,
           starPMIPPeerAddrType,
           starPMIPPeerAddr
         }

```

STATUS current

DESCRIPTION

"PMIP Control Path Failure condition is no longer valid."

--#SUMMARY "[Service PMIP-%s-%s] path failure condition clear for self address %s, peer address %s"

--#ARGUMENTS {0,1,3,5}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1261 }

starHENBGWMMESCTPAssocDestAddrDown NOTIFICATION-TYPE

```

OBJECTS { starHENBGWServiceVpnName, starHENBGWServiceServName, starHENBGWServiceLogicalENBId,
           starHENBGWServiceMMEServName, starHENBGWServicePeerAddr, starHENBGWServicePeerPort }

```

STATUS current

DESCRIPTION

"A HENBGW MME SCTP Association Destination Address is down.

Problem Cause: One of destination MME SCTP address is not reachable or removed.

Condition Clear Alarm: A starHENBGWMMESCTPAssocDestAddrUp notification will be generated when the HENBGW MME SCTP association destination address is reachable again"

--#SUMMARY "[HENBGW MME Association %s-%s-%s-%s] destination address:%s is down; Port %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1262 }

starHENBGWMMESCTPAssocDestAddrUp NOTIFICATION-TYPE

```

OBJECTS { starHENBGWServiceVpnName, starHENBGWServiceServName, starHENBGWServiceLogicalENBId,
           starHENBGWServiceMMEServName, starHENBGWServicePeerAddr, starHENBGWServicePeerPort }

```

STATUS current

DESCRIPTION

"A HENBGW MME SCTP Association Destination Address is up.

This notification is only generated for

Association Destination Address which have previously been declared down."

--#SUMMARY "[HENBGW MME Association %s-%s-%s-%s] destination address:%s is up; Port %d"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1263 }

starMRMServiceStart NOTIFICATION-TYPE

```

OBJECTS { starServiceVpnName, starServiceServName }

```

STATUS current

DESCRIPTION

"A Multi Radio Management (MRME) Service has started.

Action to be Taken: No action required"

--#SUMMARY "[Service MRME-%s-%s] MRME service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1264 }

starMRMServiceStop NOTIFICATION-TYPE

```

OBJECTS { starServiceVpnName, starServiceServName }

```

STATUS current

DESCRIPTION

"A Multi Radio Management (MRME) Service has stopped.

Probable Cause: This is typically caused by operator invention. In

unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the MRME service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the MRME service is operational.

Condition Clear Alarm: A starMRMEServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service MRME-%s-%s] MRME service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1265 }
```

starSLSServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "An SLS Service has started"
```

Action to be Taken: No action required"

```
--#SUMMARY "[Service SLS-%s-%s] SLS service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1266 }
```

starSLSServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
  "An SLS Service has stopped."
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SLS service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the SLS service is operational.

Condition Clear Alarm: A starSLSServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[Service SLS-%s-%s] SLS service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1267 }
```

starESMLCAssocDown NOTIFICATION-TYPE

```
OBJECTS { starSLSServiceVpnName, starSLSServiceServName, starESMLCId, starESMLCIPAddr1,
  starESMLCIPAddr2, starESMLCPortNum }
STATUS current
DESCRIPTION
  "An ESMLC Association is down."
```

Problem Cause: The ESMLC Association has failed, or a network connectivity prevents reaching the ESMLC.

Condition Clear Alarm: A starESMLCAssocUp notification will be generated when the ESMLC association is up"

```
--#SUMMARY "[ ESMLC Association %s-%s-%d] is down; End point Addr1: %s Addr2: %s Port: %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1268}
```

starESMLCAssocUp NOTIFICATION-TYPE

```
OBJECTS { starSLSServiceVpnName, starSLSServiceServName, starESMLCId, starESMLCIPAddr1,
          starESMLCIPAddr2, starESMLCPortNum }
```

STATUS current

DESCRIPTION

"An ESMLC Association is up. This notification is only generated for Association which have previously been declared down."

```
--#SUMMARY "[ ESMLC Association %s-%s-%d] is up; End pointAddr1: %s Addr2: %s Port %d"
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1269}
```

starESMLCAIAssocDown NOTIFICATION-TYPE

```
OBJECTS { starSLSServiceVpnName, starSLSServiceServName }
```

STATUS current

DESCRIPTION

"All the ESMLC Associations are down.

Problem Cause: All the ESMLC Associations has failed, or network connectivity prevents reaching the ESMLCs.

Condition Clear Alarm: An starESMLCAIAssocUp notification will be generated when all the ESMLC associations are up"

```
--#SUMMARY "All ESMLC Associations are down %s-%s"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1270}
```

starESMLCAIAssocDownClear NOTIFICATION-TYPE

```
OBJECTS { starSLSServiceVpnName, starSLSServiceServName }
```

STATUS current

DESCRIPTION

"At least one ESMLC associations is up. This notification is only generated for all the Association which have previously been declared down."

```
--#SUMMARY "All ESMLCs associations are up %s-%s"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1271 }
```

starSBCServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

STATUS current

DESCRIPTION

"An SBC Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service SBC-%s-%s] SBC service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1272 }
```

starSBCServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

STATUS current

DESCRIPTION

"An SBC Service has stopped.

Probable Cause: This is typically caused by operator intervention, when a critical parameter associated with sbc-service is changed/removed. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the SBC service shutdown was not planned, examine the admin logs for any indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check for any sbc-service related configuration errors by running show configuration errors section sbc-service. Note that sbc-service should be associated to an mme-service to be operationally up. In case the associated mme-service is down, sbc-service is also stopped. Also check the crash logs for any indication of a software failure."

--#SUMMARY "[Service SBC-%s-%s] SBC service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1273 }

starCBCAssocDown NOTIFICATION-TYPE

OBJECTS { starSBCServiceVpnName, starSBCServiceServName, starPeerId, starPeerIpAddr, starPeerPortNum }

STATUS current

DESCRIPTION

"A CBC Association is down.

Problem Cause: SCTP connection between MME and CBC has been brought down - could be for any of the following reasons -

- i) network connectivity between MME and CBC is broken.
- ii) CBC has gracefully terminated the SCTP association with MME.
- iii) MME has gracefully terminated the SCTP association with CBC, typically due to operation intervention that would have effected sbc-service.

Action to be taken - In case the SCTP association between MME and CBC is abnormally closed, check for network connectivity between MME and CBC.

Condition Clear Alarm: In case the association termination was abnormal, A starPeerAssocUp notification will be generated when the CBC association is up"

--#SUMMARY "[CBC Association %s-%d] is down; End point Addr: %s Port: %d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1274}

starCBCAssocUp NOTIFICATION-TYPE

OBJECTS { starSBCServiceVpnName, starSBCServiceServName, starPeerId, starPeerIpAddr, starPeerPortNum }

STATUS current

DESCRIPTION

"A CBC Association is up."

--#SUMMARY "[CBC Association %s-%d] is up; End point Addr: %s Port %d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1275}

starCBCBufSizeExceeded NOTIFICATION-TYPE

OBJECTS { starSBCServiceVpnName, starSBCServiceServName, starPeerId, starPeerIpAddr, starPeerPortNum }

STATUS current

DESCRIPTION

"A received CBC message exceeded our buffer size limit"

--#SUMMARY "[CBC Association %s-%d] message size exceeded"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1403}
```

starBFDSessUp NOTIFICATION-TYPE

```
OBJECTS { starContextName,
          starBfdSrcAddressType,
          starBfdSrcAddress,
          starBfdDstAddressType,
          starBfdDstAddress,
          starBfdLocalDisc,
          starBfdRemDisc,
          starPhyPortId }
```

```
STATUS current
```

DESCRIPTION

"The BFD Session to the specified IP address is operational.
This may indicate the initial configuration of a new neighbor,
the initial connectivity after a system restart, or the
restoration of connectivity after a starBFDSessDown event.

Action to be Taken: No action required."

```
--#SUMMARY "[System] BFD Session, vpn %s SrcAddr %s DstAddr %s, PhyPortId %d is operational"
```

```
--#ARGUMENTS {0,2,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1276 }
```

starBFDSessDown NOTIFICATION-TYPE

```
OBJECTS { starContextName,
          starBfdSrcAddressType,
          starBfdSrcAddress,
          starBfdDstAddressType,
          starBfdDstAddress,
          starBfdLocalDisc,
          starBfdRemDisc,
          starBfdSessDiagCode,
          starPhyPortId }
```

```
STATUS current
```

DESCRIPTION

"The BFD Session to the specified IP address is no longer
operational.

Probable Cause: The BFD Session is not-operational;
the network between the ASR5x00 and the BFD Neighbor is
experiencing an outage; Look into the Diagnostic Code for
further details.

Action to be Taken: Verify the BFD Session is operational;
verify network connectivity to the BFD Neighbor.

Clear Condition Alarm: A starBFDSessUp is generated when
connectivity is reestablished"

```
--#SUMMARY "[System] BFD Session, vpn %s SrcAddr %s DstAddr %s, PhyPortId %d is not operational and Diagnostic Code is %d"
```

```
--#ARGUMENTS {0,2,4,7}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1277 }
```

starSRPSwitchoverOccured NOTIFICATION-TYPE

```
OBJECTS { starContextName,
          starSRPIpAddress,
          starSRPSwitchReason }
```

```
STATUS current
```

DESCRIPTION

"An SRP (ICSR) Switchover Occurred.
Chassis has transitioned from Active to Standby State or
Chassis has transitioned from Standby to PendingActive State.

Action to be Taken: Verify Active and Standby Chassis States of ICSR pair."

```
--#SUMMARY "[System] SRP Switchover Occurred, vpn %s SRP %s Switchover Reason: %d"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1278 }
```

starHENBGWMMEOverloadStart NOTIFICATION-TYPE

```
OBJECTS {starHENBGWServiceVpnName, starHENBGWServiceServName,
         starHENBGWServiceLogicalENBid, starHENBGWServiceMMEServName,
         starHENBGWServicePeerAddr, starHENBGWServicePeerPort,
         starHENBGWServiceTLRI}
```

STATUS current

DESCRIPTION

"A HENBGW MME Overload Start message received.
Condition Clear Alarm: A starHENBGWMMEOverloadStop notification will be generated
when the HENBGW MME overload stop message received."

```
--#SUMMARY "[HENBGW MME %s-%s-%s-%s] received overload start message with traffic load reduction indication percentage %d. End  
pointAddr: %s Port %d"
```

```
--#ARGUMENTS {0,1,2,3,6,4,5}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1279 }
```

starHENBGWMMEOverloadStop NOTIFICATION-TYPE

```
OBJECTS {starHENBGWServiceVpnName, starHENBGWServiceServName,
         starHENBGWServiceLogicalENBid, starHENBGWServiceMMEServName,
         starHENBGWServicePeerAddr, starHENBGWServicePeerPort}
```

STATUS current

DESCRIPTION

"A HENBGW MME Overload Stop message received. This notification is only generated for the
MME which have previously been generated overload start message, optionally this notification
can be generated for any overload stop message received from MME."

```
--#SUMMARY "[HENBGW MME %s-%s-%s-%s] received overload stop message. End pointAddr: %s Port %d"
```

```
--#ARGUMENTS {0,1,2,3,4,5}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1280 }
```

starNpudriverECCError NOTIFICATION-TYPE

```
OBJECTS { starSlotNum }
```

STATUS current

DESCRIPTION

" A double bit ECC error occurred.
Action to be taken - RMA this card."

```
--#SUMMARY "A double bit ECC error occurred on slot %d"
```

```
--#ARGUMENTS {0}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1281 }
```

starGTPCRLFOverThreshold NOTIFICATION-TYPE

```
OBJECTS { starGTPCRLFSSessMgrInst,
         starGTPCRLFVPName,
         starGTPCRLFVPNIID,
         starGTPCRLFContextName,
         starGTPCRLFCurrAppTPS }
```

STATUS current

DESCRIPTION

" GTP RLF Status update - GTP RLF Over Threshold. "

```
--#SUMMARY "GTP RLF Status update - GTP RLF Over Threshold - Sessmgr Instance: %d Context: %s Context ID: %d RLF template name: %s  
Current Applied TPS: %d"
```

```
--#ARGUMENTS {0,1,2,3,4}
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
::= { starentTraps 1282 }
```

starGTPCRLFOverLimit NOTIFICATION-TYPE

```
OBJECTS { starGTPCRLFSessMgrInst,
          starGTPCRLFVPNName,
          starGTPCRLFVPNId,
          starGTPCRLFContextName,
          starGTPCRLFCurrAppDelayTol }
```

```
STATUS current
```

```
DESCRIPTION
```

```
" GTP RLF Status update - GTP RLF Over Limit."
```

```
--#SUMMARY "GTP RLF Status update - GTP RLF Over Limit - Sessmgr Instance: %d Context: %s Context ID: %d RLF template name: %s Current
```

```
Applied Delay Tolerance: %d"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1283 }
```

starGTPCRLFOverThresholdClear NOTIFICATION-TYPE

```
OBJECTS { starGTPCRLFSessMgrInst,
          starGTPCRLFVPNName,
          starGTPCRLFVPNId,
          starGTPCRLFContextName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
" GTP RLF Status update - GTP RLF Over Threshold Cleared."
```

```
--#SUMMARY "GTP RLF Status update - GTP RLF Over Threshold Cleared - Sessmgr Instance: %d Context: %s Context ID: %d RLF template name: %s"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1284 }
```

starGTPCRLFOverLimitClear NOTIFICATION-TYPE

```
OBJECTS { starGTPCRLFSessMgrInst,
          starGTPCRLFVPNName,
          starGTPCRLFVPNId,
          starGTPCRLFContextName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
" GTP RLF Status update - GTP RLF Over Limit Cleared."
```

```
--#SUMMARY "GTP RLF Status update - GTP RLF Over Limit Cleared - Sessmgr Instance: %d Context: %s Context ID: %d RLF template name: %s"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1285 }
```

starS102ServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"An S102 Service has started
```

```
  Action to be Taken: No action required"
```

```
--#SUMMARY "[Service S102-%s-%s] CSCF service has started"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1286 }
```

starS102ServiceStop NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"An S102 Service has stopped
```

Probable Cause: This is typically caused by operator invention. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the S102 service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the S102 service is operational.

Condition Clear Alarm: A starS102ServiceStart notification will be generated when the service is restarted"

```
--#SUMMARY "[S102 %s-%s] S102 service has stopped"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1287 }
```

starBGPPeerSessionIPv6Up NOTIFICATION-TYPE

```
OBJECTS { starContextName, starBGPPeerIpv6Address }
STATUS current
DESCRIPTION
```

"The BGP peer session to the specified IP v6 address is operational. This may indicate the initial configuration of a new peer, the initial connectivity after a system restart, or the restoration of connectivity after a starBGNPeerSessionDown event.

Action to be Taken: No action required."

```
--#SUMMARY "[System] BGP peer session, vpn %s, address %s, is operational"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1288 }
```

starBGPPeerSessionIPv6Down NOTIFICATION-TYPE

```
OBJECTS { starContextName, starBGPPeerIpv6Address }
STATUS current
DESCRIPTION
```

"The BGP peer session to the specified IP v6 address is no longer operational.

Probable Cause: The BGP peer is not-operational; the network between the ST16 and the BGP peer is experiencing an outage; LC failure(s) on the ST16.

Action to be Taken: Verify the BGP peer is operational; verify network connectivity to the BGP peer.

Clear Condition Alarm: A starBGPPeerSessionUp is generated when connectivity is reestablished"

```
--#SUMMARY "[System] BGP peer session, vpn %s, address %s, is non-operational"
--#ARGUMENTS {0,1}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1289 }
```

starMMEEMBMSServiceStart NOTIFICATION-TYPE

```
OBJECTS { starServiceVpnName, starServiceServName }
STATUS current
DESCRIPTION
```

"An MME-EMBM Service has started

Action to be Taken: No action required"

```
--#SUMMARY "[Service MME-EMBM-%s-%s] MME-EMBM service has started"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1290 }
```

starMMEEMBMSServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"An MME-EMBMS Service has stopped.

Probable Cause: This is typically caused by operator intervention, when a critical parameter associated with mme-embms-service is changed/removed. In unusual cases it can be caused by the loss of resources (PACs/PSCs) to support the running configuration.

Action to be Taken: If the MME-EMBMS service shutdown was not planned, examine the admin logs for any indication of the failure. Verify that all configured PACs/PSCs are present and running in the system. Check for any mme-embms-service related configuration errors by running show configuration errors section mme-embms-service. Also check the crash logs for any indication of a software failure."

```
--#SUMMARY "[Service MME-EMBMS-%s-%s] MME-EMBMS service has stopped"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1291 }
```

starMCEAssocDown NOTIFICATION-TYPE

OBJECTS { starMMEEMBMSServiceVpnName, starMMEEMBMSServiceServName , starMMEEMBMSPeerId, starMMEEMBMSPeerIpAddr, starMMEEMBMSPeerPortNum }

STATUS current

DESCRIPTION

"An MCE Association is down.

Problem Cause: SCTP connection between MME and MCE has been brought down - could be for any of the following reasons -

- i) network connectivity between MME and MCE is broken.
- ii) MCE has gracefully terminated the SCTP association with MME.
- iii) MME has gracefully terminated the SCTP association with MCE, typically due to operation intervention that would have effected mme-embms-service.

Action to be taken - In case the SCTP association between MME and MCE is abnormally closed, check for network connectivity between MME and MCE.

Condition Clear Alarm: In case the association termination was abnormal, A starPeerAssocUp notification will be generated when the MCE association is up"

```
--#SUMMARY "[ MCE Association %s-%d] is down; End point Addr: %s Port: %d"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY MAJOR
```

```
::= { starentTraps 1292}
```

starMCEAssocUp NOTIFICATION-TYPE

OBJECTS {starMMEEMBMSServiceVpnName, starMMEEMBMSServiceServName , starMMEEMBMSPeerId, starMMEEMBMSPeerIpAddr, starMMEEMBMSPeerPortNum }

STATUS current

DESCRIPTION

"A MCE Association is up."

```
--#SUMMARY "[ MCE Association %s-%d] is up; End point Addr: %s Port %d"
```

```
--#ARGUMENTS {0,1,2,3,4}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1293}
```

starLuBcTcpConnDown NOTIFICATION-TYPE

OBJECTS { starCBSServiceVpnName, starLuBcSelfIpAddr, starLuBcSelfPortNum , starLuBcPeerIpAddr, starLuBcPeerPortNum, starLuBcTcpConnCauseStr}

STATUS current

DESCRIPTION

"A TCP connection at luBc interface is down.

Problem Cause: TCP connection between HNBBGW and CBC server has been brought down - could be for any of the following reasons -

- i) network connectivity between HNBBGW and CBC server is broken.
- ii) CBC Server has gracefully terminated the TCP connection with HNBBGW.
- iii) HNBBGW has gracefully terminated the TCP connection with CBC server, typically due to operation intervention that would have effected cbs-service.

Action to be taken - In case the TCP connection between HNBBGW and CBC server is abnormally closed, check for network connectivity between HNBBGW and CBC server.

Condition Clear Alarm: In case the connection termination was abnormal, A luBcTCPConnUp notification will be generated when the TCP connection is up"

--#SUMMARY "[TCP Connection %s-%s-%d] is down; Peer IP Addr: %s Port: %d with cause %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1294}

starluBcTcpConnUp NOTIFICATION-TYPE

OBJECTS { starCBSServiceVpnName, starluBcSelfIpAddr, starluBcSelfPortNum , starluBcPeerIpAddr, starluBcPeerPortNum, starluBcTcpConnCauseStr}

STATUS current

DESCRIPTION

"A TCP Connection is up."

--#SUMMARY "[TCP Connection %s-%s-%d] is up; Peer IP Addr: %s Port: %d with cause %s"

--#ARGUMENTS {0,1,2,3,4,5}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1295 }

starSessCapReached NOTIFICATION-TYPE

OBJECTS { starTaskInstance, starTaskCard, starTaskCPU }

STATUS current

DESCRIPTION

"Session manager will start rejecting new calls as the capacity reached."

--#SUMMARY "Session manager instance %d card %d cpu %d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1298 }

starSerdesLanePermDown NOTIFICATION-TYPE

OBJECTS { starSlotNum, starDeviceNum, starSerdesNum }

STATUS current

DESCRIPTION

"A serdes lanes is a high speed serial link between a FAP(chip on an MIO/DPC/DPC2/MIO2) and an FE(chip on an FSC card). When a serdes lane has errors, we calibrate it to get optimized Rx parameters. If we attempt to calibrate a lane more than 5 times, it is taken offline. By taking it offline we no longer use it so we are eliminating potential traffic loss.."

--#SUMMARY "SERDES lane is Down on local: slot %d device %d serdes lane index %d, Remote: slot %d device %d serdes lane index %d"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1303 }

starLAGGroupDownDueToMinlink NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starLAGGroup, starLAGMinlink }

STATUS current

DESCRIPTION

"LAG group status is Down due to links in LAG group falls below minlink . This notification is only generated for master physical port and a previous 'starLAGGroupUp' notification was previously generated.

Action to be Taken: No action required. The cause for the LAG down should be investigated."
 --#SUMMARY "[Port] LAG group (%d) status is down due to minlink: Slot %d Port %d minlink %d"
 --#ARGUMENTS {3,0,1,4}
 --#STATE DEGRADED
 --#SEVERITY MAJOR
 ::= { starentTraps 1299 }

starNicBondChange NOTIFICATION-TYPE

OBJECTS { starPortSlot, starPortNum, starMacaddress }
 STATUS current
 DESCRIPTION

"Nic Bond change will happen whenever there is change in the leaf node connected to our ports in QvPC-DI. This notification is generated to inform that there is a change in the vNIC (mac-address).

Action to be Taken: No action required. The cause for the leaf node down should be investigated."
 --#SUMMARY "Nic Bond changed: Slot %d Port %d Mac changed from %s to %s"
 --#ARGUMENTS {0, 1, 2, 2}
 --#STATE OPERATIONAL
 --#SEVERITY INFORMATIONAL
 ::= { starentTraps 1376 }

starThreshAllFramedRoutes NOTIFICATION-TYPE

OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
 STATUS current
 DESCRIPTION

"All framed routes crosses user defined threshold."
 --#SUMMARY "facility vpnmgr context %s vrfname %s framed routes threshold %d%% measured %d%%"
 --#ARGUMENTS {0,1,2,3}
 --#STATE OPERATIONAL
 --#SEVERITY INFORMATIONAL
 ::= { starentTraps 1304 }

starThreshAllFramedRoutesClear NOTIFICATION-TYPE

OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
 STATUS current
 DESCRIPTION

"All framed routes crosses user defined threshold cleared."
 --#SUMMARY "facility vpnmgr context %s vrfname %s framed routes threshold %d%% measured %d%%"
 --#ARGUMENTS {0,1,2,3}
 --#STATE OPERATIONAL
 --#SEVERITY INFORMATIONAL
 ::= { starentTraps 1305 }

starThreshAllTotalRoutes NOTIFICATION-TYPE

OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
 STATUS current
 DESCRIPTION

"All total routes crosses user defined threshold."
 --#SUMMARY "facility vpnmgr context %s vrfname %s total routes threshold %d measured %d"
 --#ARGUMENTS {0,1,2,3}
 --#STATE OPERATIONAL
 --#SEVERITY INFORMATIONAL
 ::= { starentTraps 1306 }

starThreshAllTotalRoutesClear NOTIFICATION-TYPE

OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
 STATUS current
 DESCRIPTION

"All total routes crosses user defined threshold cleared."
 --#SUMMARY "facility vpnmgr context %s vrfname %s total routes threshold %d measured %d"
 --#ARGUMENTS {0,1,2,3}
 --#STATE OPERATIONAL
 --#SEVERITY INFORMATIONAL

```
::= { starentTraps 1307 }
```

starThreshVRFVFrameRoutes NOTIFICATION-TYPE

```
OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Total number of VRF framed routes crosses user defined threshold."
```

```
--#SUMMARY "facility vpnmgr context %s vrfname %s framed routes threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1308 }
```

starThreshVRFVFrameRoutesClear NOTIFICATION-TYPE

```
OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Total number of VRF framed routes crosses user defined threshold cleared."
```

```
--#SUMMARY "facility vpnmgr context %s vrfname %s framed routes threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1309 }
```

starThreshVRFTotalRoutes NOTIFICATION-TYPE

```
OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Total number of VRF total routes crosses user defined threshold."
```

```
--#SUMMARY "facility vpnmgr context %s vrfname %s total routes threshold %d measured %d"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1310 }
```

starThreshVRFTotalRoutesClear NOTIFICATION-TYPE

```
OBJECTS { starContextName, starVRFName, starThreshInt, starThreshMeasuredInt }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Total number of VRF total routes crosses user defined threshold cleared."
```

```
--#SUMMARY "facility vpnmgr context %s vrfname %s total routes threshold %d measured %d"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1311 }
```

starStatFilesizeExceeded NOTIFICATION-TYPE

```
OBJECTS { starStatFilesizeLimit, starStatFilesizeMeasured}
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Actual Bulkstat filesize crosses 80% user defined Bulkstat filesize."
```

```
--#SUMMARY "Filesize exceeded for facility bulkstat: filesize limit %d filesize measured %d"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1312 }
```

starStatFilesizeClear NOTIFICATION-TYPE

```
OBJECTS { starStatFilesizeLimit, starStatFilesizeMeasured}
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Actual Bulkstat filesize crosses 80% user defined Bulkstat filesize condition cleared."
```

```
--#SUMMARY "Filesize condition for facility bulkstat cleared: filesize limit %d filesize measured %d"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1313 }
```

starThreshLMASetupBindingUpdateDenyRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of LMA setup binding update deny rate which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearLMASetupBindingUpdateDenyRate notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: LMA setup binding update deny rate threshold for threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 1314 }
```

starThreshClearLMASetupBindingUpdateDenyRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: LMA setup binding update deny rate threshold clear for threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1315 }
```

starThreshMAGSetupBindingUpdateDenyRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of MAG setup binding update deny rate which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearMAGSetupBindingUpdateDenyRate notification will be generated when the measured value falls below the threshold."

```
--#SUMMARY "[System] Threshold: MAG setup binding update deny rate threshold for threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 1316 }
```

starThreshClearMAGSetupBindingUpdateDenyRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: MAG setup binding update deny rate threshold clear for threshold %d%% measured %d%%"
```

```
--#ARGUMENTS {0,1}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1317 }
```

starThreshEGTPCS2BSetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of EGTPC S2B setup fail rate which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model,
a starThreshClearEGTPC S2B SetupFailRate notification will be generated when the measured
value falls below the threshold."

```
--#SUMMARY "[System] Threshold: EPDG setup fail rate threshold for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1318 }
```

starThreshClearEGTPCS2BSetupFailRate NOTIFICATION-TYPE

```
OBJECTS { starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: EGTPC S2B setup fail rate threshold clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1319 }
```

starThreshSNXDisconnectReason NOTIFICATION-TYPE

```
OBJECTS { starDiscReasons, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold when exceeded the configured values for a given disconnect-reason, trap will be raised."

```
--#SUMMARY "[System] Threshold: Session Manager disconnect-reason %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1320 }
```

starThreshClearSNXDisconnectReason NOTIFICATION-TYPE

```
OBJECTS { starDiscReasons, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"The threshold condition is now clear."

```
--#SUMMARY "[System] Threshold: Session Manager threshold clear for disconnect-reason %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1321 }
```

starTetheringTACDatabaseUpgradeFailureStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
```

"Tethering TAC Database Upgrade Failure Status.

Condition Clear Alarm: This condition is cleared by starTetheringTACDatabaseUpgradeSuccessStatus notification."

```
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1322 }
```

starTetheringTACDatabaseUpgradeSuccessStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
```

"Tethering TAC Database Upgrade Failure Success.

Action to be taken: No action required "

```
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1323 }
```

starTetheringOSDatabaseUpgradeFailureStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
  "Tethering OS Database Upgrade Failure Status.
  Condition Clear Alarm: This condition is cleared by starTetheringOSDatabaseUpgradeSuccessStatus notification."
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1324 }
```

starTetheringOSDatabaseUpgradeSuccessStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
  "Tethering OS Database Upgrade Failure Success.
  Action to be taken: No action required "
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1325 }
```

starTetheringV6OSDatabaseUpgradeFailureStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
  "Tethering V6OS Database Upgrade Failure Status.
  Condition Clear Alarm: This condition is cleared by starTetheringV6OSDatabaseUpgradeSuccessStatus notification."
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1326 }
```

starTetheringV6OSDatabaseUpgradeSuccessStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
  "Tethering V6OS Database Upgrade Failure Success.
  Action to be taken: No action required "
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1327 }
```

starTetheringUADatabaseUpgradeFailureStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
STATUS current
DESCRIPTION
  "Tethering V6OS Database Upgrade Failure Status.
  Condition Clear Alarm: This condition is cleared by starTetheringUADatabaseUpgradeSuccessStatus notification."
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1328 }
```

starTetheringUADatabaseUpgradeSuccessStatus NOTIFICATION-TYPE

```
OBJECTS { starTetheringDatabasePreDBVersion, starTetheringDatabaseUpgradeDBVersion, starTetheringDatabaseUpgradeComment }
```

STATUS current

DESCRIPTION

"Tethering UA Database Upgrade Failure Success.

Action to be taken: No action required "

--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1329 }

starThreshEGTPCS5SetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The percentage of EGTPC S5 setup fail rate which failed has exceeded the configured threshold during the current monitoring period.

Probable Cause: This is a user configurable threshold.

If the thresholding subsystem is configured to run in an 'alarm' model, a starThreshClearEGTPCS5SetupFailRate notification will be generated when the measured value falls below the threshold."

--#SUMMARY "[System] Threshold: EGTPC S5 setup failure rate threshold for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1330 }

starThreshClearEGTPCS5SetupFailRate NOTIFICATION-TYPE

OBJECTS { starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: EGTPC S5 setup failure rate threshold clear for threshold %d%% measured %d%%"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1331 }

starDdfReload NOTIFICATION-TYPE

OBJECTS { starSlotNum, starDdfDev }

STATUS current

DESCRIPTION

" DDF MCDMA Engine Reloaded due to CRC Error. This is not applicable to QVPC-SI and QVPC-DI."

--#SUMMARY "A DDF reload occurred on slot %d"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 1332 }

starHdRaidMgmtCardSwitchover NOTIFICATION-TYPE

OBJECTS { starSlotNum, starHdRaidMgmtCardSwitchoverCause }

STATUS current

DESCRIPTION

" Management Card Switchover due to unrecoverable HDRaid error."

--#SUMMARY "Management Card switchover happened from slot %d due to unrecoverable HDRaid error %s."

--#ARGUMENTS {0, 1}

--#STATE OPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 1333 }

starThreshLSLogsVolume NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"When any facility and instance generate event-logs more than the configured amount of threshold for a configured amount of time, will trigger a trap."

```
--#SUMMARY "[System] Threshold: facility %s instance %d is generating overwhelming logs, threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1334 }
```

starThreshClearLSLogsVolume NOTIFICATION-TYPE

```
OBJECTS { starTaskFacilityName, starTaskInstance, starThreshInt, starThreshMeasuredInt }
STATUS current
DESCRIPTION
```

"When any facility and instance generate event-logs less than the clear threshold, will trigger clear trap."

```
--#SUMMARY "[System] Threshold: facility %s instance %d overwhelming logs threshold clear for threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1335 }
```

starKEv2DOSAttack NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance }
STATUS current
DESCRIPTION
```

"Alarm will be triggered when a ipsecmgr facility is under DDOS attack."

```
--#SUMMARY "[IPSEC] : ipsecmgr facility instance %d is under DDOS attack"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1336 }
```

starKEv2ClearDOSAttack NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance }
STATUS current
DESCRIPTION
```

"Alarm will be triggered when a ipsecmgr facility is out of DDOS attack."

```
--#SUMMARY "[IPSEC] : ipsecmgr facility instance %d is under DDOS attack"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1337 }
```

starKEv2DecryptionFailThreshold NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance, starSessSub1NAI, starSessSub1IpAddr}
STATUS current
DESCRIPTION
```

"Alarm will be triggered when decryption fail count for subsequent IKEV2 messages from a UE increases configured value ."

```
--#SUMMARY "[IPSEC] : Decryption failcount exceeded for UE %s with NAI %s and IP addr %s on IPsec Mgr instance %d"
--#ARGUMENTS {0,1,2, 3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1338 }
```

starKEv2ClearDecryptionFailThreshold NOTIFICATION-TYPE

```
OBJECTS { starTaskInstance, starSessSub1NAI, starSessSub1IpAddr}
STATUS current
DESCRIPTION
```

"Alarm will be triggered when UE sends a valid IKEv2 packet , for which the decryption passes"

```
--#SUMMARY "[IPSEC] : Decryption fail alarm cleared [Reason: %s ]for UE with NAI %s and IP addr %s on IPsec Mgr instance %d"
--#ARGUMENTS {0 ,1, 2, 3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1339 }
```

starDiameterRifThresholdOver NOTIFICATION-TYPE

```
OBJECTS { starDiameterDiamproxyInstance, starDiameterVpnName, starDiameterRifContext, starDiameterPeerName,
starDiameterEndpointName, starDiameterRifECode, starDiameterRifTps, starDiameterRifDelayTolerance, starDiameterRifQueuePercent}
```

STATUS current

DESCRIPTION

"Diameter RLF hit upper threshold"

--#SUMMARY "[Diamproxy %d] [VPN %s] Diameter RLF context %s hit upper threshold for peer %s endpoint %s. Cause Code: %d TPS : %d, Delay Tolerance : %d"

--#ARGUMENTS {0,1,2,3,4,5,6,7}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1340 }

starDiameterRlfOverLimit NOTIFICATION-TYPE

OBJECTS { starDiameterDiamproxyInstance, starDiameterVpnName, starDiameterRlfContext, starDiameterPeerName, starDiameterEndpointName, starDiameterRlfECode, starDiameterRlfTps, starDiameterRlfDelayTolerance, starDiameterRlfQueuePercent}

STATUS current

DESCRIPTION

"Diameter RLF queue full"

--#SUMMARY "[Diamproxy %d] [VPN %s] Diameter RLF context %s hit queue limit for peer %s endpoint %s. Cause Code: %d TPS : %d, Delay Tolerance : %d"

--#ARGUMENTS {0,1,2,3,4,5,6,7}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1341 }

starDiameterRlfThresholdGood NOTIFICATION-TYPE

OBJECTS { starDiameterDiamproxyInstance, starDiameterVpnName, starDiameterRlfContext, starDiameterPeerName, starDiameterEndpointName, starDiameterRlfECode, starDiameterRlfTps, starDiameterRlfDelayTolerance, starDiameterRlfQueuePercent}

STATUS current

DESCRIPTION

"Diameter RLF under stable condition"

--#SUMMARY "[Diamproxy %d] [VPN %s] Diameter RLF context %s under stable condition for peer %s endpoint %s. Cause Code: %d TPS : %d, Delay Tolerance : %d"

--#ARGUMENTS {0,1,2,3,4,5,6,7}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1342 }

starThreshHatHb5MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Heartbeat loss for past 5 mins on each card with respect to each peer card."

--#SUMMARY "Results on-card %d: to-card %d health loss for 5mins, is in Bad health, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1343 }

starThreshClearHatHb5MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Clear heartbeat loss for past 5 mins interval on each card with respect to each peer card."

--#SUMMARY "Results on-card %d: to-card %d health loss for 5mins, is in Good health, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1344 }

starThreshHatHb60MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Heartbeat loss for past 60 mins on each card with respect to each peer card."

--#SUMMARY "Results on-card %d: to-card %d health loss for 60mins, is in Bad health, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL


```
--#SEVERITY INFORMATIONAL
::= { starentTraps 1345 }
```

starThreshClearHatHb60MinsLoss NOTIFICATION-TYPE

```
OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
    "Clear heartbeat loss for past 60 mins interval on each card with respect to each peer card."
--#SUMMARY "Results on-card %d: to-card %d health loss for 60mins, is in Good health, threshold %d%% measured value %d%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1346 }
```

starGlobalCLISessionsLimit NOTIFICATION-TYPE

```
OBJECTS {
    starCLIActiveCount,
    starCLIMaxCount
}
STATUS current
DESCRIPTION
    "Glocal Concurrent CLI Sessions limit has been hit.
    Total number of Active CLI Sessions have exceeded configured Maximum Limit.
    If possible, please cleanup idle sessions."
--#SUMMARY "[System] Security: active CLI sessions count %d is higher than maximum CLI sessions limit %d"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1347 }
```

starUserCLISessionsLimit NOTIFICATION-TYPE

```
OBJECTS {
    starCLIContext,
    starCLIUsername,
    starCLITypname,
    starCLIRemotelpAddrType,
    starCLIRemotelpAddr,
    starCLIDatabaseUsername,
    starCLIPrivs,
    starCLIActiveCount,
    starCLIMaxCount
}
STATUS current
DESCRIPTION
    "Concurrent CLI Sessions limit has been hit for this user.
    Total number of Active CLI Sessions have exceeded configured Maximum Limit for this use.
    If possible, please cleanup idle sessions."
--#SUMMARY "[System] Security: context %s user %s ttyname %s address type %s remote ip address %s privilege level %s active CLI sessions %d
max CLI sessions %d"
--#ARGUMENTS {0,1,2,3,4,5,6,7,8}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1348 }
```

starSmartLicenseServiceOOO NOTIFICATION-TYPE

```
OBJECTS { starSmartLicenseServiceName, starSmartLicenseServiceUsage }
STATUS current
DESCRIPTION
    "Smart Licence Service Usage is Out-Of-Compliance, new calls are not allowed for this license.

    Action to be Taken: Please make sure surplus licenses are available to avoid service disruption"
--#SUMMARY "[System] Smart Licensing Service %s is out-of-compliance, currently using %d licenses"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1349 }
```

starSmartLicenseServiceOOClear NOTIFICATION-TYPE

OBJECTS { starSmartLicenseServiceName, starSmartLicenseServiceUsage }

STATUS current

DESCRIPTION

"Smart Licence Service Usage is In-Compliance, new calls are allowed for this license."

--#SUMMARY "[System] Smart Licensing Service %s is now in-compliance, currently using %d licenses"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1350 }

starSmartLicenseEvalMode NOTIFICATION-TYPE

OBJECTS { starSmartLicenseEvalModeRemaining }

STATUS current

DESCRIPTION

"Smart Licensing device is in evaluation period, device being used without registering."

Action to be Taken: Please register the device with idtoken."

--#SUMMARY "[System] Smart Licensing device is in evaluation period, device has %d days of evaluation period"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1351 }

starSmartLicenseEvalModeClear NOTIFICATION-TYPE

OBJECTS { starSmartLicenseEvalModeRemaining }

STATUS current

DESCRIPTION

"Smart Licensing device is now registered and authorized successfully."

--#SUMMARY "[System] Smart Licensing device is either registered or evaluation period has been expired, device has %d days of evaluation period"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1352 }

starSmartLicenseEvalModeExpire NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"Smart Licensing device in evaluation period has expired."

Action to be Taken: Smart Licensing device works only with valid license, no more evaluation period allowed."

--#SUMMARY "[System] Smart Licensing device in evaluation period has been expired, no more evaluation period allowed for the device"

--#STATE DEGRADED

--#SEVERITY CRITICAL

::= { starentTraps 1353 }

starSmartLicenseEvalModeExpireClear NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"Smart Licensing device evaluation period is reseted. Device can be used for 90 days in evaluation period."

--#SUMMARY "[System] Smart Licensing device evaluation period is reseted, device now has 90 days of evaluation period"

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1354 }

starSmartLicenseCSSMConnnectionFail NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"Smart License device unable to connect CSSM License Server."

Action to be Taken: Make sure to connect the device to the CSSM License Server to avoid service distruption."

--#SUMMARY "[System] Smart Licensing device unable to connect CSSM license server"

--#STATE DEGRADED

--#SEVERITY CRITICAL

```
::= { starentTraps 1355 }
```

starSmartLicenseCSSMConnectionFailClear NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"Smart License device is now able to connect the CSSM License Server."

--#SUMMARY "[System] Smart Licensing device is now connected to CSSM license server"

--#STATE OPERATIONAL

--#SEVERITY WARNING

```
::= { starentTraps 1356 }
```

starSxServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Packet Data Network Gateway Sx-Service has started.

Action to be Taken: No action required"

--#SUMMARY "[Service Sx-%s-%s] Sx service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATION

```
::= { starentTraps 1357 }
```

starSxServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A Packet Data Network Gateway Sx-Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the Sx-service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the Sx service is operational.

Condition Clear Alarm: A starSxServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service Sx-%s-%s] Sx service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

```
::= { starentTraps 1358 }
```

starUplaneServiceStart NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A User Plane (uplane) Service has started.

Action to be Taken: No action required"

--#SUMMARY "[Service uplane-%s-%s] User-Plane service has started"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATION

```
::= { starentTraps 1359 }
```

starUplaneServiceStop NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName }

STATUS current

DESCRIPTION

"A User Plane (uplane) Service has stopped.

Probable Cause: This is typically caused by operator intervention. In rare cases it can be caused by the loss of resources (PSCs) to support the running configuration.

Action to be Taken: If the User-Plane service shutdown was not planned, examine the admin logs for an indication of the failure. Verify that all configured PSCs are present and running in the system. Check the crash logs for an indication of a software failure.

Clear Condition: Verify that the User-Plane service is operational.

Condition Clear Alarm: A starUplaneServiceStart notification will be generated when the service is restarted"

--#SUMMARY "[Service Uplane-%s-%s] Uplane service has stopped"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1360 }

starDisabledEventIDs NOTIFICATION-TYPE

OBJECTS {

starCLIEventIDStart,

starCLIEventIDEnd,

starCLIUsername,

starCLIContext,

starCLIPrivs,

starCLITtyname,

starCLIRemoteIpAddrType,

starCLIRemoteIpAddr

}

STATUS current

DESCRIPTION

"Informs about the Logging Event ID Range that has been disabled by an user."

--#SUMMARY "[System] Security: Event IDs from %d to %d have been disabled by user %s context %s privilege level %s ttyname %s address type %s remote ip address %s"

--#ARGUMENTS {0,1,2,3,4,5,6,7}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1361 }

starLogLevelChanged NOTIFICATION-TYPE

OBJECTS { starCLILogLevelChanged,

starCLIUsername,

starCLIContext,

starCLIPrivs,

starCLITtyname,

starCLIRemoteIpAddrType,

starCLIRemoteIpAddr }

STATUS current

DESCRIPTION

"Informs about the change in logging level of a facility by an user."

--#SUMMARY "[System] Security: 'Logging level of facility <facility> is changed to <critical>' by user %s context %s privilege level %s ttyname %s address type %s remote ip address %s"

--#ARGUMENTS {0,1,2,3,4,5,6}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1362 }

starThreshTotalVolume NOTIFICATION-TYPE

OBJECTS { starRuleBaseName, starRuleDefName, starGroupOfRuleDef, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"Total Volume for Specified RuleBase and RuleDef"

--#SUMMARY "facility sessmgr RuleBase %s RuleDef %s GroupOfRuleDefFlag %d threshold volume %d%% bytes measured volume %d%% Kilobytes"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1363 }

starThreshTotalVolumeClear NOTIFICATION-TYPE

OBJECTS { starRuleBaseName, starRuleDefName, starGroupOfRuleDef, starThreshInt, starThreshMeasuredInt }

STATUS current

DESCRIPTION

"Total Volume for Specified RuleBase and RuleDef"

--#SUMMARY "facility sessmgr RuleBase %s RuleDef %s GroupOfRuleDefFlag %d threshold volume %d%% bytes measured volume %d%% Kilobytes"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1364 }

starIKev2DDOSAttackUDPFail NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when a ipsecdemux encounters high UDP errors rate."

--#SUMMARY "[IPSEC] : IPsec demux instance [%d] context [%s] UDP failure rate exceeded the configured System based threshold "

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1365 }

starIKev2DDOSAttackClearUDPFail NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when udp error rate falls below threshold or config is disabled."

--#SUMMARY "[IPSEC] : IPsec demux instance [%d] context [%s] UDP failure rate alarm cleared [%s] for System Based Threshold"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1366 }

starIKev2DDOSAttackUDPFailPeer NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when a IKEv2 UDP failure rate crosses configured upper threshold for Source-IP"

--#SUMMARY "[IPSEC] : IPsec demux instance [%d] context [%s] UDP failure rate exceeded the configured Source-IP based threshold for Peer IP %s "

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1367 }

starIKev2ClearDDOSAttackUDPFailPeer NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when IKEv2 UDP failure rate comes down below configured lower threshold for Source-IP or config is disabled."

--#SUMMARY "[IPSEC] : IPsec demux instance [%d] context [%s] UDP failure rate alarm cleared [%s] for Source-IP based threshold for Peer IP %s "

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1368 }

starIkeV2DDOSAttackINITFlood NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when a ipsecdemux encounters Flood of INIT requests."

--#SUMMARY "[IPSEC] : IPsecDemux Facility instance [%d] context [%s]Outstanding INIT exceeded the configured threshold "

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1369 }

starIkeV2DDOSAttackClearINITFlood NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when rate of INIT requests falls below threshold or config is disabled."

--#SUMMARY "[IPSEC] : IPsecDemux Facility instance [%d] context [%s]Outstanding INIT requests [below threshold]"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1370 }

starIkeV2DDOSAttackINITPeerFlood NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when a ipsecdemux encounters Flood of INIT requests."

--#SUMMARY "[IPSEC] : IPsecDemux Facility instance [%d] context [%s]Outstanding INIT exceeded the configured threshold "

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1371 }

starIkeV2DDOSAttackClearINITPeerFlood NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when rate of INIT requests falls below threshold or config is disabled."

--#SUMMARY "[IPSEC] : IPsecDemux Facility instance [%d] context [%s]Outstanding INIT requests [below threshold]"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1372 }

starIFTaskHealthFailure NOTIFICATION-TYPE

OBJECTS { starSlotNum }

STATUS current

DESCRIPTION

"A failure of an IFTASK worker thread health has been detected.

This may lead to internal control plane network slow down.

Action to be Taken: If this condition persists, the identified card
needs to be rebooted. This is applicable to QvPC DI and SI platforms."

--#SUMMARY "[Card %d] IFTASK Health Failure"

--#ARGUMENTS {0}

--#STATE NONOPERATIONAL

--#SEVERITY MAJOR

::= { starentTraps 1373 }

starIkeV2ReqRateThreshold NOTIFICATION-TYPE

OBJECTS { starTaskInstance }

STATUS current

DESCRIPTION

"Alarm will be triggered when IKEv2 Request messages crosses the configured threshold."

```
--#SUMMARY "[IPSEC] : Max Allowed IKEv2 Request Count crossed configured threshold %s for UE with NAI %s and IP addr %s on IPsec Mgr instance %d"
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1374 }
```

```
starIKEv2ClearReqRateThreshold NOTIFICATION-TYPE
```

```
OBJECTS { starTaskInstance }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Alarm will be triggered when either IKESA session is deleted or IKEv2 Request messages per interval reaches lower than configured threshold."
```

```
--#SUMMARY "[IPSEC] : Alarm for Max allowed IKEv2 request alarm cleared [Reason:%s ]for UE with NAI %s and IP addr %s on IPsec Mgr instance %d "
```

```
--#ARGUMENTS {0,1,2,3}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1375 }
```

```
starChassisStartupTimeout NOTIFICATION-TYPE
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Not all cards did not comeup within chassis timeout, chassis will proceed with whatever cards are present and start applying the startup configuration"
```

```
--#SUMMARY
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 1377 }
```

```
starNeedADCLicense NOTIFICATION-TYPE
```

```
OBJECTS { starP2PPluginVersion , starADCLicenseExpiryDate }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"ADC license required.
```

```
Action to be taken: Please purchase and configure ADC license"
```

```
--#ARGUMENTS {0,1}
```

```
--#SUMMARY "ADC Plugin Version %s needs ADC Annual license. Please purchase and configure ADC Annual license. Upgrade to ADC Plugin Versions released after %s will not be allowed"
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY WARNING
```

```
::= { starentTraps 1378 }
```

```
starNeedADCLicenseClear NOTIFICATION-TYPE
```

```
OBJECTS { starP2PPluginVersion }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"ADC license present."
```

```
--#ARGUMENTS {0}
```

```
--#SUMMARY "ADC Plugin Version %s either has or doesn't need ADC Annual license"
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1379 }
```

```
starADCLicenseAboutToExpire NOTIFICATION-TYPE
```

```
OBJECTS { starADCLicenseExpiryDate }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"ADC license is about to expire.
```

```
Action to be Taken: A new ADC license should be created and configured on the system before the grace period is over."
```

```
--#SUMMARY "ADC Annual License will expire on %s. Upgrade to ADC Plugin Versions released after %s will not be allowed. Please renew the license."
```

```
--#ARGUMENTS {0,0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 1380 }
```

starADCLicenseExpired NOTIFICATION-TYPE

OBJECTS { starLicenseExpiryDate }

STATUS current

DESCRIPTION

"ADC license has expired.

Action to be Taken: A new license should be created and configured on the system."

--#SUMMARY "ADC Annual License has expired. Upgrade to ADC Plugin Versions released after %s will not be allowed. Please renew the license"

--#ARGUMENTS {0}

--#STATE NONOPERATIONAL

--#SEVERITY CRITICAL

```
::= { starentTraps 1381 }
```

starSxPathFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starSxSelfAddr, starSxPeerAddr, starSxPeerOldRecTimeStamp, starSxPeerNewRecTimeStamp, starSxFailureCause }

STATUS current

DESCRIPTION

"Sx Path Failure. No response received for Sx request sent to Sx Peer.

Possible reason: Remote Sx peer is down

Condition Clear Alarm: A StarSxPathFailureClear notification will be generated when the path to the remote Sx peer becomes available"

--#SUMMARY "[Service Sx-%s-%s] Sx path failure self address %s, peer address %s, peer old recovery timestamp %d, peer new recovery timestamp %d, Failure cause %s"

--#ARGUMENTS {0,1,2,3,4,5,6,7,8}

--#STATE DEGRADED

--#SEVERITY MAJOR

```
::= { starentTraps 1382 }
```

starSxPathFailureClear NOTIFICATION-TYPE

OBJECTS { starServiceVpnName, starServiceServName, starSxSelfAddr, starSxPeerAddr, starSxPeerNewRecTimeStamp, starSxFailureCause}

STATUS current

DESCRIPTION

"Sx Path Failure condition is no longer valid."

--#SUMMARY "[Service Sx-%s-%s] Sx path failure condition clear for self address %s, peer address %s, peer recovery timestamp %d, Clear reason %s"

--#ARGUMENTS {0,1,2,3,4,5,6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1383 }
```

starThreshDataPlaneMonitor5MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"5 minute data plane monitor packet loss between peer cards."

--#SUMMARY "5 minute dataplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1384 }
```

starThreshClearDataPlaneMonitor5MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Clear 5 minute data plane monitor packet loss between peer cards."

--#SUMMARY "5 minute dataplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1385 }
```


starThreshDataPlaneMonitor60MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"60 minute data plane monitor packet loss between peer cards."

--#SUMMARY "60 minute dataplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1386 }

starThreshClearDataPlaneMonitor60MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Clear 60 minute data plane monitor packet loss between peer cards."

--#SUMMARY "60 minute dataplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1387 }

starThreshControlPlaneMonitor5MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"5 minute control plane monitor packet loss between peer cards."

--#SUMMARY "5 minute controlplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1388 }

starThreshClearControlPlaneMonitor5MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Clear 5 minute control plane monitor packet loss between peer cards."

--#SUMMARY "5 minute controlplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1389 }

starThreshControlPlaneMonitor60MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"60 minute control plane monitor packet loss between peer cards."

--#SUMMARY "60 minute controlplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1390 }

starThreshClearControlPlaneMonitor60MinsLoss NOTIFICATION-TYPE

OBJECTS { starSlotNum, starSlotNum, starThreshPct, starThreshMeasuredPct }

STATUS current

DESCRIPTION

"Clear 60 minute control plane monitor packet loss between peer cards."

--#SUMMARY "60 minute controlplane monitor loss from-card %d to-card %d, threshold %d%% measured value %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1391 }

starSxPeerAssociated NOTIFICATION-TYPE

OBJECTS {starServiceVpnName, starServiceServName, starSxInterfaceType, starSxSelfAddr, starSxPeerAddr, starSxInterfaceType, starSxCPUPGroupName}

STATUS current

DESCRIPTION

"Sx Peer Association successful with <Sx-Interface-Type Self-IP Peer-IP and Sx-Interface-Type>."

--#SUMMARY "[Service Sx-%s-%s] Sx Peer Association successful with self node is %d , peer address %s and remote address is %s and its type is %d, Group name is %s"

--#ARGUMENTS {0 1 2 3 4 5 6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1392 }

starSxPeerAssociationRelease NOTIFICATION-TYPE

OBJECTS {starServiceVpnName, starServiceServName, starSxInterfaceType, starSxSelfAddr, starSxPeerAddr, starSxInterfaceType, starSxCPUPGroupName}

STATUS current

DESCRIPTION

"Sx Peer Association released successfully with <Sx-Interface-Type Sx-Self-IP Sx-Peer-IP and Sx-Interface-Type>."

--#SUMMARY "[Service Sx-%s-%s] Sx Peer Association released successfully with self node is %d , peer address %s and remote address is %s and its type is %d, Group name is %s"

--#ARGUMENTS {0 1 2 3 4 5 6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1393 }

starChassisThroughputOver NOTIFICATION-TYPE

OBJECTS {starThreshInt,starThreshMeasuredInt}

STATUS current

DESCRIPTION

"Chassis Throughput exceeds over-limit."

--#SUMMARY "Chassis Throughput limit %d , measured %d"

--#ARGUMENTS {0 1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1394 }

starChassisThroughputOverClear NOTIFICATION-TYPE

OBJECTS {starThreshInt,starThreshMeasuredInt}

STATUS current

DESCRIPTION

"Chassis Throughput Over trap cleared."

--#SUMMARY "Chassis Throughput limit %d , measured %d"

--#ARGUMENTS {0 1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1395 }

starChassisThroughputWarn NOTIFICATION-TYPE

OBJECTS {starThreshInt,starThreshMeasuredInt}

STATUS current

DESCRIPTION

"Chassis Throughput Exceeds Warn Threshold."

--#SUMMARY "Chassis Throughput limit %d , measured %d"

--#ARGUMENTS {0 1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1396 }

starChassisThroughputWarnClear NOTIFICATION-TYPE

OBJECTS {starThreshInt,starThreshMeasuredInt}

STATUS current

DESCRIPTION

"Chassis Throughput Warn Trap cleared."

--#SUMMARY "Chassis Throughput limit %d , measured %d"

```
--#ARGUMENTS {0 1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1397 }
```

starIFTaskBootConfigApplied NOTIFICATION-TYPE

```
OBJECTS { starSlotNum,starCPUNumber}
STATUS current
DESCRIPTION
    "IFTask Boot Configuration has been applied on identified card-cpu."
--#SUMMARY "iftask boot config applied on Card %d CPU %d"
--#ARGUMENTS {0 1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1398 }
```

starUidhURLHostDatabaseUpgradeFailureStatus NOTIFICATION-TYPE

```
OBJECTS { starCommonDatabasePreDBVersion, starCommonDatabaseUpgradeDBVersion, starCommonDatabaseUpgradeComment }
STATUS current
DESCRIPTION
    "UIDH URL-HOST Database Upgrade Failure Status.
    Condition Clear Alarm: This condition is cleared by starUidhURLHostDatabaseUpgradeSuccessStatus notification."
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY MAJOR
::= { starentTraps 1399 }
```

starUidhURLHostDatabaseUpgradeSuccessStatus NOTIFICATION-TYPE

```
OBJECTS { starCommonDatabasePreDBVersion, starCommonDatabaseUpgradeDBVersion, starCommonDatabaseUpgradeComment }
STATUS current
DESCRIPTION
    "UIDH URL-HOST Database Upgrade Success.
    Action to be taken: No action required "
--#SUMMARY "Pre-DB Version %s Upgrade Version %s, Comment: %s"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1400 }
```

starSmartLicenseFeatureOOC NOTIFICATION-TYPE

```
OBJECTS { starSmartLicenseFeatureName, starSmartLicenseFeatureUsage }
STATUS current
DESCRIPTION
    "Smart Licence Feature Usage is Out-Of-Compliance, new calls are not allowed for services which uses this feature license.

    Action to be Taken: Please make sure surplus licenses are available to avoid service disruption"
--#SUMMARY "[System] Smart Licensing Feature %s is out-of-compliance, currently using %d licenses"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1401 }
```

starSmartLicenseFeatureOOCclear NOTIFICATION-TYPE

```
OBJECTS { starSmartLicenseFeatureName, starSmartLicenseFeatureUsage }
STATUS current
DESCRIPTION
    "Smart Licence Feature Usage is In-Compliance, new calls are allowed for services which uses this feature license."
--#SUMMARY "[System] Smart Licensing Feature %s is now in-compliance, currently using %d licenses"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1402 }
```

starServiceLossDetected NOTIFICATION-TYPE

```
OBJECTS { starServiceLossCause }
```

STATUS current

DESCRIPTION

"A situation has occurred that may lead to service loss.

Action to be taken: No action required "

--#SUMMARY "Probable Service Loss Occurrence. %s"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1404 }

starMMEManagerBusy NOTIFICATION-TYPE

OBJECTS { starMMEManagerInst, starMMEManagerStatus }

STATUS current

DESCRIPTION

"When MME Manager state is busy, At the same time, MME Manager will generate the trap."

--#SUMMARY "The MMEManager information; instance %d status %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1405 }

starMMEManagerNormal NOTIFICATION-TYPE

OBJECTS { starMMEManagerInst, starMMEManagerStatus }

STATUS current

DESCRIPTION

"When MME Manager state comes back to Normal, at the same time, MME Manager will generated the trap. "

--#SUMMARY "The MMEManager information ; instance %d status %d"

--#ARGUMENTS {1,0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1406 }

starCFGSyncForUPlaneRedundancyAbort NOTIFICATION-TYPE

OBJECTS { starCFGSyncAbortReason }

STATUS current

DESCRIPTION

"Config push from Active UP to Standby UP node is aborted "

--#SUMMARY "Config push from Active UP to Standby UP ; status %s"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1407 }

starMonSubProcessInitFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"Mon Sub Handler Process Failed to start.

Action to be Taken: Restart Mon Sub packet capture process"

--#SUMMARY "Mon Sub Handler Process has failed Context %s, Service:%s "

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1408 }

starMonSubPcapWriteFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"Mon Sub Handler Process has failed to write/copy pcap file."

--#SUMMARY "Mon Sub Handler Process PCAP file write/copy has failed. Context %s, Service:%s "

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1409 }
```

starMonSubProcessConnectFailure NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"Mon Sub Handler Process has failed to establish connection with the fastpath module"

--#SUMMARY "Mon Sub Handler Process Connect-Msg failed Context. %s, Service:%s "

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1410 }
```

starBulkStatisticsTaiTimeOut NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"When Bulkstatistics blocking call is not responded with in configured timer, Sessctrl will generate the the trap"

--#SUMMARY "The Sessctrl information "

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1411 }
```

starUPlaneSelfOverload NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"User-Plane has gone into self-protection mode.

Possible reason: Any one of the System/Sessmgr/VPP_CPU overload factors have gone above their respective upper threshold limits.

Condition Clear Alarm: A StarUPSelfOverloadClear notification will be generated when all the overload factors are below their respective lower threshold limits."

--#SUMMARY "[Context-%s , Service UPlane-%s]"

--#ARGUMENTS {0,1}

--#STATE DEGRADED

--#SEVERITY MAJOR

```
::= { starentTraps 1412 }
```

starUPlaneSelfOverloadClear NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"User-Plane has gone out of self-protection mode."

--#SUMMARY "[Context-%s , Service UPlane-%s]"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1413 }
```

starUPlaneTsServiceChainPathNotSelected NOTIFICATION-TYPE

OBJECTS { starServiceVpnName }

STATUS current

DESCRIPTION

"User-Plane Traffic Steering Service Chain Service Path Not Selected."

--#SUMMARY "[Context-%s , Service Chain-%s]"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

```
::= { starentTraps 1416 }
```

starUPlaneTsServiceChainUp NOTIFICATION-TYPE

OBJECTS { starServiceVpnName }

STATUS current

DESCRIPTION

"User-Plane Traffic Steering Service Chain is up."

--#SUMMARY "[Context-%s , Service Chain-%s]"

```
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1417 }
```

```
starUPlaneTsServiceChainDown NOTIFICATION-TYPE
OBJECTS { starServiceVpnName }
STATUS current
DESCRIPTION
    "User-Plane Traffic Steering Service Chain is down."
--#SUMMARY "[Context-%s , Service Chain-%s]"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1418 }
```

```
starUPlaneTsMissConfiguration NOTIFICATION-TYPE
OBJECTS { starServiceVpnName }
STATUS current
DESCRIPTION
    "User-Plane Traffic Steering Miss Configuration."
--#SUMMARY "[Context-%s , Miss Config Details-%s]"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1419 }
```

```
-- Conformance Information
```

```
starRCMServiceStart NOTIFICATION-TYPE
OBJECTS { starContextName }
STATUS current
DESCRIPTION
    "The RCM Service has started"
--#SUMMARY "[Context name-%s Service name-%s]"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1414 }
```

```
-- Conformance Information
```

```
starRCMServiceStop NOTIFICATION-TYPE
OBJECTS { starContextName }
STATUS current
DESCRIPTION
    "The RCM Service has stopped"
--#SUMMARY "[Context name-%s Service name-%s]"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1415 }
```

```
-- Conformance Information
```

```
starRCMConfigPushCompleteReceived NOTIFICATION-TYPE
OBJECTS { starContextName }
STATUS current
DESCRIPTION
    "The RCM Config Push Complete Received determines that the config push from RCM Configmgr is received in the UP"
--#SUMMARY "[Context name-%s]"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1420 }
```

```
-- Conformance Information
```

```
starRCMConfigPushComplete NOTIFICATION-TYPE
OBJECTS { starContextName }
```

STATUS current

DESCRIPTION

"The RCM Config Push Complete determines that the config push from RCM Configmgr is applied in the UP"

--#SUMMARY "[Context name-%s]"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1421 }

starX3MDConnDown NOTIFICATION-TYPE

OBJECTS { starX3ContextId, starX3srcIPAddr, starX3srcPort, starX3dstIPAddr, starX3dstPort, starX3ConnType, starX3ConnCauseStr }

STATUS current

DESCRIPTION

"starX3ConnType: This will describe the type of the connection: TCP and TCP Proxy

A TCP connection to CALEA interface is down.

Problem Cause: TCP connection between PGW and CALEA server has been brought down - could be for any of the following reasons -

i) network connectivity between PGW and CALEA server is broken.

ii) CALEA Server has terminated the TCP connection with PGW"

--#SUMMARY "[TCP Connection %s-%d-%s] is down; Peer IP Addr: %s Port: %d with cause %s"

--#ARGUMENTS {0,1,2,3,4,5,6}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1422 }

starX3MDConnUp NOTIFICATION-TYPE

OBJECTS { starX3ContextId, starX3srcIPAddr, starX3srcPort, starX3dstIPAddr, starX3dstPort, starX3ConnType, starX3ConnCauseStr }

STATUS current

DESCRIPTION

"A TCP Connection is up."

--#SUMMARY "[TCP Connection %s-%d-%s] is up; Peer IP Addr: %s Port: %d with cause %s"

--#ARGUMENTS {0,1,2,3,4,5,6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1423 }

starRCMTCPDisconnect NOTIFICATION-TYPE

OBJECTS { starContextName }

STATUS current

DESCRIPTION

"RCM TCP is Disconnected"

--#SUMMARY "[Context name-%s]"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1424 }

starRCMTCPConnect NOTIFICATION-TYPE

OBJECTS { starContextName }

STATUS current

DESCRIPTION

"RCM TCP is Connected"

--#SUMMARY "[Context name-%s]"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1425 }

starRCMChassisState NOTIFICATION-TYPE

OBJECTS { starObjectRCMChassisState }

STATUS current

DESCRIPTION

"The RCM Chassis State determines the state of RCM Chassis"

--#SUMMARY "[Chassis State-%s]"

--#ARGUMENTS {0}

--#STATE OPERATIONAL

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1426 }
```

```
starRCMChassisReload NOTIFICATION-TYPE
```

```
OBJECTS { starObjectRCMReloadReason }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The RCM Chassis Reload determines the reason for chassis getting reload"
```

```
--#SUMMARY "[Reload Reason-%s]"
```

```
--#ARGUMENTS {0}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY INFORMATIONAL
```

```
::= { starentTraps 1427 }
```

```
starDiameterEndPointPriorityPeersUnAvailable NOTIFICATION-TYPE
```

```
OBJECTS { starDiameterEndPointContextName, starDiameterEndPointId, starDiameterPeerCauseType }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"starDiameterPeerCauseType: This type indicates which string need to be displayed in trap message
```

```
Problem Cause:
```

```
following reasons -
```

```
i) No peers configured with priority-channel keyword through cli.
```

```
ii) All available priority peers are down"
```

```
--#SUMMARY "[ContextName : %s EndPoint Id : %s Cause : %s]"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 1428 }
```

```
starDiameterEndPointPriorityPeersAvailable NOTIFICATION-TYPE
```

```
OBJECTS { starDiameterEndPointContextName, starDiameterEndPointId, starDiameterPeerCauseType }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"starDiameterPeerCauseType: This type indicates which string need to be displayed in trap message"
```

```
--#SUMMARY "[ContextName : %s EndPoint Id : %s Cause : %s]"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 1429 }
```

```
starDiameterEndPointNonPriorityPeersUnAvailable NOTIFICATION-TYPE
```

```
OBJECTS { starDiameterEndPointContextName, starDiameterEndPointId, starDiameterPeerCauseType }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"starDiameterPeerCauseType: This type indicates which string need to be displayed in trap message
```

```
Problem Cause:
```

```
following reasons -
```

```
i) No peers configured for a diameter end point.
```

```
ii) All available peers are down"
```

```
--#SUMMARY "[ContextName : %s EndPoint Id : %s Cause : %s]"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE DEGRADED
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 1430 }
```

```
starDiameterEndPointNonPriorityPeersAvailable NOTIFICATION-TYPE
```

```
OBJECTS { starDiameterEndPointContextName, starDiameterEndPointId, starDiameterPeerCauseType }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"starDiameterPeerCauseType: This type indicates which string need to be displayed in trap message"
```

```
--#SUMMARY "[ContextName : %s EndPoint Id : %s Cause : %s]"
```

```
--#ARGUMENTS {0,1,2}
```

```
--#STATE OPERATIONAL
```

```
--#SEVERITY CRITICAL
```

```
::= { starentTraps 1431 }
```


starSxPeerUnsupportedVersion NOTIFICATION-TYPE

OBJECTS {starSxInterfaceType, starSxSelfAddr, starSxPeerAddr,starSxInterfaceType,
starSxCPUGroupname,starServiceVpnName,starServiceServName, starSXPeerVersion, starSXSelfVersion}

STATUS current

DESCRIPTION

"Sx Peer unsupported version with <starSxInterfaceType, starSxSelfAddr, starSxPeerAddr,starSxInterfaceType,
starSxCPUGroupname,starServiceVpnName,starServiceServName, starSXPeerVersion, starSXSelfVersion>."

--#SUMMARY "Sx peer unsupported version with type is %d , self address %s and peer address is %s and its type is %d, Group name is %s vpn
name is %s Service name is %s, peer version %s my version %s"

--#ARGUMENTS {0 1 2 3 4 5 6 7 8}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1432 }

starSxPeerUnsupportedVersionClear NOTIFICATION-TYPE

OBJECTS {starSxInterfaceType, starSxSelfAddr, starSxPeerAddr,starSxInterfaceType,
starSxCPUGroupname,starServiceVpnName,starServiceServName, starSXPeerVersion, starSXSelfVersion}

STATUS current

DESCRIPTION

"Sx Peer unsupported version clear with <starSxInterfaceType, starSxSelfAddr, starSxPeerAddr,starSxInterfaceType,
starSxCPUGroupname,starServiceVpnName,starServiceServName, starSXPeerVersion, starSXSelfVersion>."

--#SUMMARY "Sx peer unsupported version clear with type is %d , self address %s and peer address is %s and its type is %d, Group name is %s
vpn name is %s Service name is %s, peer version %s my version %s"

--#ARGUMENTS {0 1 2 3 4 5 6 7 8}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1433 }

starSRPeerUnsupportedVersion NOTIFICATION-TYPE

OBJECTS {starServiceVpnName, starSRIpAddress, starUDPPortNum,
starSRPeerIpAddress,starSRPeerVersion,starSRPSelfVersion,starChassisState}

STATUS current

DESCRIPTION

"SRP Peer unsupported version with <starServiceVpnName, starSRIpAddress, starUDPPortNum,
starSRPeerIpAddress,starSRPeerVersion,starSRPSelfVersion,starChassisState>."

--#SUMMARY "SRP peer unsupported version with vpn name is %s , self address is %s UDP port %d and peer address is %s, peer version %s, self
version %s my chassis state %d"

--#ARGUMENTS {0 1 2 3 4 5 6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1434 }

starSRPeerUnsupportedVersionClear NOTIFICATION-TYPE

OBJECTS {starServiceVpnName, starSRIpAddress,starUDPPortNum,
starSRPeerIpAddress,starSRPeerVersion,starSRPSelfVersion,starChassisState}

STATUS current

DESCRIPTION

"SRP Peer unsupported version clear with <starServiceVpnName, starSRIpAddress, starUDPPortNum,
starSRPeerIpAddress,starSRPeerVersion,starSRPSelfVersion,starChassisState>."

--#SUMMARY "SRP peer unsupported version clear with vpn name is %s , self address is %s UDP port %d and peer address is %s, peer version
%s, self version %s my chassis state %d"

--#ARGUMENTS {0 1 2 3 4 5 6}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1435 }

sessionUnevenDistribution NOTIFICATION-TYPE

OBJECTS { starSessMgrInstanceNumber, starSessMgrCallCount, starSessUnevenCallDistThrldStr }

STATUS current

DESCRIPTION

"Traps for handling notifications for high thresholds for session managers uneven resource usage."

--#SUMMARY "sessionUnevenDistribution"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1436 }

sessionUnevenDistributionClear NOTIFICATION-TYPE

OBJECTS { starSessMgrInstanceNumber, starSessMgrCallCount,starSessUnevenCallDistThrdStr }

STATUS current

DESCRIPTION

"Traps for handling notifications for clear thresholds for session managers uneven resource usage."

--#SUMMARY "sessionUnevenDistributionClear"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1437 }

starSgiReachabilityAPNDown NOTIFICATION-TYPE

OBJECTS { starSgiReachabilityContextName, starSgiReachabilityPgwIPAddr,starSgiReachabilityApnName }

STATUS current

DESCRIPTION

"Sgi-reachability endpoints are not reachable from this APN"

--#SUMMARY "Context_Name: %s PGW_IP: %s APN_Name: %s"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

--#SEVERITY CRITICAL

::= { starentTraps 1438 }

starSgiReachabilityAPNUp NOTIFICATION-TYPE

OBJECTS { starSgiReachabilityContextName, starSgiReachabilityPgwIPAddr,starSgiReachabilityApnName }

STATUS current

DESCRIPTION

"Sgi-reachability endpoints are not reachable from this APN"

--#SUMMARY "Context_Name: %s PGW_IP: %s APN_Name: %s"

--#ARGUMENTS {0,1,2}

--#STATE OPERATIONAL

--#SEVERITY CRITICAL

::= { starentTraps 1439 }

starRMDemuxUnavailable NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance }

STATUS current

DESCRIPTION

"RMCTRL Demux CPU card Unavailable

This event is generated when Demux CPU card not set.

Condition Clear Alarm: A starRMDemuxUnavailableClear notification is sent when Demux card is set"

--#SUMMARY "[SGSN Facility %s-%d] Demux card not set"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1440 }

starRMDemuxUnavailableClear NOTIFICATION-TYPE

OBJECTS { starTaskFacilityName, starTaskInstance}

STATUS current

DESCRIPTION

"RMCTRL Demux CPU card available

This event is generated when demux card is set"

--#SUMMARY "[SGSN Facility %s-%d] Demux card available"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1441 }

starUserPasswordExpiryInd NOTIFICATION-TYPE

OBJECTS { starContextName, starCLIUsername, starLicenseDaysRemaining }

```

STATUS current
DESCRIPTION
"An indication to the user that password is going to expire"
--#SUMMARY "Context Name :%s username: %s Expiry days left: %d"
--#ARGUMENTS {0,1,2}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1442 }

```

starSxMonitorDown NOTIFICATION-TYPE

```

OBJECTS { starContextName }
STATUS current
DESCRIPTION
"All SX Monitors are not up"
--#SUMMARY "[Context name-%s]"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1443 }

```

starSxMonitorUp NOTIFICATION-TYPE

```

OBJECTS { starContextName }
STATUS current
DESCRIPTION
"All SX Monitors are up"
--#SUMMARY "[Context name-%s]"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1444 }

```

starSessMgrAAAMgrGrStateUpdateFailure NOTIFICATION-TYPE

```

OBJECTS { starTaskInstance }
STATUS current
DESCRIPTION
"Alarm will be triggered when SessMgr is unable to update GR state to AAAMgr after maximum retry."
--#SUMMARY "SessMgr failed to update GR state to AAAMgr on instance %d"
--#ARGUMENTS {0}
--#STATE OPERATIONAL
--#SEVERITY CRITICAL
::= { starentTraps 1445 }

```

starS8HRLMISFSigConfNotFound NOTIFICATION-TYPE

```

STATUS current
DESCRIPTION
"This trap will be raised when S8HR lms-Signalling default config is not found while processing APN list"
--#SUMMARY "S8HR-LMISF:IMS-Signalling config is not found while processing the config_msg received from LMISF server"
--#STATE DEGRADED
--#SEVERITY INFORMATIONAL
::= { starentTraps 1446 }

```

starPreThreshIPPoolUsable NOTIFICATION-TYPE

```

OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current
DESCRIPTION
"The percentage IP pool addresses in Free+Release state in a context has gone below the configured
threshold"
--#SUMMARY "[System] Threshold: IP Pool Address in Free+Release State for context %s pool %s threshold %d%% measured %d%%"
--#ARGUMENTS {0,1,2,3}
--#STATE OPERATIONAL
--#SEVERITY WARNING
::= { starentTraps 1447 }

```

starPreThreshClearIPPoolUsable NOTIFICATION-TYPE

```

OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct }
STATUS current

```

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: IP Pool Address in Free State clear for context %s pool %s threshold %d%% measured %d%%"

--#ARGUMENTS {0,1,2,3}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1448 }

starFinalThreshIPPoolUsable NOTIFICATION-TYPE

OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct, starAHTAge}

STATUS current

DESCRIPTION

"The percentage IP pool addresses in Free+Release state in a context has gone below the configured threshold"

--#SUMMARY "[System] Threshold: IP Pool Address in Free+Release State for context %s pool %s threshold %d%% measured %d%% age %d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY WARNING

::= { starentTraps 1449 }

starFinalThreshClearIPPoolUsable NOTIFICATION-TYPE

OBJECTS { starIPPoolContext, starIPPoolName, starThreshPct, starThreshMeasuredPct, starAHTAge}

STATUS current

DESCRIPTION

"The threshold condition is now clear."

--#SUMMARY "[System] Threshold: IP Pool Address in Free+Release State clear for context %s pool %s threshold %d%% measured %d%% age %d"

--#ARGUMENTS {0,1,2,3,4}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1450 }

starUPFOverload NOTIFICATION-TYPE

OBJECTS { startOcFactorName , starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"UPF has gone into overload mode.

Possible reason: Any one of the System/Sessmgr/VPP_CPU overload factors have gone above their respective upper threshold limits.

Condition Clear Alarm: A StarUPFOverloadClear notification will be generated when all the overload factors are below their respective lower threshold limits."

--#SUMMARY "[OC Factor-%s , Context-%s , Service UPlane-%s]"

--#ARGUMENTS {0,1,2}

--#STATE DEGRADED

--#SEVERITY MAJOR

::= { starentTraps 1451 }

starUPFOverloadClear NOTIFICATION-TYPE

OBJECTS { starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"UPF has gone out of overload mode."

--#SUMMARY "[Context-%s , Service UPlane-%s]"

--#ARGUMENTS {0,1}

--#STATE OPERATIONAL

--#SEVERITY INFORMATIONAL

::= { starentTraps 1452 }

starUPFSelfProtectionMode NOTIFICATION-TYPE

OBJECTS { startSpFactorName , starServiceVpnName , starServiceServName }

STATUS current

DESCRIPTION

"UPF has gone into self-protection mode.

Possible reason: Any one of the System/Sessmgr/VPP_CPU overload factors have gone above their respective upper threshold limits.

Condition Clear Alarm: A StarUPFSelfProtectionModeClear notification will be generated when all the overload factors are below their respective lower threshold limits."

```
--#SUMMARY "[Factor-%s , Context-%s , Service UPlane-%s]"
--#ARGUMENTS {0,1,2}
--#STATE DEGRADED
--#SEVERITY MAJOR
::= { starentTraps 1453 }
```

```
starUPFSelfProtectionModeClear NOTIFICATION-TYPE
OBJECTS { starServiceVpnName , starServiceServName }
STATUS current
DESCRIPTION
  "UPF has gone out of self-protection mode."
--#SUMMARY "[Context-%s , Service UPlane-%s]"
--#ARGUMENTS {0,1}
--#STATE OPERATIONAL
--#SEVERITY INFORMATIONAL
::= { starentTraps 1454 }
```

```
starentMIBConformance OBJECT IDENTIFIER ::= { starentMIB 3 }
```

```
starentMIBGroups OBJECT IDENTIFIER ::= { starentMIBConformance 1 }
```

```
starentMIBCompliances OBJECT IDENTIFIER ::= { starentMIBConformance 2 }
```

```
-- Compliance Statements
```

```
starentMIBCompliance2 MODULE-COMPLIANCE
STATUS current
DESCRIPTION
  "The compliance statement for ..."

MODULE
  MANDATORY-GROUPS { starChassisGroup,
                    starAlertGroup,
                    starAlertTrapGroup,
                    starTrapGroup }
::= { starentMIBCompliances 2 }
```

```
starChassisGroup OBJECT-GROUP
OBJECTS { starChassisCriticalCO,
          starChassisMajorCO,
          starChassisMinorCO,
          starChassisAudibleAlarm,
          starChassisUTCTime,
          starChassisLocalTime,
          starChassisType,
          starChassisAction,
          starTimeTicks,
          starChassisDescription,
          starChassisSWRevision,
          starChassisPeakCpuUsage,
          starChassisPeakMemoryUsage,
          -- slot table
          starSlotType,
          starCardType,
          starCardOperState,
          starCardAdminState,
          starCardRevision,
          starCardLastStateChange,
          starCardMode,
          starCardPacStandbyPriority,
          starCardLock,
          starCardHaltIssued,
          starCardRebootPending,
```

```
starCardUsable,
starCardSinglePOF,
starCardAttachment,
starCardTemperature,
starSlotNumPorts,
starSlotAction,
starSlotVoltageState,
starSlotNumCPU,
starSlotPartNumber,
starSlotPartRevision,
starSlotSerialNumber,
starSlotCLEICode,
starSlotCiscoModelName,
starSlotCiscoHardwareRev,
starSlotCiscoSerialNumber,
starDeviceNum,
starSerdesNum,
starSlotMappingType,
starSlotMappingRCCNum,
starSlotMappingToSlot,
-- NPU table
  starNPUSlot,
-- fan table
starFanNum,
starFanLocation,
starFanStatus,
starFanSpeed,
  -- log table
    starLogCurSize,
    starLogMaxSize,
    starLogText,
  -- power table
starPowerState,
  -- cpu table
    starCPUUser,
    starCPUSystem,
    starCPUIdle,
    starCPUIO,
    starCPUIRQ,
    starCPULoad1Min,
    starCPULoad5Min,
    starCPULoad15Min,
    starCPUMemTotal,
    starCPUMemUsed,
    starCPUNumProcesses,
    starCPUMemCached,
  -- Session In Progress
starSessInProgCalls,
starSessInProgActiveCalls,
starSessInProgDormantCalls,
starSessInProgArrived,
starSessInProgLCPNeg,
starSessInProgLCPUp,
starSessInProgAuthenticating,
starSessInProgAuthenticated,
starSessInProgIPCPUp,
starSessInProgSIPConn,
starSessInProgMIPConn,
starSessInProgDisc,
  -- Session
starSessMgrCount,
starSessTtlArrived,
starSessTtlRejected,
starSessTtlConnected,
starSessTtlAuthSucc,
starSessTtlAuthFail,
```

```
starSessTtlLCPUp,
starSessTtlIPCPUp,
starSessTtlSrcViol,
starSessTtlKeepFail,
    starSessTtlOctForwarded,
    starSessTtlRPRRegAccept,
    starSessTtlRPRRegAcceptInterPDSN,
    starSessCurrPPPSessions,
    starSessTtlTxBytes,
    starSessTtlRxBytes,
    starSessTtlSIPTxBytes,
    starSessTtlSIPRxBytes,
    starSessTtlMIPTxBytes,
    starSessTtlMIPRxBytes,
    starSessTtlOctForwardedGB,
starSessTtlOctForwardedRev1,
starSessTtlTxBytesRev1,
starSessTtlRxBytesRev1,
starSessTtlSIPTxBytesRev1,
starSessTtlSIPRxBytesRev1,
starSessTtlMIPTxBytesRev1,
starSessTtlMIPRxBytesRev1,
starSessTtlOctForwardedGBRev1,
-- AAA
starAAAMgrCount,
starAAATtlRequests,
starAAATtlAuthRequests,
starAAATtlAcctRequests,
starAAACurRequests,
starAAACurAuthRequests,
starAAACurAcctRequests,
starAAATtlAcctSess,
starAAACurAcctSess,
starAAATtlAuthSuccess,
starAAATtlAuthFailure,
-- A11
starA11MgrCount,
starA11TtlArrived,
starA11TtlRejected,
starA11TtlDemultiplexed,
starA11TtlDereg,
starA11CurActive,
-- HA
starHAMgrCount,
starHATtlArrived,
starHATtlRejected,
starHATtlDemultiplexed,
starHATtlDereg,
starHACurActive,
-- FA
starFAMgrCount,
starFATtlArrived,
starFATtlRejected,
starFATtlDemultiplexed,
starFATtlDereg,
starFACurActive,
-- Service Managers
starServiceVpnName,
starServiceServName,
    starServiceSubLimit,
    starServiceSubCurrent,
    starServiceType,
    starServiceFAlpAddr,
    starServiceHAlpAddr,
starSmartLicenseServiceName,
starSmartLicenseServiceUsage,
```

starSmartLicenseFeatureName,
starSmartLicenseFeatureUsage,
starSmartLicenseEvalModeRemaining,
starP2PPluginVersion,
starADCLicenseExpiryDate,
starSxInterfaceType,
starSxSelfAddr,
starSxPeerAddr,
starSxPeerNewRecTimeStamp,
starSxPeerOldRecTimeStamp,
starSxFailureCause,
starSxCPUPGroupName,
 -- CLI
 starCLITyname,
 starCLIPrivs,
 starCLIType,
starCLIRemotelpAddrType,
 starCLIRemotelpAddr,
 starCLIContext,
 -- Tasks
 starTaskFacilityName,
 starTaskCard,
 starTaskCPU,
 -- PPP Stats
 starPPPStatVpnName,
 starPPPStatServName,
 starPPPStatInit,
 starPPPStatReneg,
 starPPPStatSuccess,
 starPPPStatFailed,
 starPPPStatReleased,
 starPPPStatReleasedLocal,
 starPPPStatReleasedRemote,
 starPPPStatLcpFailMaxRetry,
 starPPPStatLcpFailOption,
 starPPPStatlpcpFailMaxRetry,
 starPPPStatlpcpFailOption,
 starPPPStatCcpFail,
 starPPPStatAuthFail,
 starPPPStatLcpEntered,
 starPPPStatAuthEntered,
 starPPPStatlpcpEntered,
 starPPPStatRenegPdsn,
 starPPPStatRenegMobil,
 starPPPStatRenegAddrMismatch,
 starPPPStatRenegOther,
 starPPPStatChapAuthAttempt,
 starPPPStatPapAuthAttempt,
 starPPPStatMSChapAuthAttempt,
 starPPPStatChapAuthFail,
 starPPPStatPapAuthFail,
 starPPPStatMSChapAuthFail,
 starPPPStatStacComp,
 starPPPStatMppcComp,
 starPPPStatDeflComp,
 starPPPStatFscErrs,
 starPPPStatUnknProto,
 starPPPStatBadAddr,
 starPPPStatBadCtrl,
 starPPPStatVjComp,
 starPPPStatDiscLcpRemote,
 starPPPStatDiscRpRemote,
 starPPPStatDiscAdmin,
 starPPPStatDiscIdleTimeout,
 starPPPStatDiscAbsTimeout,
 starPPPStatDiscPPPKeepalive,

starPPPStatDiscNoResource,
starPPPStatDiscMisc,
starPPPStatFailedReneg,
starPPPStatLcpFailUnknown,
starPPPStatLcpFailUnknown,
starPPPStatAuthAbort,
starPPPStatLowerLayerDisc,
starPPPStatLcpSuccess,
starPPPStatAuthSuccess,
starPPPStatRenegLowerLayerHandoff,
starPPPStatRenegParamUpdate,
starPPPStatChapAuthSuccess,
starPPPStatPapAuthSuccess,
starPPPStatMSChapAuthSuccess,
starPPPStatChapAuthAbort,
starPPPStatPapAuthAbort,
starPPPStatMSChapAuthAbort,
starPPPStatSessSkipAuth,
starPPPStatNegComp,
starPPPStatCCPNegFailComp,
starPPPStatDiscLocalLowerLayer,
starPPPStatDiscAddFlowFail,
starPPPStatDiscMaxRetriesLCP,
starPPPStatDiscMaxRetriesIPCP,
starPPPStatDiscMaxSetupTimer,
starPPPStatDiscInvalidDestVpn,
starPPPStatDiscOptNegFailLCP,
starPPPStatDiscOptNegFailIPCP,
starPPPStatDiscNoRemoteIpAddr,
starPPPStatDiscCallTypeDetectFail,
starPPPStatDiscRemoteDiscUpLayer,
starPPPStatDiscLongDuraTimeout,
starPPPStatDiscAuthFail,
starPPPStatLCPEchoTotalReq,
starPPPStatLCPEchoReqResent,
starPPPStatLCPEchoRepRecved,
starPPPStatLCPEchoReqTimeout,
starPPPStatRecvErrBadCtrlField,
starPPPStatRecvErrBadPacketLen,
starPPPStatRemoteTerm,
starPPPStatMiscFail,
-- MIPHA Stats
starMIPHASatVpnID,
starMIPHASatVpnName,
starMIPHASatServName,
starMIPHASatDisconnects,
starMIPHASatExpiry,
starMIPHASatDereg,
starMIPHASatAdminDrop,
starMIPHASatRegRecvTotal,
starMIPHASatRegRecvInitial,
starMIPHASatRegRecvRenew,
starMIPHASatRegRecvDereg,
starMIPHASatRegAcceptTotal,
starMIPHASatRegAcceptReg,
starMIPHASatRegAcceptRenew,
starMIPHASatRegAcceptDereg,
starMIPHASatRegDeniedTotal,
starMIPHASatRegDeniedInitial,
starMIPHASatRegDeniedRenew,
starMIPHASatRegDeniedDereg,
starMIPHASatRegReplyTotal,
starMIPHASatRegReplyAcceptReg,
starMIPHASatRegReplyAcceptDereg,
starMIPHASatRegReplyDenied,
starMIPHASatRegReplyBadReq,

starMIPHASStatRegReplyMismatchID,
starMIPHASStatRegReplyAdminProhib,
starMIPHASStatRegReplyUnspecErr,
starMIPHASStatRegReplyNoResource,
starMIPHASStatRegReplyMnAuthFail,
starMIPHASStatRegReplyFAAuthFail,
starMIPHASStatRegReplySimulBind,
starMIPHASStatRegReplyUnknownHA,
starMIPHASStatRegReplyRevTunUnav,
starMIPHASStatRegReplyRevTunMand,
starMIPHASStatRegReplyEncapUnav,
starMIPHASStatRegReplySendError,
 starMIPHASStatFARevocations,
 starMIPHASStatRegAcceptHO,
 starMIPHASStatRegDeniedHO,
 starMIPHASStatRegDiscardTotal,
-- MIPFA Stats
 starMIPFASStatVpnID,
starMIPFASStatVpnName,
starMIPFASStatServName,
starMIPFASStatAdvertSend,
starMIPFASStatDiscExpiry,
starMIPFASStatDiscDereg,
starMIPFASStatDiscAdmin,
starMIPFASStatAuthAttempt,
starMIPFASStatAuthSuccess,
starMIPFASStatAuthFailure,
starMIPFASStatRegRecvTotal,
starMIPFASStatRegRecvInitial,
starMIPFASStatRegRecvRenewal,
starMIPFASStatRegRecvDereg,
starMIPFASStatRegAcceptTotal,
starMIPFASStatRegAcceptInitial,
starMIPFASStatRegAcceptRenewal,
starMIPFASStatRegAcceptDereg,
starMIPFASStatRegDenTotal,
starMIPFASStatRegDenInitial,
starMIPFASStatRegDenRenewal,
starMIPFASStatRegDenDereg,
starMIPFASStatRegDiscardTotal,
starMIPFASStatRegDiscardInitial,
starMIPFASStatRegDiscardRenewal,
starMIPFASStatRegDiscardDereg,
starMIPFASStatRegRelayedTotal,
starMIPFASStatRegRelayedInitial,
starMIPFASStatRegRelayedRenewal,
starMIPFASStatRegRelayedDereg,
starMIPFASStatRegAuthFailTotal,
starMIPFASStatRegAuthFailInitial,
starMIPFASStatRegAuthFailRenewal,
starMIPFASStatRegAuthFailDereg,
starMIPFASStatRegDenPDSNTotal,
starMIPFASStatRegDenPDSNInitial,
starMIPFASStatRegDenPDSNRenewal,
starMIPFASStatRegDenPDSNDereg,
starMIPFASStatRegDenHATotal,
starMIPFASStatRegDenHAInitial,
starMIPFASStatRegDenHARenewal,
starMIPFASStatRegDenHADereg,
starMIPFASStatRegDenPDSNUnspec,
starMIPFASStatRegDenPDSNTimeout,
starMIPFASStatRegDenPDSNAdmin,
starMIPFASStatRegDenPDSNResources,
starMIPFASStatRegDenPDSNMnAuth,
starMIPFASStatRegDenPDSNHAAuth,
starMIPFASStatRegDenPDSNTooLong,

starMIPFASatRegDenPDSNBadReq,
starMIPFASatRegDenPDSNEncapUnav,
starMIPFASatRegDenPDSNRevTunUnav,
starMIPFASatRegDenPDSNRevTunMand,
starMIPFASatRegDenHAFAuth,
starMIPFASatRegDenHABadReq,
starMIPFASatRegDenHAMismatchID,
starMIPFASatRegDenHASimulBind,
starMIPFASatRegDenHAUnknownHA,
starMIPFASatRegDenHARevRunUnavail,
starMIPFASatRegRplRcvTotal,
starMIPFASatRegRplRcvTotalRly,
starMIPFASatRegRplRcvErrors,
starMIPFASatRegRplRcvInitial,
starMIPFASatRegRplRcvInitialRly,
starMIPFASatRegRplRcvRenewal,
starMIPFASatRegRplRcvRenewalRly,
starMIPFASatRegRplRcvDereg,
starMIPFASatRegRplRcvDeregRly,
starMIPFASatRegRplSentTotal,
starMIPFASatRegRplSentAcceptReg,
starMIPFASatRegRplSentAcceptDereg,
starMIPFASatRegRplSentBadReq,
starMIPFASatRegRplSentTooLong,
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starMIPFASatRegRplSentHAAuthFail,
starMIPFASatRegRplSentAdminProhib,
starMIPFASatRegRplSentNoResources,
starMIPFASatRegRplSentRevTunUnav,
starMIPFASatRegRplSentRevTunMand,
starMIPFASatRegRplSentSendErrors,
 starMIPFASatRegDenPDSNBadReply,
 starMIPFASatRegDenPDSNMissNAI,
 starMIPFASatRegDenPDSNMissHomeAgent,
 starMIPFASatRegDenPDSNMissHomeAddr,
 starMIPFASatRegDenPDSNUnknChallenge,
 starMIPFASatRegDenPDSNMissChallenge,
 starMIPFASatRegDenPDSNStaleChallenge,
 starMIPFASatRegDenPDSNMNTooDistant,
 starMIPFASatRegDenPDSNStyleUnavail,
 starMIPFASatRegDenPDSNHANetUnreach,
 starMIPFASatRegDenPDSNHAHostUnreach,
 starMIPFASatRegDenPDSNHAPortUnreach,
 starMIPFASatRegDenPDSNHAUnreach,
 starMIPFASatRegDenPDSNInvCOA,
 starMIPFASatRegReqSentInitTotal,
 starMIPFASatRegReqSentInitResend,
 starMIPFASatRegReqSentRenewTotal,
 starMIPFASatRegReqSentRenewResend,
 starMIPFASatRegReqSentDeregTotal,
 starMIPFASatRegReqSentDeregResend,
 starMIPFASatRegRplSentMNTooDistant,
 starMIPFASatRegRplSentInvCOA,
 starMIPFASatRegRplSentHANetUnreach,
 starMIPFASatRegRplSentHAHostUnreach,
 starMIPFASatRegRplSentHAPortUnreach,
 starMIPFASatRegRplSentHAUnreach,
 starMIPFASatRegRplSentRegTimeout,
 starMIPFASatRegRplSentMissNAI,
 starMIPFASatRegRplSentMissHomeAgent,
 starMIPFASatRegRplSentMissHomeAddr,
 starMIPFASatRegRplSentUnknChallenge,
 starMIPFASatRegRplSentMissChallenge,
 starMIPFASatRegRplSentStaleChallenge,
 starMIPFASatRegRplSentBadReply,
-- RP stats

starRPStatVpnID,
starRPStatVpnName,
starRPStatServName,
starRPRegRecvTotal,
starRPRegAcceptTotal,
starRPRegDeniedTotal,
starRPRegDiscardTotal,
starRPRegAcceptInitial,
starRPRegAcceptInterPDSN,
starRPRegDeniedInitial,
starRPRegAcceptRenew,
starRPRegDeniedRenew,
starRPRegAcceptDereg,
starRPRegDeniedDereg,
starRPRegSendError,
starRPRegHashError,
starRPRegDecodeError,
starRPRegUnhandled,
starRPRegAirlinkSeqError,
starRPRegDenyUnspec,
starRPRegDenyAdminProhib,
starRPRegDenyNoResource,
starRPRegDenyAuth,
starRPRegDenyMismatchID,
starRPRegDenyBadRequest,
starRPRegDenyUnknownPDSN,
starRPRegDenyRevTunUnav,
starRPRegDenyRevTunReq,
starRPRegDenyUnrecogVend,
starRPRegUpdTotal,
starRPRegUpdAccept,
starRPRegUpdDenied,
starRPRegUpdUnack,
starRPRegUpdTrans,
starRPRegUpdRetrans,
starRPRegUpdReceived,
starRPRegUpdDiscard,
starRPRegUpdSendError,
starRPRegUpdUplrylInit,
starRPRegUpdOther,
starRPRegUpdHandoff,
starRPRegUpdDenyUnspec,
starRPRegUpdDenyAdminProhib,
starRPRegUpdDenyAuth,
starRPRegUpdDenyMismatchID,
starRPRegUpdDenyBadRequest,
starRPRegViolations,
starRPRegBadAuth,
starRPRegBadID,
starRPRegBadSpi,
starRPRegMissingMnHAAuth,
starRPRegMissingRegUpdate,
starRPRegRecvInitial,
starRPRegAcceptActvStartIntraPDSN,
starRPRegAcceptActvStopIntraPDSN,
starRPRegRecvRenew,
starRPRegActvStartRenew,
starRPRegActvStopRenew,
starRPRegRecvDereg,
starRPRegAcceptActvStopDereg,
starRPDiscSessAbsent,
starRPDiscNoMemory,
starRPDiscMalformed,
starRPDiscAuthFail,
starRPDiscInternalBounce,
starRPDiscInpuQueueExceeded,

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    starRPDiscMismatchedId,
    starRPDisInvPacketLen,
    starRPDiscMisc,
starRP1xTxBytes,
starRP1xRxBytes,
starRP1xTxPackets,
starRP1xRxPackets,
starRPDoTxBytes,
starRPDoRxBytes,
starRPDoTxPackets,
starRPDoRxPackets,

    --
    starSubContext,
    starSubTimerDuration,
starSubLongDurTimeoutAction,
    starSubSetupTime,
    starSubHomeAddr,
    starSubHomeAddrv6,
    --
    starEISServerVPNName,
--
    starThreshMeasuredPct,
    starThreshPct,
starThreshMeasuredInt,
starThreshInt,
starThreshMeasuredMB,
starThreshMB,
    starThreshMeasuredGB,
    starThreshGB,
    -- Port
    starPortType,
    starPortTypeDescr,
    starPortAdminState,
    starPortOperState,
starPortOperMode,
    starPortLinkState,
    starRedundantPortSlot,
    starRedundantPortNum,
    starPortRxBytes,
    starPortTxBytes,
    starPortRxFrames,
    starPortTxFrames,
    starPortRxDiscards,
starPortTxDiscards,
starPortRxErrors,
starPortTxErrors,
-- IPPool
    starIPPoolVpnID,
    starIPPoolContext,
    starIPPoolGroup,
    starIPPoolName,
    starIPPoolType,
    starIPPoolState,
    starIPPoolStartAddr,
    starIPPoolMaskorEndAddr,
    starIPPoolPriority,
    starIPPoolUsed,
    starIPPoolHold,
    starIPPoolRelease,
    starIPPoolFree,
    -- IP Pool group
starIPPoolGroupName,
starIPPoolGroupVpnName,
starIPPoolGroupUsed,
starIPPoolGroupHold,
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starIPPoolGroupRelease,
starIPPoolGroupFree,
starIPPoolGroupPctUsed,
starIPPoolGroupAvail,
    starLicensedSessions,
starCurrentSessions,
    starDiameterVpnName,
    starDiameterPeerAddr,
    starDiameterEndpointName,
    starDiameterPeerName,
starDiameterRlfContext,
    starDiameterPeerAddrIpv6,
    starInterfaceIPAddress,
    starOSPFFNeighborRouterID,
    starOSPFFFromState,
    starOSPFToState,
    starDiameterECode,
    starDiameterRlfECode,
starDiameterRlfTps,
starDiameterRlfDelayTolerance,
starDiameterRlfQueuePercent,
starDiameterDiamproxyInstance,
    starGSSCDRLossConfigured,
    starGSSCDRLossMeasured,
    -- GGSN
starSessGGSNVpnName,
starSessGGSNServName,
starSessGGSNPeerPort,
starSessGGSNPeerAddr,
starSessGGSNimsi,
starSessGGSNSubsName,
starSessGGSNAPNName,
    starSessGTPPGroupName,
    -- L2TP
starL2TPContextName,
    starL2TPServiceName,
    starL2TPServiceTypeName,
    starL2TPLocalAddress,
    starL2TPPeerAddress,
    -- SUB1
starSessSub1Context,
starSessSub1NAI,
starSessSub1MSID,
starSessSub1IpAddr,
    starSessSub1LastResult,
starSessSub1ServiceName,
starSessSub1HAIpAddr,
starSessSub1PeerIpAddr,
starSessSub1InPackets,
starSessSub1InPacketsDropped,
starSessSub1InBytes,
starSessSub1OutPackets,
starSessSub1OutPacketsDropped,
starSessSub1OutBytes,
starSessSub1Activity,
starSessSub1State,
starSessSub1CallID,
starSessSub1ConnectTime,
starSessSub1CallDuration,
starSessSub1TimeIdle,
    starSessSub1AccessType,
    starSessSub1AccessTech,
    starSessSub1LinkStatus,
    starSessSub1NetworkType,
    starSessSub1CarrierID,
    starSessSub1ESN,
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starSessSub1GMTTimezoneOffset,
starSessSub1SessMgr,
starSessSub1RemoteIPAddr,
starSessSub1Card,
starSessSub1CPU,
starSessSub1TimeIdleLeft,
starSessSub1TimeLeft,
starSessSub1TimeLongDurLeft,
starSessSub1LongDurAction,
starSessSub1AlwaysOn,
starSessSub1IPPoolName,
starSessSub1VLANID,
starSessSub1LNSIPAddr,
starSessSub1ProxyMIP,
starSessSub1GGSNMIP,
starSessSub1HomeAgentIPAddr,
starSessSub1LocalIPAddr,
starSessSub1FAServiceName,
starSessSub1FAVPNName,
starSessSub1SourceVPN,
starSessSub1DestVPN,
starSessSub1AAAVPN,
starSessSub1AAADomain,
starSessSub1AAAStart,
starSessSub1AAAStop,
starSessSub1AAAInterim,
starSessSub1AcctSessionID,
starSessSub1AAARadiusGroup,
starSessSub1AAARadiusAuthServerIPAddr,
starSessSub1AAARadiusAcctServerIPAddr,
starSessSub1NASIPAddr,
starSessSub1NextHopIPAddr,
starSessSub1ActiveInACL,
starSessSub1ActiveOutACL,
starSessSub1ECSRulebase,
starSessSub1InPlyGrp,
starSessSub1OutPlyGrp,
starSessSub1DownTrafPolState,
starSessSub1DownCommDataRate,
starSessSub1DownPeakDataRate,
starSessSub1DownBurstSize,
starSessSub1DownExceedAction,
starSessSub1DownViolateAction,
starSessSub1DownExceed,
starSessSub1DownViolate,
starSessSub1UpTrafPolState,
starSessSub1UpCommDataRate,
starSessSub1UpPeakDataRate,
starSessSub1UpBurstSize,
starSessSub1UpExceedAction,
starSessSub1UpViolateAction,
starSessSub1UpExceed,
starSessSub1UpViolate,
starSessSub1L3TunnelingState,
starSessSub1L3TunLocalIPAddr,
starSessSub1L3TunRemoteIPAddr,
starSessSub1AddrViaDHCP,
starSessSub1DHCPServName,
starSessSub1DHCPServIPAddr,
starSessSub1AccessLinkIPFrag,
starSessSub1IgnoreDFBit,
starSessSub1MIPGratARPMMode,
starSessSub1ExtInISrvrProc,
starSessSub1ExtInISrvrIngrIPAddr,
starSessSub1ExtInISrvrIngrVLANTag,
starSessSub1ExtInISrvrEgrIPAddr,

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starSessSub1ExtInISrvrEgrVLANtag,
starSessSub1ExtInISrvrVPNNName,
starSessSub1RadAcctMode,
starSessSub1InBytesDropped,
starSessSub1OutBytesDropped,
starSessSub1PeakBPSTx,
starSessSub1PeakBPSRx,
starSessSub1AveBPSTx,
starSessSub1AveBPSRx,
starSessSub1SustBPSTx,
starSessSub1SustBPSRx,
starSessSub1PeakPPSTx,
starSessSub1PeakPPSRx,
starSessSub1AvePPSTx,
starSessSub1AvePPSRx,
starSessSub1SustPPSTx,
starSessSub1SustPPSRx,
starSessSub1ActivePct,
starSessSub1IPv4BadHdr,
starSessSub1IPv4TtlExceeded,
starSessSub1IPv4FragSent,
starSessSub1IPv4FragFail,
starSessSub1IPv4InACLDrop,
starSessSub1IPv4OutACLDrop,
starSessSub1IPv4InCSSDownDrop,
starSessSub1IPv4OutCSSDownDrop,
starSessSub1IPv4OutXOFFDropPkt,
starSessSub1IPv4OutXOFFDropByte,
starSessSub1IPv4SrcViol,
starSessSub1IPv4ProxyDNSRedir,
starSessSub1IPv4SrcProxyDNSPThru,
starSessSub1IPv4ProxyDNSDrop,
starSessSub1IPv4SrcViolNoAcct,
starSessSub1IPv4SrcViolIgnored,
starSessSub1ExtInISrvrTxPkt,
starSessSub1ExtInISrvrRxPkt,
starSessSub1IPv4ICMPDropPkt,
starSessSub1TunnelType,
starSessSub1IPSECTunDownDropPkt,
starSessSub1IPSECFLOWID,
starSessSub1DormancyTotal,
starSessSub1HandoffTotal,
starSessSub1AccessFlows,
starSessSub1TFT,
starSessSub1NASPort,
starSessSub1AcctSessionID,
starSessSub1CorrID,
starSessSub1L2TPPeerIPAddr,
starSessSub1IPv4EarlyPDURecv,
--
starIPSECContextName,
starIPSECGroupName,
starIPSECTunLocalIPAddr,
starIPSECTunRemoteIPAddr,
starIPSECPolicyName,
starIPSECDynPolicyType,
starIPSECDynPolicyPayloadType,
starIPSECLocalGateway,
starIPSECRemoteGateway,
-- SIPRoute
starSIPRouteVpnName,
starSIPRouteVmgName,
starSIPRouteAsName,
starSIPRouteDestPartyNum,
starSIPRouteReqNum,
-- SIPRouteServer

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starSIPRouteServerVpnName,
starSIPRouteServerVmgName,
starSIPRouteServerAsName,
starSIPRouteServerIpAddr,
    -- VIMService
starVIMServiceVpnName,
starVIMServiceFMDMaxCallRate,
    starVIMServiceFMDContinuousLoadCount,
    -- GSS
    starGSSClusterName,
    starGSSClusterNodeName,
    starGSSClusterRgName,
    starGSSClusterRsName,
    starGSSClusterNodeState,
    starGSSClusterPrevOnlineNode,
    starGSSClusterFromNode,
    starGSSClusterToNode,
    starGSSDiskPath,
    starGSSTransportPath,
    starGSSIPMPGroupName,
    starGSSInterfaceName,
-- RP Service Option
starRPServiceOptionCalls,
    -- PCF Status
    starPCFStatVpnName,
    starPCFStatRxPkts,
    starPCFStatTxPkts,
    starPCFStatRxBytes,
    starPCFStatTxBytes,
    starPCFStatTotalSessions,
    starPCFStatCurrentSessions,
    starPCFStatCurrentActiveSessions,
    starPCFStatCurrentDormantSessions,
    starPCFStatCurrentSIPConnected,
    starPCFStatCurrentMIPConnected,
    starPCFStatCurrentPMIPConnected,
    starPCFStatCurrentL2TPLACConnected,
    starPCFStatCurrentOtherConnected,
    -- PCF Service Stats
    starPCFVpnID,
starPCFVpnName,
    starPCFServName,
starPCFRrqRcvd,
starPCFRrqAccepted,
starPCFRrqDenied,
starPCFRrqDiscarded,
starPCFInitialRrqRcvd,
starPCFInitialRrqAccepted,
starPCFIntraPDSNActiveHORrqAccepted,
starPCFIntraPDSNDormantHORrqAccepted,
starPCFInterPDSNHORrqAccepted,
starPCFInitialRrqDenied,
starPCFInitialRrqDiscarded,
starPCFRenewRrqRcvd,
starPCFRenewRrqAccepted,
starPCFRenewActiveRrqAccepted,
starPCFRenewDormantRrqAccepted,
starPCFRenewRrqDenied,
starPCFRenewRrqDiscarded,
starPCFDeregRrqRcvd,
starPCFDeregRrqAccepted,
starPCFDeregDormantRrqAccepted,
starPCFDeregRrqDenied,
starPCFDeregRrqDiscarded,
starPCFIntraPDSNActiveAnidHORrqAccepted,
starPCFIntraPDSNDormantAnidHORrqAccepted,

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starPCFDeniedUnSpeReason,
starPCFDeniedAdmProh,
starPCFDeniedInsufResource,
starPCFDeniedMobNodeAuthFail,
starPCFDeniedIdentMismatch,
starPCFDeniedPoorFormedReq,
starPCFDeniedUnknownPDSNAddr,
starPCFDeniedRevTunnelUnavail,
starPCFDeniedRevTunnelRequire,
starPCFDeniedUnrecogVendorId,
starPCFDeniedSessionClosed,
starPCFDeniedBsnSessionInfoUnavail,
starPCFRegUpdTransmitted,
starPCFRegUpdAccepted,
starPCFRegUpdateRpLifetimeExpiry,
starPCFRegUpdateUpperLayerInitiated,
starPCFRegUpdateOtherReason,
starPCFRegUpdateHORElease,
starPCFRegUpdateSessmgrDied,
starPCFAuxA10ConnectionsSetup,
starPCFSessionsDenied,
starPCFSessionsInit,
starPCFSessionsReneg,
starPCFDiscLcpRemote,
starPCFDiscRpRemote,
starPCFDiscRpLocal,
starPCFDiscMaxIpcpRetr,
starPCFDiscMaxIpv6cpRetr,
starPCFDiscMaxLcpRetr,
starPCFDiscAuthFail,
starPCFDiscSessSetupTimeout,
starPCFDiscFlowAddFail,
starPCFDiscInVDestContext,
starPCFDiscLcpOptFail,
starPCFDiscIpcpOptFail,
starPCFDiscIpv6cpOptFail,
starPCFDiscNoRemIpAddr,
starPCFDiscDetectionFail,
starPCFDiscMisc,
starPCFCurrentSessions,
starPCFSessionsSetup,
starPCFSessionsRelease,
starPCFCurrentRevaSessions,
starPCFRevaSessionsSetup,
starPCFRevaSessionsRelease,
-- PDIF System
starPDIFSysStatus,
starPDIFSysNumService,
starPDIFSysSessCurrent,
starPDIFSysSessCurrActive,
starPDIFSysSessCurrDormant,
starPDIFSysSessTtlSetup,
starPDIFSysChildSACurrent,
-- PDIF Service
starPDIFVpnID,
starPDIFVpnName,
starPDIFServName,
starPDIFStatus,
starPDIFSessCurrent,
starPDIFSessRemain,
starPDIFSessCurrentActive ,
starPDIFSessCurrentDormant ,
starPDIFSessCurrentIpv6Active,
starPDIFSessCurrentIpv6Dormant,
starPDIFSessCurrentIpv4Active,
starPDIFSessCurrentIpv4Dormant,
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    starPDIFBindIpAddress,
    starPDIFBindIpPort,
    starPDIFBindSlot,
    starPDIFBindPort,
-- SGSN Service
    starSessSGSNVpnName,
    starSessSGSNServName,
    starSessSGSNMcc,
    starSessSGSNMnc,
    starSessSGSNRncl,
    starSessSGSNHlrNum,
-- SS7Rd
    starSS7Pc,
    starSS7M3UAPsId,
    starSS7M3UAPsPl,
    starSS7MTP3LinkSetId,
    starSS7MTP3LinkId,
    starSS7SCTPSelfAddr,
    starSS7SCTPPeerAddr,
    starSS7SCTPSelfPort,
    starSS7SCTPPeerPort,
--SCCPnw
    starSccpSsn,
--SGTPServ
    starSGTPVpnName,
    starSGTPServName,
    starSGTPSelfAddr,
    starSGTPPeerAddr,
    starSGTPSelfPort,
    starSGTPPeerPort,
--IPMS
    starIPMSServerVpnName,
--Certs
    starCertExpiryTime,
    starCertIssuer,
--Files
    starFileApplication,
--FTP Servers
    starFTPServVpnName,
---CSCF Peer Server
starCSCFPeerServerVpnName,
starCSCFPeerServerSvcName,
starCSCFPeerServerListName,
starCSCFPeerServerName,
    starCSCFPeerServerState,
-- SDH/E1
    starSDHOperState,
    starSDHPathOperState,
    starE1TribOperStateLOP,
    starE1TribOperState,
    starFractE1TribTimeslots,
--GPRSServ
starGPRSNsvci,
starGPRSBvci,
--Storage
    starStorageDeviceType,
-- PDG System
    starPDGSysStatus,
    starPDGSysNumService,
    starPDGSysSessCurrent,
    starPDGSysSessCurrActive,
    starPDGSysSessCurrDormant,
    starPDGSysSessTtlSetup,
    starPDGSysChildSACurrent,
-- PDG Service
    starPDGVpnID,

```

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starPDGVpnName,
starPDGServName,
starPDGStatus,
starPDGSessCurrent,
starPDGSessRemain,
starPDGSessCurrentActive ,
starPDGSessCurrentDormant ,
starPDGSessCurrentIpv6Active,
starPDGSessCurrentIpv6Dormant,
starPDGSessCurrentIpv4Active,
starPDGSessCurrentIpv4Dormant,
starPDGBindIpAddress,
starPDGBindIpPort,
starPDGBindSlot,
starPDGBindPort,
--EGTPServ
-- PDG System
starPDGSysStatus,
starPDGSysNumService,
starPDGSysSessCurrent,
starPDGSysSessCurrActive,
starPDGSysSessCurrDormant,
starPDGSysSessTtlSetup,
starPDGSysChildSACurrent,
-- PDG Service
starPDGVpnID,
starPDGVpnName,
starPDGServName,
starPDGStatus,
starPDGSessCurrent,
starPDGSessRemain,
starPDGSessCurrentActive ,
starPDGSessCurrentDormant ,
starPDGSessCurrentIpv6Active,
starPDGSessCurrentIpv6Dormant,
starPDGSessCurrentIpv4Active,
starPDGSessCurrentIpv4Dormant,
starPDGBindIpAddress,
starPDGBindIpPort,
starPDGBindSlot,
starPDGBindPort,
--EGTPServ
starEGTPVpnName,
starEGTPServName,
starEGTPInterfaceType,
starEGTPSelfPort,
starEGTPSelfAddr,
starEGTPPeerPort,
starEGTPPeerAddr,
starEGTPPeerOldRstCnt,
starEGTPPeerNewRstCnt,
starEGTPPeerSessCnt,
starEGTPPeerOldRstCnt,
starEGTPFailureReason,
starLicenseKey,
starLicenseExpiryDate,
starLicenseDaysRemaining,
starLicenseDaysAfterExpiry,
-- FNG System
starFNGSysStatus,
starFNGSysNumService,
starFNGSysSessCurrent,
starFNGSysSessCurrActive,
starFNGSysSessCurrDormant,
starFNGSysSessTtlSetup,
starFNGSysChildSACurrent,

```

```

-- FNG Service
starFNGVpnID,
starFNGVpnName,
starFNGServName,
starFNGStatus,
starFNGSessCurrent,
starFNGSessRemain,
starFNGSessCurrentActive ,
starFNGSessCurrentDormant ,
starFNGSessCurrentIpv6Active,
starFNGSessCurrentIpv6Dormant,
starFNGSessCurrentIpv4Active,
starFNGSessCurrentIpv4Dormant,
starFNGBindIpAddress,
starFNGBindIpPort,
starFNGBindSlot,
starFNGBindPort,
-- MME S1 Assoc
starMMES1AssocVpnName,
starMMES1AssocServName,
-- MME S1 Path
starMMES1PathVpnName,
starMMES1PathServName,
starMMES1PathSelfAddr,
starMMES1PathSelfPort,
starMMES1PathPeerAddr,
starMMES1PathPeerPort,
--SPR Server
starSPRServerIpAddr,
-- HNBGW Service
starSessHNBGWVpnName,
starSessHNBGWServName,
starSessHNBGWCSNwName,
starSessHNBGWPSNwName,
starSessHNBGWsgsnPtCd,
starSessHNBGWMscPtCd,
-- HENBGW Service
starHENBGWServiceVpnName,
starHENBGWServiceServName,
starHENBGWServiceLogicalENBId,
starHENBGWServiceMMEServName,
starHENBGWServicePeerAddr,
starHENBGWServicePeerPort,
starHENBGWServiceTLRI,
-- ALCAP Service
starSessALCAPVpnName,
starSessALCAPServName,
starSessALCAPAAL2NodeName,
starSessALCAPPathId,
-- MVG Service
starMVGEndpointName,
starMVGCauseCode,
starMVGProtocolType,
starPCCntfyIntfPeerName,
-- PMIP --
starPMIPVpnName,
starPMIPServName,
starPMIPSelfAddrType,
starPMIPSelfAddr,
starPMIPPeerAddrType,
starPMIPPeerAddr,
starPMIPPeerOldRstCnt,
starPMIPPeerNewRstCnt,
starPMIPPeerSessCnt,
starPMIPFailureReason,
-- CBS Service

```

```

starCBSServiceVpnName,
starLuBcSelfPortNum,
starLuBcSelfIpAddr,
starLuBcPeerPortNum,
starLuBcPeerIpAddr,
starLuBcTcpConnCauseStr,
-- RLF --
starGTPCRLFSSessMgrInst,
starGTPCRLFVPName,
starGTPCRLFVPNIId,
starGTPCRLFContextName,
starGTPCRLFCurrAppTPS,
starGTPCRLFCurrAppDelayTol,
-- PGW Service
starX3ContextId,
starX3srcIPAddr,
starX3srcPort,
starX3dstIPAddr,
starX3dstPort,
starX3ConnType,
starX3ConnCauseStr,
starDiameterEndPointContextName,
starDiameterEndPointId,
starDiameterPeerCauseType,
starSRPPeerVersion,
starSXPeerVersion,
starChassisState,
starSessMgrInstanceNumber,
starSessMgrCallCount,
starSessUnevenCallDistThrdStr,
starSgiReachabilityContextName,
starSgiReachabilityPgwIPAddr,
starSgiReachabilityApnName,
starSXSelfVersion,
starSRPPeerIpAddress,
starSRPSelfVersion,
starAHTAge
}

```

STATUS current

DESCRIPTION

"A collection of objects providing information about a chassis"

::= { starentMIBGroups 1 }

starAlertGroup OBJECT-GROUP

```

OBJECTS { starMaxAlertsPerTime,
          starWindowTime,
          starAlertSendingEnabled }

```

STATUS current

DESCRIPTION

"A collection of objects to control the rate at which traps can be generated"

::= { starentMIBGroups 3 }

starAlertTrapGroup NOTIFICATION-GROUP

```

NOTIFICATIONS { starAlertsDisabled,
                starAlertsEnabled }

```

STATUS current

DESCRIPTION

"A collection of traps related to trap thresholding"

::= { starentMIBGroups 4 }

starTrapGroup NOTIFICATION-GROUP

```

NOTIFICATIONS { starCardTempOverheat,
                starCardTempOK,
                starCardRebootRequest,
                starCardUp,
                starCardVoltageFailure,

```

- starCardRemoved,
- starCardInserted,
- starCardBootFailed,
- starCardMismatch,
- starCardPACMigrateStart,
- starCardPACMigrateComplete,
- starCardPACMigrateFailed,
- starCardSPCSwitchoverStart,
- starCardSPCSwitchoverComplete,
- starCardSPCSwitchoverFailed,
- starFanFailed,
- starFanRemoved,
- starFanInserted,
- starCPUBusy,
- starCPUMemoryLow,
- starCPUMemoryFailed,
- starCPUFailed,
- starCPUWatchDogExpired,
- starNPUARPPoolExhausted,
- starPowerFilterUnitFailed,
- starPowerFilterUnitUnavail,
- starPowerFilterUnitAvail,
- starAlertsDisabled,
- starAlertsEnabled,
- starAAAAAuthServerUnreachable,
- starAAAAAuthServerReachable,
- starAAAAAuthServerMisconfigured,
- starAAAAAccServerUnreachable,
- starAAAAAccServerReachable,
- starAAAAAccServerMisconfigured,
- starLogMsg,
- starPDSNServiceStart,
- starPDSNServiceStop,
- starHAServiceStart,
- starHAServiceStop,
- starFAServiceStart,
- starFAServiceStop,
- starCLISessionStart,
- starCLISessionEnd,
- starCritTaskFailed,
- starCardActive,
- starLACServiceStart,
- starLACServiceStop,
- starLNSServiceStart,
- starLNSServiceStop,
- starCardDown,
- starGGNSServiceStart,
- starGGNSServiceStop,
- starLicenseExceeded,
- starSubscriberLimit,
- starSessionRejectNoResource,
- starSIPServiceStart,
- starSIPServiceStop,
- starVIMServiceStart,
- starVIMServiceStop,
- starCHATCONFSERVICEStart,
- starCHATCONFSERVICEStop,
 - starSIPRouteNomatch,
 - starL3AddrUnreachable,
 - starSWUpgradeStart,
 - starSWUpgradeComplete,
 - starSWUpgradeAborted,
 - starBGPPeerSessionUp,
 - starBGPPeerSessionDown,
 - starSRPActive,
 - starSRPStandby,

starBGPPEerReachable,
starBGPPEerUnreachable,
starSRPAAAReachable,
starSRPAAAUreachable,
starSRPSwitchoverInitiated,
starSRPCheckpointFailure,
starSRPConfigOutOfSync,
starSRPConfigInSync,
starGESwitchFailure,
starSIPRouteServerAvailable,
starSIPRouteServerUnavailable,
starFMDMaxCallRateReached,
starFMDCallRateUnderControl,
starStorageServerCPUBusy,
starStorageServerCPUNormal,
starStorageServerDiskSpaceLow,
starStorageServerDiskSpaceOK,
starCardSPOFAlarm,
starCardSPOFClear,
starStorageServerOldGcdrPending,
starStorageServerOldGcdrCleared,
starLoginFailure,
starIPSGServiceStart,
starIPSGServiceStop,
starHAUnreachable,
starHAReachable,
starASNGWServiceStart,
starASNGWServiceStop,
starTaskFailed,
starTaskRestart,
starCSCFServiceStart,
starCSCFServiceStop,
starPHSGWServiceStart,
starPHSGWServiceStop,
starPHSPCServiceStart,
starPHSPCServiceStop,
starIPSECDynTunUp,
starIPSECDynTunDown,
starHeartbeat,
starOverloadSystem,
starOverloadSystemClear,
starOverloadService,
starOverloadServiceClear,
starStorageServerClusterStateChange,
starStorageServerClusSwitchOver,
starStorageServerClusPathFail,
starStorageServerClusPathOK,
starStorageServerClusInterCFail,
starStorageServerClusInterCOK,
starStorageServerClusIntfFail,
starStorageServerClusIntfOK,
starStorageServerMemLow,
starStorageServerMemNormal,
starLongDurTimerExpiry,
starClosedRPServiceStart,
starClosedRPServiceStop,
starGtpcPathFailure,
starGtptuPathFailure,
starManagerFailure,
starEISServerAlive,
starEISServerDead,
starCgfAlive,
starCgfDead,
starCdrPurged,
starAAAArchiveStarted,
starIPSecNodelpv6PeerDown,

- starIPSecNodelpv6PeerUp,
- starVLRAssocDown,
- starVLRAssocUp,
- starVLRAllAssocDown,
- starVLRAllAssocDownClear,
- starVLRDown,
- starVLRUp,
- starStorageServerAlive,
- starStorageServerDead,
- starGgsnInitiatedUpdtFailed,
 - starCongestion,
 - starCongestionClear,
 - starCscfSessResourceCongestion,
 - starCscfSessResourceCongestionClear,
 - starServiceLossPTACs,
 - starServiceLossLC,
 - starServiceLossSPIO,
 - starIPSPAllAdrsFree,
 - starPCFUnreachable,
- starPCFReachable,
- starLIRcvryError,
- starLIRcvryComplete,
- starCGWServiceStart,
- starCGWServiceStop,
- starDhcpAlive,
- starDhcpDead,
 - starDhcpServiceStarted,
 - starDhcpServiceStopped,
- starNTPPeerUnreachable,
- starNTPSyncLost,
- starL2TPTunnelDownPeerUnreachable,
- starCardStandby,
- starLicenseUnderLimit,
- starIPSECPriTunDown,
- starIPSECPriTunUp,
- starIPSECSecTunDown,
- starIPSECSecTunUp,
- starIPSECTunSwitchFail,
- starIPSECTunSwitchComplete,
- starNwReachServerAlive,
- starNwReachServerDead,
- starStorageServerUnackedGcdrVolPurge,
- starStorageServerUnackedGcdrFileGen,
 - starNTPPeerReachable,
 - starNTPSyncEstablished,
- starContFiltDBError,
- starContFiltDBErrorClear,
- starBLDBError,
- starBLDBErrorClear,
- starContFiltDBUpgradeError,
- starContFiltDBUpgradeErrorClear,
- starBLDBUpgradeError,
- starBLDBUpgradeErrorClear,
- starDynPkgLoadError,
- starDynPkgLoadErrorClear,
- starDynPkgUpgradeError,
- starDynPkgUpgradeErrorClear,
 - starPDIFServiceStart,
- starPDIFServiceStop,
- starSessMgrRecoveryComplete,
- starSessMgrFlowCount,
- starSessMgrFlowCountClear,
- starDiameterPeerDown,
- starDiameterPeerUp,
- starDiameterServerUnreachable,
- starDiameterServerReachable,

starDiameterCapabilitiesExchangeSuccess,
starDiameterCapabilitiesExchangeFailure,
starDiameterRIfThresholdOver,
starDiameterRIfThresholdGood,
starDiameterRIfOverLimit,
starCDRFileRemoved,
starCSCFPeerServerReachable,
starCSCFPeerServerUnreachable,
starCSCFPeerServerUnavailable,
starCSCFPeerServerOutOfService,
starCSCFPeerServerInService,
starCLIConfigMode,
starSGSNServiceStart,
starSGSNServiceStop,
starM3UAPCUnavailable,
starM3UAPCAvailable,
starECSTotalDNSLearntIPv4Threshold,
starECSTotalDNSLearntIPv4ThresholdClear,
starECSTotalDNSLearntIPv6Threshold,
starECSTotalDNSLearntIPv6ThresholdClear,
starM3UAPSDown,
starM3UAPSActive,
starM3UAPSPDown,
starM3UAPSPUp,
starSCCPSpRcvd,
starSCCPSpClear,
starSGSNRRNCReset,
starSGSNHLRReset,
starSGSNGtpcPathFailure,
starSGSNGtpcPathFailureClear,
starSGSNGtpuPathFailure,
starSGSNGtpuPathFailureClear,
starMTP3LinkOutOfService,
starMTP3LinkInService,
starMTP3LinkSetUnavailable,
starMTP3LinkSetAvailable,
starSCTPAssociationFail,
starSCTPAssociationEstablished,
starSCTPPathDown,
starSCTPPathUp,
starMTP3PCUnavailable,
starMTP3PCAvailable,
starSS7PCUnavailable,
starSS7PCAvailable,
starSS7PCCongested,
starSS7PCCongestionCleared,
starM3UAPSPCongested,
starM3UAPSPCongestionCleared,
starStorageFailed,
starRaidFailed,
starRaidStarted,
starRaidDegraded,
starRaidRecovered,
starHENBGWMMESCTPAssocDown,
starHENBGWMMESCTPAssocUp,
starHENBGWMMESCTPAllAssocDown,
starHENBGWMMESCTPAllAssocDownClear,
starECSreaddressServerDown,
starECSreaddressServerUp,
starStorageFound,
starStorageNotFound,
starThreshCPUUtilization,
starThreshClearCPUUtilization,
starThreshCPUMemory,
starThreshClearCPUMemory,
starThreshCPUCryptoCoresUtilization,

starThreshClearCPUCryptoCoresUtilization,
starThreshLicense,
starThreshClearLicense,
starThreshSubscriberTotal,
starThreshClearSubscriberTotal,
starThreshSubscriberActive,
starThreshClearSubscriberActive,
starThreshPortRxUtil,
starThreshClearPortRxUtil,
starThreshPortTxUtil,
starThreshClearPortTxUtil,
starThreshPortHighActivity,
starThreshClearPortHighActivity,
starThreshAAAAAuthFail,
starThreshClearAAAAAuthFail,
starThreshAAAAAuthFailRate,
starThreshClearAAAAAuthFailRate,
starThreshAAAAcctFail,
starThreshClearAAAAcctFail,
starThreshAAAAcctFailRate,
starThreshClearAAAAcctFailRate,
starThreshAAAARetryRate,
starThreshClearAAAARetryRate,
starThreshCallSetup,
starThreshClearCallSetup,
starThreshCallSetupFailure,
starThreshClearCallSetupFailure,
starThreshCallRejectNoResource,
starThreshClearCallRejectNoResource,
starThreshPacketsFilteredDropped,
starThreshClearPacketsFilteredDropped,
starThreshPacketsForwarded,
starThreshClearPacketsForwarded,
starThreshSessCPUThroughput,
starThreshClearSessCPUThroughput,
starThreshIPPoolAvail,
starThreshClearIPPoolAvail,
starThreshCPUUtilization10Sec,
starThreshClearCPUUtilization10Sec,
starThreshCPULoad,
starThreshClearCPULoad,
starThreshCPUMemUsage,
starThreshClearCPUMemUsage,
starThreshPDSNSessions,
starThreshClearPDSNSessions,
starThreshGGSNSessions,
starThreshClearGGSNSessions,
starThreshHASessions,
starThreshClearHASessions,
starThreshLNSSessions,
starThreshClearLNSSessions,
starThreshPerServicePDSNSessions,
starThreshClearPerServicePDSNSessions,
starThreshPerServicePDGSessions,
starThreshClearPerServicePDGSessions,
starThreshPerServiceGGSNSessions,
starThreshClearPerServiceGGSNSessions,
starThreshPerServiceHASessions,
starThreshClearPerServiceHASessions,
starThreshPerServiceLNSSessions,
starThreshClearPerServiceLNSSessions,
starThreshIPPoolHold,
starThreshClearIPPoolHold,
starThreshIPPoolUsed,
starThreshClearIPPoolUsed,
starThreshIPPoolRelease,

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starThreshClearIPPoolRelease,
starThreshIPPoolFree,
starThreshClearIPPoolFree,
starThreshAAAAacctArchive,
starThreshClearAAAAacctArchive,
    starThreshPortSpecRxUtil,
    starThreshClearPortSpecRxUtil,
    starThreshPortSpecTxUtil,
    starThreshClearPortSpecTxUtil,
starThreshHACallSetupRate,
starThreshClearHACallSetupRate,
starThreshHASvcCallSetupRate,
starThreshClearHASvcCallSetupRate,
starThreshHASvcRegReplyError,
starThreshClearHASvcRegReplyError,
starThreshHASvcReregReplyError,
starThreshClearHASvcReregReplyError,
starThreshHASvcDeregReplyError,
starThreshClearHASvcDeregReplyError,
starThreshFASvcRegReplyError,
starThreshClearFASvcRegReplyError,
starThreshPDSNCallSetupRate,
starThreshClearPDSNCallSetupRate,
starThreshPDSNSvcCallSetupRate,
starThreshClearPDSNSvcCallSetupRate,
starThreshPDSNSvcA11RRPFailure,
starThreshClearPDSNSvcA11RRPFailure,
starThreshPDSNSvcA11RRQMsgDiscard,
starThreshClearPDSNSvcA11RRQMsgDiscard,
starThreshPDSNSvcA11RACMsgDiscard,
starThreshClearPDSNSvcA11RACMsgDiscard,
starThreshPDSNSvcA11PPPSendDiscard,
starThreshClearPDSNSvcA11PPPSendDiscard,
    starThreshAAAMgrQueue,
    starThreshClearAAAMgrQueue,
starThreshAAAAacctArchiveQueue1,
starThreshClearAAAAacctArchiveQueue1,
starThreshAAAAacctArchiveQueue2,
starThreshClearAAAAacctArchiveQueue2,
starThreshAAAAacctArchiveQueue3,
starThreshClearAAAAacctArchiveQueue3,
starThreshDnsLookupSrvFailure,
starThreshClearDnsLookupSrvFailure,
    starThreshCPUOrbsWarn,
    starThreshClearCPUOrbsWarn,
    starThreshCPUOrbsCritical,
    starThreshClearCPUOrbsCritical,
    starThreshRPSetupFailRate,
    starThreshClearRPSetupFailRate,
    starThreshPPPSetupFailRate,
    starThreshClearPPPSetupFailRate,
    starThreshStorageUtilization,
    starThreshClearStorageUtilization,
    starThreshDCCAProtocolErrors,
    starThreshClearDCCAProtocolErrors,
    starThreshDCCABadAnswers,
    starThreshClearDCCABadAnswers,
    starThreshDCCAUnknownRatingGroup,
    starThreshClearDCCAUnknownRatingGroup,
    starThreshDCCARatingFailed,
    starThreshClearDCCARatingFailed,
    starThreshIPSECIKERequests,
    starThreshClearIPSECIKERequests,
    starThreshIPSECIKEFailures,
    starThreshClearIPSECIKEFailures,
    starThreshIPSECIKEFailRate,
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starThreshClearIPSECIKEFailRate,
starThreshIPSECTunSetup,
starThreshClearIPSECTunSetup,
starThreshIPSECTunEstabl,
starThreshClearIPSECTunEstabl,
starThreshIPSECCallReqRej,
starThreshClearIPSECCallReqRej,
starThreshEPDGIKEV2SetupAttempts,
starThreshClearEPDGIKEV2SetupAttempts,
starThreshEPDGIKEV2AuthFailures,
starThreshClearEPDGIKEV2AuthFailures,
starThreshEPDGIKEV2SetupSuccess,
starThreshClearEPDGIKEV2SetupSuccess,
starThreshEPDGIKEV2SetupFailure,
starThreshClearEPDGIKEV2SetupFailure,
starThreshEPDGIKEV2SetupFailureRate,
starThreshClearEPDGIKEV2SetupFailureRate,
starThreshCSCFSvcRouteFailure,
starThreshClearCSCFSvcRouteFailure,
starThreshCSCFSvcRegRcvdRate,
starThreshClearCSCFSvcRegRcvdRate,
starThreshCSCFSvcTotalActiveReg,
starThreshClearCSCFSvcTotalActiveReg,
starThreshCSCFSvcInviteRcvdRate,
starThreshClearCSCFSvcInviteRcvdRate,
starThreshCSCFSvcTotalActiveCalls,
starThreshClearCSCFSvcTotalActiveCalls,
starThreshCSCFSvcTotalCallFailure,
starThreshClearCSCFSvcTotalCallFailure,
starThreshCSCFSvcErrorNoResource,
starThreshClearCSCFSvcErrorNoResource,
starThreshCSCFSvcErrorTcp,
starThreshClearCSCFSvcErrorTcp,
starThreshCSCFSvcErrorPresence,
starThreshClearCSCFSvcErrorPresence,
starThreshCSCFSvcErrorRegAuth,
starThreshClearCSCFSvcErrorRegAuth,
starThreshContFiltRating,
starThreshClearContFiltRating,
starThreshContFiltBlock,
starThreshClearContFiltBlock,
starThreshCDRFileSpace,
starThreshClearCDRFileSpace,
starThreshEDRFileSpace,
starThreshClearEDRFileSpace,
starThreshPDIFCurrSess,
starThreshClearPDIFCurrSess,
starThreshPDIFCurrActSess,
starThreshClearPDIFCurrActSess,
starThreshCDRFlowControl,
starThreshSGSNSessions,
starThreshClearSGSNSessions,
starThreshPerServiceSGSNSessions,
starThreshClearPerServiceSGSNSessions,
starThreshSGSNPdpSessions,
starThreshClearSGSNPdpSessions,
starThreshPerServiceSGSNPdpSessions,
starThreshClearPerServiceSGSNPdpSessions,
starThreshClearCDRFlowControl,
starThreshASNGWSessTimeout,
starThreshClearASNGWSessTimeout,
starThreshASNGWSessSetupTimeout,
starThreshClearASNGWSessSetupTimeout,
starThreshASNGWAuthFail,
starThreshClearASNGWAuthFail,
starThreshASNGWMaxEAPRetry,

- starThreshClearASNGWMaxEAPRetry,
- starThreshASNGWNWEntryDenial,
- starThreshClearASNGWNWEntryDenial,
- starThreshASNGWHandoffDenial,
- starThreshClearASNGWHandoffDenial,
- starThreshPHSGWSessTimeout,
- starThreshClearPHSGWSessTimeout,
- starThreshPHSGWSessSetupTimeout,
- starThreshClearPHSGWSessSetupTimeout,
- starThreshPHSGWAuthFail,
- starThreshClearPHSGWAuthFail,
- starThreshPHSGWMaxEAPRetry,
- starThreshClearPHSGWMaxEAPRetry,
- starThreshPHSGWNWEntryDenial,
- starThreshClearPHSGWNWEntryDenial,
- starThreshPHSGWHandoffDenial,
- starThreshClearPHSGWHandoffDenial,
- starThreshASNGWSessions,
 - starThreshClearASNGWSessions,
 - starThreshPerServiceASNGWSessions,
 - starThreshClearPerServiceASNGWSessions,
- starThreshPHSPCSessSetupTimeout,
- starThreshClearPHSPCSessSetupTimeout,
- starThreshPHSPCSleepModeTimeout,
- starThreshClearPHSPCSleepModeTimeout,
- starThreshPHSPCSmEntryDenial,
- starThreshClearPHSPCSmEntryDenial,
- starThreshSGWSessions,
 - starThreshClearSGWSessions,
- starThreshPGWSessions,
 - starThreshClearPGWSessions,
 - starThreshLMASessions,
- starThreshClearLMASessions,
 - starThreshMAGSessions,
 - starThreshClearMAGSessions,
 - starThreshHSGWSessions,
 - starThreshClearHSGWSessions,
- starThreshHENBGWHenbSessions,
 - starThreshClearHENBGWHenbSessions,
- starThreshHENBGWUeSessions,
 - starThreshClearHENBGWUeSessions,
 - starThreshHENBGWPagingMessages,
 - starThreshClearHENBGWPagingMessages,
- starThreshPHSGWEAPOLAuthFailure,
- starThreshClearPHSGWEAPOLAuthFailure,
- starThreshPHSGWMaxEAPOLRetry,
- starThreshClearPHSGWMaxEAPOLRetry,
 - starThreshFWDosAttack,
 - starThreshClearFWDosAttack,
 - starThreshFWDropPacket,
 - starThreshClearFWDropPacket,
 - starThreshFWDenyRule,
 - starThreshClearFWDenyRule,
 - starThreshFWNoRule,
 - starThreshClearFWNoRule,
 - starSRPConnDown,
 - starSRPConnUp,
 - starThreshNATPortChunks,
- starThreshClearNATPortChunks,
 - starThreshClearFWDosAttack,
 - starThreshFWDropPacket,
 - starThreshClearFWDropPacket,
 - starThreshGPRSSessions,
 - starThreshClearGPRSSessions,
 - starThreshPerServiceGPRSSessions,
 - starThreshClearPerServiceGPRSSessions,

starThreshGPRSPdpSessions,
starThreshClearGPRSPdpSessions,
starThreshPerServiceGPRSPdpSessions,
starThreshClearPerServiceGPRSPdpSessions,
starThreshFWDenyRule,
starThreshClearFWDenyRule,
starThreshFWNoRule,
starThreshClearFWNoRule,
starThreshBGPRoutes,
starThreshClearBGPRoutes,
starThreshNPUUtilization,
starThreshClearNPUUtilization,
starThreshEPDGCurrSess,
starThreshClearEPDGCurrSess,
starSRPConnDown,
starSRPConnUp,
starPortDown,
starPortUp,
starOSPFNeighborDown,
starOSPFNeighborFull,
starBSReachable,
starBSUnreachable,
starSystemStartup,
starASNPCServiceStart,
starASNPCServiceStop,
starDiameterIpv6PeerDown,
starDiameterIpv6PeerUp,
starIPMServerUnreachable,
starIPMServerReachable,
starCertShortLifetime,
starCertExpired,
starCertValid,
starFTPPushFail,
starFTPServSwitch,
starSDHSectionDown,
starSDHSectionUp,
starSDHPathHopDown,
starSDHPathHopUp,
starSDHLopDown,
starSDHLopUp,
starSDHE1TribDown,
starSDHE1TribUp,
starSDHFractE1LMIDown,
starSDHFractE1LMIUp,
starGPRSServiceStart,
starGPRSServiceStop,
starGPRSNseDown,
starGPRSNseUp,
starGPRNSvcDown,
starGPRNSvcUp,
starGPRSBvcDown,
starGPRSBvcUp,
starPDGServiceStart,
starPDGServiceStop,
starThreshPDGCurrSess,
starThreshClearPDGCurrSess,
starThreshPDGCurrActSess,
starThreshClearPDGCurrActSess,
starPGWServiceStart,
starPGWServiceStop,
starSGWServiceStart,
starSGWServiceStop,
starEGTPServiceStart,
starEGTPServiceStop,
starLMAServiceStart,
starLMAServiceStop,

```
    starMAGServiceStart,
    starMAGServiceStop,
    starMMEServiceStart,
    starMMEServiceStop,
    starHSGWServiceStart,
    starHSGWServiceStop,
starCPUBusyClear,
starCPUMemoryLowClear,
starManagerRestart,
starConfigurationUpdate,
    starFNGServiceStart,
    starFNGServiceStop,
    starThreshFNGCurrSess,
    starThreshClearFNGCurrSess,
        starThreshFNGCurrActSess,
        starThreshClearFNGCurrActSess,
        starEgtpcPathFailure,
        starEgtpcPathFailureClear,
        starEgtpuPathFailure,
        starEgtpuPathFailureClear,
        starServiceLossSPIOClear,
starHNBGWServiceStart,
starHNBGWServiceStop,
starSystemReboot,
starServiceLossPTACsClear,
starServiceLossLCClear,
starOSPFv3NeighborDown,
starOSPFv3NeighborFull,
starLicenseAboutToExpire,
starLicenseExpired,
starStorageServerCDRLoss,
starPCCPolicyServiceStart,
starPCCPolicyServiceStop,
starPCCQuotaServiceStart,
starPCCQuotaServiceStop,
starPCCAFServiceStart,
starPCCAFServiceStop,
starThreshPCCPolicySessions,
starThreshClearPCCPolicySessions,
starThreshPerServicePCCPolicySessions,
starThreshClearPerServicePCCPolicySessions,
starThreshPCCQuotaSessions,
starThreshClearPCCQuotaSessions,
starThreshPerServicePCCQuotaSessions,
starThreshClearPerServicePCCQuotaSessions,
starThreshPCCAFSessions,
starThreshClearPCCAFSessions,
starThreshPerServicePCCAFSessions,
starThreshClearPerServicePCCAFSessions,
starSPRServerUnreachable,
starSPRServerReachable,
starGSServiceStart,
starGSServiceStop,
starMAPServiceStart,
starMAPServiceStop,
starIUPSServiceStart,
starIUPSServiceStop,
starSGTPServiceStart,
starSGTPServiceStop,
    starEPDGServiceStart,
    starEPDGServiceStop,
    starSxServiceStart,
    starSxServiceStop,
    starUplaneServiceStart,
    starUplaneServiceStop,
starApsCommandSuccess,
```


starApsCommandFailure,
starApsSwitchSuccess,
starApsSwitchFailure,
starApsModeMismatch,
starApsChannelMismatch,
starApsByteMismatch,
starApsFeProtLineFailure,
starApsLossOfRedundancy,
starApsLossOfRedundancyClear,
 starSGSServiceStart,
 starSGSServiceStop,
 starSgsnGnMsgDelay,
starSgsnGnMsgDelayClear,
 starBNGServiceStart,
 starBNGServiceStop,
 starHenbgwAccessServiceStart,
 starHenbgwAccessServiceStop,
 starHenbgwNetworkServiceStart,
 starHenbgwNetworkServiceStop,
 starThreshDnsLookupFailure,
 starThreshClearDnsLookupFailure,
 starThreshDiameterRetryRate,
 starThreshClearDiameterRetryRate,
 starMMES1AssocFail,
 starMMES1AssocSetup,
 starMMES1PathFail,
 starMMES1PathSetup,
 starHNBGWSGSNRanapReset,
 starHNBGWMSCRanapReset,
 starALCAPNodeReset,
 starALCAPPPathReset,
 starALCAPPPathBlock,
 starALCAPPPathUnBlock,
 starThreshHNBGWHnbSess,
 starThreshClearHNBGWHnbSess,
 starThreshHNBGWUeSess,
 starThreshClearHNBGWUeSess,
 starThreshHNBGWluSess,
 starThreshClearHNBGWluSess,
starMVGPeerDown,
starMVGPeerUp,
 starThreshSystemCapacity,
 starThreshClearSystemCapacity,
starThreshClearHNBGWluSess,
starThreshTpoRtoTimeout,
starThreshClearTpoRtoTimeout,
starThreshTpoDnsFailure,
starThreshClearTpoDnsFailure,
starThreshTpoLowCompressionGain,
starThreshClearTpoLowCompressionGain,
starSGSNRNCNoResetAck,
starThreshSAEGWSessions,
starThreshClearSAEGWSessions,
starPCCntfyIntfPeerUnreachable,
starPCCntfyIntfPeerReachable,
starIPSecNodePeerDown,
starIPSecNodePeerUp,
starThreshCardTemperatureNearPowerOffLimit,
starThreshClearCardTemperaturePowerOffLimit,
starEnhancedCongestion,
starEnhancedCongestionClear,
starChassisCrashListFull,
starChassisStartupTimeout,
starSessMgrCSCFServiceRecoveryComplete,
starNPDBConnectionDown,
starNPDBConnectionUp,

starCdrHDDStart,
starCdrStreamingStart,
starCdrStreamingComplete,
starMMENewConnectionsDisallowed,
starMMENewConnectionsAllowed,
starSAMOGServiceStart,
starSAMOGServiceStop,
starCardSwitchoverStart,
starCardSwitchoverComplete,
starCardSwitchoverFailed,
starCardMigrateStart,
starCardMigrateComplete,
starCardMigrateFailed,
starPMIPPathFailure,
starPMIPPathFailureClear,
 starHENBGWMMESCTPAssocDestAddrDown,
starHENBGWMMESCTPAssocDestAddrUp,
 starMRMIServiceStart,
 starMRMIServiceStop,
 starThreshPerServiceSAMOGSessions,
 starThreshClearPerServiceSAMOGSessions,
 starSLSServiceStart,
 starSLSServiceStop,
starESMLCAssocDown,
starESMLCAssocUp,
starESMLCAIAssocDown,
 starESMLCAIAssocDownClear,
 starSBCServiceStart,
 starSBCServiceStop,
starCBCAssocDown,
starCBCAssocUp,
starCBCBufSizeExceeded,
starBFDSessUp,
starBFDSessDown,
starThreshFabricEGQDiscards,
 starThreshNATPktDrop,
 starThreshClearNATPktDrop,
starThreshClearFabricEGQDiscards,
starHENBGWMMEOverloadStart,
 starHENBGWMMEOverloadStop,
 starBGPPeerSessionIPv6Up,
 starBGPPeerSessionIPv6Down,
starMMEEMBMSServiceStart,
 starMMEEMBMSServiceStop,
starMCEAssocDown,
 starMCEAssocUp,
starluBcTcpConnDown,
starluBcTcpConnUp,
 starGILANServiceStart,
 starGILANServiceStop,
starGTPCRLFOverThreshold,
starGTPCRLFOverLimit,
starGTPCRLFOverThresholdClear,
starGTPCRLFOverLimitClear,
 starIFTaskHealthFailure,
 starNeedADCLicense,
 starNeedADCLicenseClear,
 starADCLicenseAboutToExpire,
starADCLicenseExpired,
starSxPathFailure,
starSxPathFailureClear,
starUPlaneSelfOverload,
starUPlaneSelfOverloadClear,
starUPlaneTsServiceChainPathNotSelected,
starUPlaneTsServiceChainUp,
starUPlaneTsServiceChainDown,

```

starUPlaneTsMissConfiguration,
starChassisThroughputOver,
starChassisThroughputOverClear,
starChassisThroughputWarn,
starChassisThroughputWarnClear,
starIFTaskBootConfigApplied,
starServiceLossDetected,
starMMEManagerBusy,
starMMEManagerNormal,
starCFGSyncForUPlaneRedundancyAbort,
starMonSubProcessInitFailure,
starMonSubPcapWriteFailure,
starMonSubProcessConnectFailure,
starBulkStatisticsTaiTimeOut,
starX3MDConnDown,
starX3MDConnUp,
    starDiameterEndPointPriorityPeersUnAvailable,
starDiameterEndPointPriorityPeersAvailable,
starDiameterEndPointNonPriorityPeersUnAvailable,
starDiameterEndPointNonPriorityPeersAvailable,
starSxPeerUnsupportedVersion,
starSxPeerUnsupportedVersionClear,
starSRPPeerUnsupportedVersion,
starSRPPeerUnsupportedVersionClear,
sessionUnevenDistribution,
sessionUnevenDistributionClear,
starSgiReachabilityAPNDown,
starSgiReachabilityAPNUp,
starRMDemuxUnavailable,
starRMDemuxUnavailableClear,
starUserPasswordExpiryInd,
starSessMgrAAAMgrGrStateUpdateFailure,
starSxMonitorDown,
starSxMonitorUp,
starS8HRLMISFSigConfNotFound,
starPreThreshIPPoolUsable,
starPreThreshClearIPPoolUsable,
starFinalThreshIPPoolUsable,
starFinalThreshClearIPPoolUsable,
starUPFOverload,
starUPFOverloadClear,
starUPFSelfProtectionMode,
starUPFSelfProtectionModeClear,
}

```

STATUS current

DESCRIPTION

"A collection of objects which represent required notifications."

::= { starentMIBGroups 5 }

starTrapObsoleteGroup NOTIFICATION-GROUP

```

NOTIFICATIONS { starCardReset,
    starCardFailed,
    starCardRCCFailed,
    starCardSWFailed,
    starCardFailureLEDOn,
    starCardFailureLEDOff,
    starLogThreshold,
    starThreshASNGWR6InvNai,
    starThreshClearASNGWR6InvNai
}

```

STATUS obsolete

DESCRIPTION

"A collection of objects which represent obsolete notifications."

::= { starentMIBGroups 6 }

starChassisObsoleteGroup OBJECT-GROUP

```
OBJECTS { starRPRRegAcceptIntraPDSN,
  starSlotVoltage1dot5,
  starSlotVoltage1dot5LowThresh,
  starSlotVoltage1dot5HighThresh,
  starSlotVoltage1dot8,
  starSlotVoltage1dot8LowThresh,
  starSlotVoltage1dot8HighThresh,
  starSlotVoltage2dot5,
  starSlotVoltage2dot5LowThresh,
  starSlotVoltage2dot5HighThresh,
  starSlotVoltage3dot3,
  starSlotVoltage3dot3LowThresh,
  starSlotVoltage3dot3HighThresh,
  starSlotVoltage5dot0,
  starSlotVoltage5dot0LowThresh,
  starSlotVoltage5dot0HighThresh
}
STATUS obsolete
DESCRIPTION
  "A collection of objects which are obsolete."
::= { starentMIBGroups 7 }
```

END

IETF and Cisco MIBs

This section is for Administrators working with integrating the Starent MIB and the Cisco MIB so Cisco management applications can manage the ASR 5x00 chassis. It provides some new configuration options; there is also a list of supported Cisco MIBs.

New CLI Options

The following are new CLI options:

sysOld Options

The default Old string is 1.3.6.1.4.1.8164.

The new-style Cisco Old string is 1.3.6.1.4.1.9.

Using the following CLI, ASR 5000 users can choose which string they prefer:

```
[local]asr5000 (config) # system sysoid-style new|default
```



Important: ASR 5500 users do not have this option as the Cisco Old String is the default.



Important: This command can be combined with *sysDesc* as follows: `system sysdesc-sysoid-style new|default`. However, this combination affects BOTH *sysDesc* AND *sysOld* equally: that is, they can both be old-style or they can both be new-style. The System CLI offers an option to configure *sysDesc* independently, but *SysOld* is not a user-configurable parameter.

sysDesc Options

For ASR 5000 users, the default system description is:

```
Linux asr5000 2.6.18-staros-v2-private-deb #1 SMP (date/time) i686
```

The Cisco default system description is:

```
Cisco StarOS Software, ASR5000 Intelligent Mobile Gateway, Version 12.2. Copy-
right (c) 2011 by Cisco Systems, Inc.
```

Users can opt for either description using the following CLI command: `[local]asr5000 (config) # system sysdesc-style new|default`



Important: This CLI will not be available to ASR 5500 users; it will default to the Cisco description only.



Important: This command can be combined with *sysOld* as follows: `system sysdesc-sysoid-style new|default`. However, this combination affects BOTH *sysDesc* AND *sysOld* equally: that is, they can both be old-style or they can both be new-style. The System CLI offers an option to configure *sysDesc* independently, but *SysOld* is not a user-configurable parameter.

Serial Number Configuration

ASR 5000 users can configure the chassis serial number with the following CLI:

```
[local]asr5000 (config) # system chassis-serial-number <string>
```



Important: This CLI is not available for ASR 5500 users as the chassis serial number is hard-coded.

Standards-Based MIBs

The following are standards-based, read-only, and available from the Cisco MIB ftp site.

IF-MIB and ENTITY-MIB are disabled by default.

Configuration

MIBs can be configured using the following CLI:

```
[local]asr5000(config)# snmp mib <mib-name, auto complete> | no snmp mib <mib-name, auto complete>
```

Entity MIB

The Entity MIB is implemented as described in RFC4133. The following are not supported for this release:

- entPhysicalAlias
- entPhysicalAssetID
- entPhysicalMfgDate
- entPhysicalUris
- entLogicalTable
- entLPMappingTable
- entPhysicalContainsTable

IF MIB

The IF MIB is implemented per RFC1213, RFC1573, and RFC2863. The following are not supported for this release:

- ifStackTable
- ifStackLastChange
- ifRcvAddressTable
- ifTestTable

Cisco MIBS

The following is a list of supported Cisco MIBs for this release. These are available from the Cisco ftp site.

Configuration

MIBs can be configured using the following CLI:

```
[local]asr5000(config)# snmp mib <mib-name, auto complete> | no snmp mib <mib-name, auto complete>
```

Cisco MIBs

The following MIBs are supported in this release. They can be enabled/disabled as required.

- CISCO-ENHANCED-IPSEC-FLOW-MIB
- CISCO-ENTITY-DISPLAY-MIB
- CISCO-ENTITY-EXT-MIB
- CISCO-ENTITY-FRU-CONTROL-MIB
- CISCO-ENTITY-REDUNDANCY-MIB
- CISCO-ENTITY-SENSOR-MIB
- CISCO-ENTITY-STATE-MIB
- CISCO-FLASH-MIB
- CISCO-HOST-RESOURCE-MIB



Important: CISCO-HOST-RESOURCE-MIB is per the appropriate RFC, but limited to hrSystem and hrStorage tables.

- CISCO-IF-EXTENSION-MIB
- CISCO-IP-LOCAL-POOL-MIB
- CISCO-IPSEC-FLOW-MONITOR-MIB
- CISCO-MOBILE-WIRELESS-SERVICE-MIB
- CISCO-PROCESS_MIB