

Résolution des erreurs ITP-SCTP du commutateur logiciel PGW 2200

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Introduction

Ce document décrit le dépannage du protocole SCTP (Stream Control Transmission Protocol) pour le commutateur logiciel PGW (Public Switched Telephone Network) 2200 de Cisco en mode Contrôle d'appel et signalisation et sur le point de transfert IP Cisco (ITP). SCTP est conçu pour transporter les messages de signalisation RTPC sur des réseaux IP. Le protocole est défini dans la [RFC 2960](#) , et un RFC d'introduction est fourni par la [RFC 3286](#) .

Conditions préalables

Conditions requises

Les lecteurs de ce document devraient avoir connaissance des sujets suivants :

- [Logiciel Cisco Media Gateway Controller version 9](#)
- [SCTP pour les débutants](#)
- [RFC 2960](#)
- SCTP

Components Used

Les informations de ce document sont basées sur les versions 9.4(1) et ultérieures de Cisco PGW 2200.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

Considérations de conception

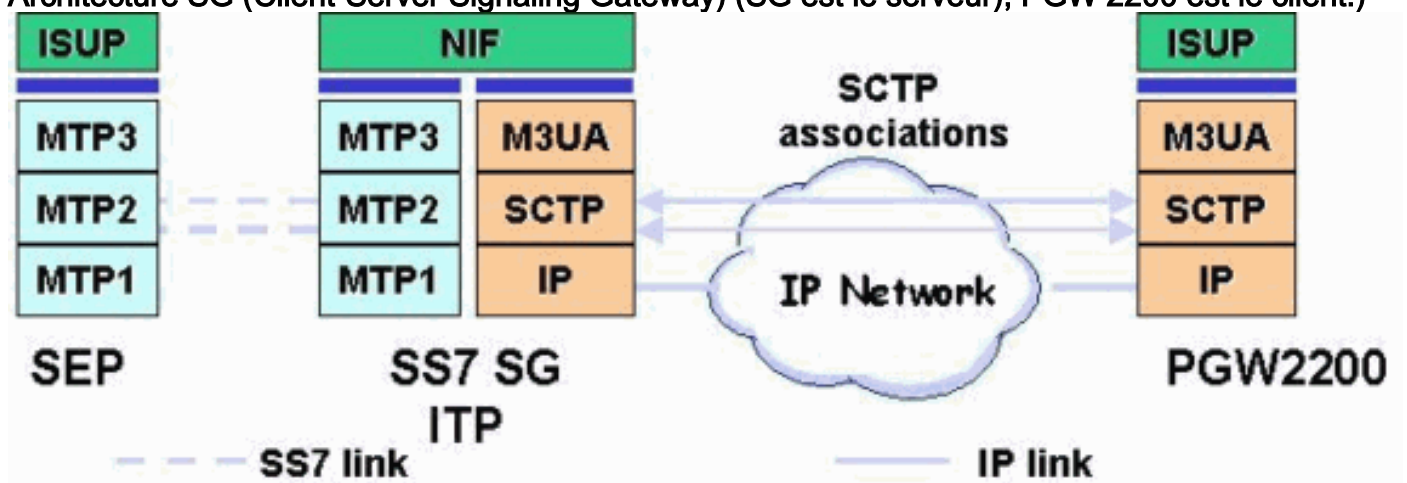
En règle générale, les réseaux SS7 (Signaling System 7) sont conçus pour un niveau de service donné (GOS). Pour ce scénario, référez-vous à la spécification ITU E.723, qui traite de certaines considérations pour garantir une GOS de bout en bout lors de la conception d'un réseau SS7.

Le document de spécification E.723 de l'UIT traite du temps de transmission du message d'adresse initiale de bout en bout (IAM) cible (dans un sens) de 0,9 seconde, et il inclut d'autres informations détaillées.

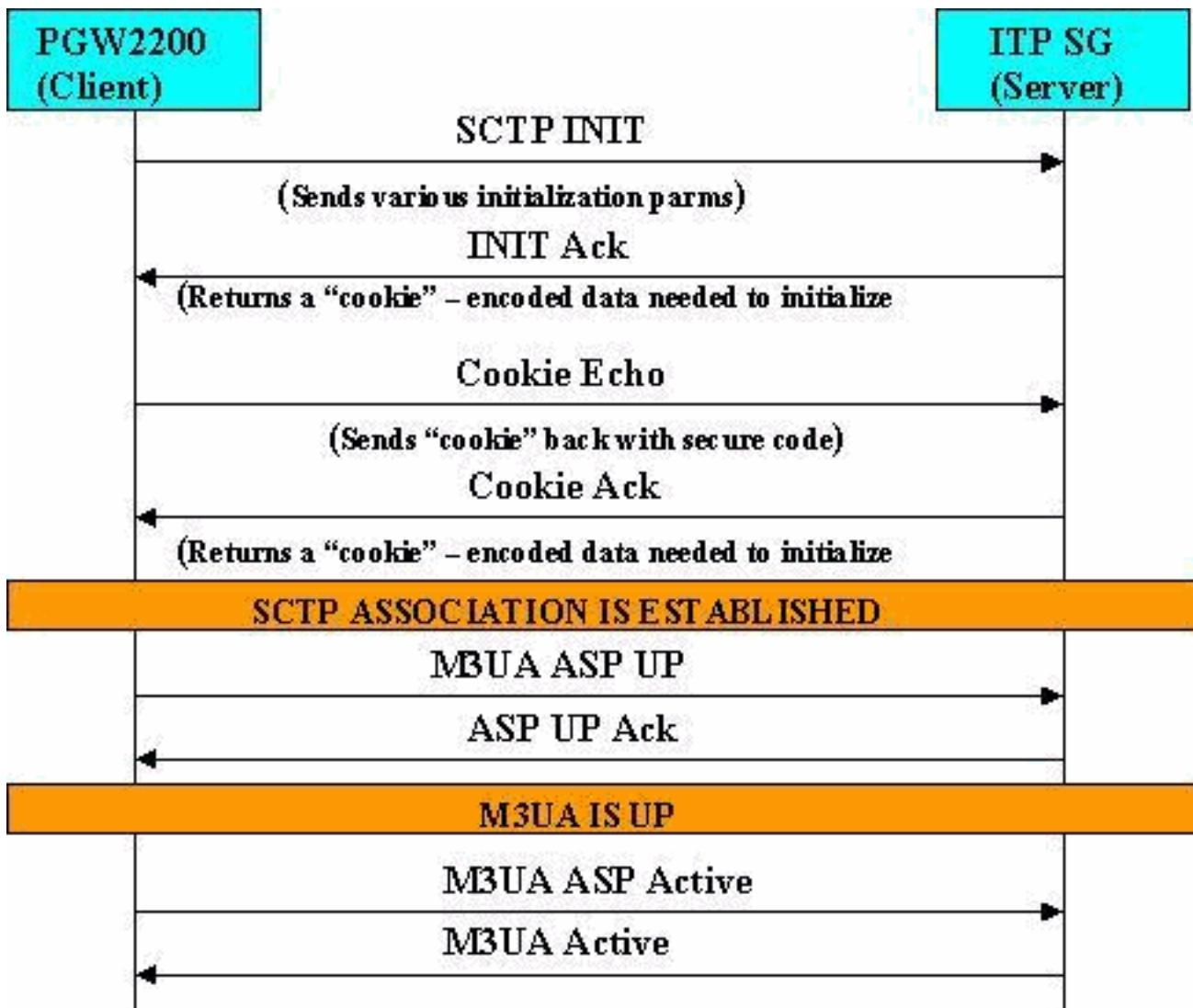
En règle générale, les temps d'aller-retour (RTT) de moins de 200 à 300 ms entre deux noeuds SS7 sur IP (SS7oIP) placent les performances bien en deçà des exigences de la majorité des applications SS7 de couche supérieure. RTT peut dépasser cela, mais la conception globale du réseau doit être évaluée pour s'assurer que plusieurs sauts ne dépassent pas les compteurs de la couche application.

Dépannage d'ITP-SCTP

Architecture SG (Client-Server Signaling Gateway) (SG est le serveur); PGW 2200 est le client.)



Message SCTP



Sur le protocole ITP, exécutez la commande **debug** :

```

v2650-2# debug ip sctp war
SCTP: Turning warnings debugging on
v2650-2# debug ip sctp signal
SCTP: Turning signal debugging on
v2650-2# debug ip sctp state
SCTP: Turning state debugging on
v2650-2# debug ip sctp init
  
```

Sur le PGW 2200, une association est hors service. Mettez cette association en service avec la commande MML (Man-Machine Language) **set-association:m3ua-assoc2:IS,confirm**, et suivez le **débugage** sur l'ITP pour découvrir les différents statuts (voir **boldface**).

```

mgc-bru-14 mml> rtrv-association:all
MGC-01 - Media Gateway Controller 2004-03-18 19:04:23.597 MET
M RTRV
"m3ua-assoc1:IS"
/* M3UA Association 1 */
"m3ua-assoc2:OOS,COOS"
/* M3UA Association 2 */
;
mgc-bru-14 mml> set-association:m3ua-assoc2:IS,confirm
MGC-01 - Media Gateway Controller 2004-03-18 19:05:10.286 MET
  
```

```
M COMPLD
"m3ua-assoc2"
;
mgc-bru-14 mml>
```

Pour résoudre les problèmes d'adaptation des utilisateurs de niveau 3 (M3UA) SCTP et MTP (Message Transfer Part) sur le PGW 2200 et ITP, vous trouverez ci-dessous une explication (fournie avec les éléments **gras**) du flux de signalisation et des débogages.

Remarque : Le flux de signalisation est décrit dans [SCTP for Beginners](#) .

Remarque : Certains des codes ci-dessous sont affichés sur plusieurs lignes en raison de limitations d'espace.

```
Mar 18 18:05:10.413: SCTP: Process Init
Mar 18 18:05:10.413: SCTP: INIT_CHUNK, len 34
Mar 18 18:05:10.413: SCTP: Initiate Tag: 6C0C883A, Initial TSN:
6C0C883A, rwnd 18000
Mar 18 18:05:10.413: SCTP: Streams Inbound: 128, Outbound: 17
Mar 18 18:05:10.413: SCTP: IP Addr: 10.48.84.146
Mar 18 18:05:10.413: SCTP: Supported addr types: 5
Mar 18 18:05:10.413: SCTP: Assoc (new): Send InitAck
Mar 18 18:05:10.413: SCTP: INIT_ACK_CHUNK, len 108
Mar 18 18:05:10.413: SCTP: Initiate Tag: 446E8EA0, Initial TSN:
446E8EA0, rwnd 64000
Mar 18 18:05:10.413: SCTP: Streams Inbound: 17, Outbound: 2
Mar 18 18:05:10.413: SCTP: Responder cookie len 80
Mar 18 18:05:10.417: SCTP: IP Addr: 10.48.84.176
Mar 18 18:05:10.417: SCTP: Assoc (new): Process Cookie
Mar 18 18:05:10.417: SCTP: COOKIE_ECHO_CHUNK, len 80
Mar 18 18:05:10.417: SCTP: Assoc 66: Adding additional address (10.48.84.146)
as source and destination
Mar 18 18:05:10.918: SCTP: Assoc 66: Send CookieAck
Mar 18 18:05:10.918: SCTP: COOKIE_ACK_CHUNK
Mar 18 18:05:10.922: SCTP: Assoc 42: snmpID:66 state CLOSED -> ESTABLISHED
currEstab=1
Mar 18 18:05:10.922: SCTP: Assoc 42: tCurrEstab=1 currEstab=2
Mar 18 18:05:10.922: SCTP: Assoc 66: Sent ASSOC_UP signal for INCOMING_ASSOC
Mar 18 18:05:10.926: xuaSctpInboundPeerUp(Entry): InstanceId = 1, AssocId = 66
Mar 18 18:05:10.926: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
1100, pAspCb = 0x0
Mar 18 18:05:10.926: CS7 XUA MGMT API: aspm_validate_assoc: assocId = 66,
remotePort = 2905, remoteIpAddr = 10.48.84.146 0.0.0.0 0.0.0.0 0.0.0.0,
localPort = 2905, retCode = 0
Mar 18 18:05:10.926: xuaSctpSetAddrParms(Entry): assocId = 66
Mar 18 18:05:10.926: xuaSctpSetAddrParms: keepAlive = 1, keepAliveTimeout =
30000
Mar 18 18:05:10.926: xuaSctpSetAddrParms: tos = 0, maxPathRexmit = 4
Mar 18 18:05:10.926: xuaSctpSetAddrParms: IP addr 10.48.84.146 for assocId 66
set to active
Mar 18 18:05:10.926: xuaSctpInboundPeerUp: SCTP_ASSOC_UP processing complete
PGW-SW3-BR14(66) s=10.48.84.176 : 2905, d=10.48.84.146 : 2905
Mar 18 18:05:10.926: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:10.930: xuaGetPacket: getbuffer returned buffer = 8154E958
Mar 18 18:05:10.930: xuaGetPacket: sctp_receive returned datalen(8) from
stream(0)
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 66,
```

protocol = 1
Mar 18 18:05:10.930: **CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR14: Message:**
Class = ASPSM, Type = ASPUP, Length = 8
Mar 18 18:05:10.930: No Message Parameters
Mar 18 18:05:10.930: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR14:
old state = ASP_DOWN, new state = ASP_INACTIVE, AS = PGW-SW3
Mar 18 18:05:10.930: **CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3:**
old state = AS_DOWN, new state = AS_INACTIVE
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:10.930: xua_send: assocId = 66, streamNum = 0, pak = 0x8154E958,
routingContext = 0, freeOnErr = 1
Mar 18 18:05:10.930: **CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class =**
ASPSM, Type = ASPUP ACK, Length = 8
Mar 18 18:05:10.930: No Message Parameters
Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:10.930: xuaGetPacket: getbuffer returned buffer = 8154F4C8
Mar 18 18:05:10.930: xuaGetPacket: sctp_receive returned datalen(0) from
stream(0)
Mar 18 18:05:10.934: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext:
routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 18:05:10.934: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:10.934: xua_send: assocId = 66, streamNum = 0, pak = 0x8154A794,
routingContext = 0, freeOnErr = 1
Mar 18 18:05:10.934: **CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class =**
MGMT, Type = NTFY, Length = 24
Mar 18 18:05:10.934: Parameter: Tag = STATUS, Length = 8
Mar 18 18:05:10.934: Value = 0x00010002
Mar 18 18:05:10.934: Parameter: **Tag = ROUTING CONTEXT**, Length = 8
Mar 18 18:05:10.934: **Value = 0x0000000A**
Mar 18 18:05:10.950: SCTP: Process Init
Mar 18 18:05:10.950: SCTP: INIT_CHUNK, len 34
Mar 18 18:05:10.950: SCTP: Initiate Tag: 6FC2653D, Initial TSN:
6FC2653D, rwnd 18000
Mar 18 18:05:10.950: SCTP: Streams Inbound: 128, Outbound: 17
Mar 18 18:05:10.950: SCTP: IP Addr: 10.48.84.181
Mar 18 18:05:10.950: SCTP: Supported addr types: 5
Mar 18 18:05:10.950: SCTP: Assoc (new): Send InitAck
Mar 18 18:05:10.950: SCTP: INIT_ACK_CHUNK, len 108
Mar 18 18:05:10.950: SCTP: Initiate Tag: 86E5560B, Initial TSN:
86E5560B, rwnd 64000
Mar 18 18:05:10.950: SCTP: Streams Inbound: 17, Outbound: 2
Mar 18 18:05:10.950: SCTP: Responder cookie len 80
Mar 18 18:05:10.950: SCTP: IP Addr: 10.48.84.176
Mar 18 18:05:10.954: SCTP: Assoc (new): Process Cookie
Mar 18 18:05:10.954: SCTP: COOKIE_ECHO_CHUNK, len 80
Mar 18 18:05:10.954: SCTP: Assoc 67: Adding additional address (10.48.84.181)
as source and destination
Mar 18 18:05:11.455: SCTP: Assoc 67: Send CookieAck
Mar 18 18:05:11.455: SCTP: COOKIE_ACK_CHUNK
Mar 18 18:05:11.455: SCTP: Assoc 43: snmpID:67 state CLOSED -> ESTABLISHED
currEstab=2
Mar 18 18:05:11.459: SCTP: Assoc 43: tCurrEstab=1 currEstab=3
Mar 18 18:05:11.459: SCTP: **Assoc 67: Sent ASSOC_UP signal for INCOMING_ASSOC**
Mar 18 18:05:11.463: xuaSctpInboundPeerUp(Entry): InstanceId = 1, AssocId = 67
Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
1100, pAspCb = 0x0
Mar 18 18:05:11.463: **CS7 XUA MGMT API: aspm_validate_assoc: assocId = 67,**

remotePort = 2905, remoteIpAddr = 10.48.84.181 0.0.0.0 0.0.0.0 0.0.0.0,
localPort = 2905, retCode = 0

Mar 18 18:05:11.463: xuaSctpSetAddrParms(Entry): assocId = 67
Mar 18 18:05:11.463: xuaSctpSetAddrParms: keepAlive = 1, keepAliveTimeout = 30000
Mar 18 18:05:11.463: xuaSctpSetAddrParms: tos = 0, maxPathRexmit = 4
Mar 18 18:05:11.463: **xuaSctpSetAddrParms: IP addr 10.48.84.181 for assocId 67 set to active**


Mar 18 18:05:11.463: xuaSctpInboundPeerUp: SCTP_ASSOC_UP processing complete
PGW-SW3-BR19(67) s=10.48.84.176 : 2905, d=10.48.84.181 : 2905
Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.463: xuaGetPacket: getbuffer returned buffer = 818AA374
Mar 18 18:05:11.463: xuaGetPacket: sctp_receive returned datalen(8) from stream(0)
Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 67, protocol = 1
Mar 18 18:05:11.467: CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR19: Message:
Class = ASPSM, Type = ASPUP, Length = 8
Mar 18 18:05:11.467: No Message Parameters
Mar 18 18:05:11.467: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR19:
old state = ASP_DOWN, new state = ASP_INACTIVE, AS = PGW-SW3
Mar 18 18:05:11.467: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4
Mar 18 18:05:11.467: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.467: xua_send: assocId = 67, streamNum = 0, pak = 0x818AA374, routingContext = 0, freeOnErr = 1
Mar 18 18:05:11.467: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class = ASPSM, Type = ASPUP ACK, Length = 8
Mar 18 18:05:11.467: No Message Parameters
Mar 18 18:05:11.467: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.467: xuaGetPacket: getbuffer returned buffer = 818AA92C
Mar 18 18:05:11.467: xuaGetPacket: sctp_receive returned datalen(0) from stream(0)
Mar 18 18:05:11.487: xuaGetPacket: getbuffer returned buffer = 8154E958
Mar 18 18:05:11.487: xuaGetPacket: sctp_receive returned datalen(16) from stream(0)
Mar 18 18:05:11.487: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.487: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.487: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 66, protocol = 1
Mar 18 18:05:11.487: CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR14: Message:
Class = ASPTM, Type = ASPAC, Length = 16
Mar 18 18:05:11.487: Parameter: Tag = TRAFFIC MODE TYPE, Length = 8
Mar 18 18:05:11.487: Value = 0x00000001
Mar 18 18:05:11.487: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 18:05:11.487: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR14:
old state = ASP_INACTIVE, new state = ASP_ACTIVE, AS = PGW-SW3
Mar 18 18:05:11: %CS7XUA-5-ASPSTATE: ASP PGW-SW3-BR14 is active in AS PGW-SW3
Mar 18 18:05:11.487: CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3:
old state = AS_INACTIVE, new state = AS_ACTIVE
Mar 18 18:05:11: %CS7XUA-5-ASSTATE: AS PGW-SW3 is active
Mar 18 18:05:11.487: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4
Mar 18 18:05:11.487: xua_dpc_notify: dpc=1.6.1, oldStatus=M3UA inactive,

newStatus=M3UA active
Mar 18 18:05:11.487: xua_dpc_notify: Sending TFA for dpc=831
Mar 18 18:05:11.491: cs7_xua_process_L3_dest_accessible: TFA received for destination 1.6.1
Mar 18 18:05:11.491: CS7 XUA MGMT POINTCODE: update_dpc_status: called xua_dpc_notify() for dpc 1.6.1 status change, newStatus = DPC_M3UA_ACTIVE, retcode = 1
Mar 18 18:05:11.491: CS7 XUA MGMT POINTCODE: update_dpc_status: dpc 1.6.1 status change: **old status = DPC_M3UA_INACTIVE, new status = DPC_M3UA_ACTIVE**
Mar 18 18:05:11: %CS7XUA-5-XUAPCSTATUS: XUA PC 1.6.1 is M3UA active
Mar 18 18:05:11.491: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4
Mar 18 18:05:11.491: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.491: xua_send: assocId = 66, streamNum = 0, pak = 0x8154A794, routingContext = 0, freeOnErr = 1
Mar 18 18:05:11.491: CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = ASPTM, **Type = ASPAC ACK**, Length = 24
Mar 18 18:05:11.491: Parameter: Tag = TRAFFIC MODE TYPE, Length = 8
Mar 18 18:05:11.491: Value = 0x00000001
Mar 18 18:05:11.491: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 18:05:11.491: Value = 0x0000000A
Mar 18 18:05:11.491: xuaGetPacket: getbuffer returned buffer = 8154E958
Mar 18 18:05:11.491: xuaGetPacket: sctp_receive returned datalen(0) from stream(0)
Mar 18 18:05:11.495: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 18:05:11.495: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.495: xua_send: assocId = 66, streamNum = 0, pak = 0x818A72D8, routingContext = 0, freeOnErr = 1
Mar 18 18:05:11.495: CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = MGMT, **Type = NTFY**, Length = 24
Mar 18 18:05:11.495: Parameter: Tag = STATUS, Length = 8
Mar 18 18:05:11.495: Value = 0x00010003
Mar 18 18:05:11.495: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 18:05:11.495: Value = 0x0000000A
Mar 18 18:05:11.495: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 18:05:11.495: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.495: xua_send: assocId = 67, streamNum = 0, pak = 0x815479D4, routingContext = 0, freeOnErr = 1
Mar 18 18:05:11.495: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class = MGMT, **Type = NTFY**, Length = 24
Mar 18 18:05:11.495: Parameter: Tag = STATUS, Length = 8
Mar 18 18:05:11.499: Value = 0x00010003
Mar 18 18:05:11.499: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 18:05:11.499: Value = 0x0000000A
Mar 18 18:05:11.499: xuaProcessMgmtQ (Entry)
Mar 18 18:05:11.499: xua_process_mgmt_event: Event DAVA for 1.6.1
Mar 18 18:05:11.499: CS7 XUA MGMT API: aspm_get_active_aspCb: protocol = 1, pPreviousAspCb = 0x0, pAspCb = 0x81AD75BC
Mar 18 18:05:11.499: CS7 XUA MGMT POINTCODE: cs7_aspm_xua_dpc: dpc 1.6.1 matched: **status = DPC_M3UA_ACTIVE**
Mar 18 18:05:11.499: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.6.1, dpcStatus = 1
Mar 18 18:05:11.499: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.499: xua_send: assocId = 66, streamNum = 0, pak = 0x81549F00, routingContext = 0, freeOnErr = 1
Mar 18 18:05:11.503: **CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = SSNM, Type = DAVA, Length = 24**

Mar 18 18:05:11.503: Parameter: Tag = AFFECTED POINT CODE, Length = 8
Mar 18 18:05:11.503: Value = 0x00000831 (1.6.1)
Mar 18 18:05:11.503: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 18:05:11.503: Value = 0x0000000A
Mar 18 18:05:11.503: xua_process_mgmt_event: Send event DAVA for 1.6.1 to
asp PGW-SW3-BR14
Mar 18 18:05:11.503: CS7 XUA MGMT API: aspm_get_active_aspCb: protocol = 1,
pPreviousAspCb = 0x81AD75BC, pAspCb = 0x0
Mar 18 18:05:11.503: xua_process_mgmt_event: Event DAVA for 1.6.1
Mar 18 18:05:11.599: xuaGetPacket: getbuffer returned buffer = 818AA374
Mar 18 18:05:11.599: xuaGetPacket: sctp_receive returned datalen(8) from
stream(0)
Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 67,
protocol = 1
Mar 18 18:05:11.599: CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR19: Message:
Class = ASPTM, **Type = ASPIA**, Length = 8
Mar 18 18:05:11.599: No Message Parameters
Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext:
routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 18:05:11.603: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 18:05:11.603: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
67, pAspCb = 0x81AF2DB0
Mar 18 18:05:11.603: xua_send: assocId = 67, streamNum = 0, pak = 0x815479D4,
routingContext = 0, freeOnErr = 1
Mar 18 18:05:11.603: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class =
ASPTM, **Type = ASPIA ACK**, Length = 16
Mar 18 18:05:11.603: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 18:05:11.603: Value = 0x0000000A
Mar 18 18:05:11.603: xuaGetPacket: getbuffer returned buffer = 818AA374
Mar 18 18:05:11.603: xuaGetPacket: sctp_receive returned datalen(0) from
stream(0)
Mar 18 18:05:11.603: xuaGetPacket: getbuffer returned buffer = 818AA374
Mar 18 18:05:11.607: xuaGetPacket: sctp_receive returned datalen(24) from
stream(0)
Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 66,
protocol = 1
Mar 18 18:05:11.607: CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR14: Message:
Class = SSNM, **Type = DAUD**, Length = 24
Mar 18 18:05:11.607: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 18:05:11.607: Value = 0x0000000A
Mar 18 18:05:11.607: Parameter: Tag = AFFECTED POINT CODE, Length = 8
Mar 18 18:05:11.607: Value = 0x00000851 (1.10.1)
Mar 18 18:05:11.607: xua_daud_msg: Incoming- pak(818AA374) size(24)
Mar 18 18:05:11.607: xua_daud_msg: DAUD received from PGW-SW3-BR14 - dpc(851)
mask(0)
Mar 18 18:05:11.607: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.10.1,
dpcStatus = 0
Mar 18 18:05:11.607: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.10.1,
dpcStatus = 0
Mar 18 18:05:11.607: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.10.1,
dpcStatus = 0
Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
66, pAspCb = 0x81AD75BC
Mar 18 18:05:11.607: xua_send: assocId = 66, streamNum = 0, pak = 0x81549F00,
routingContext = 0, freeOnErr = 1

Mar 18 18:05:11.607: CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = SSNM, **Type = DAVA**, Length = 24
 Mar 18 18:05:11.607: Parameter: Tag = AFFECTED POINT CODE, Length = 8
 Mar 18 18:05:11.611: Value = 0x00000851 (1.10.1)
 Mar 18 18:05:11.611: Parameter: Tag = ROUTING CONTEXT, Length = 8
 Mar 18 18:05:11.611: Value = 0x0000000A
 Mar 18 18:05:11.611: xuaGetPacket: getbuffer returned buffer = 818AA374
 Mar 18 18:05:11.611: xuaGetPacket: sctp_receive returned datalen(0) from stream(0)
 Mar 18 18:05:12.428: cs7_xua_is_available_xua_dpc: dpc=80A
 Mar 18 18:05:12.428: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0
 Mar 18 18:05:12.973: cs7_xua_is_available_xua_dpc: dpc=80A
 Mar 18 18:05:12.973: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0
 Mar 18 18:05:18.178: cs7_xua_is_available_xua_dpc: dpc=80A

Gestion des erreurs SCTP et M3UA

| Type de message : | Description |
|--|---|
| Données utiles | Contient les données du protocole MTP3-utilisateur SS7, qui est un  primitif MTP-TRANSFER, y compris l'étiquette de routage MTP3 complète. |
| Destination non disponible (DUNA) | Utilisé pour signaler au chemin de signal auxiliaire (ASP) que les destinations ne sont pas disponibles. Semblable au transfert MTP interdit. |
| Destination disponible (DAVA) | Utilisé pour signaler à l'ASP que des destinations sont disponibles. Semblable au transfert MTP autorisé. |
| Audit de destination (DAUD) | Utilisé pour demander à l'état SG la disponibilité ou l'encombrement des routes SS7. |
| Encombrement du réseau SS7 (SCON) | Utilisé pour indiquer la congestion d'un SG. |
| Pièce de destination non disponible (DUPU) | Envoyé par SG pour indiquer que l'utilisateur MTP3 homologue distant n'est pas disponible. |
| Destination Restreinte (DRST) | Envoyé à ASP indiquant que la destination SS7 est restreinte. Semblable à MTP. |
| ASP Up (ASPUP) | Ce message est utilisé pour indiquer au SG que l'ASP est opérationnel, en cours d'exécution et prêt à recevoir des messages liés à la maintenance. |
| Accusé de réception ASP | Reconnaît le message ASP Up. |

| | |
|---------------------------------------|---|
| ASP Down (ASPDN) | Indique au SG que l'ASP n'est pas prêt à recevoir le trafic. |
| Accusé de réception ASP | Reconnaît le message ASP Down. |
| Demande d'enregistrement (REG REQ) | Envoyé par ASP à SG et utilisé pour enregistrer les clés de routage avec le SG. |
| Réponse d'enregistrement | Utilisé pour accuser réception de la demande d'enregistrement. |
| Demande de désinscription (DEREG REQ) | Utilisé pour signaler au SG la désinscription de la clé de routage. |
| Réponse de désinscription (DREG RSP) | Utilisé pour accuser réception de la demande de désinscription. |
| ASP actif (ASPAC) | Indique que l'ASP est maintenant actif et prêt à accepter le trafic. |
| Accusé de réception actif ASP | Utilisé pour accuser réception du message ASP Active. |
| ASP inactif (ASPIA) | Utilisé pour indiquer qu'un ASP est passé en mode inactif. |
| Accusé de réception ASP inactif | Envoyé par SG pour accuser réception d'ASP Inactive. |
| Heartbeat (BEAT) | Message de pulsation. |
| Ack Heartbeat (Beat-Ack) | Reconnaît le message Heartbeat. |
| Notify (NTFY) | Fournit une indication autonome des événements à un homologue M3UA. |

Gestion des messages d'erreur M3UA

| « Error Code | Réponse à | Motif | Action |
|--------------------|-----------|---|---|
| Version non valide | ASP UP | Utilisé pour avertir ASP que le SG ne prend pas en charge la version spécifiée. Cette erreur ne doit être reçue qu'en | Actuellement, il n'existe qu'une seule version de M3UA. |

| | | | |
|--|--------|--|--|
| | | réponse à la demande ASP Up envoyée au SG. | |
| Classe de message non prise en charge | TOUS | Indique à SG ou à ASP qu'un message a été reçu avec une classe de message non valide. | Lorsque l'ASP reçoit un message avec une classe de message non prise en charge, il ignore le message, place l'en-tête dans le paramètre de diagnostic d'un message d'erreur et envoie le message d'erreur avec ce code d'erreur. À la réception de ce message d'erreur, il est enregistré. |
| Type de message non pris en charge | TOUS | Indique à SG ou à ASP qu'un message a été reçu avec un type de message non valide. | Identique à Classe de message non prise en charge, ci-dessus. |
| Mode de gestion du trafic non pris en charge | ASP AC | Avertit ASP qui a reçu le message qu'il contenait un type de gestion de trafic non valide. | Dès réception de ce message d'erreur, l'ASP doit générer une entrée de journal et fournir une notification d'incompatibilité de configuration par rappel de gestion de couche. |
| Message inattendu | | | Envoyé lorsqu'un message est |

| | | | |
|-----------------------------------|---------|--|---|
| | | | reçu de manière inattendue (c'est-à-dire qu'ASP n'est pas à l'état actif ou qu'ASP est à l'état Down et qu'un ASP Active a été reçu). |
| Erreur de protocole | | | Connecté si reçu. Envoyé pour des erreurs de protocole générales. |
| Identificateur de flux non valide | | Envoyé par l'homologue lorsqu'un message est reçu avec un identificateur de flux non valide. Cela se produit lorsqu'un message de gestion est envoyé sur un flux autre que 0. Le destinataire du message sur le flux non valide doit ignorer le message. | Lorsque ce message est reçu, une erreur de codage s'est probablement produite. Lorsque ce message est reçu, il doit être envoyé à nouveau, sur un flux valide, et l'erreur doit être consignée. |
| Refusé— Blocage de gestion | ASP Act | Envoyé par SG lorsqu'un ASP UP ou ASP Act est reçu et qu'une forme de blocage de gestion s'est produite. | Connecté si reçu. Si l'état préféré est UP, ASP continue d'envoyer périodiquement le message ASP UP ou ASP ACT. |
| Identificateur ASP requis | ASP UP | Envoyé par le processus de passerelle de signalisation (SGP) en réponse à un ASP UP sans identificateur ASP. | Connecté si reçu. Cependant, ceci ne doit pas être reçu car l'ID ASP a été envoyé. |
| Identificateur | ASP | Envoyé en réponse à un | Connecté si |

| | | | |
|--------------------------------|--|--|--|
| eur ASP non valide | UP | message ASP UP avec un identificateur ASP dupliqué. | reçu. |
| Contexte de routage non valide | ASP AC ASP IA NTF Y | Envoyé lorsqu'un message contient un contexte de routage non valide. | Connecté si reçu. En outre, une notification de gestion de couche est envoyée à l'alarme d'une incompatibilité de configuration entre le PGW 2200 et SG. |
| Valeur de paramètre non valide | all | Envoyé par homologue lorsqu'un message est reçu avec une valeur de paramètre non valide. | Connecté si reçu |
| Erreur du champ de paramètre | all | | Connecté si reçu. |
| Paramètre inattendu | all | Envoyé lorsqu'un paramètre inattendu est reçu dans un message. | Connecté si reçu. |
| État de destination inconnu | DAUD | Envoyé en réponse à DAUD à ASP, indiquant que le SG ne souhaite pas fournir le statut. | Connecté si reçu. En outre, une notification de gestion de couche est envoyée pour générer une alarme de mauvaise configuration. |
| Apparence réseau non valide | DAT A DU NA DAV A DAU D SC ON DUP U | Le paramètre Apparence réseau n'est pas reconnu par l'entité réceptrice (SG ou ASP). | |

| | | | |
|--|----------|--|--|
| | DRS T | | |
|--|----------|--|--|

Dans l'exemple ci-dessous, l'association est appelée Out-of-Service (OOS) et le flux de signalisation est suivi. (Voir les informations en caractères gras.)

Remarque : Certains des codes ci-dessous sont affichés sur plusieurs lignes en raison de limitations d'espace.

```

mgc-bru-14 mml> rtrv-association:all
MGC-01 - Media Gateway Controller 2004-03-18 18:28:49.691 MET
M RTRV
"m3ua-assoc1:IS"
/* M3UA Association 1 */
"m3ua-assoc2:IS"
/* M3UA Association 2 */
;
mgc-bru-14 mml> set-association:m3ua-assoc2:OOS,confirm
MGC-01 - Media Gateway Controller 2004-03-18 18:41:34.240 MET
M COMPLD
"m3ua-assoc2"
;
mgc-bru-14 mml>

Mar 18 17:41:29.973: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.4.1,
pointCode = 0x0
Mar 18 17:41:30.875: cs7_xua_is_available_xua_dpc: dpc=80A
Mar 18 17:41:30.875: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2,
dpcStatus = 0
Mar 18 17:41:34.348: SCTP: Assoc 64: Sent TERMINATE_PENDING signal
Mar 18 17:41:34.348: SCTP: Assoc 64: Send Shutdown
Mar 18 17:41:34.348: SCTP: SHUTDOWN_ACK_CHUNK
Mar 18 17:41:34.348: SCTP: Assoc 40: snmpID:64 state ESTABLISHED ->
SHUTDOWN_ACKSENT currEstab=3
Mar 18 17:41:34.348: SCTP: Assoc 40: tCurrEstab=-1 currEstab=2
Mar 18 17:41:34.348: xuaSctpAssocTerminate(Entry): InstanceId = 1, AssocId = 64
Mar 18 17:41:34.348: xuaSctpAssocTerminate: TERMINATE signal for M3UA
Association (64) context=81AD75BC
Mar 18 17:41:34.348: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId =
64, pAspCb = 0x81AD75BC
Mar 18 17:41:34.348: CS7 XUA MGMT API: aspm_asp_cong_notify: ASP = PGW-SW3-BR14
Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 17:41:34.352: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR14:
old state = ASP_ACTIVE, new state = ASP_DOWN, AS = PGW-SW3
Mar 18 17:41:34: %CS7XUA-5-ASPSTATE: ASP PGW-SW3-BR14 is inactive in AS PGW-SW3
Mar 18 17:41:34.352: CS7 XUA TIMER: update_as_state: started recovery timer for
AS PGW-SW3
Mar 18 17:41:34.352: CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3:
old state = AS_ACTIVE, new state = AS_PENDING
Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_assoc_closed: assocId = 64, success
Mar 18 17:41:34.352: SCTP: Assoc 64: Sent ASSOC_TERMINATE signal
Mar 18 17:41:34.352: SCTP: Assoc 40: snmpID:64 state SHUTDOWN_ACKSENT -> CLOSED
currEstab=2
Mar 18 17:41:34.352: SCTP: Assoc 40: tCurrEstab=0 currEstab=2
Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext:

```

routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x81AF2DB0
Mar 18 17:41:34.356: xua_send: assocId = 65, streamNum = 0, pak = 0x818A39A8, routingContext = 0, freeOnErr = 1
Mar 18 17:41:34.356: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class = MGMT, **Type = NTFY**, Length = 24
Mar 18 17:41:34.356: Parameter: Tag = STATUS, Length = 8
Mar 18 17:41:34.356: Value = 0x00020003
Mar 18 17:41:34.356: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 17:41:34.356: Value = 0x0000000A
Mar 18 17:41:34.356: CS7 XUA MGMT API: aspm_find_aspCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 17:41:34.356: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x81AF2DB0
Mar 18 17:41:34.356: xua_send: assocId = 65, streamNum = 0, pak = 0x81549390, routingContext = 0, freeOnErr = 1
Mar 18 17:41:34.356: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class = MGMT, **Type = NTFY**, Length = 24
Mar 18 17:41:34.356: Parameter: Tag = STATUS, Length = 8
Mar 18 17:41:34.356: Value = 0x00010004
Mar 18 17:41:34.356: Parameter: Tag = ROUTING CONTEXT, Length = 8
Mar 18 17:41:34.356: Value = 0x0000000A
Mar 18 17:41:34.356: xuaSctpAssocTerminate(Entry): InstanceId = 1, AssocId = 64
Mar 18 17:41:34.356: xuaSctpAssocTerminate: TERMINATE signal for M3UA Association (1100) context=81AD75BC
Mar 18 17:41:34.356: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 64, pAspCb = 0x0
Mar 18 17:41:34.356: CS7 XUA ERROR: aspm_assoc_closed: ASP not found for assocId 64
Mar 18 17:41:34.889: SCTP: **Assoc 65: Sent TERMINATE_PENDING signal**
Mar 18 17:41:34.889: **SCTP: Assoc 65: Send Shutdown**
Mar 18 17:41:34.889: **SCTP: SHUTDOWN_ACK_CHUNK**
Mar 18 17:41:34.893: **SCTP: Assoc 41: snmpID:65 state ESTABLISHED -> SHUTDOWN_ACKSENT currEstab=2**
Mar 18 17:41:34.893: SCTP: Assoc 41: tCurrEstab=-1 currEstab=1
Mar 18 17:41:34.893: xuaSctpAssocTerminate(Entry): InstanceId = 1, AssocId = 65
Mar 18 17:41:34.893: xuaSctpAssocTerminate: TERMINATE signal for M3UA Association (65) context=81AF2DB0
Mar 18 17:41:34.893: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x81AF2DB0
Mar 18 17:41:34.893: CS7 XUA MGMT API: aspm_asp_cong_notify: ASP = PGW-SW3-BR19
Mar 18 17:41:34.893: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR19: **old state = ASP_INACTIVE, new state = ASP_DOWN, AS = PGW-SW3**
Mar 18 17:41:34.893: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4
Mar 18 17:41:34.893: CS7 XUA MGMT API: aspm_assoc_closed: assocId = 65, success
Mar 18 17:41:34.893: **SCTP: Assoc 65: Sent ASSOC_TERMINATE signal**
Mar 18 17:41:34.893: **SCTP: Assoc 41: snmpID:65 state SHUTDOWN_ACKSENT -> CLOSED currEstab=1**
Mar 18 17:41:34.893: SCTP: Assoc 41: tCurrEstab=0 currEstab=1
Mar 18 17:41:34.897: xuaSctpAssocTerminate(Entry): InstanceId = 1, AssocId = 65
Mar 18 17:41:34.897: **xuaSctpAssocTerminate: TERMINATE signal for M3UA Association (1100) context=81AF2DB0**
Mar 18 17:41:34.897: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x0
Mar 18 17:41:34.897: CS7 XUA ERROR: aspm_assoc_closed: ASP not found for assocId 65
Mar 18 17:41:36.356: CS7 XUA MGMT API: aspm_find_aspCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8
Mar 18 17:41:36.356: CS7 XUA TIMER: handle_timer_event: recovery timer expired for AS PGW-SW3
Mar 18 17:41:36.356: CS7 XUA TIMER: update_as_state: stopped recovery timer for AS PGW-SW3
Mar 18 17:41:36.356: CS7 XUA TIMER: flush_recoveryQ: flushing recovery queue

```

for AS PGW-SW3, queue depth = 0
Mar 18 17:41:36.356: CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3:
old state = AS_PENDING, new state = AS_DOWN
Mar 18 17:41:36: %CS7XUA-5-ASSTATE: AS PGW-SW3 is inactive
Mar 18 17:41:36.356: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1,
pointCode = 0x8184E4F4
Mar 18 17:41:36.356: xua_dpc_notify: dpc=1.6.1, oldStatus=M3UA active,
newStatus=M3UA inactive
Mar 18 17:41:36.356: xua_dpc_notify: Sending TFP for dpc=1.6.1
Mar 18 17:41:36.356: cs7_xua_process_L3_dest_inaccessible: Destination
prohibited received for destination 1.6.1
Mar 18 17:41:36.356: CS7 XUA MGMT POINTCODE: update_dpc_status: called
xua_dpc_notify() for dpc 1.6.1 status change, newStatus =
DPC_M3UA_INACTIVE, retcode = 1
Mar 18 17:41:36.356: CS7 XUA MGMT POINTCODE: update_dpc_status: dpc 1.6.1
status change: old status = DPC_M3UA_ACTIVE, new status =
DPC_M3UA_INACTIVE
Mar 18 17:41:36: %CS7XUA-5-XUAPCSTATUS: XUA PC 1.6.1 is M3UA inactive
Mar 18 17:41:36.360: xuaProcessMgmtQ (Entry)
Mar 18 17:41:36.360: xua_process_mgmt_event: Event DUNA for 1.6.1
Mar 18 17:41:36.360: CS7 XUA MGMT API: aspm_get_active_aspCb: protocol = 1,
pPreviousAspCb = 0x0, pAspCb = 0x0
Mar 18 17:41:36.360: xua_process_mgmt_event: Event DUNA for 1.6.1
!--- Output suppressed. Mar 18 17:43:00.878: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2,
dpcStatus = 0 Mar 18 17:43:06.379: cs7_xua_is_available_xua_dpc: dpc=80A Mar 18 17:43:06.379:
CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0 Mar 18 17:43:06.379:
cs7_xua_is_active_xua_dpc: dpc=831 Mar 18 17:43:06.379: CS7 XUA MGMT POINTCODE:
cs7_aspm_xua_dpc: dpc 1.6.1 matched: status = DPC_M3UA_INACTIVE
Mar 18 17:43:06.379: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.6.1,
dpcStatus = 2
Mar 18 17:43:06.383: cs7_xua_is_restricted_xua_dpc: dpc=831
Mar 18 17:43:06.383: CS7 XUA MGMT POINTCODE: cs7_aspm_xua_dpc: dpc 1.6.1
matched: status = DPC_M3UA_INACTIVE
Mar 18 17:43:06.383: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.6.1,
dpcStatus = 2
Mar 18 17:43:06.383: cs7_xua_is_prohibited_xua_dpc: dpc=831

```

À un certain moment, vous devrez peut-être changer le processus "m3ua-1" du niveau d'erreur au niveau de débogage sur le PGW 2200 et collecter les informations de journal avec le fichier /opt/CiscoMGC/var/log/platform.log.

```

mgc-bru-14 mml> rtrv-log:all
MGC-01 - Media Gateway Controller 2004-03-18 19:07:22.774 MET
M RTRV
"CFM-01:ERR"
"ALM-01:ERR"
"MM-01:ERR"
"AMDMPR-01:ERR"
"CDRDMPR-01:ERR"
"DSKM-01:ERR"
"MMDB-01:ERR"
"POM-01:ERR"
"MEASAGT:ERR"
"OPERSAGT:ERR"
"mgcp-1:ERR"
"Replic-01:ERR"
"ENG-01:ERR"
"IOCM-01:ERR"
"TCAP-01:ERR"
"m3ua-1:ERR"
"FOD-01:ERR"
;
mgc-bru-14 mml> set-log:m3ua-1:debug,confirm

```



```
MGC-01 - Media Gateway Controller 2004-03-18 19:07:46.434 MET
M COMPLD
"m3ua-1"
;
mgc-bru-14 mml>
```

Les informations du fichier /opt/CiscoMGC/var/log/platform.log permettent à l'association d'accéder à l'état hors service, comme indiqué ci-dessous.

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug>
procIpcMsg myCcMOO 3
```

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug>
actvProcIpc, Got Event Type 4098
```

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug>
ID:4a0003 STATE TRANS:4 desiredMOO:3
```

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Info>
PROT_INFO_Q921_LNK_CNTL: Q921 channel 4a0003 state change Commanded OOS cause
N/A
```

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: M3UA: term assoc 301
```

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Info>
4a0003, state change Out-of-service cause Commanded OOS
```

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug>
SSC List size = 1
```

```
Thu Mar 18 20:32:55:904 2004 MET | m3ua-1 (PID 18243) <Debug>
004a0003, send SSC trans Out-of-service cause Commanded OOS
```

```
Thu Mar 18 20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Sent TERMINATE_PENDING signal
```

```
Thu Mar 18 20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Send Shutdown
```

```
Thu Mar 18 20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: TSN ack: (0x446e8ea5)
```

```
Thu Mar 18 20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: SHUTDOWN_CHUNK,
```

```
Thu Mar 18 20:32:55:906 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: state ESTABLISHED -> SHUTDOWN_SENT
```

```
Thu Mar 18 20:32:55:907 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Shutdown Ack Chunk
```

```
Thu Mar 18 20:32:55:907 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Send Shutdown
```

```
Thu Mar 18 20:32:55:907 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: SHUTDOWN_COMP_CHUNK
```

```
Thu Mar 18 20:32:55:908 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Sent ASSOC_TERMINATE signal
```

Thu Mar 18 20:32:55:908 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: **state SHUTDOWN_SENT -> CLOSED**

Thu Mar 18 20:32:55:912 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: xua_proc_sctpsig - SG 3001 Transition to Down

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Error>
Routing Key 0 not found in the MAP, RK layer mgmt event 6 from SG 160005

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Error>
Received SGP_FAILED_DOWN for 4d0002

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Info>
4d0002, state change Out-of-service cause N/A

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Debug>
SSC List size = 2

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Debug>
004d0002, send SSC trans Out-of-service cause N/A

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Error>
Received **SG_DOWN** for 160005

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Debug>
4f0001, set SG 160005 RKey State to 2

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Warning>
4f0001, SG 160004 Key in Ack State 3

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Debug>
4f0001, Key is active

Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Warning>
4f0001, SG 160005 Key in Pending State 2

Thu Mar 18 20:32:55:924 2004 MET | m3ua-1 (PID 18243) <Debug>
4f0001, one or more SGpending

Thu Mar 18 20:32:55:924 2004 MET | m3ua-1 (PID 18243) <Info>
150001, Send iopFaultMsg 700d of 0 to chanmgr

Thu Mar 18 20:32:55:924 2004 MET | m3ua-1 (PID 18243) <Info>
150001, Send iopFaultMsg 700b of 1 to chanmgr

Thu Mar 18 20:32:55:924 2004 MET | m3ua-1 (PID 18243) <Error>
4a0003: Received **SCTP_ASSOC_FAIL**

Thu Mar 18 20:32:55:924 2004 MET | m3ua-1 (PID 18243) <Debug>
Sent 2 SSCs in a Group

Thu Mar 18 20:32:56:416 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0001) 0: Heartbeat Ack Chunk from destaddr
10.48.84.179

Thu Mar 18 20:32:58:532 2004 MET | foverd (MM)(m3c-bru-14) (PID 18245) <Warning>
Received msg from invalid host (10.48.84.67):
'H9425MM0012819864m3c-bru-5a DA'

Thu Mar 18 20:32:58:934 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0001) 0: Heartbeat Ack Chunk from destaddr
10.48.84.179

Thu Mar 18 20:33:01:273 2004 MET | m3ua-1 (PID 18243) <Debug>
procIpcMsg myCcMOO 3

Thu Mar 18 20:33:01:273 2004 MET | m3ua-1 (PID 18243) <Debug>
actvProcIpc, Got Event Type 4099

Thu Mar 18 20:33:01:273 2004 MET | m3ua-1 (PID 18243) <Debug>
RECEIVED STATISTICS REQ FROM IOCM

Informations connexes

- [Notes techniques du commutateur logiciel Cisco PGW 2200](#)
- [Documentation technique des contrôleurs de signalisation Cisco](#)
- [Assistance technique concernant la technologie vocale](#)
- [Support produit pour Voix et Communications IP](#)
- [Dépannage des problèmes de téléphonie IP Cisco](#)
- [Support technique - Cisco Systems](#)