



## ICSR Bulk Statistics

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## Revision History



**Note** Revision history details are not provided for features introduced before release 21.24.

Revision Details	Release
First introduced	Pre 21.24

## Feature Description

This feature provides the support for ICSR Bulk Statistics schema on the User Plane.

## Configuring the ICSR Bulk statistics Schema

Following is the sample configuration to configure the few of the ICSR schema on the User Plane:

```
configure
  bulkstats collection collection_detail
  bulkstats mode mode_name
  sample interval interval_value
  file file_number
  icsr schema icsr_schema format "ICSR:
switchover-number:%switchover-number% switchover-time:%switchover-time%,
switchover-reason:%switchover-reason%"
end
```

## Show CLIs

Following are the show command CLIs to fetch the ICSR schema bulk statistics data.

- **Show bulk stats data** - displays criteria contained in the statistics gathering scheme for up to four files. See viewing collected bulk statistics data.
- **bulk force gather** – displays the bulkstats data.
- **show bulkstats schemas** - displays the scheme used to gather statistics including collection and transmission statistics. See verifying your configuration.
- **show bulkstats variables** - displays available bulkstat variables (%variable%) by schema type that can be incorporated into a schema format.
- **show configuration bulkstats brief** - displays the bulkstats configuration at a global scope and displays the server configuration. It does not display the schema configuration.

## Bulk Statistics

Run the following CLI on User Plane to check the counters available for ICSR schema.

```
show bulkstats variables icshr
```

The following table includes the details of the ICSR counters supported on the User Plane:

**Table 1: ICSR Counters applicable in UP**

ICSR Counters	Description
switchover-number	Identifying number of switchovers since the last chassis rebooted.
switchover-time	Timestamp for when the switchover was initiated.
switchover-reason	Reason for switchover (manual and BGP failure and auth probe failure and so on).
switchover-duration	Amount of time it took to complete the switchover.
total-num-act-calls-swo-time	Total number of active calls at the time of the switchover.
total-num-lost-calls-swo-time	Total number of data sessions lost due to the switchover.
audit_number	Identifying number of recent audits performed since the last system reboot.
audit_chassis_state	Chassis state (active/standby) on which the audit was performed.
audit_start_time	Timestamp for when the audit was initiated.
ext-audit-sync-start-time	External audit synchronization start time on standby chassis
ready-for-switchover-time	Timestamp on standby chassis when it is ready for next switchover
audit_duration	Amount of time it took to complete the audit
audit_reason	Reason for the audit
total_audit_active_sessions	Total number of active sessions found during the audit.

<b>ICSR Counters</b>	<b>Description</b>
total_audit_new_sessions	Total number of new sessions found during the audit.
total_audit_stale_sessions	Total number of stale sessions found during the audit.
total_audit_inactive_sessions	Total number of inactive sessions found during the audit.
total_sessmgr	Total number of session manager instances on the chassis.
total_sessmgr_active_connected	Total number of session managers in the active-connected state.
total_sessmgr_standby_connected	Total number of session manager instances in the standby-connected state.
total_sessmgr_pending_connected	Total number of sessions manager instances in the pending-connected state.
total_sess_crr_count	Total number of currently existing Call Recovery Records (CRRs).
total_sess_crr_pre_installed	Total number of currently existing pre-installed CRRs.
total-num-act-sessions-swo-time	Total number of fully connected sessions found during the switchover event.
total-num-lost-sessions-swo-time	Total number of fully connected sessions lost during the switchover event
critical-flush-duration	Amount of time it took to complete the critical flush.
total-num-checkpoint-fc-flush	Total number of full checkpoints flushed during switchover
total-num-checkpoint-critical-mc-flush	Total number of critical micro checkpoints flushed during switchover
total-num-checkpoint-mc-flush	Total number of micro checkpoints flushed during switchover
total_first_fc_during_critical_flush	Total number of full checkpoints found during critical flush.
total-num-first-fc-never-sent	Total number of first full checkpoints never sent during switchover
total-num-critical-fc-not-sent	Total number of critical full checkpoints not sent during switchover
checkpoints-never-sent	Total number of SRP checkpoints that were never sent.
checkpoints-send-failed	Total number of sent SRP checkpoints that failed.

