

# 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 icsr
```

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. |

| ICSR Counters | Description |
|---|---|
| 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. |