



Monitoring and Troubleshooting Sx Interface in CUPS

This section provides information about the CLI commands available to monitor and/or troubleshoot Sx Interface in CUPS.

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Show Command(s) and/or Outputs

This section provides information regarding show commands and/or their outputs in support of this feature.

show sx-service all

The output of this command has been enhanced to include the following new fields in support of the Sx Service in CUPS.

- Service name
- Service-Id
- Context
- Status
- Instance Type
- SX Bind IPv4 Address
- SX Bind IPv6 Address
- SX Association Reattempt Timeout
- SX Recovery Time Stamp
- SxA
 - SX Retransmission Timeout
 - SX Maximum Request Retransmissions

- SxB
 - SX Retransmission Timeout
 - SX Maximum Request Retransmissions
- SXAB
 - SX Retransmission Timeout
 - SX Maximum Request Retransmissions
- SX Heartbeat
 - Interval
 - Retransmission Timeout
 - Max Retransmission
- SX path failure detection policy
 - Heartbeat Timeout
 - Heartbeat Req/Rsp Recovery timestamp change
 - Control Msg Recovery timestamp change

show sx-service name

The output of this command is similar to the **show sx-service all** CLI command and displays the field for the specified sx-service name.

show saegw-service all

The output of this command has been enhanced to include the following new field in support of the Sx Service associated with an SAEGW Service.

sx-service

show saegw-service name

The output of this command is similar to the **show saegw-service all** CLI command and displays the field for the specified saegw-service name.

show sx-service statistics all

The output of this command has been enhanced to include the following new fields and statistics in support of the Sx Service.

- Session Management Messages
- Session Establishment Request

- Total TX
- Total RX
- Initial TX
- Initial RX
- Retrans TX
- Retrans RX
- Discarded
- No Rsp RX

- Session Establishment Response
 - Total TX
 - Total RX
 - Initial TX
 - Accepted
 - Denied
 - Initial RX
 - Accepted
 - Denied
 - Retrans RX
 - Discarded

- Session Modification Request
 - Total TX
 - Total RX
 - Initial TX
 - Initial RX
 - Retrans TX
 - Retrans RX
 - Discarded
 - No Rsp RX

- Session Modification Response
 - Total TX
 - Total RX

- Initial TX
 - Accepted
 - Denied
- Initial RX
 - Accepted
 - Denied
- Retrans TX
 - Discarded
- Session Deletion Request
 - Total TX
 - Total RX
 - Initial TX
 - Initial RX
 - Retrans TX
 - Retrans RX
 - Discarded
 - No Rsp RX
- Session Deletion Response
 - Total TX
 - Accepted
 - Denied
 - Total RX
 - Accepted
 - Denied
 - Discarded
- Session Report Request
 - Total TX
 - Total RX
 - Initial TX
 - Initial RX
 - Retrans TX

- Retrans RX
- Discarded
- No Rsp RX
- Session Report Response
 - Total TX
 - Total RX
 - Initial TX
 - Accepted
 - Denied
 - Initial RX
 - Accepted
 - Denied
 - Retrans TX
 - Discarded
- Node Management Messages
- Prime PFD Management Request
 - Total TX
 - Total RX
 - Initial TX
 - Initial RX
 - Retrans TX
 - Retrans RX
 - No Rsp received TX
 - Discarded
- Prime PFD Management Response
 - Total TX
 - Total RX
 - Initial TX
 - Accepted
 - Denied
 - Initial RX

- Accepted
- Denied
- Retrans TX
- Discarded
- Total Signalling Bytes
 - TX
 - RX

show sx-service statistics header-decoder-error

the output of this command has been enhanced to include the following new fields in the header decoder error statistics for the Sx-service

- Message header decoder errors at SX
 - Incorrect PFCP version
 - Incorrect PFCP version discard rsp msg
 - Unsupported msg received
 - Incorrect msg length
 - Invalid msg format

show logging active

The output of this command has been enhanced to include the following new field in support of the Sx Demux in CUPS.

sxdemux

show task resources facility sxdemux

The output of this command has been enhanced to include the following new field in support of the Sx Demux in CUPS.

sxdemux

show task resources facility sxdemux all

The output of this command has been enhanced to include the following new field in support of the Sx Demux in CUPS.

sxdemux

show task memory facility sxdemux all

The output of this command has been enhanced to include the following new field in support of the Sx Demux in CUPS.

sxdemux

Monitor Protocol

When using the monitor protocol command, enable option 49 to see all Sx Session Establishment Request and Sx Session Establishment Response on C-Plane.

