



## show sls-service

This chapter includes the **show sls-service** command output tables.

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## show sls-service all

*Table 1: show sls-service all Command Output Descriptions*

| Field                   | Description   |
|-------------------------|---|
| Service name            | The configured SLs service name.  |
| Service id              | The system generated identification number of the SLs service.  |
| Context                 | The name of the context in which SLs service is configured.   |
| Status                  | Status of this SLs service.   |
| Bind                    | Indicates whether the service is bound to an interface.: Done or None.  |
| SLs-MME IP Address      | The IP address(es) configured for this SLs service.   |
| SCTP Port               | The source port number for SCTP communications.   |
| T-3x01 (Low Delay)      | The number of seconds configured for the T-3x01 (Low Delay) timer, which defines the number of seconds the MME waits for a "low delay" response from the E-SMLC.  |
| T-3x01 (Delay Tolerant) | The number of seconds configured for the T-3x01 (Delay Tolerant) timer, which defines the number of seconds the MME waits for a "delay tolerant" response from the E-SMLC.  |
| T-3x02                  | The number of seconds configured for the T-3x02 timer. The T-3x02 timer is started on the MME when the MME sends a RESET REQUEST to the E-SMLC. Once the T3x02 timer expires, the MME can resend the RESET REQUEST to the E-SMLC. |

| Field                          | Description   |
|--------------------------------|---|
| Max Re-Transmission            | The configured maximum number of times the MME will resend a RESET REQUEST to the ESMLC.  |
| SCTP Param Template Associated | Displays the name of the SCTP Parameter Template associated with the service.<br><b>Note:</b> If no SCTP Parameter Template has been associated with this SLs Service, this output field and all the following SCTP fields are not shown. |
| SCTP Alpha                     | Displays the SCTP Retransmission Timeout (RTO) alpha value as configured in the SCTP Parameter Template.  |
| SCTP Beta                      | Displays the SCTP Retransmission Timeout (RTO) beta value as configured in the SCTP Parameter Template.   |
| SCTP Checksum Type             | Displays the SCTP checksum type as configured in the SCTP Parameter Template.   |
| SCTP Valid Cookie Lifetime     | Displays the SCTP cookie lifetime value as configured in the SCTP Parameter Template.   |
| SCTP Max Assoc Retrans         | Displays the maximum number of retransmissions for SCTP associations value as configured in the SCTP Parameter Template.  |
| SCTP Max Number of In Streams  | Displays the maximum number of incoming streams for SCTP value as configured in the SCTP Parameter Template.  |
| SCTP Init Retransmissions      | Displays the maximum number of retransmissions for SCTP initiations value as configured in the SCTP Parameter Template.   |
| SCTP Max MTU                   | Displays the maximum Maximum Transmission Unit (MTU) size for SCTP value as configured in the SCTP Parameter Template.  |
| SCTP Max Number of Out Streams | Displays the maximum number of outgoing streams for SCTP value as configured in the SCTP Parameter Template.  |
| SCTP Path Retransmissions      | Displays the maximum number of retransmissions for SCTP paths value as configured in the SCTP Parameter Template.   |
| SCTP Min MTU                   | Displays the minimum Maximum Transmission Unit (MTU) size for SCTP value as configured in the SCTP Parameter Template.  |
| SCTP RTO Initial               | Displays the initial time for SCTP Retransmission Timeout (RTO) value as configured in the SCTP Parameter Template.   |
| SCTP RTO Max                   | Displays the maximum time for SCTP Retransmission Timeout (RTO) value as configured in the SCTP Parameter Template.   |
| SCTP RTO Min                   | Displays the minimum time for SCTP Retransmission Timeout (RTO) value as configured in the SCTP Parameter Template.   |

| Field                      | Description  |
|----------------------------|--|
| SCTP Sack Frequency        | Displays the frequency for SCTP Selective Acknowledgement value as configured in the SCTP Parameter Template.          |
| SCTP Sack Period           | Displays the period of time for SCTP Selective Acknowledgement value as configured in the SCTP Parameter Template.     |
| SCTP Start MTU             | Displays the initial Maximum Transmission Unit (MTU) size for SCTP value as configured in the SCTP Parameter Template. |
| SCTP Heartbeat Status      | Displays the SCTP heartbeat status as configured in the SCTP Parameter Template.                                       |
| SCTP HeartBeat Timer       | Displays the SCTP heartbeat timer value as configured in the SCTP Parameter Template.                                  |
| SCTP Bundle Status         | Displays the SCTP data chunk bundle status as configured in the SCTP Parameter Template.                               |
| SCTP Bundle Timer          | Displays the SCTP data chunk bundle timer value as configured in the SCTP Parameter Template.                          |
| SCTP Alternate Accept Flag | Displays the SCTP additional lifetime accept flag status as configured in the SCTP Parameter Template.                 |

## show sls-service statistics

Table 2: show sls-service statistics Command Output Descriptions

| Field               | Description  |
|---------------------|--|
| SLS-AP Statistics   |  |
| Sent Messages:      |  |
| Location Request    | The total number of SLS Application Protocol - Location Request messages transmitted.                    |
| Location Abort      | The total number of SLS Application Protocol - Location Abort messages transmitted.                      |
| Connection Info     | The total number of SLS Application Protocol - Connection oriented information messages transmitted.     |
| Connectionless Info | The total number of SLS Application Protocol - Non Connection oriented information messages transmitted. |
| Reset Req           | The total number of SLS Application Protocol - Reset messages transmitted.                               |
| Reset Ack           | The total number of SLS Application Protocol - Reset acknowledgements transmitted.                       |

| Field                    | Description   |
|--------------------------|---|
| Received Messages:       |   |
| Location Response        | The total number of SLs Application Protocol - Location Responses received.   |
| Connection Info          | The total number of SLs Application Protocol - Connection oriented information messages received.   |
| Connectionless Info      | The total number of SLs Application Protocol - Non Connection oriented information messages received.   |
| Reset Req                | The total number of SLs Application Protocol - Reset messages received.   |
| Reset Ack                | The total number of SLs Application Protocol - Reset Acknowledgements received.   |
| SCTP Statistics          |   |
| Transmitted SCTP Data    | This sub-group displays the statistics of the total data processed and transmitted over Stream Control Transmission Protocol (SCTP) interface by the SLs service. |
| Init Chunks              | The total SCTP packets with INIT transmitted by the SLs service.  |
| Init Ack Chunks          | The total SCTP packets with INIT-ACK transmitted by the SLs service.  |
| Shutdown Chunks          | The total SCTP packets with SHUTDOWN transmitted by the SLs service.  |
| Shutdown Ack Chunks      | The total SCTP packets with SHUTDOWN-ACK transmitted by the SLs service.  |
| Cookie Chunks            | The total SCTP packets with COOKIE transmitted by the SLs service.  |
| Cookie Ack Chunks        | The total SCTP packets with COOKIE-ACK transmitted by the SLs service.  |
| Data Chunks              | The total SCTP packets with DATA transmitted by the SLs service.  |
| Data Ack Chunks          | The total SCTP packets with DATA-ACK transmitted by the SLs service.  |
| Shutdown Complete Chunks | The total SCTP packets with SHUTDOWN-COMPLETE transmitted by the SLs service.   |
| Heartbeat Chunks         | The total SCTP packets with HEARTBEAT transmitted by the SLs service.   |
| HeartBeat Ack Chunks     | The total SCTP packets with HEARTBEAT-ACK transmitted by the SLs service.   |

| Field                    | Description  |
|--------------------------|--|
| Abort Chunks             | The total SCTP packets with ABORT transmitted by the SLs service.  |
| Error Chunks             | The total SCTP packets with ERROR transmitted by the SLs service.  |
| Received SCTP Data       | This sub-group displays the statistics of the total data received and processed by the SLs service.      |
| Init Chunks              | The total SCTP packets with INIT received by the SLs service.  |
| Init Ack Chunks          | The total SCTP packets with INIT-ACK received by the SLs service.  |
| Shutdown Chunks          | The total SCTP packets with SHUTDOWN received by the SLs service.  |
| Shutdown Ack Chunks      | The total SCTP packets with SHUTDOWN-ACK received by the SLs service.                                    |
| Cookie Chunks            | The total SCTP packets with COOKIE received by the SLs service.  |
| Cookie Ack Chunks        | The total SCTP packets with COOKIE-ACK received by the SLs service.                                      |
| Data Chunks              | The total SCTP packets with DATA received by the SLs service.  |
| Data Ack Chunks          | The total SCTP packets with DATA-ACK received by the SLs service.  |
| Shutdown Complete Chunks | The total SCTP packets with SHUTDOWN-COMPLETE received by the SLs service.                               |
| Heartbeat Chunks         | The total SCTP packets with HEARTBEAT received by the SLs service.                                       |
| HeartBeat Ack Chunks     | The total SCTP packets with HEARTBEAT-ACK received by the SLs service.                                   |
| Abort Chunks             | The total SCTP packets with ABORT received by the SLs service.   |
| Error Chunks             | The total SCTP packets with ERROR received by the SLs service.   |
| Retransmitted SCTP Data  | This sub-group displays the statistics of the total data processed and retransmitted by the SLs service. |
| Init Chunks              | The total SCTP packets with INIT retransmitted by the SLs service.                                       |
| Shutdown Chunks          | The total SCTP packets with SHUTDOWN retransmitted by the SLs service.                                   |

| Field                  | Description   |
|------------------------|---|
| Shutdown Ack Chunks    | The total SCTP packets with SHUTDOWN-ACK retransmitted by the SLs service.    |
| Cookie Chunks          | The total SCTP packets with COOKIE retransmitted by the SLs service.          |
| Data Chunks            | The total SCTP packets with DATA transmitted by the SLs service.              |
| Total Bytes Sent       | The total number of SCTP bytes transmitted by the SLs service to the eSMLC.   |
| Total Bytes Received   | The total number of SCTP bytes received by the SLs service from the eSMLC.    |
| Total Packets Sent     | The total number of SCTP packets transmitted by the SLs service to the eSMLC. |
| Total Packets Received | The total number of SCTP packets received by the SLs service from the eSMLC.  |