



show sndcp-statistics

This chapter describes the output of the **show sndcp-statistics** command variants.

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show sndcp statistics verbose

Table 1: show sndcp statistics verbose Command Output Descriptions

| Field | Description |
|-------------------------|---|
| SND CP Data Statistics: | |
| Un-Acknowledged mode: | |
| SN-PDUs received | <p>Description: This proprietary counter indicates the total number of SN-PDUs received by SND CP.</p> <p>Triggers: Increments when an SN-PDU is received by SND CP.</p> <p>Availability: per SGSN service</p> |
| SN-PDU Bytes received | <p>Description: This proprietary counter indicates the total number of SN-PDU bytes received by SND CP.</p> <p>Triggers: Increments when an SN-PDU is received by SND CP.</p> <p>Availability: per SGSN service</p> |
| SN-PDUs dropped | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SND CP due to various reasons.</p> <p>Triggers: Increments when SN-PDUs are dropped at SND CP for various error cases as explained by the specific Drop reason counters below.</p> <p>Availability: per SGSN service</p> |

| Field | Description |
|-------------------------|---|
| SN-PDU Bytes dropped | <p>Description: This proprietary counter indicates the total number of SN-PDU bytes dropped at SNDCCP due to various reasons.</p> <p>Triggers: Increments when SN-PDUs are dropped at SNDCCP for various error cases as explained by the specific Drop reason counters below.</p> <p>Availability: per SGSN service</p> |
| SN-PDU Drop Reason: | |
| Invalid SAPI State | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDCCP due to invalid SAPI state.</p> <p>Triggers: Increments when SN-PDUs are received in invalid SAPI state.</p> <p>Availability: per SGSN service</p> |
| Invalid PDP Ctx | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDCCP due to invalid PDP context.</p> <p>Triggers: Increments when SN-PDUs are received by a non-existent PDP Context or non-existent subscriber.</p> <p>Availability: per SGSN service</p> |
| Decode Failure | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDCCP due to decode failure.</p> <p>Triggers: Increments when Decode failures occur for SN-PDUs.</p> <p>Availability: per SGSN service</p> |
| Reassembly Drops: | |
| Discard State | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDCCP in discard state.</p> <p>Triggers: Increments when SN-PDUs are dropped and an unexpected segment is received to enter discard state. SNDCCP entity expects either a first segment or subsequent segment. Reception of last segment clears this state.</p> <p>Availability: per SGSN service</p> |
| Rx First Seg State | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDCCP in Receive First Segment state.</p> <p>Triggers: In receive first segment state, only first segment of N-PDU is expected. If subsequent segmented is received, it is dropped with this reason and enters discard state.</p> <p>Availability: per SGSN service</p> |
| Rx Subsequent Seg State | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDCCP due to reassembly failure.</p> <p>Triggers: In receive subsequent segment state, only subsequent segments of N-PDU are expected. If first segment is received, it is dropped with this reason and enters discard state.</p> <p>Availability: per SGSN service</p> |

| Field | Description |
|--------------------|--|
| New First Segment | <p>Description: This proprietary counter indicates the total number of buffered SN-PDUs dropped at SNDTCP due to reception of new N-PDU.</p> <p>Triggers: Increments when reception of new N-PDU drops buffered SN-PDUs, if any with this reason.</p> <p>Availability: per SGSN service</p> |
| Reassembly Failure | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to reassembly failure.</p> <p>Triggers: Increments when SN-PDUs are dropped at SNDTCP due to reassembly failure.</p> <p>Availability: per SGSN service</p> |
| Reassembly Timeout | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to reassembly timeout.</p> <p>Triggers: Increments when the buffered segments are dropped and the last segment is not received before reassembly timer expiry.</p> <p>Availability: per SGSN service</p> |
| DCOMP Error | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to DCOMP (Data Compression algorithm ID) error.</p> <p>Triggers: Increments when SN-PDUs are received with invalid DCOMP value or DCOMP value different from that negotiated between MS and SGSN.</p> <p>Availability: per SGSN service</p> |
| PCOMP Error | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to PCOMP (Protocol Header Compression algorithm ID).</p> <p>Triggers: Increments when SN-PDUs are received with invalid PCOMP value or PCOMP value different from that negotiated between MS and SGSN.</p> <p>Availability: per SGSN service</p> |
| PDP Ctx Modified | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to PDP modification.</p> <p>Triggers: Increments when buffered data segments (SN-PDUs) are dropped during PDP context modification.</p> <p>Availability: per SGSN service</p> |
| PDP Ctx Deleted | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to PDP deletion.</p> <p>Triggers: Increments when buffered data segments (SN-PDUs) are dropped at SNDTCP due to PDP context deletion.</p> <p>Availability: per SGSN service</p> |

| Field | Description |
|---------------|--|
| Other Reasons | <p>Description: This proprietary counter indicates the total number of SN-PDUs dropped at SNDTCP due to any other reason than those mentioned above.</p> <p>Triggers: Increments when buffered data segments (SN-PDUs) are dropped at SNDTCP due to other reasons than those mentioned above.</p> <p>Availability: per SGSN service</p> |