



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

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

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

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