

Chapter 4

SNMP Monitoring and Troubleshooting

Table 7 summarizes the command-line interface (CLI) commands that allow you to monitor SNMP. In the table, the commands are grouped by functionality. In the remainder of this chapter, they are explained alphabetically.

Table 7: Commands for Monitoring and Managing SNMP

Task or Information to Monitor	Command
SNMP statistics	show snmp statistics on page 103
	clear snmp statistics on page 102

clear snmp statistics

Syntax clear snmp statistics

Description Clear SNMP statistics.

Required Privilege Level clear

Sample Output

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user@host> show snmp statistics
SNMP statistics:
  Input:
    Packets: 8, Bad versions: 0, Bad community names: 0,
    Bad community uses: 0, ASN parse errors: 0,
    Too big: 0, No such names: 0, Bad values: 0,
    Read onlys: 0, General errors: 0,
    Total request varbinds: 8, Total set varbinds: 0,
    Get requests: 0, Get nexts: 8, Set requests: 0,
    Get responses: 0, Traps: 0,
    Silent drops: 0, Proxy drops 0
  Output:
    Packets: 2298, Too big: 0, No such names: 0,
    Bad values: 0, General errors: 0,
    Get requests: 0, Get nexts: 0, Set requests: 0,
    Get responses: 8, Traps: 2290

user@host> clear snmp statistics

user@host> show snmp statistics
SNMP statistics:
  Input:
    Packets: 0, Bad versions: 0, Bad community names: 0,
    Bad community uses: 0, ASN parse errors: 0,
    Too big: 0, No such names: 0, Bad values: 0,
    Read onlys: 0, General errors: 0,
    Total request varbinds: 0, Total set varbinds: 0,
    Get requests: 0, Get nexts: 0, Set requests: 0,
    Get responses: 0, Traps: 0,
    Silent drops: 0, Proxy drops 0
  Output:
    Packets: 0, Too big: 0, No such names: 0,
    Bad values: 0, General errors: 0,
    Get requests: 0, Get nexts: 0, Set requests: 0,
    Get responses: 0, Traps: 0

```

show snmp statistics

Syntax	show snmp statistics
Description	Display statistics about SNMP packets sent and received by the router.
Output Fields	<p>Input—Information about received packets:</p> <p>Packets—(snmplnPkts) Total number of messages delivered to the SNMP entity from the transport service.</p> <p>Bad versions—(snmplnBadVersions) Total number of messages delivered to the SNMP entity that were for an unsupported SNMP version.</p> <p>Bad community names—(snmplnBadCommunityNames) Total number of messages delivered to the SNMP entity that used an SNMP community name not known to the entity.</p> <p>Bad community uses—(snmplnBadCommunityUses) Total number of messages delivered to the SNMP entity that represented an SNMP operation that was not allowed by the SNMP community named in the message.</p> <p>ASN parse errors—(snmplnASNParseErrs) Total number of ASN.1 or BER errors encountered by the SNMP entity when decoding received SNMP messages.</p> <p>Too big—(snmplnTooBigs) Total number of SNMP PDUs delivered to the SNMP entity with an error status field of tooBig.</p> <p>No such names—(snmplnNoSuchNames) Total number of SNMP PDUs delivered to the SNMP entity with an error status field of noSuchName.</p> <p>Bad values—(snmplnBadValues) Total number of SNMP PDUs delivered to the SNMP entity with an error status field of badValue.</p> <p>Read only—(snmplnReadOnlys) Total number of valid SNMP PDUs delivered to the SNMP entity with an error status field of readOnly. Only incorrect implementations of SNMP generate this error.</p> <p>General errors—(snmplnGenErrs) Total number of SNMP PDUs delivered to the SNMP entity with an error status field of genErr.</p> <p>Total requests varbinds—(snmplnTotalReqVars) Total number of MIB objects retrieved successfully by the SNMP entity as a result of receiving valid SNMP GetRequest and GetNext PDUs.</p> <p>Total set varbinds—(snmplnSetVars) Total number of MIB objects modified successfully by the SNMP entity as a result of receiving valid SNMP SetRequest PDUs.</p> <p>Get requests—(snmplnGetRequests) Total number of SNMP GetRequest PDUs that have been accepted and processed by the SNMP entity.</p> <p>Get nexts—(snmplnGetNexts) Total number of SNMP GetNext PDUs that have been accepted and processed by the SNMP entity.</p> <p>Set requests—(snmplnSetRequests) Total number of SNMP SetRequest PDUs that have been accepted and processed by the SNMP entity.</p>

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