

show snmp

This chapter describes the output of the **show snmp** command.

- show snmp accesses, on page 1
- show snmp communities, on page 2
- show snmp notifies, on page 2
- show snmp server, on page 3
- show snmp trap history, on page 4
- show snmp trap statistics, on page 4

show snmp accesses

Table 1: show snmp accesses Command Output Descriptions

Field	Description
SNMP Usage Statistics:	
Get PDUs Received	The number of SNMP Get request packet data units (PDUs) received by the system from the SNMP alarm server.
GetNext PDUs Received	The number of SNMP GetNext request packet data units (PDUs) received by the system from the SNMP alarm server.
Set PDUs Received	The number of SNMP Set request packet data units (PDUs) received by the system from the SNMP alarm server.
PduTooBig Errors	The number of errors that occurred due to the packet data unit being received is too large.
NoSuchName Errors	The number of errors that occurred due to the packet data unit being requested not existing in the system. For example, this error would be generated if an SNMP "GET" request was received for an OID that doesn't exist in the system.
BadValue Errors	The number of errors that occurred due to the receipt of a bad value. For example, this error would be generated if an SNMP "SET" operation provides an illegal value.

Field	Description
GenError Errors	The number errors that occurred that could not be properly classified. For example, this error would be generated if the system receives a valid SNMP "GET" PDU requesting a piece of data about a card, however, the system experiences an internal error attempting to reach the card.
Agent started	The date and time when the SNMP agent was started.

show snmp communities

Table 2: show snmp communities Command Output Descriptions

Field	Description
Community Name	Displays the name of the SNMP community.
Access Level	Displays the access level – "read-only" or "read-write".

show snmp notifies

Table 3: show snmp notifies Command Output Descriptions

Field	Description
SNMP Notification Statistics:	
Total number of notifications	The total number of notifications that have been sent to the SNMP alarm server since notification was enabled.
Last notification sent	The last date and time that a notification was sent to the SNMP alarm server.
Notification sending is	Indicates whether the sending of notifications is enabled or disabled on the system.
Notifications have never been disabled	Indicates whether or not the sending of SNMP notifications has ever been disabled.
Notifications in current period	The number of notifications that have been sent to the SNMP alarm server during the current monitor period.
Notifications in previous period	The number of notifications that have been sent to the SNMP alarm server during the previous monitor period.
Notification monitor period	The duration of the monitor period in seconds.
Trap Name	The trap name.
#Gen	The number of times notifications were generated for the trap.

Field	Description
#Disc	The disc number.
Disable	The number of notifications disabled.
Last Generated	The last date and time that a notification generated.
Total number of notifications Disabled	The total number of notifications disabled.

show snmp server

Table 4: show snmp server Command Output Descriptions

Field	Description
SNMP Server Configuration:	
Server State	Identifies the current server state, for example "enabled".
SNMP Port	Identifies the SNMP port number. Default = 161.
sysLocation	Displays the System Location.
sysContact	Displays the System contact information.
authenticationFail traps	Indicates whether this trap is Enabled or Disabled.
EngineID	Displays the SNMP Engine identifier.
Runtime Debugging	Indicates whether SNMP runtime debugging is enabled (ON) or disabled (OFF). By default the setting is ON.

Field	Description
Runtime Debug Token	Displays the numerical value(s) corresponding to SNMP DEBUGMSG tokens that have been enabled: • 1 = mib_init • 2 = parse-file • 3 = parse-mibs • 4 = read_config • 5 = snmp • 6 = snmpd • 7 = snmptrapd • 8 = trap • 9 = transport • 10 = usm • 11 = disman • 12 = agentx • 13 = dumph • 14 = init_mib
Alert Threshold	"<number> of alerts in <number> seconds"
Alert Low Threshold	"<number> of alerts in <number> seconds"
SNMP Agent Mib Configuration:	
<mib_name>	Lists available SNMP MIBs and whether they are Enabled or Disabled.

show snmp trap history

Table 5: show snmp trap history Command Output Descriptions

Field	Description
There are <> historical trap records (5000 maximum)	
Timestamp	Identifies the date and time the event trap was generated.
Trap Information	Shows the trap notification number and the associated device.

show snmp trap statistics

Table 6: show snmp trap statistics Command Output Descriptions

Field	Description
SNMP Notification Statistics:	

Field	Description
Total number of notifications	The total number of notifications sent to the SNMP alarm server since notification was enabled.
Last notification sent	The last date and time that a notification was sent to the SNMP alarm server.
Notification sending is	Indicates whether notification sending is enabled/disabled.
Notifications have never been disabled	Indicates whether notification sending was ever disabled.
Notifications have never been cleared	Indicates whether notification sending was ever cleared.
Notifications in current period	The number of notifications that have been sent to the SNMP alarm server during the current monitor period.
Notifications in previous period	The number of notifications that have been sent to the SNMP alarm server during the previous monitor period.
Notification monitor period	The duration of the monitor period in seconds.
Trap Name	The trap name.
#Gen	The number of times notifications were generated for the trap.
#Disc	The disc number.
Disable	The number of notifications disabled.
Last Generated	The last date and time that a notification generated.
Total number of notifications Disabled	The total number of notifications disabled.