

How to config Syslog via SNMP on DES-3528/52 Series

MIB: syslog.mib

OIDs:

Syslog Global Status: 1.3.6.1.4.1.171.12.12.1

The screenshot shows a MIB browser interface with the following details for the selected object:

Object name	swSysLogCtrlState
Object ID	1.3.6.1.4.1.171.12.12.1
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swSysLogMIB
First child	None
Description	This object enables or disables the System Log function during system runtime.

Syslog Server Facility: 1.3.6.1.4.1.171.12.12.2.1.3

The screenshot shows a MIB browser interface with the following details for the selected object:

Object name	swSysLogServerFacility
Object ID	1.3.6.1.4.1.171.12.12.2.1.3
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Value list	1 : local0(0) 2 : local1(1) 3 : local2(2) 4 : local3(3) 5 : local4(4) 6 : local5(5) 7 : local6(6) 8 : local7(7)
Parent node	swSysLogServerEntry
First child	None
Description	syslog Message Facilities

Syslog Server Severity: 1.3.6.1.4.1.171.12.12.2.1.4

The screenshot shows a MIB browser interface for the SYSLOG-MIB module. The tree view on the left highlights the object `swSysLogServerSeverity` under the `swSysLogServerEntry` node. The right pane displays the following details:

Object name	swSysLogServerSeverity
Object ID	1.3.6.1.4.1.171.12.12.2.1.4
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Value list	1 : all(1) 2 : warning(2) 3 : informational(3) 4 : emergency(4) 5 : alert(5) 6 : critical(6) 7 : error(7) 8 : notice(8) 9 : debug(9)
Parent node	swSysLogServerEntry
First child	None
Description	syslog Message Severities

Syslog Server UDP Port: 1.3.6.1.4.1.171.12.12.2.1.5

The screenshot shows a MIB browser interface for the SYSLOG-MIB module. The tree view on the left highlights the object `swSysLogServerUDPPort` under the `swSysLogServerEntry` node. The right pane displays the following details:

Object name	swSysLogServerUDPPort
Object ID	1.3.6.1.4.1.171.12.12.2.1.5
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Parent node	swSysLogServerEntry
First child	None
Description	syslog uses the user datagram protocol (UDP) as its underlying transport layer mechanism. The UDP port that has been assigned to syslog is 514. It is RECOMMENDED that the source port also be 514 to indicate that the message is from the syslog process of the sender, but there have been cases seen where valid syslog messages have come from a sender with a source port other than 514. If the sender uses a source port other than 514 then it is RECOMMENDED that subsequent messages will always be from the single consistent port used by the sender.

Syslog Server State: 1.3.6.1.4.1.171.12.12.2.1.6

The screenshot shows a MIB browser interface for the SYSLOG-MIB module. The tree view on the left highlights the object `swSysLogServerState` under the `swSysLogServerEntry` node. The right pane displays the following details:

Object name	swSysLogServerState
Object ID	1.3.6.1.4.1.171.12.12.2.1.6
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swSysLogServerEntry
First child	None
Description	Enables or disables the specified System Log Server during runtime

Syslog Server Row Status (for create or delete server): 1.3.6.1.4.1.171.12.12.2.1.7

The screenshot shows a MIB browser window with the tree view expanded to `swSysLogServerEntry` and `swSysLogServerRowStatus` selected. The right pane displays the following details:

Object name	swSysLogServerRowStatus
Object ID	1.3.6.1.4.1.171.12.12.2.1.7
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	RowStatus
Access	Read-Create
Status	Current
Value list	1 : active(1) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6)
Parent node	swSysLogServerEntry
First child	None
Description	Indicates the status of this entry. When creating a syslog server entry, the IP address should also be set.

Syslog Server Address Type: 1.3.6.1.4.1.171.12.12.2.1.8

The screenshot shows a MIB browser window with the tree view expanded to `swSysLogServerEntry` and `swSysLogServerAddrType` selected. The right pane displays the following details:

Object name	swSysLogServerAddrType
Object ID	1.3.6.1.4.1.171.12.12.2.1.8
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	InetAddressType
Access	Read-Create
Status	Current
Value list	1 : unknown(0) 2 : ipv4(1) 3 : ipv6(2) 4 : dns(16)
Parent node	swSysLogServerEntry
First child	None
Description	Specifies the address type of the System Log Server.

Syslog Server Address: 1.3.6.1.4.1.171.12.12.2.1.9

The screenshot shows a MIB browser window with the tree view expanded to `swSysLogServerEntry` and `swSysLogServerAddr` selected. The right pane displays the following details:

Object name	swSysLogServerAddr
Object ID	1.3.6.1.4.1.171.12.12.2.1.9
Module	SYSLOG-MIB
Base syntax	Octet String
Composed syntax	InetAddress
Access	Read-Create
Status	Current
Value list	1 : 0..255
Parent node	swSysLogServerEntry
First child	None
Description	Specifies the address of the System Log Server.

Command examples:

enable syslog

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.12.1.0 i 3
```

create syslog host 1 ipaddress 192.168.1.1

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.6.1 i 3  
1.3.6.1.4.1.171.12.12.2.1.7.1 i 4 1.3.6.1.4.1.171.12.12.2.1.8.1 i 1  
1.3.6.1.4.1.171.12.12.2.1.9.1 x c0a80101
```

Note: 192.168.1.1 = 0xC0A80101

delete syslog host 1

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.7.1 i 6
```

**create syslog host 2 ipaddress 10.10.10.1 severity informational facility local2
udp_port 6000 state enable**

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.3.2 i 2  
1.3.6.1.4.1.171.12.12.2.1.4.2 i 3 1.3.6.1.4.1.171.12.12.2.1.5.2 i 6000  
1.3.6.1.4.1.171.12.12.2.1.6.2 i 3 1.3.6.1.4.1.171.12.12.2.1.7.2 i 4  
1.3.6.1.4.1.171.12.12.2.1.8.2 i 1 1.3.6.1.4.1.171.12.12.2.1.9.2 x 0a0a0a01
```