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How to enable/disable SYSLOG by NETSNMP for DES-3200-10

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## How to enable/disable SYSLOG by NETSNMP for DES-3200-10

### [CLI reference]

1. enable syslog
2. create syslog host 1 ipaddress 10.90.90.100 severity all state enable
3. delete syslog host 1
4. disable syslog

### [SNMP reference]

#### 1. Enable SYSLOG

```
snmpset -c private -v 2c 10.90.90.33
```

```
1.3.6.1.4.1.171.12.12.1.0 i 3
```

```
1.3.6.1.4.1.171.12.12.3.1.0 i 2
```

```
1.3.6.1.4.1.171.12.12.3.2.0 i 65535
```

```
1.3.6.1.4.1.171.12.12.4.1.0 i 1
```

```
C:\Program Files\OPENXTRA\NET-SNMP\usr\bin>snmpset -c private -v 2c 10.90.90.33
1.3.6.1.4.1.171.12.12.1.0 i 3 1.3.6.1.4.1.171.12.12.3.1.0 i 2 1.3.6.1.4.1.171.12
.12.3.2.0 i 65535 1.3.6.1.4.1.171.12.12.4.1.0 i 1
SNMPv2-SMI::enterprises.171.12.12.1.0 = INTEGER: 3
SNMPv2-SMI::enterprises.171.12.12.3.1.0 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.12.3.2.0 = INTEGER: 65535
SNMPv2-SMI::enterprises.171.12.12.4.1.0 = INTEGER: 1
```

### Captured packets

No.	Time	Source	Destination	Protocol	Info
2	2	10.90.90.100	10.90.90.33	SNMP	set-request SYSLOG-MIB::swSysLogCtrlState.0 SYSLOG-MIB::swLogSaveMethod.0 SYSLOG-MIB::swLogSaveTimeInterval.0 SYSLOG-MIB::swSysLogCtrlClearLog.0
3	2	10.90.90.33	10.90.90.100	SNMP	get-response SYSLOG-MIB::swSysLogCtrlState.0 SYSLOG-MIB::swLogSaveMethod.0 SYSLOG-MIB::swLogSaveTimeInterval.0 SYSLOG-MIB::swSysLogCtrlClearLog.0

+	Frame 2 (147 bytes on wire, 147 bytes captured)
+	Ethernet II, Src: Vmware_80:24:c9 (00:0c:29:80:24:c9), Dst: D-Link_2a:e0:10 (00:26:5a:2a:e0:10)
+	Internet Protocol, Src: 10.90.90.100 (10.90.90.100), Dst: 10.90.90.33 (10.90.90.33)
+	User Datagram Protocol, Src Port: nmsd (1239), Dst Port: snmp (161)
-	Simple Network Management Protocol
	version: v2c (1)
	community: private
-	data: set-request (3)
-	set-request
	request-id: 13144
	error-status: noError (0)
	error-index: 0
-	variable-bindings: 4 items
+	SYSLOG-MIB::swSysLogCtrlState.0 (1.3.6.1.4.1.171.12.12.1.0): enabled (3)
+	SYSLOG-MIB::swLogSaveMethod.0 (1.3.6.1.4.1.171.12.12.3.1.0): on-demand (2)
+	SYSLOG-MIB::swLogSaveTimeInterval.0 (1.3.6.1.4.1.171.12.12.3.2.0): 65535
+	SYSLOG-MIB::swSysLogCtrlClearLog.0 (1.3.6.1.4.1.171.12.12.4.1.0): other (1)

#### 2. Create syslog server(10.90.90.100) for receiving the syslog

```
snmpset -c private -v 2c 10.90.90.33
```

```
1.3.6.1.4.1.171.12.12.2.1.2.1 a 10.90.90.100
```

## How to enable/disable SYSLOG by NETSNMP for DES-3200-10

1.3.6.1.4.1.171.12.12.2.1.7.1 i 4

```
C:\Program Files\OPENXTRA\NET-SNMP\usr\bin>snmpset -c private -v 2c 10.90.90.33
1.3.6.1.4.1.171.12.12.2.1.2.1 a 10.90.90.100 1.3.6.1.4.1.171.12.12.2.1.3.1 i 0 1
.3.6.1.4.1.171.12.12.2.1.4.1 i 1 1.3.6.1.4.1.171.12.12.2.1.6.1 i 3 1.3.6.1.4.1.1
71.12.12.2.1.7.1 i 4
SNMPv2-SMI::enterprises.171.12.12.2.1.2.1 = IPAddress: 10.90.90.100
SNMPv2-SMI::enterprises.171.12.12.2.1.3.1 = INTEGER: 0
SNMPv2-SMI::enterprises.171.12.12.2.1.4.1 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.12.2.1.6.1 = INTEGER: 3
SNMPv2-SMI::enterprises.171.12.12.2.1.7.1 = INTEGER: 4
```

No.	Time	Source	Destination	Protocol	Info
4	2.10.90.90.33	10.90.90.100	SNMP	get-response	SYNOPSIS: 10.90.90.100:161->10.90.90.33:161
5	2.10.90.90.100	10.90.90.33	SNMP	set-request	SYNOPSIS: 10.90.90.100:161->10.90.90.33:161
6	2.10.90.90.33	10.90.90.100	SNMP	get-response	SYNOPSIS: 10.90.90.33:161->10.90.90.100:161

```

+ Frame 5 (185 bytes on wire, 185 bytes captured)
+ Ethernet II, Src: Vmware_80:24:c9 (00:0c:29:80:24:c9), Dst: D-Link_2a:e0:10 (00:26:5a:2a:e0:10)
+ Internet Protocol, Src: 10.90.90.100 (10.90.90.100), Dst: 10.90.90.33 (10.90.90.33)
+ User Datagram Protocol, Src Port: bbn-mmx (1348), Dst Port: snmp (161)
- Simple Network Management Protocol
  version: v2c (1)
  community: private
  - data: set-request (3)
    - set-request
      request-id: 1044
      error-status: noError (0)
      error-index: 0
      - variable-bindings: 5 items
        + SYSLOG-MIB::swSysLogServerIPAddress.1 (1.3.6.1.4.1.171.12.12.2.1.2.1): 10.90.90.100 (10.90.90.100)
        + SYSLOG-MIB::swSysLogServerFacility.1 (1.3.6.1.4.1.171.12.12.2.1.3.1): local0 (0)
        + SYSLOG-MIB::swSysLogServerSeverity.1 (1.3.6.1.4.1.171.12.12.2.1.4.1): all (1)
        + SYSLOG-MIB::swSysLogServerState.1 (1.3.6.1.4.1.171.12.12.2.1.6.1): enabled (3)
        + SYSLOG-MIB::swSysLogServerRowStatus.1 (1.3.6.1.4.1.171.12.12.2.1.7.1): createAndGo (4)

```

```
snmpset -c private -v 2c 10.90.90.33 1.3.6.1.4.1.171.12.12.2.1.7.1 i 6
```

```
C:\Program Files\OPENXTRA\NET-SNMP\usr\bin>snmpset -c private -v 2c 10.90.90.33
1.3.6.1.4.1.171.12.12.2.1.7.1 i 6
SNMPv2-SMI::enterprises.171.12.12.2.1.7.1 = INTEGER: 6
```

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No.	Time	Source	Destination	Protocol	Info
1	2	10.90.90.100	10.90.90.33	SNMP	set-request SYSLOG-MIB::swSysLogServerRowStatus.1
+ Frame 1 (94 bytes on wire, 94 bytes captured)					
+ Ethernet II, Src: Vmware_80:24:c9 (00:0c:29:80:24:c9), Dst: D-Link_2a:e0:10 (00:26:5a:2a:e0:10)					
+ Internet Protocol, Src: 10.90.90.100 (10.90.90.100), Dst: 10.90.90.33 (10.90.90.33)					
+ User Datagram Protocol, Src Port: sbook (1349), Dst Port: snmp (161)					
+ Simple Network Management Protocol					
version: v2c (1)					
community: private					
+ data: set-request (3)					
+ set-request					
request-id: 1023					
error-status: noError (0)					
error-index: 0					
+ variable-bindings: 1 item					
+ SYSLOG-MIB::swSysLogServerRowStatus.1 (1.3.6.1.4.1.171.12.12.2.1.7.1): destroy (6)					

### 4.Disable SYSLOG

```
snmpset -c private -v 2c 10.90.90.33  
1.3.6.1.4.1.171.12.12.1.0 i 2
```

```
C:\Program Files\OPENXTRA\NET-SNMP\usr\bin>snmpset -c private -v 2c 10.90.90.33  
1.3.6.1.4.1.171.12.12.1.0 i 2  
SNMPv2-SMI::enterprises.171.12.12.1.0 = INTEGER: 2
```

### Captured packets

No.	Time	Source	Destination	Protocol	Info
1	2	10.90.90.100	10.90.90.33	SNMP	set-request SYSLOG-MIB::swSysLogCtrlState.0
2	2	10.90.90.33	10.90.90.100	SNMP	get-response SYSLOG-MIB::swSysLogCtrlState.0
+ Frame 1 (88 bytes on wire, 88 bytes captured)					
+ Ethernet II, Src: Vmware_80:24:c9 (00:0c:29:80:24:c9), Dst: D-Link_2a:e0:10 (00:26:5a:2a:e0:10)					
+ Internet Protocol, Src: 10.90.90.100 (10.90.90.100), Dst: 10.90.90.33 (10.90.90.33)					
+ User Datagram Protocol, Src Port: atex_elmd (1385), Dst Port: snmp (161)					
+ Simple Network Management Protocol					
version: v2c (1)					
community: private					
+ data: set-request (3)					
+ set-request					
request-id: 4028					
error-status: noError (0)					
error-index: 0					
+ variable-bindings: 1 item					
+ SYSLOG-MIB::swSysLogCtrlState.0 (1.3.6.1.4.1.171.12.12.1.0): disabled (2)					

### Relative OIDs

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## How to enable/disable SYSLOG by NETSNMP for DES-3200-10

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Module: SYSLOG-MIB

Name: swSysLogCtrlState  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.12.1  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(12).swSysLogMIB(12).swSysLogCtrlState(1)  
Module: SYSLOG-MIB  
Parent: swSysLogMIB  
Next sibling: swSysLogServerTable

Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: INTEGER  
Status: current  
Max access: read-write  
Value list:  
1: other(1)  
2: disabled(2)  
3: enabled(3)

Description: This object can be enabled or disabled functionality of System Log during runtime of the system.

Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.12.3.1  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(12).swSysLogMIB(12).swLogSaveCtrl(3).swLogSaveMethod(1)  
Module: SYSLOG-MIB  
Parent: swLogSaveCtrl  
Next sibling: swLogSaveTimeInterval

Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: INTEGER  
Status: current  
Max access: read-write  
Value list:  
1: time-interval(1)  
2: on-demand(2)  
3: log-trigger(3)

Description: Used to show and configure the method to save log.  
when set time-interval(1), Save log to flash every swLogSaveTimeInterval minutes. (if no log happened in this period, don't save)  
when set on-demand(2), save log to flash whenever user type 'save log' or 'save all'.  
when set log-trigger(3), save log to flash whenever log arrives.

Module: SYSLOG-MIB

Name: swLogSaveTimeInterval  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.12.3.2  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(12).swSysLogMIB(12).swLogSaveCtrl(3).swLogSaveTimeInterval(2)  
Module: SYSLOG-MIB  
Parent: swLogSaveCtrl  
Prev sibling: swLogSaveMethod

Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: INTEGER  
Status: current  
Max access: read-write  
Size list:  
1: 1..65535

Description: The time(minutes) interval to save log to flash.  
It can only be set when you have selected the time-interval(1) in swLogSaveMethod.





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## How to enable/disable SYSLOG by NETSNMP for DES-3200-10

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Name: swSysLogCtrlClearLog  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.12.4.1  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(12).swSysLogMIB(12).swSysLogCtrl(4).swSysLogCtrlClearLog(1)  
Module: SYSLOG-MIB  
  
Parent: swSysLogCtrl  
  
Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: INTEGER  
Status: current  
Max access: read-write  
Value list: 1: other(1)  
2: start(2)  
  
Description: Clear the switch history log.

Name: swSysLogServerTable  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.12.2  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(12).swSysLogMIB(12).swSysLogServerTable(2)  
Module: SYSLOG-MIB  
  
Parent: swSysLogMIB  
First child: swSysLogServerEntry  
Prev sibling: swSysLogCtrlState  
Next sibling: swLogSaveCtrl  
  
Numerical syntax: Sequence  
Base syntax: SEQUENCE OF SwSysLogServerEntry  
Composed syntax: SEQUENCE OF SwSysLogServerEntry  
Status: current  
Max access: not-accessible  
Sequences: 1: swSysLogServerIndex - INTEGER(2 - int, int32)  
2: swSysLogServerIPAddress - IPAddress(64 - ipaddr)  
3: swSysLogServerFacility - INTEGER(2 - int, int32)  
4: swSysLogServerSeverity - INTEGER(2 - int, int32)  
5: swSysLogServerUDPPort - INTEGER(2 - int, int32)  
6: swSysLogServerState - INTEGER(2 - int, int32)  
7: swSysLogServerRowStatus - RowStatus(2 - int, int32)

sysLogMIB  
swSysLogCtrlState  
swSysLogServerTable  
 swSysLogServerEntry  
     swSysLogServerIndex  
     swSysLogServerIPAddress  
     swSysLogServerFacility  
     swSysLogServerSeverity  
     swSysLogServerUDPPort  
     swSysLogServerState  
     swSysLogServerRowStatus  
swLogSaveCtrl  
     swLogSaveMethod  
     swLogSaveTimeInterval  
swSysLogCtrl  
     swSysLogCtrlClearLog  
aps

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

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## How to enable/disable SYSLOG by NETSNMP for DES-3200-10

swSysLogMIB  
swSysLogCtrlState  
swSysLogServerTable  
swSysLogServerEntry  
swSysLogServerIndex  
swSysLogServerIPAddress  
swSysLogServerFacility  
swSysLogServerSeverity  
swSysLogServerUDPPort  
swSysLogServerState  
swSysLogServerRowStatus  
swLogSaveCtrl  
swLogSaveMethod

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)
Parent node	swSysLogServerEntry
First child	None
Description	syslog Message Severities

LogMIB  
swSysLogCtrlState  
swSysLogServerTable  
swSysLogServerEntry  
swSysLogServerIndex  
swSysLogServerIPAddress  
swSysLogServerFacility  
swSysLogServerSeverity  
swSysLogServerUDPPort  
swSysLogServerState  
swSysLogServerRowStatus  
swLogSaveCtrl  
swLogSaveMethod

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	enabled or disabled the specific System Log Server during runtime.

swSysLogMIB  
swSysLogCtrlState  
swSysLogServerTable  
swSysLogServerEntry  
swSysLogServerIndex  
swSysLogServerIPAddress  
swSysLogServerFacility  
swSysLogServerSeverity  
swSysLogServerUDPPort  
swSysLogServerState  
swSysLogServerRowStatus  
swLogSaveCtrl  
swLogSaveMethod  
swLogSaveTimeInterval  
swSysLogCtrl  
swSysLogCtrlClearLog

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 be set, too.

End of document.