# How to set up the Cisco Trap message in the DV6

D-Link D-View6 SNMP NMS provides an advantage to monitor/control most of D-Link products. However, it does not include third-party products. In some case, customer might need use DV6 to monitor, control or receive third-party Trap messages.

This chapter provides some setup procedure to achieve this target.

# **Component used**

Cisco2960 Switch (software Version 12.2(44)SE5) D-Link D-View6 Professional Version (software version 6.00.01B22)

# Topology

Cisco2960(192.168.1.149)(port1)----(192.168.1.150/24)DV6-Pro

# **Understanding Cisco Trap MIB structure**

```
Simple Network Management Protocol
version: version-1 (0)
community: private

data: trap (4)

trap
enterprise: 1.3.6.1.4.1.9.9.43.2 (SNMPv2-SMI::enterprises.9.9.43.2)
agent-addr: 192.168.1.149 (192.168.1.149)
generic-trap: enterpriseSpecific (6)
specific-trap: 1
time-stamp: 764829
variable-bindings: 3 items
SNMPv2-SMI::enterprises.9.9.43.1.1.6.1.3.26 (1.3.6.1.4.1.9.9.43.1.1.6.1.3.26): 1
SNMPv2-SMI::enterprises.9.9.43.1.1.6.1.4.26 (1.3.6.1.4.1.9.9.43.1.1.6.1.4.26): 3
SNMPv2-SMI::enterprises.9.9.43.1.1.6.1.5.26 (1.3.6.1.4.1.9.9.43.1.1.6.1.5.26): 4
```

SNMP Trap MIB combines with enterprise OID and other Variable-Binding OIDs, like above example.

you can download Cisco MIB via:

- 1. FTP ftp://ftp.cisco.com Password: your e-mail address
- 2. HTTP http://tools.cisco.com/Support/SNMP/do/BrowseMIB.do?local=en&step=2

Or you can use Cisco SNMP Object Navigator to Translate OID into object name or object name into OID to receive object details, like below example.

### Tools & Resources SNMP Object Navigator

TRANSLATE/BROWSE SEARCH VIEW & DOWNLOAD MIBS MIB SUPPORT IN SOFTWARE

Translate Browse The Object Tree

#### Translate OID into object name or object name into OID to receive object details

Enter OID or object name:	1.3.6.1.4	.1.9.9.43.2	examples -
	Translate		Object Name: ifIndex

#### **Object Information**

Specific Object Information		
Object	ciscoConfigManMIBNotificationPrefix	
OID	1.3.6.1.4.1.9.9.43.2	
MIB	CISCO-CONFIG-MAN-MIB; - View Supporting Images @	

### Finding the required information from the Cisco Trap message

Here we set up the Cisco2960 config-copy trap message into the DV6 Trap database, the Cisco2960 config-copy Trap message is included in the "CiscoConfigManMIBNotificationPrefix" MIB. The detailed info is listed below.



The following OIDs are included in the config-copy trap message

Enterprise OID: 1.3.6.1.4.1.9.9.43.2 Variable-bindingsOID: 1.3.6.1.4.1.9.9.43.1.1.6.1.3 1.3.6.1.4.1.9.9.43.1.1.6.1.4 1.3.6.1.4.1.9.9.43.1.1.6.1.5 DV6 only can recognize the Enterprise OID in the Trap message, so we need use Enterprise OID + Specific-trap number to set the third-party Trap message.

# Set up the Cisco SNMP Trap MIB into the DV6 Trap database

Go to System > Event Manager > Trap Editor Create a new Enterprise OID: Enterprise OID: 1.3.6.1.4.1.9.9.43.2 Specific Number: 1 Description: ciscoConfigManEvent(copy run-config start-config)



# Set up the Cisco2960 SNMP configuration

snmp-server group public v2c read public snmp-server group private v2c write private snmp-server enable traps config snmp-server host 192.168.1.150 private

# **Trigger this Trap message**

Save Cisco Switch configuration via write command

# **Check Result**

Time	Source Device IP	Description
2010-10-21 19:24:30		
2010-10-21 19:24:53		
2010-10-21 19:25:46		
2010-10-21 19:26:11	192.168.1.149	
2010-10-21 19:26:45		
2010-10-21 19:27:15		
2010-10-21 19:28:05		

End