

How to change bootup image via NETSNMP in DES-3528?

[Test F/W version]

R2.63.B026 & R2.60.032

[Supported MIB]

“AGENT-GENERAL-MIB” (Genmgmt.mib).

#swMultiImageCtrlTable

Object name	swMultiImageCtrlTable
Object ID	1.3.6.1.4.1.171.12.1.2.13
Module	AGENT-GENERAL-MIB
Base syntax	Sequence Of swMultiImageCtrlEntry
Access	Not_Accessible
Status	Current
Sequence	1:swMultiImageCtrlID - Integer 2:swMultiImageCtrlAction - Integer
Parent node	agentBasicConfig
First child	swMultiImageCtrlEntry
Description	

#swMultiImageCtrlEntry

Object name	swMultiImageCtrlEntry
Object ID	1.3.6.1.4.1.171.12.1.2.13.1
Module	AGENT-GENERAL-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1:swMultiImageCtrlID
Parent node	swMultiImageCtrlTable
First child	swMultiImageCtrlID
Description	A list of information about multiple image management.

#swMultiImageCtrlID

Object name	swMultiImageCtrlID
Object ID	1.3.6.1.4.1.171.12.1.2.13.1.1
Module	AGENT-GENERAL-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Parent node	swMultiImageCtrlEntry
First child	None
Description	<p>The stacking section ID of the firmware image.</p> <p>The stacking section ID = 256 * Unit ID + Image File ID.</p>

Note :

The stacking section ID of the firmware image.

The stacking section ID = 256 * Unit ID + Image File ID

#swMultiImageCtrlAction

Object name	swMultiImageCtrlAction
Object ID	1.3.6.1.4.1.171.12.1.2.13.1.2
Module	AGENT-GENERAL-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	<p>1 : config-as-bootup-fw(1)</p> <p>2 : delete(2)</p> <p>3 : none(3)</p>
Parent node	swMultiImageCtrlEntry
First child	None
Description	<p>This object indicates the running status of the image which is specified by the swMultiImageCtrlID and swMultiImageCtrlUnitID.</p> <p>config-as-bootup-fw (1) - configured as bootup firmware by indicated firmware delete (2) - delete the firmware by indicated firmware ID. none (3) - no action.</p>

[Test Example]

Step1. Check current bootp image.

```
=> snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.13.1.1
```

The first screenshot shows the DES-3528 Fast Ethernet Switch Command Line Interface. It prompts for a username and password, both left blank. Then it runs the command 'show firmware information'. The output shows two images: Image ID 1 (Boot up firmware) and Image ID 2. Both images have version 2.63.B026, size 4645692 Bytes, and were updated on 2001/02/04 at 05:26:58 from IP 10.90.90.80 by Guest(Console). The second screenshot shows a Windows cmd.exe window running on C:\WINDOWS\system32\cmd.exe. It runs 'snmpwalk' to check the current bootup image, which is 1.3.6.1.4.1.171.12.1.2.13.1.1. It then runs 'snmpset' to change the bootup image to 1.3.6.1.4.1.171.12.1.2.13.1.2.258, setting integer values 257 and 258 for enterprises.171.12.1.2.13.1.1.257 and enterprises.171.12.1.2.13.1.1.258 respectively.

```
DES-3528:admin# show firmware information
Command: show firmware information

Image ID      : 1(Boot up firmware)
Version       : 2.63.B026
Size          : 4645692 Bytes
Update Time   : 2001/02/04 05:26:58
From          : 10.90.90.80
User          : Guest(Console)

Image ID      : 2
Version       : 2.60.032
Size          : 4672124 Bytes
Update Time   : 2001/02/15 18:27:07
From          : 10.90.90.100
User          : Guest(Console)

C:\>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.13.1.1
SNMPv2-SMI::enterprises.171.12.1.2.13.1.1.257 = INTEGER: 257
SNMPv2-SMI::enterprises.171.12.1.2.13.1.1.258 = INTEGER: 258
```

Step2. Change bootup image.

```
=> snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.13.1.2.258 i 1
```

The third screenshot shows the DES-3528 Fast Ethernet Switch Command Line Interface again. It runs 'show firmware information' and shows the same details as before. However, the output for Image ID 2 is highlighted with a red box. This indicates that the bootup image has been successfully changed to Image ID 2, which has a version of 2.60.032 and was updated on 2001/02/15 at 18:27:07.

```
DES-3528:admin# show firmware information
Command: show firmware information

Image ID      : 1
Version       : 2.63.B026
Size          : 4645692 Bytes
Update Time   : 2001/02/04 05:26:58
From          : 10.90.90.80
User          : Guest(Console)

Image ID      : 2(Boot up firmware)
Version       : 2.60.032
Size          : 4672124 Bytes
Update Time   : 2001/02/15 18:27:07
From          : 10.90.90.100
User          : Guest(Console)

DES-3528:admin#
```