

How to upload and download configuration and F/W with SNMP command on DES-3028

Base on F/W 2.00B27

Example

1. Backup configuration file to TFTP server on 10.90.90.101 name “TEST”

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.1.1.6.3 i 3 1.3.6.1.4.1.171.12.1.2.1.1.4.3 i 2  
1.3.6.1.4.1.171.12.1.2.1.1.5.3 s TEST 1.3.6.1.4.1.171.12.1.2.1.1.7.3 i 2 1.3.6.1.4.1.171.12.1.2.1.1.3.3 a  
10.90.90.101 1.3.6.1.4.1.171.12.1.2.1.1.8.3 i 3
```

2. Download configuration file, named TEST from TFTP server, 10.90.90.101 to device.

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.1.1.6.3 i 3 1.3.6.1.4.1.171.12.1.2.1.1.4.3 i 2  
1.3.6.1.4.1.171.12.1.2.1.1.5.3 s TEST 1.3.6.1.4.1.171.12.1.2.1.1.7.3 i 3 1.3.6.1.4.1.171.12.1.2.1.1.3.3 a  
10.90.90.101 1.3.6.1.4.1.171.12.1.2.1.1.8.3 i 3
```

3. Download configuration file, named TEST from TFTP server, 10.90.90.101 to device with option increment

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.1.1.3.3 a 10.90.90.101  
1.3.6.1.4.1.171.12.1.2.1.1.5.3 s TOMTEST3 1.3.6.1.4.1.171.12.1.2.1.1.9.3 i 1  
1.3.6.1.4.1.171.12.1.2.1.1.7.3 i 3 1.3.6.1.4.1.171.12.1.2.1.1.8.3 i 3
```

4. Save configuration

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.6.0 i 2
```

5. Download F/W (file name “test.had”) from TFTP server 10.9.90.101, write in Image ID 2

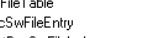
```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.1.1.3.1 a 10.90.90.101  
1.3.6.1.4.1.171.12.1.2.1.1.4.1 i 2 1.3.6.1.4.1.171.12.1.2.1.1.5.1 x 746573742E686164  
1.3.6.1.4.1.171.12.1.2.1.1.6.1 i 1 1.3.6.1.4.1.171.12.1.2.1.1.7.1 i 3 1.3.6.1.4.1.171.12.1.2.1.1.8.1 i 3  
1.3.6.1.4.1.171.12.1.2.1.1.10.1 i 2
```

 agentBasicConfig └─ agentBscSwFileTable └─ agentBscSwFileEntry └─ agentBscSwFileIndex └─ agentBscSwFileDscr └─ agentBscSwFileAddr └─ agentBscSwFileTransferType └─ agentBscSwFile └─ agentBscSwFileLocatId └─ agentBscSwFileLoadType └─ agentBscSwFileCtrl └─ agentBscSwFileBIncrment └─ agentBscSwFileCtrlID └─ agentSystemReset └─ agentRs232PortConfig └─ agentSaveCfg	Object name: agentBasicConfig Object ID: 1.3.6.1.4.1.171.12.1.2 Module: AGENT-GENERAL-MIB Base syntax: Object Identifier Access: Not_Accessible Status: Mandatory Parent node: agentGeneralMgmt First child: agentBscSwFileTable
 agentBasicConfig └─ agentBscSwFileTable └─ agentBscSwFileEntry └─ agentBscSwFileIndex └─ agentBscSwFileDscr └─ agentBscSwFileAddr └─ agentBscSwFileTransferType └─ agentBscSwFile └─ agentBscSwFileLocatId └─ agentBscSwFileLoadType └─ agentBscSwFileCtrl └─ agentBscSwFileBIncrment └─ agentBscSwFileCtrlID └─ agentSystemReset └─ agentRs232PortConfig └─ agentSaveCfg └─ swMultilImageInfoTable └─ swMultilImageInfoEntry └─ swMultilImageInfoD └─ swMultilImageVersion └─ swMultilImageSize	Object name: agentBscSwFileTable Object ID: 1.3.6.1.4.1.171.12.1.2.1 Module: AGENT-GENERAL-MIB Base syntax: Sequence Of agentBscSwFileEntry Access: Not_Accessible Status: Current Description: 1:agentBscSwFileIndex - Integer 2:agentBscSwFileDscr - Octet String 3:agentBscSwFileAddr - IP Address 4:agentBscSwFileTransferType - Integer 5:agentBscSwFile - Octet String 6:agentBscSwFileLocatId - Integer 7:agentBscSwFileLoadType - Integer 8:agentBscSwFileCtrl - Integer 9:agentBscSwFileBIncrment - Integer 10:agentBscSwFileCtrlID - Integer Parent node: agentBasicConfig First child: agentBscSwFileEntry Description: A list of MIB Basic Config entry support files updated by this agent.
 agentBasicConfig └─ agentBscSwFileTable └─ agentBscSwFileEntry └─ agentBscSwFileIndex └─ agentBscSwFileDscr └─ agentBscSwFileAddr └─ agentBscSwFileTransferType └─ agentBscSwFile └─ agentBscSwFileLocatId └─ agentBscSwFileLoadType └─ agentBscSwFileCtrl └─ agentBscSwFileBIncrment └─ agentBscSwFileCtrlID └─ agentSystemReset └─ agentRs232PortConfig └─ agentSaveCfg	Object name: agentBscSwFileIndex Object ID: 1.3.6.1.4.1.171.12.1.2.1.1 Module: AGENT-GENERAL-MIB Base syntax: Integer Composed syntax: Integer32 Access: Read-Only Status: Current Parent node: agentBscSwFileEntry First child: None Description: The table index for the file entry
 agentBasicConfig └─ agentBscSwFileTable └─ agentBscSwFileEntry └─ agentBscSwFileIndex └─ agentBscSwFileDscr └─ agentBscSwFileAddr └─ agentBscSwFileTransferType └─ agentBscSwFile └─ agentBscSwFileLocatId └─ agentBscSwFileLoadType └─ agentBscSwFileCtrl └─ agentBscSwFileBIncrment └─ agentBscSwFileCtrlID └─ agentSystemReset └─ agentRs232PortConfig └─ agentSaveCfg	Object name: agentBscSwFileDscr Object ID: 1.3.6.1.4.1.171.12.1.2.1.1.2 Module: AGENT-GENERAL-MIB Base syntax: Octet String Composed syntax: DisplayString Access: Read-Write Status: Current Value list: 1 : 0..64 Parent node: agentBscSwFileEntry First child: None Description: The description of the software file purpose in this entry. Note: For systems that do not support change of this object, setting a value for this object will cause the system to return bad-value error messages.
 agentBasicConfig └─ agentBscSwFileTable └─ agentBscSwFileEntry └─ agentBscSwFileIndex └─ agentBscSwFileDscr └─ agentBscSwFileAddr └─ agentBscSwFileTransferType └─ agentBscSwFile └─ agentBscSwFileLocatId └─ agentBscSwFileLoadType └─ agentBscSwFileCtrl └─ agentBscSwFileBIncrment └─ agentBscSwFileCtrlID └─ agentSystemReset └─ agentRs232PortConfig └─ agentSaveCfg	Object name: agentBscSwFileAddr Object ID: 1.3.6.1.4.1.171.12.1.2.1.1.3 Module: AGENT-GENERAL-MIB Base syntax: IP Address Composed syntax: IPAddress Access: Read-Write Status: Current Parent node: agentBscSwFileEntry First child: None Description: The IP address where the file that needs to be downloaded is located, or the IP address where the file will be uploaded to.

 agentBasicConfig		
 agentBscSwFileTable		
 agentBscSwFileEntry		
 agentBscSwFileIndex		
 agentBscSwFileDscr	Object name	agentBscSwFileTransferType
 agentBscSwFileAddr	Object ID	1.3.6.1.4.1.171.12.1.2.1.4
 agentBscSwFileTransferType	Module	AGENT-GENERAL-MIB
 agentBscSwFile	Base syntax	Integer
 agentBscSwFileLocateld	Composed syntax	INTEGER
 agentBscSwFileLoadType	Access	Read-Write
 agentBscSwFileCtrl	Status	Current
 agentBscSwFileIncrement	Value list	1 : other(1) 2 : network-load(2) 3 : out-of-band-load(3)
 agentBscSwFileCtrlID	Parent node	agentBscSwFileEntry
 agentSystemReset	First child	None
 agentRs232PortConfig	Description	The channel through which the file will be downloaded or uploaded. Note: For systems which do not support all channels, setting a value to the unsupported channel will cause the system to return bad-value error messages.
 swMultilImageInfoTable		

 agentBasicConfig		
 agentBscSwFileTable		
 agentBscSwFileEntry		
 agentBscSwFileIndex	Object name	agentBscSwFile
 agentBscSwFileDscr	Object ID	1.3.6.1.4.1.171.12.1.2.1.5
 agentBscSwFileAddr	Module	AGENT-GENERAL-MIB
 agentBscSwFileTransferType	Base syntax	Octet String
 agentBscSwFile	Composed syntax	DisplayString
 agentBscSwFileLocateld	Access	Read-Write
 agentBscSwFileLoadType	Status	Current
 agentBscSwFileCtrl	Value list	1 : 0..128
 agentBscSwFileIncrement	Parent node	agentBscSwFileEntry
 agentBscSwFileCtrlID	First child	None
 agentSystemReset	Description	The name of the file to be downloaded from, or uploaded to, the TFTP server.
 agentRs232PortConfig		
 agentSaveCfg		

 agentBasicConfig		
 agentBscSwFileTable		
 agentBscSwFileEntry		
 agentBscSwFileIndex	Object name	agentBscSwFileLocateld
 agentBscSwFileDscr	Object ID	1.3.6.1.4.1.171.12.1.2.1.6
 agentBscSwFileAddr	Module	AGENT-GENERAL-MIB
 agentBscSwFileTransferType	Base syntax	Integer
 agentBscSwFileLocateld	Composed syntax	INTEGER
 agentBscSwFileLoadType	Access	Read-Write
 agentBscSwFileCtrl	Status	Current
 agentBscSwFileIncrement	Value list	1 : 1..16
 agentBscSwFileCtrlID	Parent node	agentBscSwFileEntry
 agentSystemReset	First child	None
 agentRs232PortConfig	Description	This object describes the type of file. runtime-code(1), log-file(2), cfg-file(3)
 agentSaveCfg		
 swMultilImageInfoTable		
 swMultilImageInfoEntry		

 agentBasicConfig		
 agentBscSwFileTable		
 agentBscSwFileEntry		
 agentBscSwFileIndex	Object name	agentBscSwFileLoadType
 agentBscSwFileDscr	Object ID	1.3.6.1.4.1.171.12.1.2.1.7
 agentBscSwFileAddr	Module	AGENT-GENERAL-MIB
 agentBscSwFileTransferType	Base syntax	Integer
 agentBscSwFileLoadType	Composed syntax	INTEGER
 agentBscSwFileCtrl	Access	Read-Write
 agentBscSwFileIncrement	Status	Current
 agentBscSwFileCtrlID	Value list	1 : other(1) 2 : upload(2) 3 : download(3)
 agentBscSwFileCtrl	Parent node	agentBscSwFileEntry
 agentSystemReset	First child	None
 agentRs232PortConfig	Description	This object provides the user with a choice of uploading or downloading the selected file. Note: For systems which do not support a change of this object, setting a value to this object will cause the system to return bad-value error messages.
 agentSaveCfg		
 swMultilImageInfoTable		

	<table border="1"> <tr> <td>Object name</td><td>agentBscSwFileCtrl</td></tr> <tr> <td>Object ID</td><td>1.3.6.1.4.1.171.12.1.2.1.1.8</td></tr> <tr> <td>Module</td><td>AGENT-GENERAL-MIB</td></tr> <tr> <td>Base syntax</td><td>Integer</td></tr> <tr> <td>Composed syntax</td><td>INTEGER</td></tr> <tr> <td>Access</td><td>Read-Write</td></tr> <tr> <td>Status</td><td>Current</td></tr> <tr> <td>Value list</td><td> 1 : other(1) 2 : inactive(2) 3 : start(3) 4 : delete(4) 5 : config-as-bootup(5) 6 : apply(6) </td></tr> <tr> <td>Parent node</td><td>agentBscSwFileEntry</td></tr> <tr> <td>First child</td><td>None</td></tr> <tr> <td>Description</td><td>This object gives the user the option of downloading runtime software. This setting will take effect when the system restarts. See Note (1) below.</td></tr> <tr> <td>Note:</td><td>For systems which do not support change for this object, setting a value to this object will cause the system to return bad-value error messages.</td></tr> <tr> <td></td><td>start - Activate firmware. delete (4) - Delete the firmware by indicated firmware ID. config-as-bootup (5) - Configured as bootup firmware by indicated firmware(ID). apply (6) - Apply the configuration to be the active configuration by indicated config ID.</td></tr> </table>	Object name	agentBscSwFileCtrl	Object ID	1.3.6.1.4.1.171.12.1.2.1.1.8	Module	AGENT-GENERAL-MIB	Base syntax	Integer	Composed syntax	INTEGER	Access	Read-Write	Status	Current	Value list	1 : other(1) 2 : inactive(2) 3 : start(3) 4 : delete(4) 5 : config-as-bootup(5) 6 : apply(6)	Parent node	agentBscSwFileEntry	First child	None	Description	This object gives the user the option of downloading runtime software. This setting will take effect when the system restarts. See Note (1) below.	Note:	For systems which do not support change for this object, setting a value to this object will cause the system to return bad-value error messages.		start - Activate firmware. delete (4) - Delete the firmware by indicated firmware ID. config-as-bootup (5) - Configured as bootup firmware by indicated firmware(ID). apply (6) - Apply the configuration to be the active configuration by indicated config ID.
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	<table border="1"> <tr> <td>Object name</td><td>agentSystemReset</td></tr> <tr> <td>Object ID</td><td>1.3.6.1.4.1.171.12.1.2.3</td></tr> <tr> <td>Module</td><td>AGENT-GENERAL-MIB</td></tr> <tr> <td>Base syntax</td><td>Integer</td></tr> <tr> <td>Composed syntax</td><td>INTEGER</td></tr> <tr> <td>Access</td><td>Read-Write</td></tr> <tr> <td>Status</td><td>Current</td></tr> <tr> <td>Value list</td><td> 1 : other(1) 2 : cold-start(2) 3 : warm-start(3) 4 : no-reset(4) </td></tr> <tr> <td>Parent node</td><td>agentBasicConfig</td></tr> <tr> <td>First child</td><td>None</td></tr> <tr> <td>Description</td><td>This object indicates the agent system reset state. Setting this object to no-reset(4) has no effect. Setting this object to cold-start(2) will reset the agent. The agent always returns no-reset(4) when this object is read.</td></tr> </table>	Object name	agentSystemReset	Object ID	1.3.6.1.4.1.171.12.1.2.3	Module	AGENT-GENERAL-MIB	Base syntax	Integer	Composed syntax	INTEGER	Access	Read-Write	Status	Current	Value list	1 : other(1) 2 : cold-start(2) 3 : warm-start(3) 4 : no-reset(4)	Parent node	agentBasicConfig	First child	None	Description	This object indicates the agent system reset state. Setting this object to no-reset(4) has no effect. Setting this object to cold-start(2) will reset the agent. The agent always returns no-reset(4) when this object is read.				
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	Object name	agenRs232PortConfig
	Object ID	1.3.6.1.4.1.171.12.1.2.4
	Module	AGENT-GENERAL-MIB
	Base syntax	Integer
	Composed syntax	INTEGER
	Access	Read-Write
	Status	Current
	Value list	1 : other(1) 2 : console(2) 3 : out-of-band(3) 4 : notAvail(4)
	Parent node	agentBasicConfig
	First child	None
	Description	This object indicates the RS-232C mode once the device has restarted.

	Object name	agentSaveCtg
	Object ID	1.3.6.1.4.1.171.12.1.2.6
	Module	AGENT-GENERAL-MIB
	Base syntax	Integer
	Composed syntax	INTEGER
	Access	Read-Write
	Status	Current
	Value list	1 : other(1) 2 : cfg-id1(2) 3 : cfg-id2(3) 4 : log(4) 5 : all(5)
	Parent node	agentBasicConfig
	First child	None
	Description	This object indicates the type of save command to be executed, when saving to the NV-RAM other (1) - none of the following. cfg-id1 (2) - save configuration ID1. cfg-id2 (3) - save configuration ID2. log (4) - save log. all (5) - save both (active configuration and log).