

How to “clear fdb” via NETSNMP in DGS-3100 series?

The OIDs are defined in “DLINK-3100-rndMng” (rlmng.mib).

rndAction

The screenshot shows a MIB browser interface. On the left, a tree view displays the hierarchy: iso(1) -> org(3) -> dod(6) -> internet(1) -> private(4) -> enterprises(1) -> dlink(171) -> dlink-products -> dlink-Dgs3100SeriesProd -> dgs3100-SWL2MGMT-MIB -> rndMng. The 'rndAction' object is highlighted in the tree. On the right, a detailed view for the 'DLINK-3100-rndMng' module shows the following information:

Name:	rndAction
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.10.94.89.89.1.2
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-products
Module:	DLINK-3100-rndMng
Parent:	rndMng
Prev sibling:	rndSysId
Next sibling:	rndFileName
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-write
Value list:	1: reset(1) 2: sendNetworkTab(2) 3: deleteNetworkTab(3) 4: sendRoutingTab(4) 5: deleteRoutingTab(5) 6: sendLanTab(6) 7: deleteLanTab(7) 8: deleteArpTab(8) 9: sendArpTab(9) 10: deleteRouteTab(10) 11: sendRouteTab(11) 12: backupSPFRoutingTab(12)

deleteLanTab(7) => clear fdb all

This screenshot is a zoomed-in view of the 'Value list' section from the previous screenshot. The '7: deleteLanTab(7)' entry is highlighted with a red background, indicating the specific action to be performed to clear the FDB table.

Value list:	1: reset(1) 2: sendNetworkTab(2) 3: deleteNetworkTab(3) 4: sendRoutingTab(4) 5: deleteRoutingTab(5) 6: sendLanTab(6) 7: deleteLanTab(7) 8: deleteArpTab(8) 9: sendArpTab(9) 10: deleteRouteTab(10) 11: sendRouteTab(11) 12: backupSPFRoutingTab(12)
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deleteDynamicLanTab(23) => clear “dynamic” entry only

Module:	DLINK-3100-mdMng
	7: deleteLanTab(7) 8: deleteArpTab(8) 9: sendArpTab(9) 10: deleteRouteTab(10) 11: sendRouteTab(11) 12: backupSPFRoutingTab(12) 13: backupIPRoutingTab(13) 14: backupNetworkTab(14) 15: backupLanTab(15) 16: backupArpTab(16) 17: backupIPXRipTab(17) 18: backupIPXSAPTTab(18) 19: resetStartupCDB(19) 20: eraseStartupCDB(20) 21: deleteZeroHopRoutingAllocTab(21) 22: slipDisconnect(22) 23: deleteDynamicLanTab(23) 24: eraseRunningCDB(24) 25: copyStartupToRunning(25) 26: none(26) 27: resetToFactoryDefaults(27)
Description:	This variable enables the operator to perform one of the specified actions on the tables maintained by the network device. Send actions require support of proprietary File exchange protocol.

Example 1: clear fdb all (including dynamic & static entries)

```
IP Address      : 10.90.90.90
VLAN Name      : default
Subnet Mask    : 255.0.0.0
Default Gateway : 0.0.0.0
Boot PROM Version : 1.0.1.05
Firmware Version : 3.60.38
Hardware Version : 02
Serial Number   : CAMEO_SAMPLE_1(unit 1)
System Name    : DGS-3100
System Location :
System Contact :
System Up Time  : 0 days 0 hours 1 mins 42 seconds
Spanning Tree  : Disabled
GVRP           : Disabled
IGMP Snooping  : Disabled
TELNET         : Enabled
WEB            : Enabled (TCP 80)

DGS-3100#
DGS-3100# sh fdb

Unicast MAC Address Aging Time = 300

VID  VLAN NAME      MAC Address      Port  Type
---  -
1    default        00:00:01:00:00:01 1:11  static
1    default        00:13:00:11:00:01 CPU   self
1    default        00:15:f2:d1:35:07 1:1   dynamic
1    default        00:c0:9f:86:c2:5c 1:2   dynamic
```

```
C:\WINDOWS\system32\cmd.exe

C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.1.2.0 i 7
SNMPv2-SMI::enterprises.171.10.94.89.89.1.2.0 = INTEGER: 7

C:\>
```

```
DGS-3100#
DGS-3100# sh fdb

Unicast MAC Address Aging Time = 300

VID  VLAN NAME      MAC Address      Port  Type
---  -
1    default        00:13:00:11:00:01 CPU   self

DGS-3100#
```

Example 2 : clear dynamic entries only

```
Boot PROM Version : 1.0.1.05
Firmware Version  : 3.60.38
Hardware Version   : 02
Serial Number      : CAMEO_SAMPLE_1(unit 1)
System Name        : DGS-3100
System Location    :
System Contact     :
System Up Time     : 0 days 0 hours 5 mins 50 seconds
Spanning Tree     : Disabled
GVRP               : Disabled
IGMP Snooping     : Disabled
TELNET             : Enabled
WEB                : Enabled (TCP 80)

DGS-3100#
DGS-3100#
DGS-3100# show fdb

Unicast MAC Address Aging Time = 300

VID  VLAN NAME      MAC Address      Port  Type
---  -
1    default        00:00:01:00:00:01 1:11  static
1    default        00:13:00:11:00:01 CPU    self
1    default        00:15:f2:d1:35:07 1:1   dynamic
1    default        00:c0:9f:86:c2:5c 1:2   dynamic

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C:\WINDOWS\system32\cmd.exe
C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.1.2.0 i 23
SNMPv2-SMI::enterprises.171.10.94.89.89.1.2.0 = INTEGER: 23

C:\>
DGS-3100#
DGS-3100#
DGS-3100#
DGS-3100# sh fdb

Unicast MAC Address Aging Time = 300

VID  VLAN NAME      MAC Address      Port  Type
---  -
1    default        00:00:01:00:00:01 1:11  static
1    default        00:13:00:11:00:01 CPU    self

DGS-3100#
```

static entry was remained