

How to check the FDB (dynamic) table of DGS-1216T via NETSNMP ?

[OID]BRIDGE-MIB

The screenshot shows a MIB browser interface with the following details:

- MIB Tree:** iso > dot1dBridge > dot1dBase > dot1dTpFdbTable > dot1dTpFdbEntry
- Object name:** dot1dTpFdbEntry
- Object ID:** 1.3.6.1.2.1.17.4.3.1
- Module:** BRIDGE-MIB
- Base syntax:** Sequence
- Access:** Not_Accessible
- Status:** Mandatory
- Index:** 1.dot1dTpFdbAddress
- Parent node:** dot1dTpFdbTable
- First child:** dot1dTpFdbAddress
- Description:** Information about a specific unicast MAC address for which the bridge has some forwarding and/or filtering information.

The screenshot shows a MIB browser interface with the following details:

- MIB Tree:** iso > dot1dBridge > dot1dBase > dot1dTpFdbTable > dot1dTpFdbEntry > dot1dTpFdbStatus
- Object name:** dot1dTpFdbStatus
- Object ID:** 1.3.6.1.2.1.17.4.3.1.3
- Module:** BRIDGE-MIB
- Base syntax:** Integer
- Composed syntax:** INTEGER
- Access:** Read-Only
- Status:** Mandatory
- Value list:** 1 : other(1), 2 : invalid(2), 3 : learned(3), 4 : self(4), 5 : mgmt(5)
- Parent node:** dot1dTpFdbEntry
- First child:** None
- Description:** The status of this entry. The meanings of the values are:

[Topology]

DGS-1216T(15) --- SNMP_Manager_10.90.90.100 (MAC : 00 21 CC C9 4D 26)
(9) -----PC(MAC : 00 23 AE 5A 7A 28)

[SNMP]

```
snmpwalk -v2c -c private 192.168.0.1 1.3.6.1.2.1.17.4.3
```

[Test Result]

The screenshot shows a network configuration interface for a DGS-1216T switch. The left sidebar lists various configuration categories, with 'Dynamic Forwarding Table' selected under 'Security'. The main window displays the 'Dynamic Forwarding Table Configuration' dialog, where the 'Port' is set to '09'. Below the dialog, a table shows the configuration for port 9:

ID	Port	MAC Address	VID	Add
1	9	00-23-AE-5A-7A-28	1	

Below the table, a Command Prompt window shows the output of an SNMP walk command:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 192.168.0.1 1.3.6.1.2.1.17.4.3
SNMPv2-SMI::mib-2.17.4.3.1.1.0.33.204.201.77.38 = Hex-STRING: 00 21 CC C9 4D 26
SNMPv2-SMI::mib-2.17.4.3.1.1.0.35.174.90.122.40 = Hex-STRING: 00 23 AE 5A 7A 28
SNMPv2-SMI::mib-2.17.4.3.1.2.0.33.204.201.77.38 = INTEGER: 15
SNMPv2-SMI::mib-2.17.4.3.1.2.0.35.174.90.122.40 = INTEGER: 9
SNMPv2-SMI::mib-2.17.4.3.1.3.0.33.204.201.77.38 = INTEGER: 3
SNMPv2-SMI::mib-2.17.4.3.1.3.0.35.174.90.122.40 = INTEGER: 3
```

```
C:\Users\AaronPan>snmpwalk -v2c -c private 192.168.0.1 1.3.6.1.2.1.17.4.3.1.3
SNMPv2-SMI::mib-2.17.4.3.1.3.0.33.204.201.77.38 = INTEGER: 3
SNMPv2-SMI::mib-2.17.4.3.1.3.0.35.174.90.122.40 = INTEGER: 3
```

→ 3 means the MAC was learned by switch

[End]

Please notice that SNMP query can show MAC 00 21 CC C9 4D 26 is located in **port 15**, however, the MAC address is translated from HEX (00 21 CC C9 4D 26) to **Decimal (0.33.204.201.77.38)**.