

# How to show FDB table via Net-SNMP on DGS-3200-10

## Show FDB table

```
snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.2.1.17.4.3.1.1
```

The screenshot shows the Net-SNMP interface with a tree view on the left and a details pane on the right. The tree view is expanded to show the following structure:

- dot1dTpFdbTable (selected)
- dot1dTpFdbEntry
  - dot1dTpFdbAddress
  - dot1dTpFdbPort
  - dot1dTpFdbStatus
- dot1dTpPortTable
  - dot1dTpPortEntry
    - dot1dTpPort
    - dot1dTpPortMaxInfo
    - dot1dTpPortInFrames
    - dot1dTpPortOutFrames
    - dot1dTpPortInDiscards
- dot1dStatic
  - dot1dStaticTable
    - dot1dStaticEntry
      - dot1dStaticAddress
      - dot1dStaticReceivePort
      - dot1dStaticAllowedToGoTo
      - dot1dStaticStatus

The details pane for dot1dTpFdbTable shows the following information:

|             |                                                                                                                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Object name | dot1dTpFdbTable                                                                                                                                                                                                                           |
| Object ID   | 1.3.6.1.2.1.17.4.3                                                                                                                                                                                                                        |
| Module      | BRIDGE-MIB                                                                                                                                                                                                                                |
| Base syntax | Sequence Of dot1dTpFdbEntry                                                                                                                                                                                                               |
| Access      | Not_Accessible                                                                                                                                                                                                                            |
| Status      | Mandatory                                                                                                                                                                                                                                 |
| Sequence    | 1:dot1dTpFdbAddress - Octet String<br>2:dot1dTpFdbPort - Integer<br>3:dot1dTpFdbStatus - Integer                                                                                                                                          |
| Parent node | dot1dTp                                                                                                                                                                                                                                   |
| First child | dot1dTpFdbEntry                                                                                                                                                                                                                           |
| Description | A table that contains information about unicast entries for which the bridge has forwarding and/or filtering information. This information is used by the transparent bridging function in determining how to propagate a received frame. |

The screenshot shows the Net-SNMP interface with a tree view on the left and a details pane on the right. The tree view is expanded to show the following structure:

- dot1dTpFdbTable
- dot1dTpFdbEntry (selected)
- dot1dTpFdbAddress (selected)
- dot1dTpFdbPort
- dot1dTpFdbStatus
- dot1dTpPortTable
  - dot1dTpPortEntry
    - dot1dTpPort
    - dot1dTpPortMaxInfo
    - dot1dTpPortInFrames
    - dot1dTpPortOutFrames
    - dot1dTpPortInDiscards
- dot1dStatic
  - dot1dStaticTable
    - dot1dStaticEntry
      - dot1dStaticAddress
      - dot1dStaticReceivePort
      - dot1dStaticAllowedToGoTo
      - dot1dStaticStatus

The details pane for dot1dTpFdbAddress shows the following information:

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| Object name     | dot1dTpFdbAddress                                                                       |
| Object ID       | 1.3.6.1.2.1.17.4.3.1.1                                                                  |
| Module          | BRIDGE-MIB                                                                              |
| Base syntax     | Octet String                                                                            |
| Composed syntax | MacAddress                                                                              |
| Access          | Read-Only                                                                               |
| Status          | Mandatory                                                                               |
| Value list      | 1 : 6..6                                                                                |
| Parent node     | dot1dTpFdbEntry                                                                         |
| First child     | None                                                                                    |
| Description     | A unicast MAC address for which the bridge has forwarding and/or filtering information. |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-----------|------------------------|--------|------------|-------------|---------|-----------------|---------|--------|-----------|--------|-----------|-------------|-----------------|-------------|------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>dot1dTpFdbTable       <ul style="list-style-type: none"> <li>dot1dTpFdbEntry           <ul style="list-style-type: none"> <li>dot1dTpFdbAddress</li> <li><b>dot1dTpFdbPort</b></li> <li>dot1dTpFdbStatus</li> </ul> </li> </ul> </li> <li>dot1dTpPortTable       <ul style="list-style-type: none"> <li>dot1dTpPortEntry           <ul style="list-style-type: none"> <li>dot1dTpPort</li> <li>dot1dTpPortMaxInfo</li> <li>dot1dTpPortInFrames</li> <li>dot1dTpPortOutFrames</li> <li>dot1dTpPortInDiscards</li> </ul> </li> </ul> </li> <li>dot1dStatic       <ul style="list-style-type: none"> <li>dot1dStaticTable           <ul style="list-style-type: none"> <li>dot1dStaticEntry               <ul style="list-style-type: none"> <li>dot1dStaticAddress</li> <li>dot1dStaticReceivePort</li> <li>dot1dStaticAllowedToGoTo</li> <li>dot1dStaticStatus</li> </ul> </li> </ul> </li> </ul> </li> </ul> <p>Pv1 Traps<br/>       ewRoot<br/>       pologyChange<br/>       Assignments<br/>       acAddress</p> | <table border="1"> <tr> <td>Object name</td> <td>dot1dTpFdbPort</td> </tr> <tr> <td>Object ID</td> <td>1.3.6.1.2.1.17.4.3.1.2</td> </tr> <tr> <td>Module</td> <td>BRIDGE-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-Only</td> </tr> <tr> <td>Status</td> <td>Mandatory</td> </tr> <tr> <td>Parent node</td> <td>dot1dTpFdbEntry</td> </tr> <tr> <td>First child</td> <td>None</td> </tr> <tr> <td>Description</td> <td> <p>Either the value 'U', or the port number of the port on which a frame having a source address equal to the value of the corresponding instance of dot1dTpFdbAddress has been seen. A value of 'U' indicates that the port number has not been learned but that the bridge does have some forwarding/filtering information about this address (e.g. in the dot1dStaticTable). Implementors are encouraged to assign the port value to this object whenever it is learned even for addresses for which the corresponding value of dot1dTpFdbStatus is not learned (3).</p> </td> </tr> </table> | Object name | dot1dTpFdbPort | Object ID | 1.3.6.1.2.1.17.4.3.1.2 | Module | BRIDGE-MIB | Base syntax | Integer | Composed syntax | INTEGER | Access | Read-Only | Status | Mandatory | Parent node | dot1dTpFdbEntry | First child | None | Description | <p>Either the value 'U', or the port number of the port on which a frame having a source address equal to the value of the corresponding instance of dot1dTpFdbAddress has been seen. A value of 'U' indicates that the port number has not been learned but that the bridge does have some forwarding/filtering information about this address (e.g. in the dot1dStaticTable). Implementors are encouraged to assign the port value to this object whenever it is learned even for addresses for which the corresponding value of dot1dTpFdbStatus is not learned (3).</p> |
| Object name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dot1dTpFdbPort                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Object ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.3.6.1.2.1.17.4.3.1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BRIDGE-MIB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Base syntax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Integer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Composed syntax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | INTEGER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Access                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Read-Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mandatory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Parent node                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dot1dTpFdbEntry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| First child                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Either the value 'U', or the port number of the port on which a frame having a source address equal to the value of the corresponding instance of dot1dTpFdbAddress has been seen. A value of 'U' indicates that the port number has not been learned but that the bridge does have some forwarding/filtering information about this address (e.g. in the dot1dStaticTable). Implementors are encouraged to assign the port value to this object whenever it is learned even for addresses for which the corresponding value of dot1dTpFdbStatus is not learned (3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                |           |                        |        |            |             |         |                 |         |        |           |        |           |             |                 |             |      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |