

## How to set port control with SNMP command on DGS-3450

The following command will set the port 15 to use 100MB full connection.

```
# snmpset -c private -v 2c
```

```
192.168.1.24 .1.3.6.1.4.1.171.11.70.3.2.3.2.1.5.15.1 i 6
```

Please refer the following the description for port control's OID meaning

	<p><b>Object name</b> swL2PortCtrlTable</p> <p><b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2</p> <p><b>Module</b> DGS3450-L2MGMT-MIB</p> <p><b>Base syntax</b> Sequence Of swL2PortCtrlEntry</p> <p><b>Access</b> Not_Accessible</p> <p><b>Status</b> Current</p> <p><b>Sequence</b>  1:swL2PortCtrlPortIndex - Integer  2:swL2PortCtrlMediumType - Integer  3:swL2PortCtrlUnitIndex - Integer  4:swL2PortCtrlAdminState - Integer  5:swL2PortCtrlNwayState - Integer  6:swL2PortCtrlFlowCtrlState - Integer  7:swL2PortCtrlLockState - Integer  8:swL2PortCtrlMACNotifyState - Integer  9:swL2PortCtrlAutoNegRestart - Integer  10:swL2PortCtrlAutoNegCapAdvertisedBits - 0</p> <p><b>Parent node</b> swL2PortMgmt</p> <p><b>First child</b> swL2PortCtrlEntry</p> <p><b>Description</b> A table that contains control information about every port.</p>
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	<p><b>Object name</b> swL2PortCtrlEntry</p> <p><b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1</p> <p><b>Module</b> DGS3450-L2MGMT-MIB</p> <p><b>Base syntax</b> Sequence</p> <p><b>Access</b> Not_Accessible</p> <p><b>Status</b> Current</p> <p><b>Index</b>  1.swL2PortCtrlPortIndex  2.swL2PortCtrlMediumType</p> <p><b>Parent node</b> swL2PortCtrlTable</p> <p><b>First child</b> swL2PortCtrlPortIndex</p> <p><b>Description</b> A list of control information for each port of the device.</p>
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	<p><b>Object name</b> swL2PortCtrlPortIndex</p> <p><b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.1</p> <p><b>Module</b> DGS3450-L2MGMT-MIB</p> <p><b>Base syntax</b> Integer</p> <p><b>Composed syntax</b> INTEGER</p> <p><b>Access</b> Read-Only</p> <p><b>Status</b> Current</p> <p><b>Value list</b> 1 : 0..65535</p> <p><b>Parent node</b> swL2PortCtrlEntry</p> <p><b>First child</b> None</p> <p><b>Description</b> This object indicates the module's port number. (1..Max port number in the module)</p>
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	<p><b>Object name</b> swL2PortCtrlMediumType</p> <p><b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.2</p> <p><b>Module</b> DGS3450-L2MGMT-MIB</p> <p><b>Base syntax</b> Integer</p> <p><b>Composed syntax</b> INTEGER</p> <p><b>Access</b> Read-Only</p> <p><b>Status</b> Current</p> <p><b>Value list</b>  1 : copper(1)  2 : fiber(2)</p> <p><b>Parent node</b> swL2PortCtrlEntry</p> <p><b>First child</b> None</p> <p><b>Description</b> Indicates medium type of the port number.</p>
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<pre> swL2PortMgmt ├── swL2PortInfoTable ├── swL2PortCtrlTable └── swL2PortCtrlEntry     ├── swL2PortCtrlPortIndex     ├── swL2PortCtrlMediumType     ├── swL2PortCtrlUnitIndex     ├── swL2PortCtrlAdminState     ├── swL2PortCtrlNwayState     ├── swL2PortCtrlFlowCtrlState     ├── swL2PortCtrlLockState     ├── swL2PortCtrlMACNotifyState     ├── swL2PortCtrlAutoNegRestart     ├── swL2PortCtrlAutoNegCapAdvertisedBits     └── swL2PortCtrlJumboFrame </pre>	<b>Object name</b> swL2PortCtrlUnitIndex <b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.3 <b>Module</b> DGS3450-L2MGMT-MIB  <b>Base syntax</b> Integer <b>Composed syntax</b> INTEGER <b>Access</b> Read-Only <b>Status</b> Current <b>Value list</b> 1 : 0..65535  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> Indicates ID of the unit in the device
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<pre> swL2PortMgmt ├── swL2PortInfoTable ├── swL2PortCtrlTable └── swL2PortCtrlEntry     ├── swL2PortCtrlPortIndex     ├── swL2PortCtrlMediumType     ├── swL2PortCtrlUnitIndex     ├── swL2PortCtrlAdminState     ├── swL2PortCtrlNwayState     ├── swL2PortCtrlFlowCtrlState     ├── swL2PortCtrlLockState     ├── swL2PortCtrlMACNotifyState     ├── swL2PortCtrlAutoNegRestart     ├── swL2PortCtrlAutoNegCapAdvertisedBits     └── swL2PortCtrlJumboFrame         └── swL2PortCtrlJumboFrameMaxSize </pre>	<b>Object name</b> swL2PortCtrlAdminState <b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.4 <b>Module</b> DGS3450-L2MGMT-MIB  <b>Base syntax</b> Integer <b>Composed syntax</b> INTEGER <b>Access</b> Read-Write <b>Status</b> Current <b>Value list</b> 1 : other(1) 2 : disabled(2) 3 : enabled(3)  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> This object decide the port enabled or disabled.
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<pre> swL2PortMgmt ├── swL2PortInfoTable ├── swL2PortCtrlTable └── swL2PortCtrlEntry     ├── swL2PortCtrlPortIndex     ├── swL2PortCtrlMediumType     ├── swL2PortCtrlUnitIndex     ├── swL2PortCtrlAdminState     ├── swL2PortCtrlNwayState     ├── swL2PortCtrlFlowCtrlState     ├── swL2PortCtrlLockState     ├── swL2PortCtrlMACNotifyState     ├── swL2PortCtrlAutoNegRestart     ├── swL2PortCtrlAutoNegCapAdvertisedBits     └── swL2PortCtrlJumboFrame         ├── swL2PortCtrlJumboFrameMaxSize         └── swL2PortCounterCtrlTable             └── swL2PortCounterCtrlEntry                 ├── swL2PortCounterCtrlPortIndex                 └── swL2PortCounterClearCtrl </pre>	<b>Object name</b> swL2PortCtrlNwayState <b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.5 <b>Module</b> DGS3450-L2MGMT-MIB  <b>Base syntax</b> Integer <b>Composed syntax</b> INTEGER <b>Access</b> Read-Write <b>Status</b> Current <b>Value list</b> 1 : other(1) 2 : nway-enabled(2) 3 : nway-disabled-10Mbps-Half(3) 4 : nway-disabled-10Mbps-Full(4) 5 : nway-disabled-100Mbps-Half(5) 6 : nway-disabled-100Mbps-Full(6) 7 : nway-disabled-1Gigabps-Full(8) 8 : nway-disabled-1Gigabps-Full-master(9) 9 : nway-disabled-1Gigabps-Full-slave(10)  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> Chose the port speed, duplex mode, and N-Way function mode.
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<pre> swL2PortMgmt ├── swL2PortInfoTable ├── swL2PortCtrlTable └── swL2PortCtrlEntry     ├── swL2PortCtrlPortIndex     ├── swL2PortCtrlMediumType     ├── swL2PortCtrlUnitIndex     ├── swL2PortCtrlAdminState     ├── swL2PortCtrlNwayState     ├── swL2PortCtrlFlowCtrlState     ├── swL2PortCtrlLockState     ├── swL2PortCtrlMACNotifyState     ├── swL2PortCtrlAutoNegRestart     ├── swL2PortCtrlAutoNegCapAdvertisedBits     └── swL2PortCtrlJumboFrame         ├── swL2PortCtrlJumboFrameMaxSize         └── swL2PortCounterCtrlTable             └── swL2PortCounterCtrlEntry </pre>	<b>Object name</b> swL2PortCtrlFlowCtrlState <b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.6 <b>Module</b> DGS3450-L2MGMT-MIB  <b>Base syntax</b> Integer <b>Composed syntax</b> INTEGER <b>Access</b> Read-Write <b>Status</b> Current <b>Value list</b> 1 : other(1) 2 : disabled(2) 3 : enabled(3)  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> The flow control mechanism is different between full duplex mode and half duplex mode. For half duplex mode, the jamming signal is asserted. For full duplex mode, IEEE 802.3x flow control function sends PAUSE frames and receives PAUSE frames.
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<pre> swL2PortMgmt ├── swL2PortInfoTable ├── swL2PortCtrlTable └── swL2PortCtrlEntry     ├── swL2PortCtrlPortIndex     ├── swL2PortCtrlMediumType     ├── swL2PortCtrlUnitIndex     ├── swL2PortCtrlAdminState     ├── swL2PortCtrlNwayState     ├── swL2PortCtrlFlowCtrlState     ├── swL2PortCtrlLockState     ├── swL2PortCtrlMACNotifyState     ├── swL2PortCtrlAutoNegRestart     ├── swL2PortCtrlAutoNegCapAdvertisedBits     └── swL2PortCtrlJumboFrame         └── swL2PortCounterCtrlTable </pre>	<b>Object name</b> swL2PortCtrlLockState <b>Object ID</b> 1.3.6.1.4.1.171.11.70.3.2.3.2.1.7 <b>Module</b> DGS3450-L2MGMT-MIB  <b>Base syntax</b> Integer <b>Composed syntax</b> INTEGER <b>Access</b> Read-Write <b>Status</b> Current <b>Value list</b> 1 : other(1) 2 : disabled(2) 3 : enabled(3)  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> This object decide the port is locked or not.
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<pre> swL2PortMgmt ├── swL2PortInfoTable ├── swL2PortCtrlTable └── swL2PortCtrlEntry     ├── swL2PortCtrlPortIndex     ├── swL2PortCtrlMediumType     ├── swL2PortCtrlUnitIndex     ├── swL2PortCtrlAdminState     ├── swL2PortCtrlNwayState     ├── swL2PortCtrlFlowCtrlState     ├── swL2PortCtrlLockState     └── <b>swL2PortCtrlMACNotifyState</b>         ├── swL2PortCtrlAutoNegRestart         └── swL2PortCtrlAutoNegCapAdvertisedBits swL2PortCtrlJumboFrame swL2PortCtrlJumboFrameMaxSize </pre>	<pre> Object name  swL2PortCtrlMACNotifyState Object ID    1.3.6.1.4.1.171.11.70.3.2.3.2.1.8 Module       DGS3450-L2MGMT-MIB  Base syntax  Integer Composed syntax  INTEGER Access       Read-Write Status       Current Value list   1 : other(1)              2 : disabled(2)              3 : enabled(3)  Parent node  swL2PortCtrlEntry First child  None Description  This object set each port MAC notification state. </pre>
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