

# L2 Port Control table Description ( DES -3200 )

## The OID of DES-3200 series

DES-3200-10	1.3.6.1.4.1.171.11.113.1.1.2
DES-3200-18	1.3.6.1.4.1.171.11.113.1.2.2
DES-3200-28F	1.3.6.1.4.1.171.11.113.1.4.2
DES-3200-28	1.3.6.1.4.1.171.11.113.1.3.2

The OID located in L2management, In my test, I use DES-3200-28F as DUT



## Example

### Show port media type

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.1.2  
copper(100)  
fiber(101)
```

### Enable port 1

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.1.3.1.101 i 3  
1 = port number
```

### Configure port 27 Nway State as 100Mbps-Half

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.1.4.27.101 i 4  
1 : nway-auto(1)  
2 : nway-disabled-10Mbps-Half(2)  
3 : nway-disabled-10Mbps-Full(3)  
4 : nway-disabled-100Mbps-Half(4)  
5 : nway-disabled-100Mbps-Full(5)  
6 : nway-disabled-1Gigabps-Full(7)  
7 : nway-disabled-1Gigabps-Full-Master(8)
```

8 : nway-disabled-1Gigabps-Full-Slave(9)

### **Configure port 1 Flow Control**

`snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.5.1.101 i 3`

3 = enabled

2 = disabled

### **Configure port Description**

Configure port 1 as " TEST "

`snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.6.1.101 s TEST`

### **Configure port Address Learning**

Configure port 1 Address Learning disable

`snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.7.1.101 i 2`

### **Configure port Mac Notification**

Configure port 1 Mac Notification disable

`snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.8.1.101 i 2`

### **Configure Multicast filter**

Configure port 1 Multicast filter as forward-unregistered-groups

`snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.9.1.101 i 2`

### **Configure MDIX State**

Configure port 27 MDIX State as normal ( Note It only can configure on copper port )

`snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.10.27.100 i 2`

### **Related OID**

	Object name	swL2PortCtrlTable
	Object ID	1.3.6.1.4.1.171.11.113.1.4.2.2.2
	Module	DES3200-28F-L2MGMT-MIB
	Base syntax	Sequence Of swL2PortCtrlEntry
	Access	Not_Accessible
	Status	Current
	Sequence	1:swL2PortCtrlPortIndex - Integer 2:swL2PortCtrlPortMediumType - Integer 3:swL2PortCtrlAdminState - Integer 4:swL2PortCtrlNwayState - Integer 5:swL2PortCtrlFlowCtrlState - Integer 6:swL2PortCtrlDescription - Octet String 7:swL2PortCtrlAddressLearning - Integer 8:swL2PortCtrlMACNotifyState - Integer 9:swL2PortCtrlMulticastfilter - Integer 10:swL2PortCtrlMDIXState - Integer
	Parent node	swL2PortMgmt
	First child	swL2PortCtrlEntry
	Description	A table that contains control information about every port.

	Object name	swL2PortCtrlEntry
	Object ID	1.3.6.1.4.1.171.11.113.1.4.2.2.1
	Module	DES3200-28F-L2MGMT-MIB
	Base syntax	Sequence
	Access	Not_Accessible
	Status	Current
	Index	1.swL2PortCtrlPortIndex 2.swL2PortCtrlPortMediumType
	Parent node	swL2PortCtrlTable
	First child	swL2PortCtrlPortIndex
	Description	A list of control information for each port of the device.

	Object name	swL2PortCtrlPortIndex
	Object ID	1.3.6.1.4.1.171.11.113.1.4.2.2.1.1
	Module	DES3200-28F-L2MGMT-MIB
	Base syntax	Integer
	Composed syntax	INTEGER
	Access	Read-Only
	Status	Current
	Value list	1 : 1..255
	Parent node	swL2PortCtrlEntry
	Description	This object indicates the module's port number. (1..Max port number in the module)

	Object name	swL2PortCtrlPortMediumType
	Object ID	1.3.6.1.4.1.171.11.113.1.4.2.2.1.2
	Module	DES3200-28F-L2MGMT-MIB
	Base syntax	Integer
	Composed syntax	INTEGER
	Access	Read-Only
	Status	Current
	Value list	1 : copper(100) 2 : fiber(101)
	Parent node	swL2PortCtrlEntry
	Description	This object indicates the port type: fiber or copper.

	Object name	swL2PortCtrlAdminState
	Object ID	1.3.6.1.4.1.171.11.113.1.4.2.2.1.3
	Module	DES3200-28F-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
	Description	This object decides whether the port is enabled or disabled.

<ul style="list-style-type: none"> <li>swL2PortCtrlTable           <ul style="list-style-type: none"> <li>swL2PortCtrlEntry               <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlNWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable               <ul style="list-style-type: none"> <li>swL2PortErrEntry                   <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> <li>swL2PortErrPortState</li> <li>swL2PortErrPortReason</li> <li>swL2PortErrDescription</li> </ul> </li> </ul> </li> </ul> </li> <li>swL2PortCtrlJumboFrame</li> </ul>	<b>Object name</b> swL2PortCtrlNWayState <b>Object ID</b> 1.3.6.1.4.1.171.11.113.1.4.2.2.1.4 <b>Module</b> DES3200-28F-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 : nway-auto(1) 2 : nway-disabled-10Mbps-Half(2) 3 : nway-disabled-10Mbps-Full(3) 4 : nway-disabled-100Mbps-Half(4) 5 : nway-disabled-100Mbps-Full(5) 6 : nway-disabled-1Gigabps-Full(7) 7 : nway-disabled-1Gigabps-Full-Master(8) 8 : nway-disabled-1Gigabps-Full-Slave(9)  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> Choose the port speed, duplex mode, and N-Way function mode.
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<ul style="list-style-type: none"> <li>swL2PortCtrlTable           <ul style="list-style-type: none"> <li>swL2PortCtrlEntry               <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlNWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable               <ul style="list-style-type: none"> <li>swL2PortErrEntry                   <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> <li>swL2PortErrPortState</li> <li>swL2PortErrPortReason</li> <li>swL2PortErrDescription</li> </ul> </li> </ul> </li> </ul> </li> <li>swL2PortCtrlJumboFrameMaxSize</li> </ul>	<b>Object name</b> swL2PortCtrlFlowCtrlState <b>Object ID</b> 1.3.6.1.4.1.171.11.113.1.4.2.2.1.5 <b>Module</b> DES3200-28F-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> Set the flow control function as enabled or disabled.
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<ul style="list-style-type: none"> <li>swL2PortCtrlTable           <ul style="list-style-type: none"> <li>swL2PortCtrlEntry               <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlNWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable               <ul style="list-style-type: none"> <li>swL2PortErrEntry                   <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> <li>swL2PortErrPortState</li> <li>swL2PortErrPortReason</li> <li>swL2PortErrDescription</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<b>Object name</b> swL2PortCtrlDescription <b>Object ID</b> 1.3.6.1.4.1.171.11.113.1.4.2.2.1.6 <b>Module</b> DES3200-28F-L2MGMT-MIB  <b>Base syntax</b> Octet String <b>Composed syntax</b> DisplayString <b>Access</b> Read-Write <b>Status</b> Current <b>Value list</b> 1 : 0..32  <b>Parent node</b> swL2PortCtrlEntry <b>First child</b> None <b>Description</b> The object describes the ports in text.
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<ul style="list-style-type: none"> <li>swL2PortCtrlTable           <ul style="list-style-type: none"> <li>swL2PortCtrlEntry               <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlNWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable               <ul style="list-style-type: none"> <li>swL2PortErrEntry                   <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<b>Object name</b> swL2PortCtrlAddressLearning <b>Object ID</b> 1.3.6.1.4.1.171.11.113.1.4.2.2.1.7 <b>Module</b> DES3200-28F-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 decides whether the address learning is enabled or disabled.
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<ul style="list-style-type: none"> <li>swL2PortCtrlTable           <ul style="list-style-type: none"> <li>swL2PortCtrlEntry               <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlNWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable               <ul style="list-style-type: none"> <li>swL2PortErrEntry                   <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> <li>swL2PortErrPortState</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<b>Object name</b> swL2PortCtrlMACNotifyState <b>Object ID</b> 1.3.6.1.4.1.171.11.113.1.4.2.2.1.8 <b>Module</b> DES3200-28F-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 sets each port's MAC notification state.
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<ul style="list-style-type: none"> <li>swL2PortCtrlTable</li> <li>swL2PortCtrlEntry <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlInWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable</li> <li>swL2PortErrEntry <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> </ul> </li> </ul>	<p>Object name: swL2PortCtrlMulticastFilter  Object ID: 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.9  Module: DES3200-28F-L2MGMT-MIB</p> <p>Base syntax: Integer  Composed syntax: INTEGER  Access: Read-Write  Status: Current  Value list: 1 : forward-unregistered-groups(2)  2 : filter-unregistered-groups(3)</p> <p>Parent node: swL2PortCtrlEntry  First child: None  Description: This object decides the multicast packet filtering mode on this port.</p>
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<ul style="list-style-type: none"> <li>swL2PortCtrlTable</li> <li>swL2PortCtrlEntry <ul style="list-style-type: none"> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlInWayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li>swL2PortCtrlMACNotifyState</li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> </ul> </li> <li>swL2PortErrTable</li> <li>swL2PortErrEntry <ul style="list-style-type: none"> <li>swL2PortErrPortIndex</li> <li>swL2PortErrPortState</li> <li>swL2PortErrPortStatus</li> </ul> </li> </ul>	<p>Object name: swL2PortCtrlMDIXState  Object ID: 1.3.6.1.4.1.171.11.113.1.4.2.2.2.1.10  Module: DES3200-28F-L2MGMT-MIB</p> <p>Base syntax: Integer  Composed syntax: INTEGER  Access: Read-Write  Status: Current  Value list: 1 : auto(1)  2 : normal(2)  3 : cross(3)  4 : other(4)</p> <p>Parent node: swL2PortCtrlEntry  First child: None  Description: This object configures the MDIX setting of the port.  The value 'other' is for those entries in which MDIX is not applicable.</p>
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