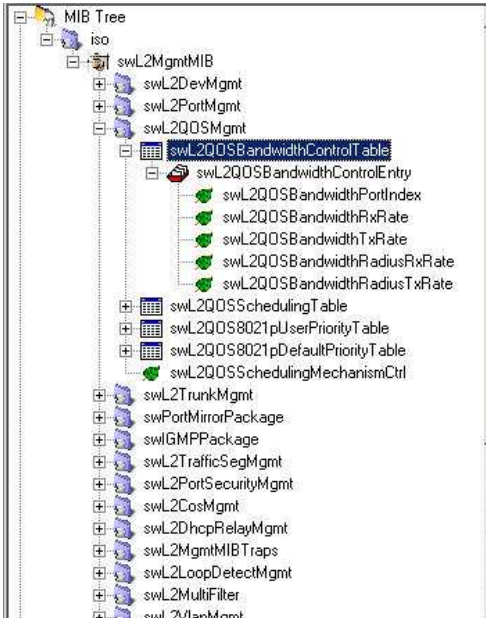


How to use NETSNMP –

Configure Bandwidth Control in DES-3200_F/W_R1.21.B006 series

The OIDs for configuring Bandwidth Control in DES-3200_F/W_R1.21.B006 series are defined in “L2MGMT-MIB”.

swQoSBandwidthControlTable

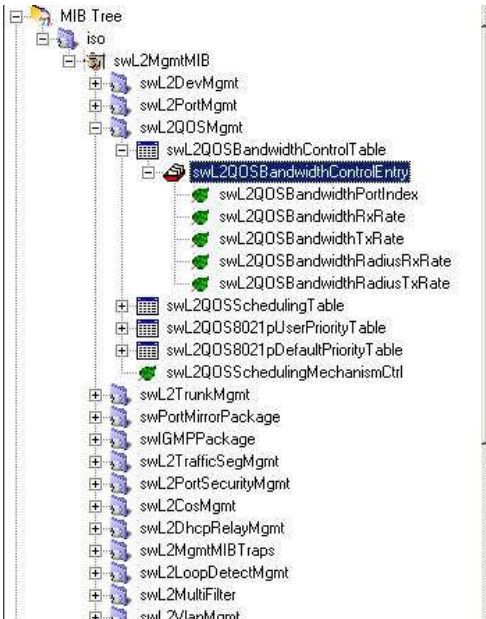


The screenshot shows a MIB Tree with the following structure:

- iso
 - swL2MgmtMIB
 - swL2DevMgmt
 - swL2PortMgmt
 - swL2QOSMgmt
 - swL2QOSBandwidthControlTable**
 - swL2QOSBandwidthControlEntry
 - swL2QOSBandwidthPortIndex
 - swL2QOSBandwidthRxRate
 - swL2QOSBandwidthTxRate
 - swL2QOSBandwidthRadiusRxRate
 - swL2QOSBandwidthRadiusTxRate
 - swL2QOSSchedulingTable
 - swL2QOS8021pUserPriorityTable
 - swL2QOS8021pDefaultPriorityTable
 - swL2QOSSchedulingMechanismCtrl
 - swL2TrunkMgmt
 - swPortMirrorPackage
 - swGMPPackage
 - swL2TrafficSegMgmt
 - swL2PortSecurityMgmt
 - swL2CosMgmt
 - swL2DhcpRelayMgmt
 - swL2MgmtMIBTraps
 - swL2LoopDetectMgmt
 - swL2MultiFilter
 - swL2VlanMgmt

Object name	swL2QOSBandwidthControlTable
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1
Module	DES3200-28-L2MGMT-MIB
Base syntax	Sequence Of swL2QOSBandwidthControlEntry
Access	Not_Accessible
Status	Current
Sequence	1: swL2QOSBandwidthPortIndex - Integer 2: swL2QOSBandwidthRxRate - Integer 3: swL2QOSBandwidthTxRate - Integer 4: swL2QOSBandwidthRadiusRxRate - Integer 5: swL2QOSBandwidthRadiusTxRate - Integer
Parent node	swL2QOSMgmt
First child	swL2QOSBandwidthControlEntry
Description	.

swQoSBandwidthControlEntry

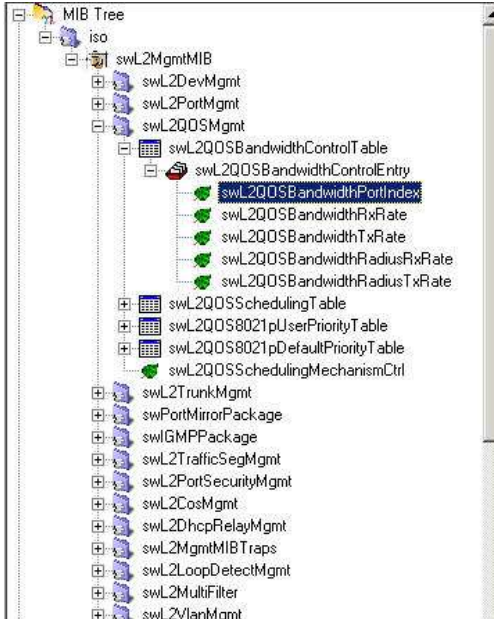


The screenshot shows a MIB Tree with the following structure:

- iso
 - swL2MgmtMIB
 - swL2DevMgmt
 - swL2PortMgmt
 - swL2QOSMgmt
 - swL2QOSBandwidthControlEntry**
 - swL2QOSBandwidthPortIndex
 - swL2QOSBandwidthRxRate
 - swL2QOSBandwidthTxRate
 - swL2QOSBandwidthRadiusRxRate
 - swL2QOSBandwidthRadiusTxRate
 - swL2QOSSchedulingTable
 - swL2QOS8021pUserPriorityTable
 - swL2QOS8021pDefaultPriorityTable
 - swL2QOSSchedulingMechanismCtrl
 - swL2TrunkMgmt
 - swPortMirrorPackage
 - swGMPPackage
 - swL2TrafficSegMgmt
 - swL2PortSecurityMgmt
 - swL2CosMgmt
 - swL2DhcpRelayMgmt
 - swL2MgmtMIBTraps
 - swL2LoopDetectMgmt
 - swL2MultiFilter
 - swL2VlanMgmt

Object name	swL2QOSBandwidthControlEntry
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1.1
Module	DES3200-28-L2MGMT-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1: swL2QOSBandwidthPortIndex
Parent node	swL2QOSBandwidthControlTable
First child	swL2QOSBandwidthPortIndex
Description	A list of information contained in swL2QOS

swQoSBandwidthPort

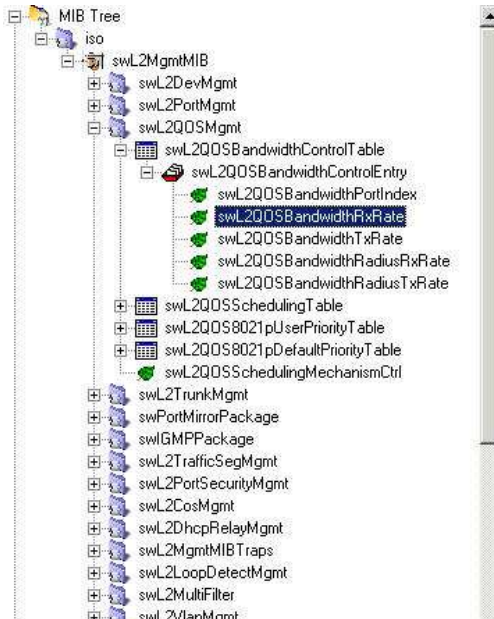


The screenshot shows a MIB Tree with the following structure:

- iso
 - swL2MgmtMIB
 - swL2DevMgmt
 - swL2PortMgmt
 - swL2QOSMgmt
 - swL2QOSBandwidthControlTable
 - swL2QOSBandwidthControlEntry
 - swL2QOSBandwidthPortIndex**
 - swL2QOSBandwidthRxRate
 - swL2QOSBandwidthTxRate
 - swL2QOSBandwidthRadiusRxRate
 - swL2QOSBandwidthRadiusTxRate
 - swL2QOSSchedulingTable
 - swL2QOS8021pUserPriorityTable
 - swL2QOS8021pDefaultPriorityTable
 - swL2QOSSchedulingMechanismCtrl
 - swL2TrunkMgmt
 - swPortMirrorPackage
 - swGMPPackage
 - swL2TrafficSegMgmt
 - swL2PortSecurityMgmt
 - swL2CosMgmt
 - swL2DhcpRelayMgmt
 - swL2MgmtMIBTraps
 - swL2LoopDetectMgmt
 - swL2MultiFilter
 - swL2VlanMgmt

Object name	swL2QOSBandwidthPortIndex
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.1
Module	DES3200-28-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..650
Parent node	swL2QOSBandwidthControlEntry
First child	None
Description	Indicates the port.

swQoSBandwidthRxRate



The screenshot shows a MIB Tree with the following structure:

- iso
 - swL2MgmtMIB
 - swL2DevMgmt
 - swL2PortMgmt
 - swL2QOSMgmt
 - swL2QOSBandwidthControlTable
 - swL2QOSBandwidthControlEntry
 - swL2QOSBandwidthPortIndex
 - swL2QOSBandwidthRxRate**
 - swL2QOSBandwidthTxRate
 - swL2QOSBandwidthRadiusRxRate
 - swL2QOSBandwidthRadiusTxRate
 - swL2QOSSchedulingTable
 - swL2QOS8021pUserPriorityTable
 - swL2QOS8021pDefaultPriorityTable
 - swL2QOSSchedulingMechanismCtrl
 - swL2TrunkMgmt
 - swPortMirrorPackage
 - swGMPPackage
 - swL2TrafficSegMgmt
 - swL2PortSecurityMgmt
 - swL2CosMgmt
 - swL2DhcpRelayMgmt
 - swL2MgmtMIBTraps
 - swL2LoopDetectMgmt
 - swL2MultiFilter
 - swL2VlanMgmt

Object name	swL2QOSBandwidthRxRate
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.2
Module	DES3200-28-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 64..1024000
Parent node	swL2QOSBandwidthControlEntry
First child	None
Description	Indicates the RX Rate(Kbit/sec) of the spe

swQoSBandwidthTxRate

Object name	swL2QOSBandwidthTxRate
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.3
Module	DES3200-28-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 64..1024000
Parent node	swL2QOSBandwidthControlEntry
First child	None
Description	Indicates the TX Rate(Kbit/sec) of the spe

swQoSBandwidthRadiusRxRate

Object name	swL2QOSBandwidthRadiusRxRate
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.4
Module	DES3200-28-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Parent node	swL2QOSBandwidthControlEntry
First child	None
Description	The Rx Rate value comes from the RADIUS se If an 802.1X port is authenticated, this v will overwrite the locally configured Rx R.

swQoSBandwidthRadiusTxRate

Object name	swL2QOSBandwidthRadiusTxRate
Object ID	1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.5
Module	DES3200-28-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Parent node	swL2QOSBandwidthControlEntry
First child	None
Description	The Tx Rate value comes from the RADIUS server. If an 802.1X port is authenticated, this value will overwrite the locally configured Tx Rate.

Example : To configure Bandwidth Control by RX rate : 1024Kbps, TX rate : 1024Kbps on port 1 of DES-3528

[NETSNMP command]

```
C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.2.1 i 1024
1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.3.1 i 1024
```

Blue : OID for RX rate

Green : OID for TX rate

Red : specify the port number


```
C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\Administrator>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.2.1 i 1024 1.3.6.1.4.1.171.11.113.1.3.2.3.1.1.3.1 i 1024
SNMPv2-SMI::enterprises.171.11.113.1.3.2.3.1.1.2.1 = INTEGER: 1024
SNMPv2-SMI::enterprises.171.11.113.1.3.2.3.1.1.3.1 = INTEGER: 1024
C:\Documents and Settings\Administrator>_
```

DES-3200-28:4#show bandwidth_control
Command: show bandwidth_control

Bandwidth Control Table

Port	RX Rate (Kbit/sec)	TX Rate (Kbit/sec)	Effective RX (Kbit/sec)	Effective TX (Kbit/sec)
1	1024	1024	1000	1000
2	no_limit	no_limit	no_limit	no_limit
3	no_limit	no_limit	no_limit	no_limit
4	no_limit	no_limit	no_limit	no_limit
5	no_limit	no_limit	no_limit	no_limit
6	no_limit	no_limit	no_limit	no_limit
7	no_limit	no_limit	no_limit	no_limit
8	no_limit	no_limit	no_limit	no_limit
9	no_limit	no_limit	no_limit	no_limit
10	no_limit	no_limit	no_limit	no_limit
11	no_limit	no_limit	no_limit	no_limit
12	no_limit	no_limit	no_limit	no_limit
13	no_limit	no_limit	no_limit	no_limit
14	no_limit	no_limit	no_limit	no_limit
15	no_limit	no_limit	no_limit	no_limit
16	no_limit	no_limit	no_limit	no_limit
17	no_limit	no_limit	no_limit	no_limit

End