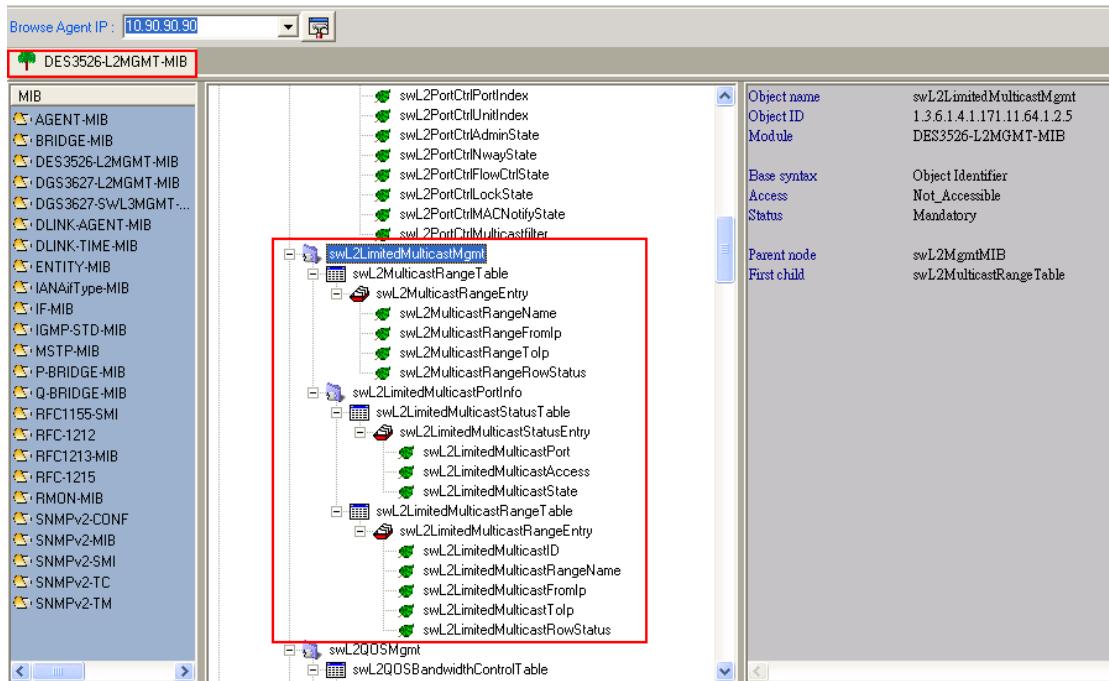# How to use NET-SNMP – Limited Multicast

The Location of Limited Multicast OID Management

MIB File: DES3526-L2MGMT-MIB
OID: 1.3.6.1.4.1.171.11.64.1.2.5

Limited Multicast Table

Object name	swL2MulticastRangeTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.1
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2MulticastRangeEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2MulticastRangeName - Octet String
	2:swL2MulticastRangeFromIp - IP Address
	3:swL2MulticastRangeToIp - IP Address
	4:swL2MulticastRangeRowStatus - Integer
Parent node	swL2LimitedMulticastMgmt
First child	swL2MulticastRangeEntry
Description	.

Show Limited Multicast Range Name

:: Command ::

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.5.1.1.1

Object name	swL2MulticastRangeName
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.1.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Parent node	swL2MulticastRangeEntry
First child	None
Description	This object specifies multicast range name.

Show Limited Multicast Range From IP

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.1.1.2

Object name	swL2MulticastRangeFromIp
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.1.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Create
Status	Current
Parent node	swL2MulticastRangeEntry
First child	None
Description	This object specifies begin IP address for this range.

Show Limited Multicast Range To IP

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.1.1.3

Object name	swL2MulticastRangeToIp
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.1.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Create
Status	Current
Parent node	swL2MulticastRangeEntry
First child	None
Description	This object specifies end IP address for this range.

Setup Multicast Range Row Range Status

:: Command ::

snmpset -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.1.1.4

Object name	swL2MulticastRangeRowStatus
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.1.1.4
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	RowStatus
Access	Read-Create
Status	Current
Value list	1 : active(1)
	2 : notInService(2)
	3 : notReady(3)
	4 : createAndGo(4)
	5 : createAndWait(5)
	6 : destroy(6)
Parent node	swL2MulticastRangeEntry
First child	None
Description	This object indicates the status of this entry.

Limited Multicast Status Table

Object name	swL2LimitedMulticastStatusTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.1
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2LimitedMulticastStatusEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2LimitedMulticastPort - Integer
	2:swL2LimitedMulticastAccess - Integer
	3:swL2LimitedMulticastState - Integer
Parent node	swL2LimitedMulticastPortInfo
First child	swL2LimitedMulticastStatusEntry
Description	.

Show Limited Multicast Port

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.1.1.1

Object name	swL2LimitedMulticastPort
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.1.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..65535
Parent node	swL2LimitedMulticastStatusEntry
First child	None
Description	This object indicates the port .

Set Limited Multicast Access Type

:: Command ::

snmpset -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.1.1.2

Object name	swL2LimitedMulticastAccess
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.1.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : none(1)
	2 : permit(2)
	3 : deny(3)
Parent node	swL2LimitedMulticastStatusEntry
First child	None
Description	This object indicates the access type.

Set Limited Multicast State

:: Command ::

snmpset -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.1.1.3

Object name	swL2LimitedMulticastState
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.1.1.3
Module	DES3526-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	swL2LimitedMulticastStatusEntry
First child	None
Description	This object indicates the state for this port.

Limited Multicast Range Table

Object name	swL2LimitedMulticastRangeTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.2
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2LimitedMulticastRangeEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2LimitedMulticastID - Integer
	2:swL2LimitedMulticastRangeName - Octet String
	3:swL2LimitedMulticastFromIp - IP Address
	4:swL2LimitedMulticastToIp - IP Address
	5:swL2LimitedMulticastRowStatus - Integer
Parent node	swL2LimitedMulticastPortInfo
First child	swL2LimitedMulticastRangeEntry
Description	.

Show Multicast Range ID

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.1

Object name	swL2LimitedMulticastID
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..65535
Parent node	swL2LimitedMulticastRangeEntry
First child	None
Description	This object indicates the range ID .

Show Multicast Range Name

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.2

Object name	swL2LimitedMulticastRangeName
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Create
Status	Current
Parent node	swL2LimitedMulticastRangeEntry
First child	None
Description	

Show Limited multicast From IP

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.3

Object name	swL2LimitedMulticastFromIp
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Only
Status	Current
Parent node	swL2LimitedMulticastRangeEntry
First child	None
Description	This object specifies begin IP address of the range on this port.

Show Limited multicast To IP

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.4

Object name	swL2LimitedMulticastToIp
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.4
Module	DES3526-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Only
Status	Current
Parent node	swL2LimitedMulticastRangeEntry
First child	None
Description	This object specifies end IP address of the range on this port.

Show Limited Multicast Row Status

:: Command ::

snmpwalk -v2c -c public 192.168.0.1   1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.5

Object name	swL2LimitedMulticastRowStatus
Object ID	1.3.6.1.4.1.171.11.64.1.2.5.2.2.1.5
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	RowStatus
Access	Read-Create
Status	Current
Value list	1 : active(1)
	2 : notInService(2)
	3 : notReady(3)
	4 : createAndGo(4)
	5 : createAndWait(5)
	6 : destroy(6)
Parent node	swL2LimitedMulticastRangeEntry
First child	None
Description	This object indicates the status of this entry.

[Procedures via NETSNMP]

Step1. Create multicast_range name "test" from 225.1.1.1 to 225.1.1.10.

Step2. Add Limited_Mulicast range profile named "test" to port 1.

Step3. Enable Limited_Multicast state on port 1.

Step4. Configure Limited_Multicast access on port 1 to be "Permit".