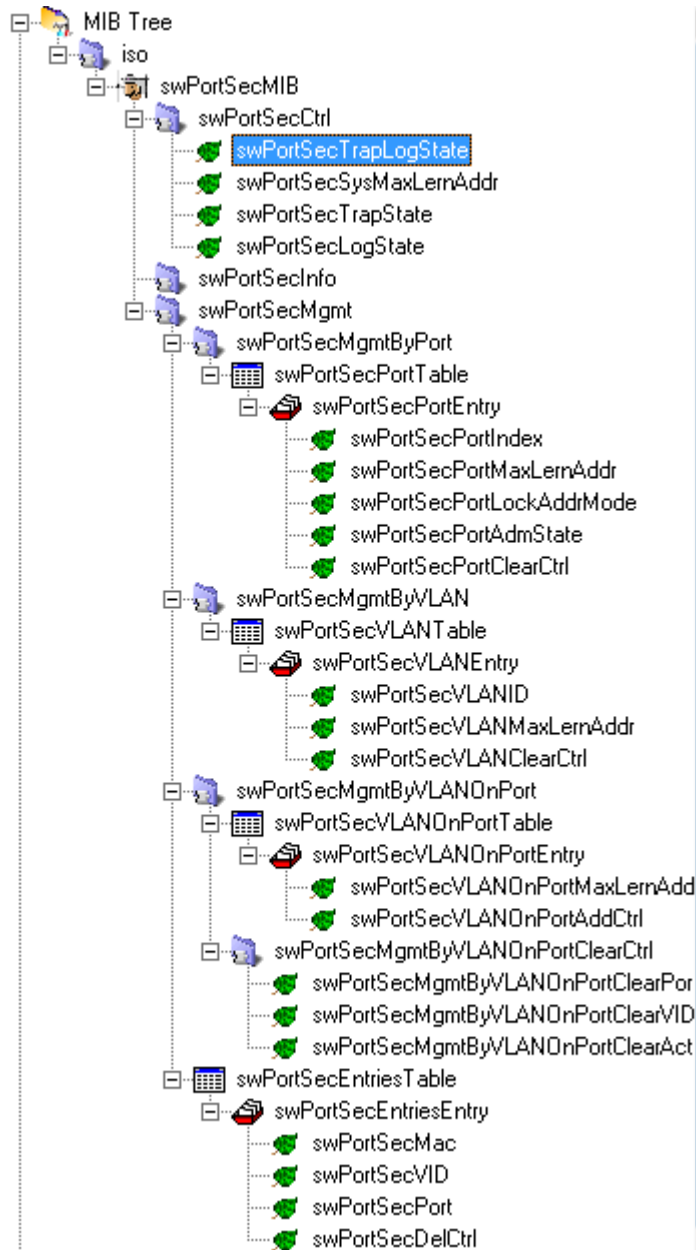


How to configure port_security via SNMP on DES-3200

C1 Series

Refer **PORT-SECURITY-MIB**



1. Command: config port_security system max_learning_addr 110

SNMP: C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.1.2.0 i 110

```
C:\Windows\System32>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.1.2.0 i 100
SNMPv2-SMI::enterprises.171.12.63.1.2.0 = INTEGER: 100
```

2. Command: config port_security vlan default max_learning_addr 50

SNMP: C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.3.2.1.1.2.1 i 50
1.3.6.1.4.1.171.12.63.3.2.1.1.2.1 max_learning_addr (.1 means vlan 1)

```
C:\Windows\System32>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.3.2.1.1.2.1 i 50
SNMPv2-SMI::enterprises.171.12.63.3.2.1.1.2.1 = INTEGER: 50
```

3. Command: config port_security ports 1 admin_state enable lock_address_mode permanent max_learning_addr 18

SNMP: C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.3.1.1.1.2.1 i 18
1.3.6.1.4.1.171.12.63.3.1.1.1.3.1 i 1 1.3.6.1.4.1.171.12.63.3.1.1.1.4.1 i 1

1.3.6.1.4.1.171.12.63.3.1.1.1.2.1 max_learning_addr (.1 means port 1)

1.3.6.1.4.1.171.12.63.3.1.1.1.3.1 lock_address_mode

1.3.6.1.4.1.171.12.63.3.1.1.1.4.1 admin_state

```
C:\Windows\System32>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.3.1.1.1.2.1 i 18 1.3.6.1.4.1.171.12.63.3.1.1.1.3.1 i 1 1.3.6.1.4.1.171.12.63.3.1.1.1.4.1 i 1
SNMPv2-SMI::enterprises.171.12.63.3.1.1.1.2.1 = INTEGER: 18
SNMPv2-SMI::enterprises.171.12.63.3.1.1.1.3.1 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.63.3.1.1.1.4.1 = INTEGER: 1
```

4. Command: enable port_security trap_log

SNMP: C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.1.1.0 i 1

```
C:\Windows\System32>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.63.1.1.0 i 1
SNMPv2-SMI::enterprises.171.12.63.1.1.0 = INTEGER: 1
```

CLI information

DES-3200-26:admin#show port_security
Command: show port_security

Port Security Trap/Log	: Enabled
System Maximum Address	: 100

VLAN Configuration (Only VLANs with limitation are displayed)

VID	VLAN Name	Max. Learning Addr.
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1	default	50
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DES-3200-26:admin#show port_security ports 1
Command: show port_security ports 1

Port	State	Lock Address Mode	Max. Learning Addr.
1	Enabled	Permanent	18

MIB information

swPortSecVLANID

Object name	swPortSecVLANID
Object ID	1.3.6.1.4.1.171.12.63.3.2.1.1.1
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Not_Accessible
Status	Current
Value list	1 : 1..4094
Parent node	swPortSecVLANEntry
First child	None
Description	Indicates the secured VLAN to lock address learning.

swPortSecPortMaxLernAddr

Object name	swPortSecPortMaxLernAddr
Object ID	1.3.6.1.4.1.171.12.63.3.1.1.1.2
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Parent node	swPortSecPortEntry
First child	None
Description	Indicates the allowable number of addresses to be learned on this port. The max entry range is (0..N). The value N means the max number and is determined by the project itself.

swPortSecPortLockAddrMode

Object name	swPortSecPortLockAddrMode
Object ID	1.3.6.1.4.1.171.12.63.3.1.1.1.3
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : permanent(1) 2 : deleteOnTimeout(2) 3 : deleteOnReset(3)
Parent node	swPortSecPortEntry
First child	None
Description	Indicates the mode of locking address. In deleteOnTimeout(2) mode, the locked addresses can be aged out after the aging timer expires. In this mode, when the locked address is aged out, the number of addresses that can be learned has to be increased by one. In deleteOnReset (3) mode, locked addresses never age out unless the system restarts which will prevent port movement or intrusion.

swPortSecPortAdmState

Object name	swPortSecPortAdmState
Object ID	1.3.6.1.4.1.171.12.63.3.1.1.1.4
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swPortSecPortEntry
First child	None
Description	Indicates the administration state of the locking address.

swPortSecPortClearCtrl

Object name	swPortSecPortClearCtrl
Object ID	1.3.6.1.4.1.171.12.63.3.1.1.1.5
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : start(2)
Parent node	swPortSecPortEntry
First child	None
Description	Used to clear port security entries by port. Setting this value to 'start' will execute the clear action. Once cleared, the value returns to 'other'.

swPortSecPortSysMaxLernAddr

Object name	swPortSecSysMaxLernAddr
Object ID	1.3.6.1.4.1.171.12.63.1.2
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Parent node	swPortSecCtrl
First child	None
Description	Indicates the maximum number of addresses to be authorized by port security on the system. The max entry range is (1..N). The value N means the max number and is determined by the project itself.

swPortSecPortTrapLogState

Object name	swPortSecTrapLogState
Object ID	1.3.6.1.4.1.171.12.63.1.1
Module	PORT-SECURITY-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swPortSecCtrl
First child	None
Description	When enabled(1) , whenever there's a new MAC address that violates the pre-defined port security configuration, traps will be sent out and the relevant information will be logged into the system.