How to configure Port Security via NET-SNMP (DGE-3200 Series)

Example

CLI command

DGS-3200-10:4# config port_security ports 6 admin_state enable max_learning_addr 10

lock_address_mode Permanent

```
DGS-3200-10:4#show port_security
Command: show port_security

Port_security Trap/Log : Disabled

 Port      Admin State   Max. Learning Addr.   Lock Address Mode
 -----     -----------   -------------------   -----------------
 1         Disabled               1            DeleteOnReset
 2         Disabled               1            DeleteOnReset
 3         Disabled               1            DeleteOnReset
 4         Disabled               1            DeleteOnReset
 5         Disabled               1            DeleteOnReset
 6         Enabled               10            Permanent
 7         Disabled               1            DeleteOnReset
 8         Disabled               1            DeleteOnReset
 9         Disabled               1            DeleteOnReset
 10        Disabled               1            DeleteOnReset
```

SNMP command

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.7.1.1.2.6 i 10

1.3.6.1.4.1.171.11.101.1.2.7.1.1.3.6 i 2 1.3.6.1.4.1.171.11.101.1.2.7.1.1.4.6 i 2

1.3.6.1.4.1.171.11.101.1.2.7.1.1.5.6 i 2

Clear port security entry

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.7.1.1.5.6 i 2

Enable port_security trap_log

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.7.3.0 i 2

Show port security table

#snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.7.1

Related OID

```
⊟ swL2PortSecurityControlTable          Object name      swL2PortSecurityControlTable
  ⊟ swL2PortSecurityControlEntry        Object ID        1.3.6.1.4.1.171.11.101.1.2.7.1
     swL2PortSecurityPortIndex          Module           DGS3200-L2MGMT-MIB
     swL2PortSecurityMaxLernAddr
     swL2PortSecurityMode               Base syntax      Sequence Of swL2PortSecurityControlEntry
     swL2PortSecurityAdmState           Access           Not_Accessible
     swL2PortSecurityEntryClearCtrl     Status           Current
  ⊟ swL2PortSecurityDelCtrl             Sequence         1:swL2PortSecurityPortIndex - Integer
     swL2PortSecurityDeVlanName                          2:swL2PortSecurityMaxLernAddr - Integer
     swL2PortSecurityDelPort                             3:swL2PortSecurityMode - Integer
     swL2PortSecurityDelMacAddress                       4:swL2PortSecurityAdmState - Integer
     swL2PortSecurityDelActivity                         5:swL2PortSecurityEntryClearCtrl - Integer
     swL2PortSecurityTrapLogState
  swL2DhcpRelayMgmt                     Parent node      swL2PortSecurityMgmt
     swL2DhcpRelayState                 First child      swL2PortSecurityControlEntry
     swL2DhcpRelayHopCount              Description       A port security feature which controls the address leaning capability and
     swL2DhcpRelayTimeThreshold                          traffic forwarding decisions. Each port can be enabled or disabled for this function.
     swL2DhcpRelayOption82State                          When it is enabled and a number is given said N, which allows N addresses to be
     swL2DhcpRelayOption82Check                          learned on this port, the first N learned addresses are locked at this port as
     swL2DhcpRelayOption82Policy                         static entries. When the learned addresses number reaches N, any incoming packet
  ⊟ swL2DhcpRelayCtrlTable                               without learned source addresses are discarded (e.g. dropped) and no more new
                                                         addresses can be learned on this port.
```

```
⊟ swL2PortSecurityControlTable          Object name      swL2PortSecurityControlEntry
  ⊟ swL2PortSecurityControlEntry        Object ID        1.3.6.1.4.1.171.11.101.1.2.7.1.1
     swL2PortSecurityPortIndex          Module           DGS3200-L2MGMT-MIB
     swL2PortSecurityMaxLernAddr
     swL2PortSecurityMode               Base syntax      Sequence
     swL2PortSecurityAdmState           Access           Not_Accessible
     swL2PortSecurityEntryClearCtrl     Status           Current
  ⊟ swL2PortSecurityDelCtrl             Index            1.swL2PortSecurityPortIndex
     swL2PortSecurityDeVlanName
     swL2PortSecurityDelPort            Parent node      swL2PortSecurityControlTable
     swL2PortSecurityDelMacAddress      First child      swL2PortSecurityPortIndex
     swL2PortSecurityDelActivity        Description      A list of information contained in the swL2PortSecurityControlTable.
     swL2PortSecurityTrapLogState
```

```
⊟ swL2PortSecurityControlTable          Object name      swL2PortSecurityPortIndex
  ⊟ swL2PortSecurityControlEntry        Object ID        1.3.6.1.4.1.171.11.101.1.2.7.1.1.1
     swL2PortSecurityPortIndex          Module           DGS3200-L2MGMT-MIB
     swL2PortSecurityMaxLernAddr
     swL2PortSecurityMode               Base syntax      Integer
     swL2PortSecurityAdmState           Composed syntax  INTEGER
     swL2PortSecurityEntryClearCtrl     Access           Read-Only
  ⊟ swL2PortSecurityDelCtrl             Status           Current
     swL2PortSecurityDeVlanName         Value list       1 : 1..768
     swL2PortSecurityDelPort
     swL2PortSecurityDelMacAddress      Parent node      swL2PortSecurityControlEntry
     swL2PortSecurityDelActivity        First child      None
     swL2PortSecurityTrapLogState       Description      Indicates the secured port to lock address learning.
```

```
⊟ swL2PortSecurityControlTable          Object name      swL2PortSecurityMaxLernAddr
  ⊟ swL2PortSecurityControlEntry        Object ID        1.3.6.1.4.1.171.11.101.1.2.7.1.1.2
     swL2PortSecurityPortIndex          Module           DGS3200-L2MGMT-MIB
     swL2PortSecurityMaxLernAddr
     swL2PortSecurityMode               Base syntax      Integer
     swL2PortSecurityAdmState           Composed syntax  INTEGER
     swL2PortSecurityEntryClearCtrl     Access           Read-Write
  ⊟ swL2PortSecurityDelCtrl             Status           Current
     swL2PortSecurityDeVlanName         Value list       1 : 0..16
     swL2PortSecurityDelPort
     swL2PortSecurityDelMacAddress      Parent node      swL2PortSecurityControlEntry
     swL2PortSecurityDelActivity        First child      None
     swL2PortSecurityTrapLogState       Description      Indicates allowable number of addresses to be learned on this port.
```

```
⊟ swL2PortSecurityControlTable          Object name      swL2PortSecurityMode
  ⊟ swL2PortSecurityControlEntry        Object ID        1.3.6.1.4.1.171.11.101.1.2.7.1.1.3
     swL2PortSecurityPortIndex          Module           DGS3200-L2MGMT-MIB
     swL2PortSecurityMaxLernAddr
     swL2PortSecurityMode               Base syntax      Integer
     swL2PortSecurityAdmState           Composed syntax  INTEGER
     swL2PortSecurityEntryClearCtrl     Access           Read-Write
  ⊟ swL2PortSecurityDelCtrl             Status           Current
     swL2PortSecurityDeVlanName         Value list       1 : other(1)
     swL2PortSecurityDelPort                             2 : permanent(2)
     swL2PortSecurityDelMacAddress                       3 : deleteOnTimeout(3)
     swL2PortSecurityDelActivity                         4 : deleteOnReset(4)
     swL2PortSecurityTrapLogState
  swL2DhcpRelayMgmt                     Parent node      swL2PortSecurityControlEntry
     swL2DhcpRelayState                 First child      None
     swL2DhcpRelayHopCount              Description      Indicates the mode of locking address.
     swL2DhcpRelayTimeThreshold                          In deleteOnTimeout(3) mode - the locked addresses can be aged out after
     swL2DhcpRelayOption82State                          the aging timer expires. In this mode, when the locked address is aged
     swL2DhcpRelayOption82Check                          out, the number of addresses that can be learned has to be
     swL2DhcpRelayOption82Policy                         In deleteOnReset(4) mode - Locked addresses never age out unless the system
                                                         restarts which will prevent port movement or intrusion.
```

```
swL2PortSecurityControlTable          Object name        swL2PortSecurityAdmState
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.1.1.4
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Integer
    swL2PortSecurityAdmState          Composed syntax    INTEGER
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : other(1)
    swL2PortSecurityDelPort                              2 : enable(2)
    swL2PortSecurityDelMacAddress                        3 : disable(3)
    swL2PortSecurityDelActivity
  swL2PortSecurityTrapLogState        Parent node        swL2PortSecurityControlEntry
swL2DhcpRelayMgmt                     First child        None
  swL2DhcpRelayState                  Description        Indicates administration state of locking address.
```



```
swL2PortSecurityControlTable          Object name        swL2PortSecurityEntryClearCtrl
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.1.1.5
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Integer
    swL2PortSecurityAdmState          Composed syntax    INTEGER
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : other(1)
    swL2PortSecurityDelPort                              2 : start(2)
    swL2PortSecurityDelMacAddress
    swL2PortSecurityDelActivity       Parent node        swL2PortSecurityControlEntry
  swL2PortSecurityTrapLogState        First child        None
swL2DhcpRelayMgmt                     Description        Used to clear port security entries by port.
  swL2DhcpRelayState                                     Setting this value to 'start' will execute the clear action,
  swL2DhcpRelayHopCount                                  Once cleared, the value returns to 'other'.
```



```
swL2PortSecurityControlTable          Object name        swL2PortSecurityDelCtrl
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.2
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Object Identifier
    swL2PortSecurityAdmState          Access             Not_Accessible
    swL2PortSecurityEntryClearCtrl    Status             Mandatory
  swL2PortSecurityDelCtrl
    swL2PortSecurityDelVlanName       Parent node        swL2PortSecurityMgmt
    swL2PortSecurityDelPort           First child        swL2PortSecurityDelVlanName
    swL2PortSecurityDelMacAddress
    swL2PortSecurityDelActivity
  swL2PortSecurityTrapLogState
```



```
swL2PortSecurityControlTable          Object name        swL2PortSecurityDelVlanName
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.2.1
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Octet String
    swL2PortSecurityAdmState          Composed syntax    DisplayString
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : 0..32
    swL2PortSecurityDelPort
    swL2PortSecurityDelMacAddress     Parent node        swL2PortSecurityDelCtrl
    swL2PortSecurityDelActivity       First child        None
  swL2PortSecurityTrapLogState        Description        Indicates VLAN name.
```



```
swL2PortSecurityControlTable          Object name        swL2PortSecurityDelPort
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.2.2
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Integer
    swL2PortSecurityAdmState          Composed syntax    INTEGER
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : 1..768
    swL2PortSecurityDelPort
    swL2PortSecurityDelMacAddress     Parent node        swL2PortSecurityDelCtrl
    swL2PortSecurityDelActivity       First child        None
  swL2PortSecurityTrapLogState        Description        Indicates the port.
```

```
swL2PortSecurityControlTable          Object name        swL2PortSecurityDelMacAddress
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.2.3
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Octet String
    swL2PortSecurityAdmState          Composed syntax    MacAddress
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : 6..6
    swL2PortSecurityDelPort
    swL2PortSecurityDelMacAddress     Parent node        swL2PortSecurityDelCtrl
    swL2PortSecurityDelActivity       First child        None
  swL2PortSecurityTrapLogState        Description        Specifies a MAC address.
```



```
swL2PortSecurityControlTable          Object name        swL2PortSecurityDelActivity
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.2.4
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Integer
    swL2PortSecurityAdmState          Composed syntax    INTEGER
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : none(1)
    swL2PortSecurityDelPort                              2 : start(2)
    swL2PortSecurityDelMacAddress
    swL2PortSecurityDelActivity       Parent node        swL2PortSecurityDelCtrl
  swL2PortSecurityTrapLogState        First child        None
swL2DhcpRelayMgmt                     Description        .
```



```
swL2PortSecurityControlTable          Object name        swL2PortSecurityTrapLogState
  swL2PortSecurityControlEntry        Object ID          1.3.6.1.4.1.171.11.101.1.2.7.3
    swL2PortSecurityPortIndex         Module             DGS3200-L2MGMT-MIB
    swL2PortSecurityMaxLernAddr
    swL2PortSecurityMode              Base syntax        Integer
    swL2PortSecurityAdmState          Composed syntax    INTEGER
    swL2PortSecurityEntryClearCtrl    Access             Read-Write
  swL2PortSecurityDelCtrl             Status             Current
    swL2PortSecurityDelVlanName       Value list         1 : other(1)
    swL2PortSecurityDelPort                              2 : enable(2)
    swL2PortSecurityDelMacAddress                        3 : disable(3)
    swL2PortSecurityDelActivity
  swL2PortSecurityTrapLogState        Parent node        swL2PortSecurityMgmt
swL2DhcpRelayMgmt                     First child        None
  swL2DhcpRelayState                  Description        When enabled(2),whenever there's a new MAC address that violates
  swL2DhcpRelayHopCount                                  the pre-defined port security configuration, traps will be sent out
  swL2DhcpRelayTimeThreshold                             and the relevant information will be logged into the system.
```