

D-link Switch: DES-3627 Firmware: R1 MIB File: V1

## How to use NET-SNMP – Access Control List (Ethernet)

### The Location of Access Control List OID

The screenshot shows the D-Link MIB Compiler interface. The main window displays a list of MIBs with their corresponding Root IDs. The 'ACLMGMT-MIB' entry is highlighted with a red box, indicating its Root ID is 1.3.6.1.4.1.171.12.9. To the right, the MIB Tree view shows the hierarchical structure of the MIB. The 'swAcIMaskMgmt' branch is expanded, and the 'swACLEthernetTable' is highlighted with a red box. This table contains several entries, including 'swACLEthernetProfileID', 'swACLEthernetUsevlan', 'swACLEthernetMacAddrMaskState', 'swACLEthernetSrcMacAddrMask', 'swACLEthernetDstMacAddrMask', 'swACLEthernetUse8021p', 'swACLEthernetUseEthernetType', and 'swACLEthernetRowStatus'.

MIB	Root ID
AAC-MIB	1.3.6.1.4.1.171.12.5
<b>ACLMGMT-MIB</b>	<b>1.3.6.1.4.1.171.12.9</b>
ACL-MIB	1.3.6.1.4.1.171.12.9
AGENT-MIB	1.3.6.1.4.1.171.12.1
BRIDGE-MIB	1.3.6.1.2.1.17
DES3526-L2MGMT-MIB	1.3.6.1.4.1.171.11.64.1.2
DES3550-L2MGMT-MIB	1.3.6.1.4.1.171.11.64.2.2
DES3828DC-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.2.2
DES3828DC-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.2.3
DES3828-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.1.2
DES3828-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.1.3
DES3828P-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.3.2
DES3828P-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.3.3
DES3852-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.4.2
DES3852-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.4.3
DGS3024-L2MGMT-MIB	1.3.6.1.4.1.171.11.68.1.2
DGS3024PRIMGMT-MIB	1.3.6.1.4.1.171.10.68
DGS3426-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.1.2
DGS3627-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.6.2
DISMAN-PING-MIB	1.3.6.1.2.1.80
DISMAN-TRACEROUTE-MIB	1.3.6.1.2.1.81
DLINK-AGENT-MIB	1.3.6.1.4.1.171.12.1
DLINK-AUTH-MIB	1.3.6.1.4.1.171.12.3
DLINK-EQUIPMENT-MIB	1.3.6.1.4.1.171.12.11
DLINK-ID-REC-MIB	1.3.6.1.4.1.171
DLINK-TIME-MIB	1.3.6.1.4.1.171.12.10

**MIB File: ACMGMT-MIB**

**OID: 1.3.6.1.4.1.171.12.9**

## ACL Ethernet Table

Object name	swACLEthernetEntry
Object ID	1.3.6.1.4.1.171.12.9.2.1.1
Module	ACLMGMT-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1.swACLEthernetProfileID
Parent node	swACLEthernetTable
First child	swACLEthernetProfileID
Description	A list of information about ACL of Ethernet.

### Show ACL Ethernet Profile ID

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.1
```

```
-----  
Object name      swACLEthernetProfileID  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.1  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Only  
Status         Current  
Value list     1 : 1..255  
  
Parent node     swACLEthernetEntry  
First child    None  
Description    The ID of ACL mask entry ,and is unique in the mask list.  
-----
```

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### Show ACL Ethernet Use Vlan

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.2

```
-----  
Object name      swACLEthernetUsevlan  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.2  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list      1 : enabled(1)  
                2 : disabled(2)  
  
Parent node     swACLEthernetEntry  
First child     None  
Description     Specifies that the switch will examine the VLAN part of each packet  
header.  
-----
```

### Show ACL Ethernet Mac Address Mask State

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.3

```
-----  
Object name      swACLEthernetMacAddrMaskState  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.3  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list      1 : other(1)  
                2 : dst-mac-addr(2)  
                3 : src-mac-addr(3)  
                4 : dst-src-mac-addr(4)  
  
Parent node     swACLEthernetEntry  
First child     None  
Description     This object indicates the status of MAC address mask.  
  
                other(1) - Neither source MAC address nor destination MAC address  
                are masked.  
                dst-mac-addr(2) - recieved frames's destination MAC address are  
                currently used to be filtered as it meets with the MAC  
                address entry of the table.  
                src-mac-addr(3) - recieved frames's source MAC address are currently  
                used to be filtered as it meets with the MAC address entry  
                of the table.  
                dst-src-mac-addr(4) - recieved frames's destination MAC address or  
                source MAC address are currently used to be filtered as it meets  
                with the MAC address entry of the table.  
-----
```

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### Show ACL Ethernet Src Mac Address Mask

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.4

```
-----  
Object name      swACLEthernetSrcMacAddrMask  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.4  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax MacAddress  
Access         Read-Create  
Status         Current  
Value list     1 : 6..6  
  
Parent node     swACLEthernetEntry  
First child    None  
Description    This object Specifies the MAC address mask for the source MAC address.  
-----
```

### Show ACL Ethernet Dst Mac Address Mask

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.5

```
-----  
Object name      swACLEthernetDstMacAddrMask  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.5  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax MacAddress  
Access         Read-Create  
Status         Current  
Value list     1 : 6..6  
  
Parent node     swACLEthernetEntry  
First child    None  
Description    This object Specifies the MAC address mask for the destination MAC  
address.  
-----
```

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### Show ACL Ethernet Use 802.1P

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.6

```
-----  
Object name      swACLEthernetUse8021p  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.6  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list     1 : enabled(1)  
              2 : disabled(2)  
  
Parent node     swACLEthernetEntry  
First child     None  
Description     Specifies if the switch will examine the 802.1p priority value in  
                the frame's header or not.  
-----
```

### Show ACL Ethernet Use Ethernet Type

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.7

```
-----  
Object name      swACLEthernetUseEthernetType  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.7  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list     1 : enabled(1)  
              2 : disabled(2)  
  
Parent node     swACLEthernetEntry  
First child     None  
Description     Specifies if the switch will examine the Ethernet type value in each  
                frame's header or not.  
-----
```

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### Show ACL Ethernet Row Status

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.8

```
-----  
Object name      swACLEthernetRowStatus  
Object ID       1.3.6.1.4.1.171.12.9.2.1.1.8  
Module          ACLMGMT-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     swACLEthernetEntry  
First child    None  
Description     This object indicates the status of this entry.  
-----
```

Ethernet Mask ID	Use VLAN	MAC Address Mask State	MAC Address Mask Source	MAC Address Mask Destination	Use 8021p	Use Ethernet Type	Row Status
1	enabled	src-mac-addr	FFFFFFFF	000000000000	enabled	enabled	active

## ACL Ethernet Rule Table

Object name	swACLEtherRuleTable
Object ID	1.3.6.1.4.1.171.12.9.3.1
Module	ACLMGMT-MIB
Base syntax	Sequence Of swACLEtherRuleEntry
Access	Not_Accessible
Status	Current
Sequence	1:swACLEtherRuleProfileID - Integer 2:swACLEtherRuleAccessID - Integer 3:swACLEtherRuleVlan - Octet String 4:swACLEtherRuleSrcMacAddress - Octet String 5:swACLEtherRuleDstMacAddress - Octet String 6:swACLEtherRule8021P - Integer 7:swACLEtherRuleEtherType - Octet String 8:swACLEtherRuleEnablePriority - Integer 9:swACLEtherRulePriority - Integer 10:swACLEtherRuleReplacePriority - Integer 11:swACLEtherRulePermit - Integer 12:swACLEtherRulePort - Octet String 13:swACLEtherRuleRxRate - Integer 14:swACLEtherRuleTimeRangeName - Octet String 15:swACLEtherRuleRowStatus - Integer
Parent node	swAclRuleMgmt
First child	swACLEtherRuleEntry
Description	This table contain ACL rule of ethernet information.

Object name	swACLEtherRuleEntry
Object ID	1.3.6.1.4.1.171.12.9.3.1.1
Module	ACLMGMT-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1.swACLEtherRuleProfileID 2.swACLEtherRuleAccessID
Parent node	swACLEtherRuleTable
First child	swACLEtherRuleProfileID
Description	A list of information about ACL rule of the layer 2 part of each packet.

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### Show ACL Ethernet Rule Profile ID

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.1

```
-----  
Object name      swACLEtherRuleProfileID  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.1  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Only  
Status         Current  
Value list     1 : 1..255  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description    The ID of ACL mask entry ,and is unique in the mask list.  
-----
```

### Show ACL Ethernet Rule Access ID

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.2

```
-----  
Object name      swACLEtherRuleAccessID  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.2  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Only  
Status         Current  
Value list     1 : 0..65535  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description    The ID of ACL rule entry relate to swACLEtherRuleProfileID.  
while row creation Set to 0 to indicate assign Access ID  
automatically for the ports in the swACLEtherRulePort to create  
Rule entries for swACLEtherRulePort accordingly.  
Set to 1-65535 indicates to create the exact access ID for the  
swACLEtherRulePort and the swACLEtherRulePort must set one port only  
otherwise the row creation will be fail.  
-----
```



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### Show ACL Ethernet Rule Vlan

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.3

```
-----  
Object name      swACLEtherRuleVlan  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.3  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax SnmpAdminString  
Access         Read-Create  
Status         Current  
Value list     1 : 1..32  
  
Parent node     swACLEtherRuleEntry  
First child     None  
Description     Specifies that the access will apply to only to this VLAN.  
-----
```

### Show ACL Ethernet Rule Src Mac Address

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.4

```
-----  
Object name      swACLEtherRuleSrcMacAddress  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.4  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax MacAddress  
Access         Read-Create  
Status         Current  
Value list     1 : 6..6  
  
Parent node     swACLEtherRuleEntry  
First child     None  
Description     Specifies that the access will apply to only packets with  
this source MAC address.  
-----
```

### Show ACL Ethernet Rule Dst Mac Address

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.5

```
-----  
Object name      swACLEtherRuleDstMacAddress  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.5  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax MacAddress  
Access         Read-Create  
Status         Current  
Value list     1 : 6..6  
  
Parent node     swACLEtherRuleEntry  
First child     None  
Description     Specifies that the access will apply to only packets with this  
destination MAC address.  
-----
```

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### Show ACL Ethernet Rule 802.1P

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.6

```
-----  
Object name      swACLEtherRule8021P  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.6  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list     1 : 0..7  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description     Specifies that the access will apply only to packets with  
                this 802.1p priority value.  
-----
```

### Show ACL Ethernet Rule Ether Type

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.7

```
-----  
Object name      swACLEtherRuleEtherType  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.7  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax OCTET STRING  
Access         Read-Create  
Status         Current  
Value list     1 : 2..2  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description     Specifies that the access will apply only to packets with this  
                hexadecimal 802.1Q Ethernet type value in the packet header.  
-----
```

### Show ACL Ethernet Rule Enable Priority

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.8

```
-----  
Object name      swACLEtherRuleEnablePriority  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.8  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list     1 : enabled(1)  
                2 : disabled(2)  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description     Specifies that the access will apply only to packets with priority  
                value.  
-----
```

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### Show ACL Ethernet Rule Priority

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.9

```
-----  
Object name      swACLEtherRulePriority  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.9  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list      1 : 0..7  
  
Parent node     swACLEtherRuleEntry  
First child     None  
Description     Specific the priority will change to the packets while the  
swACLEtherRuleReplacePriority is enabled .  
-----
```

### Show ACL Ethernet Rule Replace Priority

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.10

```
-----  
Object name      swACLEtherRuleReplacePriority  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.10  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list      1 : enabled(1)  
                2 : disabled(2)  
  
Parent node     swACLEtherRuleEntry  
First child     None  
Description     Specific the packets that match the access profile will changed the  
802.1p priority tag field by the switch or not .  
-----
```

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### Show ACL Ethernet Rule Replace Priority

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.13

```
-----  
Object name      swACLEtherRulePermit  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.13  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list     1 : deny(1)  
              2 : permit(2)  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description    This object indicates resoult of examination is permit or  
deny;default is permit(1)  
permit - Specifies that packets that match the access profile are  
permitted to be forwarded by the switch.  
deny - Specifies that packets that do not match the access profile  
are not permitted to be forwarded by the switch and will be filtered.  
-----
```

### Show ACL Ethernet Rule Replace Priority

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.14

```
-----  
Object name      swACLEtherRulePort  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.14  
Module          ACLMGMT-MIB  
  
Base syntax     Octet String  
Composed syntax PortList  
Access         Read-Create  
Status         Current  
Value list     1 : 0..127  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description    Specifies that the access will apply to only to port(s).  
-----
```

### Show ACL Ethernet Rule Replace Permit

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.15

```
-----  
Object name      swACLEtherRuleRxRate  
Object ID       1.3.6.1.4.1.171.12.9.3.1.1.15  
Module          ACLMGMT-MIB  
  
Base syntax     Integer  
Composed syntax INTEGER  
Access         Read-Create  
Status         Current  
Value list     1 : 0..156249  
  
Parent node     swACLEtherRuleEntry  
First child    None  
Description    Specifies that the access will apply rx-rate, 0 is no_limit.  
-----
```

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### Show ACL Ethernet Rule Time Range Name

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.16

-----  
Object name swACLEtherRuleTimeRangeName  
Object ID 1.3.6.1.4.1.171.12.9.3.1.1.16  
Module ACLMGMT-MIB

Base syntax Octet String  
Composed syntax SnmpAdminString  
Access Read-Write  
Status Current  
Value list 1 : 0..32

Parent node swACLEtherRuleEntry  
First child None  
Description  
-----

Mask ID	Access ID	Rule VLAN	Rule Source MAC Address	Rule Destination MAC Address	Rule 8021P	Rule Ethernet Type	Rule Enable Priority	Rule Priority
1	1	default	AABCCDDEFF	000000000000	0	0000	disabled	255

AC Address	Rule 8021P	Rule Ethernet Type	Rule Enable Priority	Rule Priority	Rule Replace Priority	Permit Rule	Rule Port	Rule RX Rate	Time Range Name	Row Status
0	0000	disabled	255	disabled	permit	80000..	0			active

## The Example of creating Ethernet ACL

### Create a Ethernet Profile

#### SNMP Command:

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.3.10 i 4  
1.3.6.1.4.1.171.12.9.2.1.1.4.10 x FFFFFFFF 1.3.6.1.4.1.171.12.9.2.1.1.5.10 x  
000000000000 1.3.6.1.4.1.171.12.9.2.1.1.7.10 i 1 1.3.6.1.4.1.171.12.9.2.1.1.8.10 i 4
```

#### Step 1. Set up the ACL Ethernet Mac Address Mask State

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.3.10 i 4  
10 → Profile ID
```

#### Step 2. Set up the Source Mask

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.4.10 x FFFFFFFF  
FFFFFFF → Source MAC Mask
```

#### Step 3. Set up the Destination Mask

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.5.10 x 000000000000  
000000000000 → Destination MAC Mask
```

#### Step 4. Enable Using Ethernet Type

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.7.10 i 1
```

#### Step 5. Create and go

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.2.1.1.8.10 i 4
```

### Create a Ethernet Profile

#### SNMP Command:

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.4.10.1 x AABBCDDEEFF  
1.3.6.1.4.1.171.12.9.3.1.1.5.10.1 x 000000000000 1.3.6.1.4.1.171.12.9.3.1.1.14.10.1 x  
8000000000000000 1.3.6.1.4.1.171.12.9.3.1.1.17.10.1 i 4
```

#### Step 1. set up Source MAC

```
snmpset -v2c -c private .168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.4.10.1 x AABBCDDEEFF  
AABBCDDEEFF → Source MAC
```

#### Step 2. set up Destination MAC

```
snmpset -v2c -c private .168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.5.10.1 x 000000000000  
000000000000 → not set up
```

#### Step 3. Enable Port 1

```
snmpset -v2c -c private .168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.14.10.1 x 8000000000000000  
8000000000000000 → 8 = 1000 → Port 1
```

#### Step 4. Active the Rule

```
snmpset -v2c -c private .168.0.1 1.3.6.1.4.1.171.12.9.3.1.1.17.10.1 i 4
```