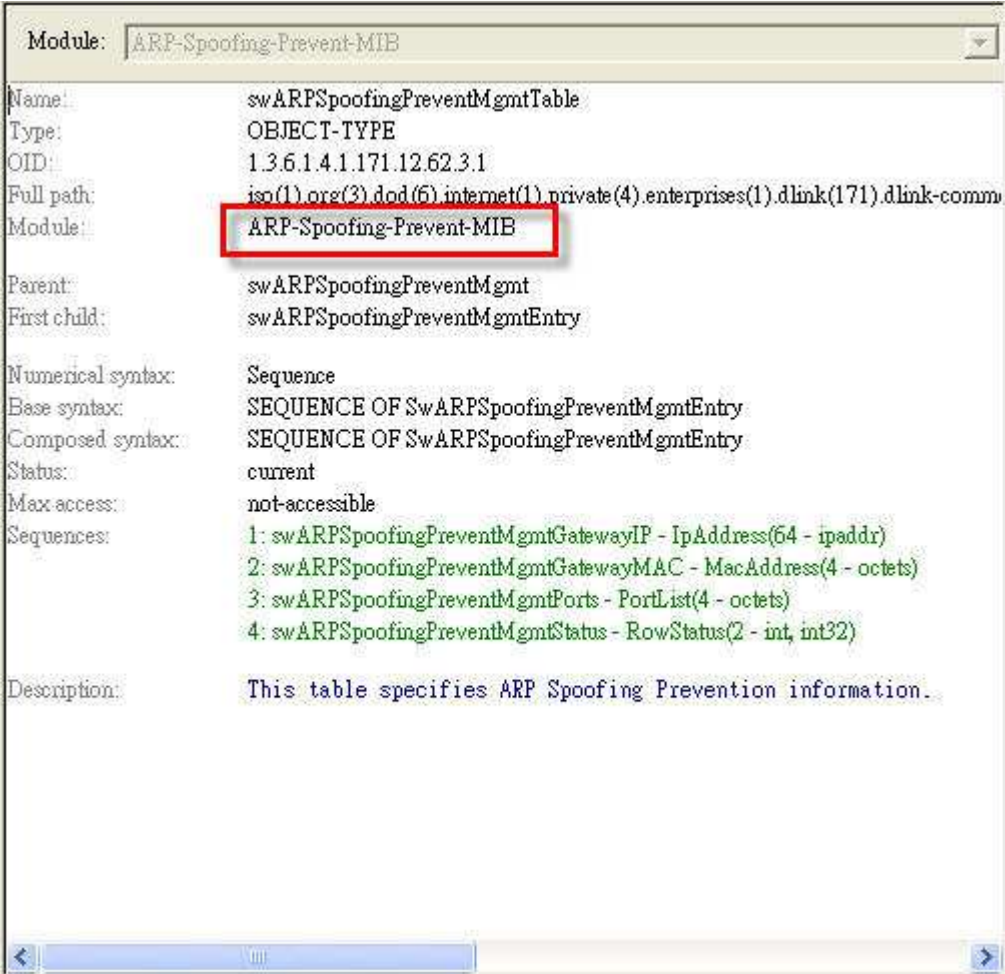


## How to use NETSNMP – Configure ARP\_Spoofing\_Prevention on DES-3526

The OIDs for configuring ARP\_Spoofing\_Prevention on DES-3526 are defined in “ARP-Spoofing-Prevent-MIB”.

Please refer to PMD => DES-3500 Series v5.01.B52\_MIB => Private => ARPSpoofingPrevention.mib



The screenshot displays a window titled "Module: ARP-Spoofing-Prevent-MIB". The window contains the following information:

- Name: swARPSpoofingPreventMgmtTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.171.12.62.3.1
- Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-comm
- Module: ARP-Spoofing-Prevent-MIB (highlighted with a red box)
- Parent: swARPSpoofingPreventMgmt
- First child: swARPSpoofingPreventMgmtEntry
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF SwARPSpoofingPreventMgmtEntry
- Composed syntax: SEQUENCE OF SwARPSpoofingPreventMgmtEntry
- Status: current
- Max access: not-accessible
- Sequences:
  - 1: swARPSpoofingPreventMgmtGatewayIP - IPAddress(64 - ipaddr)
  - 2: swARPSpoofingPreventMgmtGatewayMAC - MacAddress(4 - octets)
  - 3: swARPSpoofingPreventMgmtPorts - PortList(4 - octets)
  - 4: swARPSpoofingPreventMgmtStatus - RowStatus(2 - int, int32)
- Description: This table specifies ARP Spoofing Prevention information.

Module: ARP-Spoofing-Prevent-MIB

Name: swARPSpoofingPreventMgmtEntry  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.62.3.1.1  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-comm  
Module: ARP-Spoofing-Prevent-MIB

Parent: swARPSpoofingPreventMgmtTable  
First child: swARPSpoofingPreventMgmtGatewayIP

Numerical syntax: Null  
Base syntax: SwARPSpoofingPreventMgmtEntry  
Composed syntax: SwARPSpoofingPreventMgmtEntry  
Status: current  
Max access: not-accessible  
Sequences:  
1: swARPSpoofingPreventMgmtGatewayIP - IPAddress(64 - ipaddr)  
2: swARPSpoofingPreventMgmtGatewayMAC - MacAddress(4 - octets)  
3: swARPSpoofingPreventMgmtPorts - PortList(4 - octets)  
4: swARPSpoofingPreventMgmtStatus - RowStatus(2 - int, int32)

Indexes:  
1: swARPSpoofingPreventMgmtGatewayIP  
2: swARPSpoofingPreventMgmtGatewayMAC

Description: A list of information with each ARP Spoofing Prevention entry.

Module: ARP-Spoofing-Prevent-MIB

Name: swARPSpoofingPreventMgmtGatewayIP  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.62.3.1.1.1  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-comm  
Module: ARP-Spoofing-Prevent-MIB

Parent: swARPSpoofingPreventMgmtEntry  
Next sibling: swARPSpoofingPreventMgmtGatewayMAC

Numerical syntax: IP Address  
Base syntax: IPAddress  
Composed syntax: IPAddress  
Status: current  
Max access: read-only

Description: The gateway IP address of ARP Spoofing Prevention.

Module: ARP-Spoofing-Prevent-MIB

Name: swARPSpoofingPreventMgmtGatewayMAC  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.62.3.1.1.2  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-comm  
Module: ARP-Spoofing-Prevent-MIB

Parent: swARPSpoofingPreventMgmtEntry  
Prev sibling: swARPSpoofingPreventMgmtGatewayIP  
Next sibling: swARPSpoofingPreventMgmtPorts

Numerical syntax: Octets  
Base syntax: OCTET STRING  
Composed syntax: MacAddress  
Status: current  
Max access: read-only

Description: The gateway MAC address of ARP Spoofing Prevention.

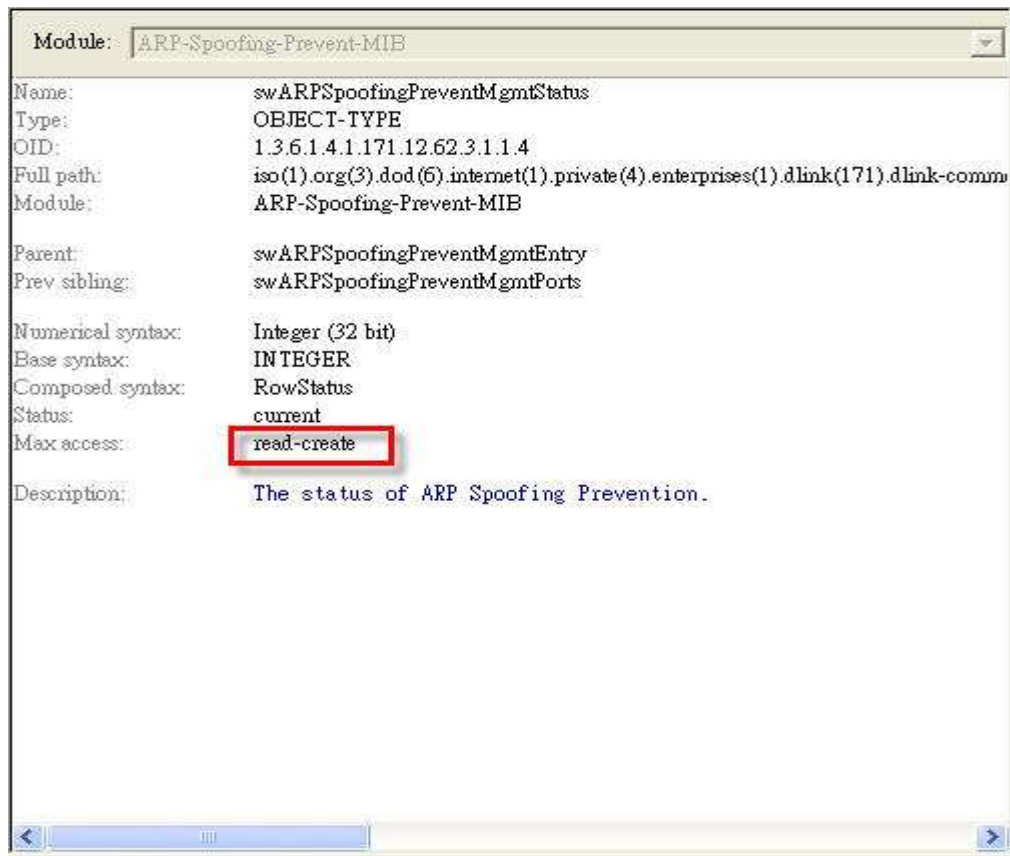
Module: ARP-Spoofing-Prevent-MIB

Name: swARPSpoofingPreventMgmtPorts  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.12.62.3.1.1.3  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-comm  
Module: ARP-Spoofing-Prevent-MIB

Parent: swARPSpoofingPreventMgmtEntry  
Prev sibling: swARPSpoofingPreventMgmtGatewayMAC  
Next sibling: swARPSpoofingPreventMgmtStatus

Numerical syntax: Octets  
Base syntax: OCTET STRING  
Composed syntax: PortList  
Status: current  
Max access: read-create

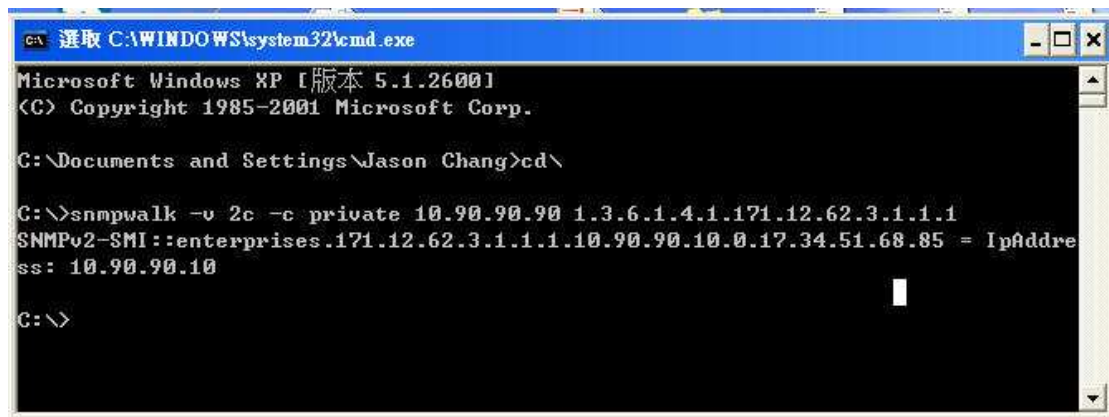
Description: The port members of ARP Spoofing Prevention.



Setup via CLI in advance since GatewayIP 10.90.90.10 & GatewayMAC 00-11-22-33-44-55 are “read-only”

```
DES-3526 Fast Ethernet Switch Command Line Interface
Firmware: Build 6.00.B31
Copyright(C) 2008 D-Link Corporation. All rights reserved.
username:
password:
DES-3526:admin#config arp_spoofing_prevention add gateway_ip 10.90.90.10 gateway_mac 001122334455 ports 1-8
Command: config arp_spoofing_prevention add gateway_ip 10.90.90.10 gateway_mac 00-11-22-33-44-55 ports 1-8
Success.
DES-3526:admin#show arp_spoofing_prevention
Command: show arp_spoofing_prevention
Gateway IP      Gateway MAC      Ports
-----
10.90.90.10    00-11-22-33-44-55  1-8
Total entries : 1
DES-3526:admin#
```

### swARPSpoofingPreventMgmtGatewayIP



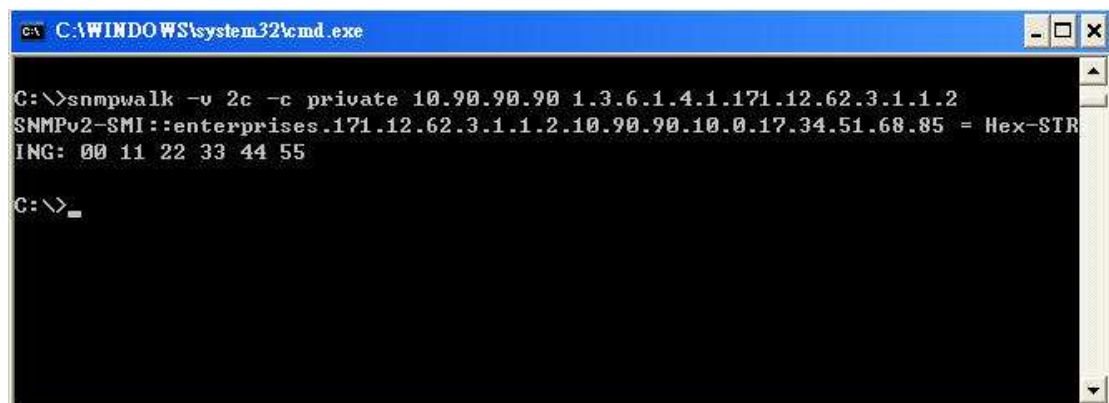
```
c:\> 選擇 C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1.1
SNMPv2-SMI::enterprises.171.12.62.3.1.1.10.90.90.10.0.17.34.51.68.85 = IpAddress: 10.90.90.10

C:\>
```

### swARPSpoofingPreventMgmtGatewayMAC

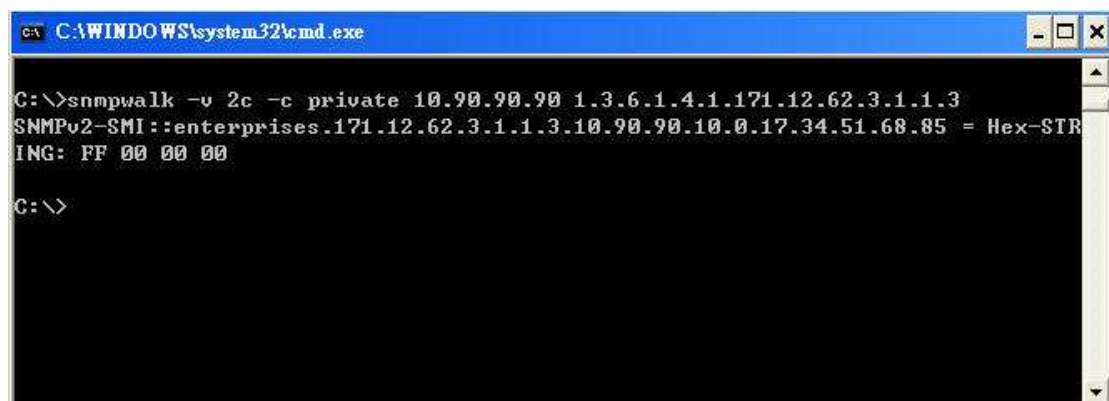


```
c:\> C:\WINDOWS\system32\cmd.exe

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1.2
SNMPv2-SMI::enterprises.171.12.62.3.1.1.2.10.90.90.10.0.17.34.51.68.85 = Hex-STRING: 00 11 22 33 44 55

C:\>
```

### swARPSpoofingPreventMgmtPorts



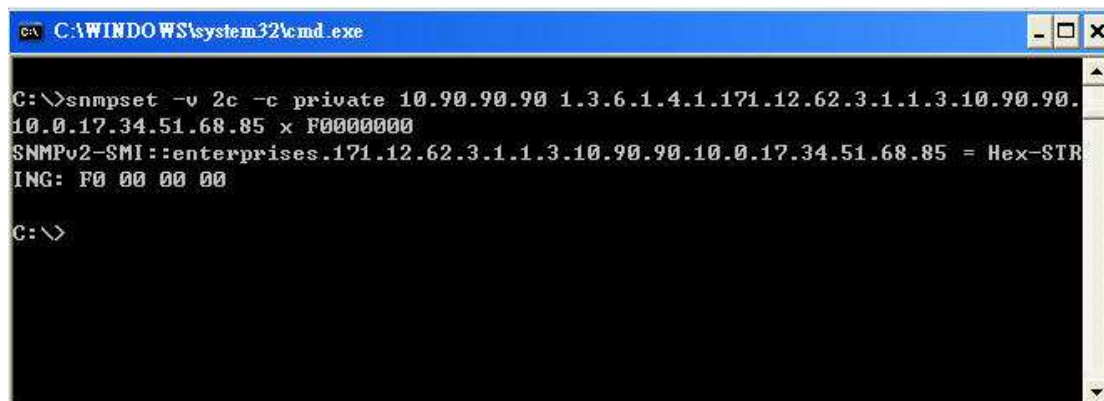
```
c:\> C:\WINDOWS\system32\cmd.exe

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1.3
SNMPv2-SMI::enterprises.171.12.62.3.1.1.3.10.90.90.10.0.17.34.51.68.85 = Hex-STRING: FF 00 00 00

C:\>
```



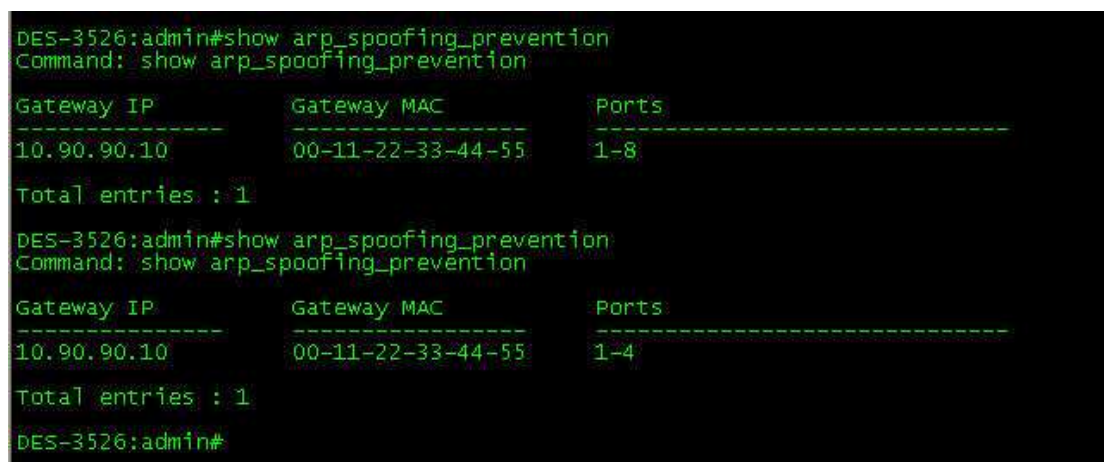
Change port range from port 1-8 to port 1-4



```
C:\WINDOWS\system32\cmd.exe

C:\>snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1.3.10.90.90.10.0.17.34.51.68.85 x F0000000
SNMPv2-SMI::enterprises.171.12.62.3.1.1.3.10.90.90.10.0.17.34.51.68.85 = Hex-STRING: F0 00 00 00

C:\>
```



```
DES-3526:admin#show arp_spoofing_prevention
Command: show arp_spoofing_prevention

Gateway IP          Gateway MAC          Ports
-----
10.90.90.10         00-11-22-33-44-55   1-8

Total entries : 1

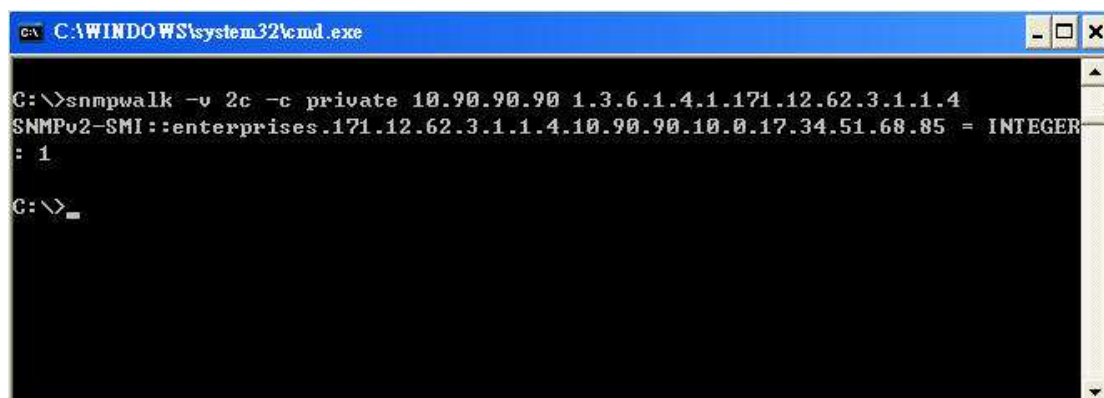
DES-3526:admin#show arp_spoofing_prevention
Command: show arp_spoofing_prevention

Gateway IP          Gateway MAC          Ports
-----
10.90.90.10         00-11-22-33-44-55   1-4

Total entries : 1

DES-3526:admin#
```

swARPSpoofingPreventMgmtStatus



```
C:\WINDOWS\system32\cmd.exe

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1.4
SNMPv2-SMI::enterprises.171.12.62.3.1.1.4.10.90.90.10.0.17.34.51.68.85 = INTEGER: 1

C:\>
```