

How to configure ARP-Spoofing Prevention via SNMP on DES-3528/52?

MIB:

ARPSpoofingPrevention.mib

OID:

1.3.6.1.4.1.171.12.62.3.1.1.1

<ul style="list-style-type: none"> oofingPreventMIB oSpoofingPreventCtrl oSpoofingPreventInfo oSpoofingPreventMgmt oARPSpoofingPreventMgmtTable o swARPSpoofingPreventMgmtEntry <ul style="list-style-type: none"> o swARPSpoofingPreventMgmtGatewayIP o swARPSpoofingPreventMgmtGatewayMAC o swARPSpoofingPreventMgmtPorts o swARPSpoofingPreventMgmtStatus 	Object name	swARPSpoofingPreventMgmtGatewayIP
	Object ID	1.3.6.1.4.1.171.12.62.3.1.1.1
	Module	ARP-Spoofing-Prevent-MIB
	Base syntax	IP Address
	Composed syntax	IpAddress
	Access	Read-Only
	Status	Current
	Parent node	swARPSpoofingPreventMgmtEntry
	First child	None
	Description	The gateway IP address of ARP Spoofing Prevention.

1.3.6.1.4.1.171.12.62.3.1.1.2

<ul style="list-style-type: none"> oSpoofingPreventMIB oARPSpoofingPreventCtrl oARPSpoofingPreventInfo oARPSpoofingPreventMgmt o swARPSpoofingPreventMgmtTable <ul style="list-style-type: none"> o swARPSpoofingPreventMgmtEntry <ul style="list-style-type: none"> o swARPSpoofingPreventMgmtGatewayIP o swARPSpoofingPreventMgmtGatewayMAC o swARPSpoofingPreventMgmtPorts o swARPSpoofingPreventMgmtStatus 	Object name	swARPSpoofingPreventMgmtGatewayMAC
	Object ID	1.3.6.1.4.1.171.12.62.3.1.1.2
	Module	ARP-Spoofing-Prevent-MIB
	Base syntax	Octet String
	Composed syntax	MacAddress
	Access	Read-Only
	Status	Current
	Value list	1 : 6..6
	Parent node	swARPSpoofingPreventMgmtEntry
	First child	None
Description	The gateway MAC address of ARP Spoofing Prevention.	

1.3.6.1.4.1.171.12.62.3.1.1.3

<ul style="list-style-type: none"> oSpoofingPreventMIB oARPSpoofingPreventCtrl oARPSpoofingPreventInfo oARPSpoofingPreventMgmt o swARPSpoofingPreventMgmtTable <ul style="list-style-type: none"> o swARPSpoofingPreventMgmtEntry <ul style="list-style-type: none"> o swARPSpoofingPreventMgmtGatewayIP o swARPSpoofingPreventMgmtGatewayMAC o swARPSpoofingPreventMgmtPorts o swARPSpoofingPreventMgmtStatus 	Object name	swARPSpoofingPreventMgmtPorts
	Object ID	1.3.6.1.4.1.171.12.62.3.1.1.3
	Module	ARP-Spoofing-Prevent-MIB
	Base syntax	Octet String
	Composed syntax	PortList
	Access	Read-Create
	Status	Current
	Value list	1 : 0..127
	Parent node	swARPSpoofingPreventMgmtEntry
	First child	None
Description	The port members of ARP Spoofing Prevention.	

1.3.6.1.4.1.171.12.62.3.1.1.4

```

ofingPreventMIB
SpoofingPreventCtrl
SpoofingPreventInfo
SpoofingPreventMgmt
\ARPSpoofingPreventMgmtTable
  swARPSpoofingPreventMgmtEntry
    swARPSpoofingPreventMgmtGatewayIP
    swARPSpoofingPreventMgmtGatewayMAC
    swARPSpoofingPreventMgmtPorts
    swARPSpoofingPreventMgmtStatus
  
```

```

Object name      swARPSpoofingPreventMgmtStatus
Object ID       1.3.6.1.4.1.171.12.62.3.1.1.4
Module          ARP-Spoofing-Prevent-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     swARPSpoofingPreventMgmtEntry
First child     None
Description     The status of ARP Spoofing Prevention.
  
```

Example:

show arp_spoofing_prevention

```
snmpwalk -v 2c -c public 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1
```

config arp_spoofing_prevention add gateway_ip 192.168.1.254 gateway_mac 0A-0B-0C-00-11-00 ports 3-6,25-26

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.62.3.1.1.3.192.168.1.254.10.11.12.0.17.0 x
3c0000c000000000 1.3.6.1.4.1.171.12.62.3.1.1.4.192.168.1.254.10.11.12.0.17.0 i 4
```

Explanation:

192.168.1.254.10.11.12.0.17.0 is composed of **IP address + MAC address**, where MAC address is decimal. In this example, MAC address is **0A:0B:0C:00:11:00**, so it's decimal form is **10.11.12.0.17.0**

3c0000c000000000 denotes the ports that are to be enabled.

Port Index	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Enable?	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	3		C				0			0						

Port Index	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Enable?	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	0				0			C				0				

The Port Index goes on, but no matter how many ports really exist, we need to pad with "0"s to make the Hex string 8 bytes long.