

# How to use SNMP to configure IPIF on DES-3200/A1

Example made on DES-3200-18

## [CLI commands]

```
config ipif System ipaddress 10.90.90.92/16
```

## [SNMP commands]

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.1131.1.2.2.1.2.2.0 a 10.90.90.92
```

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.1131.1.2.2.1.2.3.0 a 255.255.0.0
```

## \*Explanation:

a 10.90.90.92 = set ipaddress of ipif System

a 255.255.0.0 = set subnet mask of ipif System

## [OID for each model]

Model name	swL2DevCtrl OID
DES-3200-10	1.3.6.1.4.1.171.11.113.1.1.2.1.2
DES-3200-18	1.3.6.1.4.1.171.11.113.1.2.2.1.2
DES-3200-26	1.3.6.1.4.1.171.11.113.1.5.2.1.2
DES-3200-28	1.3.6.1.4.1.171.11.113.1.3.2.1.2
DES-3200-28F	1.3.6.1.4.1.171.11.113.1.4.2.1.2

## [OID Description]

Object name	swL2DevCtrlSystemReboot
Object ID	1.3.6.1.4.1.171.11.113.1.2.2.1.2.1
Module	DES3200-18-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : reboot(2) 3 : save-config-and-reboot(3) 4 : reboot-and-load-factory-default-config(4)
Parent node	swL2DevCtrl
First child	None
Description	This object indicates the agent system reboot state. The agent always returns other(1) when this object is read.

Object name	swL2DevCtrlSystemIP
Object ID	1.3.6.1.4.1.171.11.113.1.2.2.1.2.2
Module	DES3200-18-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Write
Status	Current
Parent node	swL2DevCtrl
First child	None
Description	This object indicates system IP.

Object name	swL2DevCtrlSubnetMask
Object ID	1.3.6.1.4.1.171.11.113.1.2.2.1.2.3
Module	DES3200-18-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Write
Status	Current
Parent node	swL2DevCtrl
First child	None
Description	This object indicates system subnet mask.

```
Object name      swL2DevCtrlDefaultGateway
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.4
Module         DES3200-18-L2MGMT-MIB

Base syntax     IP Address
Composed syntax IPAddress
Access         Read-Write
Status         Current

Parent node     swL2DevCtrl
First child     None
Description     This object indicates system default gateway.
```

```
Object name      swL2DevCtrlManagementVlanId
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.5
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax VlanId
Access         Read-Write
Status         Current
Value list     1 : 1..4094

Parent node     swL2DevCtrl
First child     None
Description     This object controls the VLAN, including system IP. The VLAN
                should have been created.
```

```
Object name      swL2DevCtrlIGMPSnooping
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.7
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : other(1)
                2 : disabled(2)
                3 : enabled(3)

Parent node     swL2DevCtrl
First child     None
Description     This object indicates layer 2 Internet Group Management Protocol
                (IGMP) capture function is enabled or disabled .
```

Object name swL2DevCtrlCleanAllStatisticCounter  
Object ID 1.3.6.1.4.1.171.11.113.1.2.2.1.2.12  
Module DES3200-18-L2MGMT-MIB

Base syntax Integer  
Composed syntax INTEGER  
Access Read-Write  
Status Current  
Value list  
1 : normal(1)  
2 : active(2)

Parent node swL2DevCtrl  
First child None  
Description As the object is set to active, all the statistic counters will be cleared.  
If set to normal, do nothing.

Object name swL2DevCtrlSnmpEnableAuthenTraps  
Object ID 1.3.6.1.4.1.171.11.113.1.2.2.1.2.13  
Module DES3200-18-L2MGMT-MIB

Base syntax Integer  
Composed syntax INTEGER  
Access Read-Write  
Status Current  
Value list  
1 : enabled(1)  
2 : disabled(2)

Parent node swL2DevCtrl  
First child None  
Description Indicates whether the SNMP entity is permitted to generate authenticationFailure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authenticationFailure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant across re-initializations of the network management system.

Object name swL2DevCtrlRmonState  
Object ID 1.3.6.1.4.1.171.11.113.1.2.2.1.2.16  
Module DES3200-18-L2MGMT-MIB

Base syntax Integer  
Composed syntax INTEGER  
Access Read-Write  
Status Current  
Value list  
1 : other(1)  
2 : disabled(2)  
3 : enabled(3)

Parent node swL2DevCtrl  
First child None  
Description This object can be enabled or disabled RMON.

```
Object name      swL2DevCtrlIpAutoConfig
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.17
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : other(1)
              2 : disabled(2)
              3 : enabled(3)

Parent node     swL2DevCtrl
First child     None
Description     Indicates the status of automatically getting configuration from TFTP server
```

```
Object name      swL2MACNotifyState
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.19
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : other(1)
              2 : disabled(2)
              3 : enabled(3)

Parent node     swL2DevCtrl
First child     None
Description     This object can enabled or disabled MAC Notification.
```

```
Object name      swL2MACNotifyHistorySize
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.20
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : 1..500

Parent node     swL2DevCtrl
First child     None
Description     This object indicates the history size of variation MAC in address table.
                The default value is 1 .
```

Object name	swL2MACNotifyInterval
Object ID	1.3.6.1.4.1.171.11.113.1.2.2.1.2.21
Module	DES3200-18-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..2147483647
Parent node	swL2DevCtrl
First child	None
Description	This object indicates the time interval in second for trigger the MAC notify message.

Object name	swL2DevCtrlLLDPState
Object ID	1.3.6.1.4.1.171.11.113.1.2.2.1.2.22
Module	DES3200-18-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swL2DevCtrl
First child	None
Description	Specifies the state of the LLDP function. When this function is enabled, the switch can start to transmit LLDP packets and receive and process the LLDP packets. The specific function of each port will depend on the per port LLDP setting. For the advertisement of LLDP packets, the switch announces the information to its neighbor through ports. For the receiving of LLDP packets, the switch will learn the information from the LLDP packets advertised from the neighbor in the neighbor table.

Object name	swL2DevCtrlLLDPForwardMessageState
Object ID	1.3.6.1.4.1.171.11.113.1.2.2.1.2.23
Module	DES3200-18-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swL2DevCtrl
First child	None
Description	When lldp is disabled and lldp forward_message is enabled, the received LLDP Data Units packet will be forwarded.

```
Object name      swL2DevCtrlAsymVlanState
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.24
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : other(1)
              2 : disabled(2)
              3 : enabled(3)

Parent node     swL2DevCtrl
First child     None
Description     This object enables or disables the asymmetric VLAN feature of the device.
```

```
Object name      swL2IGMPSnoopingMulticastVlanState
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.25
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : enabled(1)
              2 : disabled(2)

Parent node     swL2DevCtrl
First child     None
Description     This indicates the global state of the igmp_snoop multicast_vlan.
```

```
Object name      swL2DevCtrlVLANTrunkState
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.26
Module         DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list     1 : enabled(1)
              2 : disabled(2)

Parent node     swL2DevCtrl
First child     None
Description     This indicates the global state of the VLAN trunking feature of the device.
```

```
Object name      swL2DevArpAgingTime
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.27
Module          DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access          Read-Write
Status          Current
Value list      1 : 0..65535

Parent node     swL2DevCtrl
First child     None
Description     The timeout period in minutes for aging out dynamically learned
                ARP information.
```

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```
Object name      swL2DevPasswordEncryptionState
Object ID       1.3.6.1.4.1.171.11.113.1.2.2.1.2.28
Module          DES3200-18-L2MGMT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access          Read-Write
Status          Current
Value list      1 : enabled(1)
                2 : disabled(2)

Parent node     swL2DevCtrl
First child     None
Description     If the password encryption is enabled, the password will be in
                encrypted form.
```