

# How to use SNMP to configure IPIF on DES-3200/C1

Example made on DES-3200-28

## [CLI commands]

```
config ipif System ipaddress 10.90.90.92/16 vlan VLAN2
```

## [SNMP commands]

```
snmpset -v2c -c private 10.90.90.90
```

```
1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.3.6.83.121.115.116.101.109 a 10.90.90.92
```

```
1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.4.6.83.121.115.116.101.109 a 255.255.0.0
```

```
1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.5.6.83.121.115.116.101.109 x 564c414e32
```

```
1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.16.6.83.121.115.116.101.109 i 1
```

## \*Explanation:

6 = there are 6 chars of the ipif name "System"

83.121.115.116.101.109 = ASCII code of ipif name "System" (Decimal)

a 10.90.90.92 = set ipaddress of ipif System

a 255.255.0.0 = set subnet mask of ipif System

x 564c414e32 = ASCII code of vlan name "VLAN2" (Hexadecimal)

i 1 = action start

## [OID for each model]

Model name	swL3IpCtrlTable OID
DES-3200-10	1.3.6.1.4.1.171.11.113.2.1.3.2.1.3
DES-3200-10DC	1.3.6.1.4.1.171.11.113.11.1.3.2.1.3
DES-3200-18	1.3.6.1.4.1.171.11.113.3.1.3.2.1.3
DES-3200-26	1.3.6.1.4.1.171.11.113.4.1.3.2.1.3
DES-3200-26DC	1.3.6.1.4.1.171.11.113.12.1.3.2.1.3
DES-3200-28	1.3.6.1.4.1.171.11.113.5.1.3.2.1.3
DES-3200-28F	1.3.6.1.4.1.171.11.113.6.1.3.2.1.3
DES-3200-28ME	1.3.6.1.4.1.171.11.113.7.1.3.2.1.3
DES-3200-28P	1.3.6.1.4.1.171.11.113.8.1.3.2.1.3
DES-3200-52	1.3.6.1.4.1.171.11.113.9.1.3.2.1.3
DES-3200-52P	1.3.6.1.4.1.171.11.113.10.1.3.2.1.3

## [OID Description]

Name: swL3IpCtrlInterfaceName  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.1  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(171).swL3IpCtrlTable(171)  
Module: DES3200-28-L3MGMT-MIB  
Parent: swL3IpCtrlEntry  
Next sibling: swL3IpCtrlIfIndex  
Numerical syntax: Octets  
Base syntax: OCTET STRING  
Composed syntax: DisplayString  
Status: current  
Max access: read-only  
Size list: 1: 1..12  
Description: This object indicates the name of the IP interface.

Name: swL3IpCtrlIfIndex  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.2  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(171).swL3IpCtrlTable(171)  
Module: DES3200-28-L3MGMT-MIB  
Parent: swL3IpCtrlEntry  
Prev sibling: swL3IpCtrlInterfaceName  
Next sibling: swL3IpCtrlIpAddr  
Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: INTEGER  
Status: current  
Max access: read-only  
Size list: 1: 0..65535  
Description: This object uniquely identifies the IP interface number in the swL3IpCtrlTable.

Name: swL3IpCtrlIpAddr  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.3  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(171).swL3IpCtrlTable(171)  
Module: DES3200-28-L3MGMT-MIB  
Parent: swL3IpCtrlEntry  
Prev sibling: swL3IpCtrlIfIndex  
Next sibling: swL3IpCtrlIpSubnetMask  
Numerical syntax: IP Address  
Base syntax: IpAddress  
Composed syntax: IpAddress  
Status: current  
Max access: read-write  
Description: The IP address of the interface. This object only can take the value of the unicast IP address.

Name: swL3IpCtrlIpSubnetMask  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.4  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(171).swL3IpCtrlTable(171)  
Module: DES3200-28-L3MGMT-MIB  
Parent: swL3IpCtrlEntry  
Prev sibling: swL3IpCtrlIpAddr  
Next sibling: swL3IpCtrlVlanName  
Numerical syntax: IP Address  
Base syntax: IpAddress  
Composed syntax: IpAddress  
Status: current  
Max access: read-write  
Description: The IP net mask for this interface.

```

Name:          swL3IpCtrlVlanName
Type:          OBJECT-TYPE
OID:          1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.5
Full path:    iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11)
Module:       DES3200-28-L3MGMT-MIB

Parent:       swL3IpCtrlEntry
Prev sibling:  swL3IpCtrlIpSubnetMask
Next sibling:  swL3IpCtrlProxyArp

Numerical syntax:  Octets
Base syntax:       OCTET STRING
Composed syntax:   DisplayString
Status:            current
Max access:        read-write
Size list:         1: 0..32

Description:       This object indicates the IP control entry's VLAN name. The
                   VLAN name in each entry must be unique in the IP Control Table.

```

```

Name:          swL3IpCtrlMode
Type:          OBJECT-TYPE
OID:          1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.8
Full path:    iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200
Module:       DES3200-28-L3MGMT-MIB

Parent:       swL3IpCtrlEntry
Prev sibling:  swL3IpCtrlSecondary
Next sibling:  swL3IpCtrlAdminState

Numerical syntax:  Integer (32 bit)
Base syntax:       INTEGER
Composed syntax:   INTEGER
Status:            current
Max access:        read-write
Value list:        1: other(1)
                   2: bootp(3)
                   3: dhcp(4)

Description:       This object indicates the IP operation mode.

                   other(1) - This entry is currently in use but the conditions under
                               which it will remain are determined by each of the following values.
                   bootp(3) - The IP address will be set automatically from a BOOTP
                               server.
                   dhcp(4) - The IP address will be set automatically from a DHCP
                               server.

```

```

Name:          swL3IpCtrlAdminState
Type:          OBJECT-TYPE
OID:          1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.9
Full path:    iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171)
Module:       DES3200-28-L3MGMT-MIB

Parent:       swL3IpCtrlEntry
Prev sibling:  swL3IpCtrlMode
Next sibling:  swL3IpCtrlIpv4AdminState

Numerical syntax:  Integer (32 bit)
Base syntax:       INTEGER
Composed syntax:   INTEGER
Status:            current
Max access:        read-write
Value list:        1: enabled(1)
                   2: disabled(2)

Description:       The state of the IP interface.

```

Name: swL3IpCtrlIpv4AdminState  
 Type: OBJECT-TYPE  
 OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.10  
 Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200SeriesProd(113).DES3200-28-L3MGMT-MIB  
 Module: DES3200-28-L3MGMT-MIB  
 Parent: swL3IpCtrlEntry  
 Prev sibling: swL3IpCtrlAdminState  
 Next sibling: swL3IpCtrlIpv6AdminState  
 Numerical syntax: Integer (32 bit)  
 Base syntax: INTEGER  
 Composed syntax: INTEGER  
 Status: current  
 Max access: read-write  
 Value list: 1: enabled(1)  
 2: disabled(2)  
 Description: The IPv4 admin state of the IP interface. The default state is determined by project. This state will only be effective when the swL3IpCtrlAdminState is enabled.

Name: swL3IpCtrlIpv6AdminState  
 Type: OBJECT-TYPE  
 OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.12  
 Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200SeriesProd(113).DES3200-28-L3MGMT-MIB  
 Module: DES3200-28-L3MGMT-MIB  
 Parent: swL3IpCtrlEntry  
 Prev sibling: swL3IpCtrlIpv4AdminState  
 Next sibling: swL3IpCtrlIpv6LinkLocalAddress  
 Numerical syntax: Integer (32 bit)  
 Base syntax: INTEGER  
 Composed syntax: INTEGER  
 Status: current  
 Max access: read-write  
 Value list: 1: enabled(1)  
 2: disabled(2)  
 Description: The IPv6 admin state of the IP interface. The default state is determined by project. This state will only be effective when the swL3IpCtrlAdminState is enabled.

Name: swL3IpCtrlIpv6LinkLocalAddress  
 Type: OBJECT-TYPE  
 OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.14  
 Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200SeriesProd(113).DES3200-28-L3MGMT-MIB  
 Module: DES3200-28-L3MGMT-MIB  
 Parent: swL3IpCtrlEntry  
 Prev sibling: swL3IpCtrlIpv6AdminState  
 Next sibling: swL3IpCtrlIpv6LinkLocalPrefixLen  
 Numerical syntax: Octets  
 Base syntax: OCTET STRING  
 Composed syntax: Ipv6Address  
 Status: current  
 Max access: read-only  
 Description: The IPv6 link local address for this interface.

Name: swL3IpCtrlIpv6LinkLocalPrefixLen  
 Type: OBJECT-TYPE  
 OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.15  
 Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200SeriesProd(113).DES3200-28-L3MGMT-MIB  
 Module: DES3200-28-L3MGMT-MIB  
 Parent: swL3IpCtrlEntry  
 Prev sibling: swL3IpCtrlIpv6LinkLocalAddress  
 Next sibling: swL3IpCtrlState  
 Numerical syntax: Integer (32 bit)  
 Base syntax: INTEGER  
 Composed syntax: INTEGER  
 Status: current  
 Max access: read-only  
 Description: The IPv6 prefix length for this IPv6 link local address.

Name: swL3IpCtrlState  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.16  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200-28-L3MGMT-MIB  
Module: DES3200-28-L3MGMT-MIB  
Parent: swL3IpCtrlEntry  
Prev sibling: swL3IpCtrlIpv6LinkLocalPrefixLen  
Next sibling: swL3IpCtrlIpv6LinkLocalAutoState  
Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: RowStatus  
Status: current  
Max access: read-create  
Description: This variable displays the status of the entry. The status is used for creating, modifying, and deleting instances of the objects in this table.

Name: swL3IpCtrlIpv6LinkLocalAutoState  
Type: OBJECT-TYPE  
OID: 1.3.6.1.4.1.171.11.113.5.1.3.2.1.3.1.17  
Full path: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).des3200-28-L3MGMT-MIB  
Module: DES3200-28-L3MGMT-MIB  
Parent: swL3IpCtrlEntry  
Prev sibling: swL3IpCtrlState  
Next sibling: swL3IpCtrlLocalProxyArp  
Numerical syntax: Integer (32 bit)  
Base syntax: INTEGER  
Composed syntax: INTEGER  
Status: current  
Max access: read-write  
Value list: 1: other(1)  
2: enabled(2)  
3: disabled(3)  
Description: The state of the IPv6 link local auto.