

# How to configure DHCP\_Local\_Relay via NETSNMP in DES-3028 series?

The OIDs are defined in “L2MGMT-MIB” (L2mgmt.mib).

## # swL2DhcpLocalRelayMgmt

Object name	swL2DhcpLocalRelayMgmt
Object ID	1.3.6.1.4.1.171.11.63.6.2.24
Module	DES3028-L2MGMT-MIB
Base syntax	Object Identifier
Access	Not_Accessible
Status	Mandatory
Parent node	swL2MgmtMIB
First child	swL2DhcpLocalRelayState

## # swL2DhcpLocalRelayState

Object name	swL2DhcpLocalRelayState
Object ID	1.3.6.1.4.1.171.11.63.6.2.24.1
Module	DES3028-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	swL2DhcpLocalRelayMgmt
First child	None
Description	This object indicates the status of the DHCP local relay function of the switch.

## # swL2DhcpLocalRelayVLANTable

Object name	swL2DhcpLocalRelayVLANTable
Object ID	1.3.6.1.4.1.171.11.63.6.2.24.2
Module	DES3028-L2MGMT-MIB
Base syntax	Sequence Of swL2DhcpLocalRelayVLANEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2DhcpLocalRelayVLANID - Integer 2:swL2DhcpLocalRelayVLANState - Integer
Parent node	swL2DhcpLocalRelayMgmt
First child	swL2DhcpLocalRelayVLANEntry
Description	This table is used to manage the DHCP local relay status for each VLAN.

## # swL2DhcpLocalRelayVLANEntry

Object name	swL2DhcpLocalRelayVLANEntry
Object ID	1.3.6.1.4.1.171.11.63.6.2.24.2.1
Module	DES3028-L2MGMT-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1.swL2DhcpLocalRelayVLANID
Parent node	swL2DhcpLocalRelayVLANTable
First child	swL2DhcpLocalRelayVLANID
Description	This object lists the current VLANs in the switch and their corresponding DHCP local relay status.

## # swL2DhcpLocalRelayVLANID

Object name	swL2DhcpLocalRelayVLANID
Object ID	1.3.6.1.4.1.171.11.63.6.2.24.2.1.1
Module	DES3028-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..4094
Parent node	swL2DhcpLocalRelayVLANEntry
First child	None
Description	This object shows the VIDs of the current VLANs in the switch.

## # swL2DhcpLocalRelayVLANState

Object name	swL2DhcpLocalRelayVLANState
Object ID	1.3.6.1.4.1.171.11.63.6.2.24.2.1.2
Module	DES3028-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	swL2DhcpLocalRelayVLANEntry
First child	None
Description	This object indicates the status of the DHCP relay function of the VLAN.

## [Setup Example]

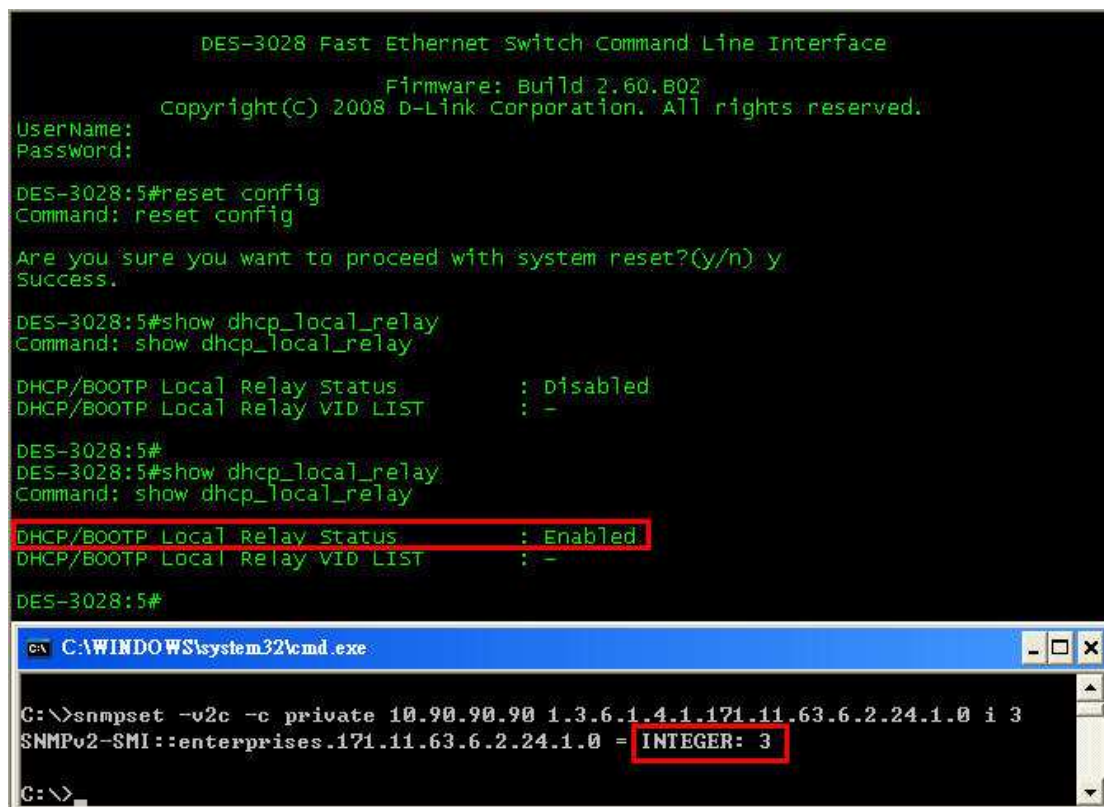
### # Enable DHCP\_Local\_Relay global state.

#### CLI command :

enable dhcp\_local\_relay

#### NETSNMP :

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.24.1.0 i 3



```
DES-3028 Fast Ethernet Switch Command Line Interface
                          Firmware: Build 2.60.B02
                          Copyright(C) 2008 D-Link Corporation. All rights reserved.
UserName:
Password:
DES-3028:5#reset config
Command: reset config

Are you sure you want to proceed with system reset?(y/n) y
Success.

DES-3028:5#show dhcp_local_relay
Command: show dhcp_local_relay

DHCP/BOOTP Local Relay Status      : Disabled
DHCP/BOOTP Local Relay VID LIST    : -

DES-3028:5#
DES-3028:5#show dhcp_local_relay
Command: show dhcp_local_relay

DHCP/BOOTP Local Relay Status      : Enabled
DHCP/BOOTP Local Relay VID LIST    : -

DES-3028:5#
```

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

C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.24.1.0 i 3
SNMPv2-SMI::enterprises.171.11.63.6.2.24.1.0 = INTEGER: 3

C:\>
```

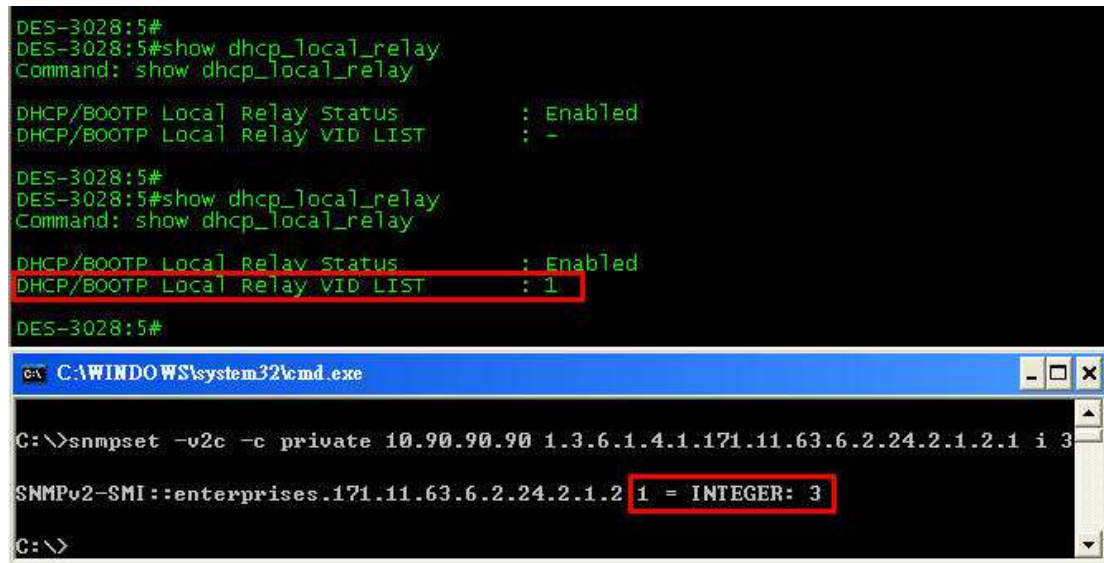
## # Configure VLAN default to be DHCP\_Local\_Relay enabled.

### CLI command :

config dhcp\_local\_relay vlan vlanid **1** state enable

### NETSNMP :

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.24.2.1.2.1 **1** i 3



```
DES-3028:5#
DES-3028:5#show dhcp_local_relay
Command: show dhcp_local_relay

DHCP/BOOTP Local Relay Status      : Enabled
DHCP/BOOTP Local Relay VID LIST    : -

DES-3028:5#
DES-3028:5#show dhcp_local_relay
Command: show dhcp_local_relay

DHCP/BOOTP Local Relay Status      : Enabled
DHCP/BOOTP Local Relay VID LIST    : 1

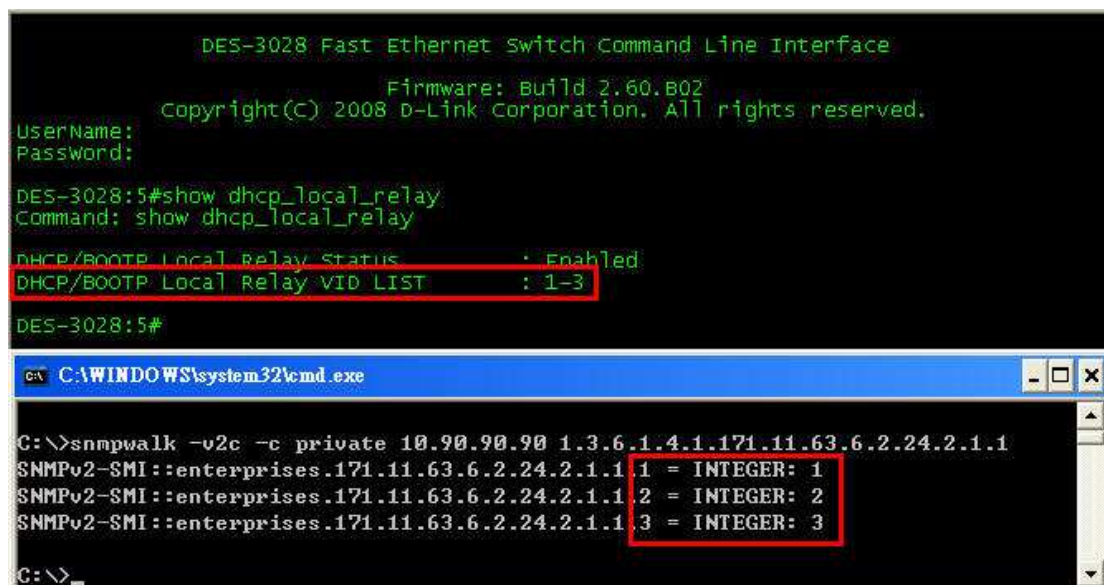
DES-3028:5#
```

```
C:\> C:\WINDOWS\system32\cmd.exe
C:\> snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.24.2.1.2.1 i 3
SNMPv2-SMI::enterprises.171.11.63.6.2.24.2.1.2.1.1 = INTEGER: 3
C:\>
```

## # Check how many VLANs are DHCP\_Local\_Relay enabled

### NETSNMP :

snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.24.2.1.1



```
DES-3028 Fast Ethernet Switch Command Line Interface
Firmware: Build 2.60.B02
Copyright(C) 2008 D-Link Corporation. All rights reserved.
UserName:
Password:

DES-3028:5#show dhcp_local_relay
Command: show dhcp_local_relay

DHCP/BOOTP Local Relay Status      : Enabled
DHCP/BOOTP Local Relay VID LIST    : 1-3

DES-3028:5#
```

```
C:\> C:\WINDOWS\system32\cmd.exe
C:\> snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.24.2.1.1
SNMPv2-SMI::enterprises.171.11.63.6.2.24.2.1.1.1 = INTEGER: 1
SNMPv2-SMI::enterprises.171.11.63.6.2.24.2.1.1.2 = INTEGER: 2
SNMPv2-SMI::enterprises.171.11.63.6.2.24.2.1.1.3 = INTEGER: 3
C:\>
```