

How to configure DHCP Local Relay via NETSNMP in DES-3200 C1 series?

The OIDs are defined in "**swDHCPLocalRelayState**" of "**DHCPRelay.mib**".

swDHCPLocalRelayState (1.3.6.1.4.1.171.12.42.4.2.1.2)

Object name	swDHCPLocalRelayState
Object ID	1.3.6.1.4.1.171.12.42.4.2.1.2
Module	DHCP-RELAY-MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swDHCPLocalRelayVlanEntry
First child	None
Description	This object indicates the state of the DHCP relay function of the specified VLAN.

For example, we need to apply the same command as CLI, how to configure it via NetSNMP?

```
DES-3200-28:admin#config dhcp_local_relay vlan vlanid 4094 state enable
Command: config dhcp_local_relay vlan vlanid 4094 state enable
Success.
DES-3200-28:admin#show dhcp_local_relay
Command: show dhcp_local_relay
DHCP/BOOTP Local Relay Status      : Disabled
DHCP/BOOTP Local Relay VID List    : 4094
DHCP Relay Agent Information Option 82 Circuit ID : Default
DHCP Relay Agent Information Option 82 Remote ID : Default
```

1) Check the VLAN list

For example:

```
snmpwalk -v2c -c public 10.90.90.90 1.3.6.1.4.1.171.12.42.4.2.1.2
```

```
C:\>snmpwalk -v2c -c public 10.90.90.90 1.3.6.1.4.1.171.12.42.4.2.1.2
SNMPv2-SMI::enterprises.171.12.42.4.2.1.2.1 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.42.4.2.1.2.10 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.42.4.2.1.2.20 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.42.4.2.1.2.300 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.42.4.2.1.2.4094 = INTEGER: 2
```

2) Enable DHCP Local Relay per VLAN

For example:

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.42.4.2.1.2.4094 i 1
```

```
C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.42.4.2.1.2.4094 i 1
SNMPv2-SMI::enterprises.171.12.42.4.2.1.2.4094 = INTEGER: 1
```

3) Enable global DHCP Local Relay

Object name	swDHCPLocalRelayGlobalState
ObjectID	1.3.6.1.4.1.171.12.42.4.1
Module	DHCP-RELAY-MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swDHCPLocalRelayMgmt
First child	None
Description	This object indicates the state of the DHCP local relay function of the switch.

For example:

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.42.4.1.0 i 1
```

```
C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.42.4.1.0 i 1
SNMPv2-SMI::enterprises.171.12.42.4.1.0 = INTEGER: 1
```

4) Result

```
DES-3200-28:admin#show dhcp_local_relay
Command: show dhcp_local_relay

DHCP/BOOTP Local Relay Status      : Enabled
DHCP/BOOTP Local Relay VID List    : 4094

DHCP Relay Agent Information Option 82 Circuit ID : Default
DHCP Relay Agent Information Option 82 Remote ID : Default
```