

How to checking and configuring DHCP_Relay on DES-3200 Series Via SNMP

The Location of DHCP OID

Object ID 1.3.6.1.4.1.171.12.42
Module DHCP-RELAY-MGMT-MIB

Disable and Enable DHCP Relay

:: Command ::

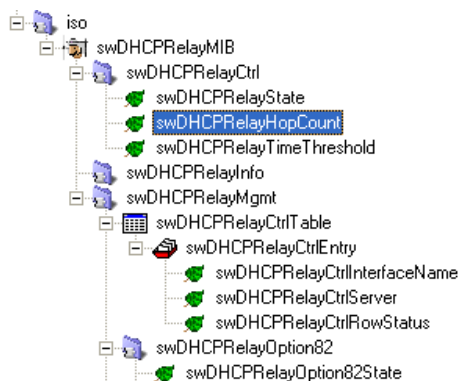
-- Disable DHCP Relay

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.42.1.1.0 i 2
```

-- Enable DHCP Relay

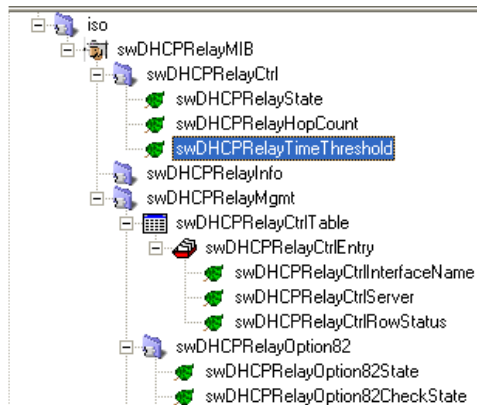
```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.42.1.1.0 i 1
```

DHCP Relay Hop count



Object name	swDHCPRelayHopCount
Object ID	1.3.6.1.4.1.171.12.42.1.2
Module	DHCP-RELAY-MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..16
Parent node	swDHCPRelayCtrl
First child	None
Description	This object indicates the maximum number of router the BOOTP packets can cross.

DHCP Relay Threshold



Object name	swDHCPRelayTimeThreshold
Object ID	1.3.6.1.4.1.171.12.42.1.3
Module	DHCP-RELAY-MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 0..65535
Parent node	swDHCPRelayCtrl
First child	None
Description	This object indicates the minimum time in seconds w the switch must relay the DHCP request. If this time is exceeded, the switch will drop the DHCP packet.

Disable and Enable DHCP Relay Option82

Object name	swDHCPRelayOption82State
Object ID	1.3.6.1.4.1.171.12.42.3.2.1
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	swDHCPRelayOption82
First child	None
Description	This object indicates DHCP relay option 82 function : disabled.

Disable and Enable DHCP Relay Option82 Check

Object name	swDHCPRelayOption82CheckState
Object ID	1.3.6.1.4.1.171.12.42.3.2.2
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	swDHCPRelayOption82
First child	None
Description	This object indicates DHCP relay option 82 Check function : disabled.

Disable and Enable DHCP Relay Option82 Policy

Object name	swDHCPRelayOption82Policy
Object ID	1.3.6.1.4.1.171.12.42.3.2.3
Module	DHCP-RELAY-MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : replace(1) 2 : drop(2) 3 : keep(3)
Parent node	swDHCPRelayOption82
First child	None
Description	This object indicates DHCP relay option 82 policy.

DHCP Relay Interface/ Server/CtrlState

:: Command ::

```
snmpset -v2c -c private 10.90.90.90  
1.3.6.1.4.1.171.12.42.3.1.1.3.6.83.121.115.116.101.109.10.90.90.30 i 4  
10.90.90.30: The DHCP Server IP address.
```

83.121.115.116.101.109: System (Interface Name)

S → hex 53 → 83 (Decimal)

y → hex 79 → 121 (Decimal)

s → hex 73 → 115 (Decimal)

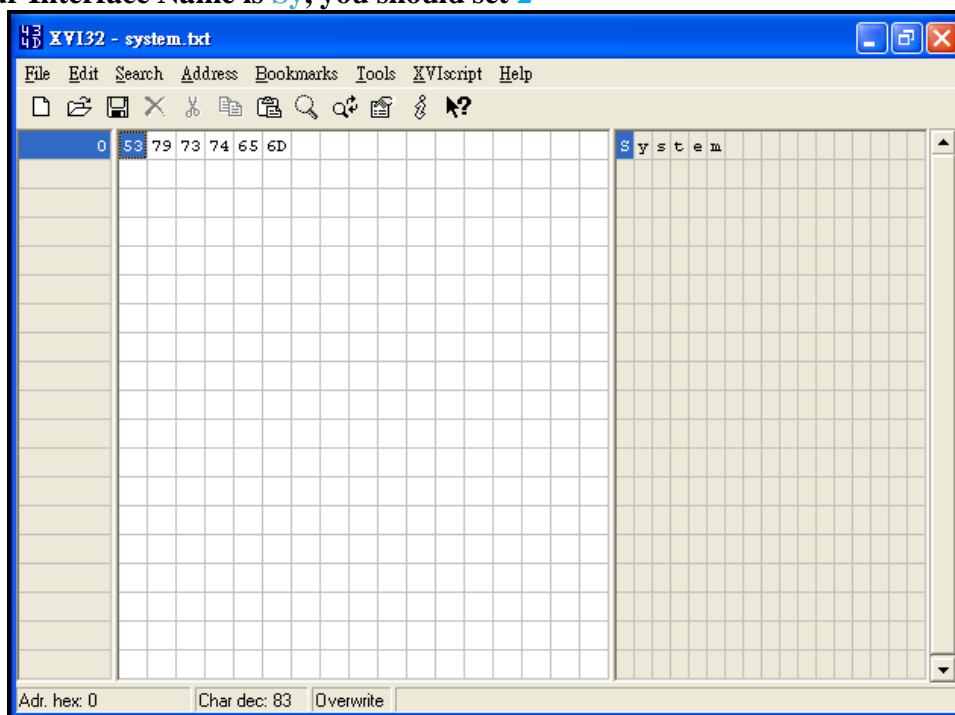
t → hex 74 → 116 (Decimal)

e → hex 65 → 101 (Decimal)

m → hex 6D → 109 (Decimal)

6: six bits with System (Interface Name)

ex: If your Interface Name is Sy, you should set 2



swDHCPRelayCtrl	Object name	swDHCPRelayCtrlEntry
swDHCPRelayInfo	Object ID	1.3.6.1.4.1.171.12.42.3.1.1
swDHCPRelayMgmt	Module	DHCP-RELAY-MGMT-MIB
swDHCPRelayCtrlTable	Base syntax	Sequence
swDHCPRelayCtrlEntry	Access	Not_Accessible
swDHCPRelayCtrlInterfaceName	Status	Current
swDHCPRelayCtrlServer	Index	1.swDHCPRelayCtrlInterfaceName 2.swDHCPRelayCtrlServer
swDHCPRelayCtrlRowStatus	Parent node	swDHCPRelayCtrlTable
swDHCPRelayOption82	First child	swDHCPRelayCtrlInterfaceName
swDHCPRelayOption82State	Description	A list of information indicates the IP address as a d to forward (relay) DHCP packets to.
swDHCPRelayOption82CheckState		
swDHCPRelayOption82Policy		
swDHCPRelayOption82RemoteldType		
swDHCPRelayOption82RemoteldContent		
swDHCPRelayOption60		

<ul style="list-style-type: none"> swDHCPRelayCtrl swDHCPRelayInfo swDHCPRelayMgmt <ul style="list-style-type: none"> swDHCPRelayCtrlTable <ul style="list-style-type: none"> swDHCPRelayCtrlEntry <ul style="list-style-type: none"> swDHCPRelayCtrlInterfaceName swDHCPRelayCtrlServer swDHCPRelayCtrlRowStatus swDHCPRelayOption82 <ul style="list-style-type: none"> swDHCPRelayOption82State swDHCPRelayOption82CheckState swDHCPRelayOption82Policy swDHCPRelayOption82RemoteldType swDHCPRelayOption82RemoteldContent 	Object name	swDHCPRelayCtrlInterfaceName
	Object ID	1.3.6.1.4.1.171.12.42.3.1.1.1
	Module	DHCP-RELAY-MGMT-MIB
	Base syntax	OctetString
	Composed syntax	DisplayString
	Access	Read-Only
	Status	Current
	Value list	1 : 0..12
	Parent node	swDHCPRelayCtrlEntry
	First child	None
Description	This object indicates the name of the IP interface.	

<ul style="list-style-type: none"> swDHCPRelayCtrl swDHCPRelayInfo swDHCPRelayMgmt <ul style="list-style-type: none"> swDHCPRelayCtrlTable <ul style="list-style-type: none"> swDHCPRelayCtrlEntry <ul style="list-style-type: none"> swDHCPRelayCtrlInterfaceName swDHCPRelayCtrlServer swDHCPRelayCtrlRowStatus swDHCPRelayOption82 <ul style="list-style-type: none"> swDHCPRelayOption82State swDHCPRelayOption82CheckState swDHCPRelayOption82Policy swDHCPRelayOption82RemoteldType swDHCPRelayOption82RemoteldContent 	Object name	swDHCPRelayCtrlServer
	Object ID	1.3.6.1.4.1.171.12.42.3.1.1.2
	Module	DHCP-RELAY-MGMT-MIB
	Base syntax	IP Address
	Composed syntax	IpAddress
	Access	Read-Only
	Status	Current
	Parent node	swDHCPRelayCtrlEntry
	First child	None
	Description	This object indicates the DHCP server IP address.

<ul style="list-style-type: none"> swDHCPRelayCtrl swDHCPRelayInfo swDHCPRelayMgmt <ul style="list-style-type: none"> swDHCPRelayCtrlTable <ul style="list-style-type: none"> swDHCPRelayCtrlEntry <ul style="list-style-type: none"> swDHCPRelayCtrlInterfaceName swDHCPRelayCtrlServer swDHCPRelayCtrlRowStatus swDHCPRelayOption82 <ul style="list-style-type: none"> swDHCPRelayOption82State swDHCPRelayOption82CheckState swDHCPRelayOption82Policy swDHCPRelayOption82RemoteldType swDHCPRelayOption82RemoteldContent swDHCPRelayOption60 <ul style="list-style-type: none"> swDHCPRelayOption60State swDHCPRelayOption60DefMode swDHCPRelayOption60DefTable <ul style="list-style-type: none"> swDHCPRelayOption60DefEntry 	Object name	swDHCPRelayCtrlRowStatus
	Object ID	1.3.6.1.4.1.171.12.42.3.1.1.3
	Module	DHCP-RELAY-MGMT-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	swDHCPRelayCtrlEntry
	First child	None
Description	This object indicates the status of this entry.	