
DES-3200 R1.51 CLI

Revision History

Version	Date	Author	Description
1.00	2011/05/03		

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1 CLI list

1-1 IP Interface command list

IP Interface Command Summary Table:

```
create ipif <ipif_name 12> <network_address> <vlan_name 32> { state [ enable | disable ] }
```

```
config ipif <ipif_name 12>
```

```
[  
  { ipaddress <network_address>  
    | vlan <vlan_name 32>  
    | state [enable|disable]  
  }  
  | bootp  
  | dhcp  
  | dhcp_option12 [ hostname <hostname 63>| clear_hostname | state [enable| disable]]  
  | ipv6 ipv6address <ipv6networkaddr>  
]
```

```
show ipif {<ipif_name 12>}
```

```
delete ipif [ <ipif_name 12> {ipv6address <ipv6networkaddr>} all ]
```

1-1-1 create ipif

1-1-1-1 Purpose

Create an L3 interface.

1-1-1-2 Format

```
create ipif <ipif_name 12> <network_address> <vlan_name 32>  
{ state [ enable | disable ] }
```

1-1-1-3 Description

This command is used to create an L3 interface.

1-1-1 Parameters

Parameters	Description
ipif_name	The name of the interface.
network_address	IPv4 network address (xxx.xxx.xxx/xx). It specifies a host addresses and length of network mask.
vlan_name	The name of a VLAN.
state	interface State.

1-1-2 Help message

Used to create an L3 interface.

1-1-3 Restriction

	Administrator	Operator	Power User	User
2-operation level	Yes	n/a	n/a	No
3-operation level	Yes	Yes	n/a	No
4-operation level	Yes	Yes	Yes	No

1-1-4 Examples

To create an interface interface_1 on VLAN vlan_1 with network IP address 10.0.0.1/8:

```
DES-3200-28:5#create ipif intface_1 10.0.0.1/8 vlan_1
Command: create ipif intface_1 10.0.0.1/8 vlan_1

Success.

DES-3200-28:5#
```

1-2 config ipif

1-2-1 Purpose

Configure an interface's parameters.

1-2-2 Format

```
config ipif <ipif_name 12>
[
  { ipaddress <network_address>
    | vlan <vlan_name 32>
    | state [enable|disable]
  }
  | bootp
  | dhcp
  | dhcp_option12 [hostname <hostname 63>| clear_hostname | state [enable| disable]]
  | ipv6 ipv6address <ipv6networkaddr>
]
```

1-2-3 Description

Configure the parameters for an L3 interface. For IPv4, only the system interface can be specified to obtain an IP address. If the mode is set to BOOTP or DHCP, then the IPv4 address will be obtained through protocol operation. If you first configure the BOOTP or DHCP mode , and then configure the IP address , the mode will change to the manual configured mode. For IPv6, multiple addresses can defined on the same L3 interface.

Only the system interface is allowed to set to **BOOTP**, DHCP mode and specify the DHCP option 12 setting. Specifying DHCP option 12 does not mean setting the interface to DHCP mode.

Only the system interface supports IPv6.

1-2-4 Parameters

Parameters	Description
ipif_name	The name of the interface.
network_address	To configure a network address on an interface. The address should specify a host address and the length of the network mask. Since an interface can only have one IPv4 address, the new configured address will overwrite the original.
vlan	Name of the VLAN where the IPIF is operated.
bootp	Use BOOTP to obtain the IPv4 address.
dhcp	Use DHCP to obtain the IPv4 address.
ipv6networkaddr	IPv6 network address. The address should specify a host address and length of the network prefix. There can be multiple IPv6 addresses defined on an interface. Thus, as a new address is defined, it is added on this interface.
state	Enable or disable the state of the interface.
dhcp option12 hostname	Specify the host name to be inserted in the DHCPDISCOVER and DHCPREQUEST message. The specified host name must start with a letter, end with a letter or digit, and have only letters, digits, and hyphen as interior characters; the maximal length is 63.
dhcp option12 clear_hostname	To clear the hostname setting. If a host name is empty, the system name will be used to encode option 12. The length of the system is more than 63 characters. The superfluous chars will be truncated. If the system name is also empty, then the product model name will be used to encode option 12.
dhcp option12 state	Enable/disable insertion of option 12 in the DHCPDISCOVER and DHCPREQUEST message.

1-2-5 Help message

Used to configure the parameters for an L3 interface.

1-2-6 Restriction

	Administrator	Operator	Power User	User
2-operation level	Yes	n/a	n/a	No
3-operation level	Yes	Yes	n/a	No
4-operation level	Yes	Yes	Yes	No

1-2-7 Examples

To configure interface_1's IPv4 network address to 10.0.0.1/8:

```
DES-3200-28:5#config ipif Intface_1 ipaddress 10.0.0.1/8
Command: config ipif Intface_1 ipaddress 10.0.0.1/8

Success.

DES-3200-28:5#
```

1-3 show ipif

1-3-1 Purpose

Show IP interface information.

1-3-2 Format

show ipif {<ipif_name 12>}

1-3-3 Description

Display the interface's information. The configuration for both IPv4 and IPv6' addresses will be displayed if IPv6 address is configured.

Only the system interface has the IPv6 and DHCP entries to show.

1-3-4 Parameters

Parameters	Description
ipif_name	IP interface's name.

1-3-5 Help message

Used to show IP interface's information.

1-3-6 Restriction

	Administrator	Operator	Power User	User
2-operation level	Yes	n/a	n/a	Yes
3-operation level	Yes	Yes	n/a	Yes
4-operation level	Yes	Yes	Yes	Yes

1-3-7 Examples

To show all IP interface's information:

```

DES-3200-28:5#show ipif
Command: show ipif

IP Interface Settings

IP Interface           : System
IPv4 Address           : 192.168.123.100/24 (Manual)
Subnet Mask            : 255.255.255.0
VLAN Name              : default
Admin. State           : Enabled
Link Status            : Link Down
IPv6 Link-Local Address : FE80::201:2FF:FE03:422/128
IPv6 Global Unicast Address : 3FFE::1/64
DHCP Option12          : Disabled
DHCP Option12 Host Name : Switch1234

Total Entries: 1

DES-3200-28:5#

```

1--4 delete ipif

1--4-1 Purpose

Delete the IP interface or IPv6 network IP address.

1--4-2 Format

delete ipif [<ipif_name 12> { ipv6address <ipv6networkaddr>} all]

1--4-3 Description

Delete an interface or all the interfaces.

Note that the system interface can not be deleted. By using this command, an IPv6 address **only** can be deleted from the system interface.

1--4-4 Parameters

Parameters	Description
ipif_name	IP interface's name.
all	All IP interfaces except the System IP interface will be deleted.
ipv6networkaddr	IPv6 network address. Only the system interface can delete an ipv6 address.

1--4-5 Help message

Used to delete the IP interface or IPv6 network IP address.

1-4-6 Restriction

	Administrator	Operator	Power User	User
2-operation level	Yes	n/a	n/a	No
3-operation level	Yes	Yes	n/a	No
4-operation level	Yes	Yes	Yes	No

1-4-7 Examples

To delete IP interface Intface_1:

```
DES-3200-28:5#delete ipif Intface_1
Command: delete ipif Intface_1

Success.

DES-3200-28:5#
```

1-2 MSTP command list

MSTP Command Summary Table:

show stp ports {<portlist>} {instance <value 0-63>}
show stp instance {<value 0-63>}
create stp instance_id <value 1-63>
delete stp instance_id <value 1-63>
config stp instance_id <value 1-63> [add_vlan remove_vlan] <vidlist>
config stp priority <value 0-61440> instance_id <value 0-63>
config stp mst_ports <portlist> instance_id <value 0-63> {internalCost [auto <value 1-200000000>] priority <value 0-240>}(1)
