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# Neighbor Detection Configuration Commands

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## Chapter 1 Neighbor Detection Configuration Commands

Neighbor Detection Configuration Commands include:

- `debug ipv6 nd`
- `show ipv6 neighbors`
- `clear ipv6 neighbors`
- `ipv6 neighbor`

### 1.1.1 `debug ipv6 nd`

#### Syntax

To enable the switch of printing ND debugging information, run the following command:

```
debug ipv6 nd [entry / timer / X:X:X:X::X / adj-table]
```

#### Parameters

Parameters	Description
<i>entry</i>	Stands for the switch of neighbor cache entry changes.
<i>timer</i>	Stands for the switch of neighbor cache timer changes.
<i>X:X:X:X::X</i>	Stands for the IPv6 address of neighbor cache.
<i>adj-table</i>	neighbor adjacent table switch

#### Default Value

By default, the switch of printing ND debugging information is in disabled state.

#### Command Mode

EXEC

#### Usage Guidelines

If the command carries with no extension parameters, all debugging switches are enabled.

## Example

None

## Related Command

None

## 1.1.2 show ipv6 neighbors

## Syntax

To display the current switch's neighbor cache, run the following command:

```
show ipv6 neighbors [ vlan vlanid ]
```

## Parameters

Parameters	Description
<i>vlanid</i>	vlan号。

## Default Value

None

## Command Mode

EXEC

## Usage Guidelines

None

## Related Command

None

### 1.1.3 clear ipv6 neighbors

#### Syntax

To cancel on a switch all neighbor caches that are not configured manually, run the following command:

```
clear ipv6 neighbors
```

#### Parameters

None

#### Default Value

None

#### Command Mode

EXEC

#### Usage Guidelines

This command can only cancel all those neighbor caches automatically obtained by a switch itself, not those manually configured by the ipv6 neighbor command.

#### Related Command

ipv6 neighbor

### 1.1.4 ipv6 neighbor

#### Syntax

To set neighbor caches of a switch in the global configuration mode, run the following command globally:

```
ipv6 neighbor address6 vlan vlanid mac
```

#### Parameters

Parameters	Description
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<i>address6</i>	IP address of the neighbor
<i>vlanid</i>	Stands for the ID of the VLAN port.
<i>mac</i>	Means the link-layer address of a neighbor.

#### Default Value

None

#### Command Mode

Global configuration mode

#### Usage Guidelines

This command can be used to set neighbor caches of a switch. These neighbor caches never times out and are always reachable until no ipv6 neighbor is run.

#### Example

The following example shows how to set on port interface vlan1 a neighbor whose IPv6 address is 1::1 and whose link-layer address is 00:e0:4c:5a:78:eb.

```
IPv6_config#ipv6 neighbor 1::1 vlan 1 00:e0::4c:5a:78:eb
```

#### Related Command

```
show ipv6 neighbors
```