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## UDLD Configuration Commands

# Table of Contents

Chapter 1 UDLD Configuration Commands .....	1
1.1 UDLD Configuration Commands .....	1
1.1.1 udld enable .....	1
1.1.2 udld aggressive .....	2
1.1.3 udld port .....	3
1.1.4 udld port aggressive .....	3
1.1.5 udld message .....	4
1.1.6 udld reset .....	5
1.1.7 show udld .....	6

# Chapter 1 UDLD Configuration Commands

## 1.1 UDLD Configuration Commands

UDLD configuration commands include:

- `udld enable`
- `udld aggressive`
- `udld port`
- `udld port aggressive`
- `udld message`
- `udld reset`
- `show udld`

### 1.1.1 `udld enable`

#### Syntax

##### **`udld enable`**

To enable global UDLD function in normal mode, use **`udld enable`** command.

##### **`no udld enable`**

To disable global UDLD function in normal mode, use **`no udld enable`** command.

#### Parameter

None

#### Default

None

#### Usage Guidelines

Enable UDLD function of all interfaces in normal mode. In normal mode, if cannot connect, UDLD will set the interface in the state of undetermined, without disabling the interface protocol. If the UDLD is thought to be a two-way link, then the interface is in state of Bidirectional.

## Command Mode

Global configuration mode

## Example

The following example shows how to enable UDLD in normal mode:

```
Switch_config#udld enable
```

### 1.1.2 udld aggressive

#### Syntax

##### **udld aggressive**

To enable global UDLD function in aggressive mode, use **udld aggressive** command.

##### **no udld aggressive**

To disable global UDLD function in aggressive mode, use **udld aggressive** command.

#### Parameter

None

#### Default

None

#### Usage Guidelines

Enable UDLD function of all interfaces in aggressive mode. In aggressive mode, if UDLD cannot connect and fail to reconnect, there is consider to be serious network problem for communication interruption. Then UDLD will disable the interface protocol and the interface is in the state of errdisable. If the UDLD is thought to be a two-way link, then the interface is in state of Bidirectional.

## Command Mode

Global configuration mode

## Example

The following example shows how to enable UDLD in aggressive mode:

```
Switch_config#udld aggressive
```

### 1.1.3 udld port

#### Syntax

##### **udld port**

To enable UDLD function of the port in normal mode, use **udld port** command.

##### **no udld port**

To disable UDLD function of the port in normal mode, use **no udld port** command.

#### Parameter

None

#### Default

None

#### Usage Guidelines

Enable UDLD function of its interface in normal mode. In normal mode, if cannot connect, UDLD will set the interface in the state of undetermined, without disabling the interface protocol. If the UDLD is thought to be a two-way link, then the interface is in state of Bidirectional.

#### Command Mode

Interface configuration mode

#### Example

The following example shows how to enable UDLD of the port in normal mode:

```
Switch_config_g0/1#udld port
```

### 1.1.4 udld port aggressive

#### Syntax

##### **udld port aggressive**

To enable UDLD function of the port in aggressive mode, use **udld port aggressive** command.

**no udld port aggressive**

To disable UDLD function of the port in aggressive mode, use **no udld port aggressive** command.

**Parameter**

None

**Default**

None

**Usage Guidelines**

Enable UDLD function of its interface in aggressive mode. In aggressive mode, if UDLD cannot connect and fail to reconnect, there is consider to be serious network problem for communication interruption. Then UDLD will disable the interface protocol and the interface is in the state of errdisable. If the UDLD is thought to be a two-way link, then the interface is in state of Bidirectional.

**Command Mode**

Interface configuration mode

**Example**

The following example shows how to enable UDLD of the port in aggressive mode:

```
Switch_config_g0/1#udld port aggressive
```

### 1.1.5 udld message

**Syntax**

**udld message** *time*

To set udld message intervals in aggressive mode, use above command.

**no udld message**

To return to the default setting, use the no form of this command.

**Parameter**

Parameter	Description
<i>time</i>	Interval time in aggressive mode, range: 7-90s

## Default

15s

## Usage Guidelines

Set the udd message interval in aggressive mode. Only after restarting the aggressive mode, new interval time can be valid.

## Command Mode

Global configuration mode

## Example

The following example shows how to set the udd message interval in aggressive mode as 7s, which is valid after restarting the aggressive mode:

```
Switch_config#udd message 7
```

### 1.1.6 udd reset

## Syntax

### **udd reset**

To reset the interface disabled by UDLD mode protocol, use above command.

## Parameter

None

## Default

None

## Usage Guidelines

Reset the interface disabled by UDLD mode protocol.

## Command Mode

Management configuration mode

## Example

The following example shows how to reset the interface disabled by UDLD module:

```
Switch#udld reset
```

```
1 ports shutdown by UDLD were reset.
```

```
%%UDLD-2-UDLD_PORT_RESET: UDLD reset interface GigaEthernet0/1.
```

```
%%PM-4-ERR_RECOVER: Attempting to recover from udld err-disable state on GigaEthernet0/1.
```

### 1.1.7 show udld

## Syntax

**show udld interface** [*interface*]

To display the connection information of running UDLD, use above command.

## Parameter

Parameter	Description
<i>interface</i>	Display UDLD operation information of the specified interface.

## Default

None

## Usage Guidelines

Display the operation information of UDLD module. When not input the interface parameter, UDLD operation information of all interfaces will be displayed. When input the interface parameter, only display the UDLD information of the interface whose parameter is input.

## Command Mode

Management/Global configuration mode

## Example

The following example shows how to display the operation state information of UDLD module in all interfaces:

```
Switch_config#show udld
```

```
Interface GigaEthernet0/1
```

```
---
```

```
Port enable administrative configuration setting: Enabled
```

Port enable operational state: Enabled  
Current bidirectional state: Unknown  
Current operational state: Link down  
Message interval: 15  
Time out interval: 1  
No neighbor cache information stored

Interface GigaEthernet0/2

---

Port enable administrative configuration setting: Enabled  
Port enable operational state: Enabled  
Current bidirectional state: Unknown  
Current operational state: Link down  
Message interval: 15  
Time out interval: 1  
No neighbor cache information stored

Interface GigaEthernet0/3

---

Port enable administrative configuration setting: Enabled  
Port enable operational state: Enabled  
Current bidirectional state: Unknown  
Current operational state: Link down  
Message interval: 15  
Time out interval: 1  
No neighbor cache information stored

....

....

....

The following example shows how to display the operation state information of UDLD module in the interface G0/1:

Switch\_config#show udld interface g0/1

Interface GigaEthernet0/1

---

Port enable administrative configuration setting: Enabled  
Port enable operational state: Enabled  
Current bidirectional state: Unknown  
Current operational state: Link down  
Message interval: 15  
Time out interval: 1  
No neighbor cache information stored  
Switch\_config#