

## UDLD Configuration Commands

Официальный дистрибьютор в России и СНГ ООО «ТМС»  
Адрес: Россия, 117519, г. Москва, Варшавское ш., дом 133, помещение 370

Тел: +7 (495) 723-81-21  
Факс: +7 (495) 723-81-22  
Техподдержка 24/7: +7 (495) 723-33-33  
E-mail: [sales@tmc.ru](mailto:sales@tmc.ru)  
Сайт: [www.dgsys.ru](http://www.dgsys.ru)

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# Chapter 1 UDLD Configuration Commands

## 1. 1 UDLD Configuration Commands

The UDLD configuration commands are listed below:

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

### 1. 1. 1 `udld enable`

#### Syntax

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

It is used to enable UDLD globally in **normal** mode.

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

It is used to disable UDLD globally in **normal** mode.

#### Parameter

None

#### Default settings

None

#### Usage explanation

This command is used to enable UDLD on all interfaces in **normal** mode. In **normal** mode, if UDLD determines that the connection is gone, UDLD will set the state of the

port to **undetermined**, not to **down**. If UDLD maintains it is a bidirectional link, the port will be set to **bidirectional**.

## Command mode

Global

## Example

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

```
Switch_config#udld enable
```

### 1. 1. 2 udld aggressive

## Syntax

### **udld aggressive**

It is used to enable UDLD globally in **aggressive** mode.

### **no udld aggressive**

It is used to disable UDLD globally in **aggressive** mode.

## Parameter

None

## Default Settings

None

## Usage explanation

This command is used to enable UDLD on all interfaces in **aggressive** mode. In **aggressive** mode, if UDLD determines that the link is gone and the link cannot be reconnected, it is thought that interrupted communication is a severe network problem and UDLD will set the state of the protocol to **down** and the port is in **down** state. If UDLD maintains it is a bidirectional link, the port will be set to **bidirectional**.

## Command mode

Global

## Example

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

```
Switch_config#udld aggressive
```

### 1. 1. 3 udld port

## Syntax

### **udld port**

This command is used to enable UDLD on a port in **normal** mode.

### **no udld port**

This command is used to disable UDLD on a port in **normal** mode.

## Parameter

None

## Default Settings

None

## Usage explanation

This command is used to enable UDLD on the local port in **normal** mode. In **normal** mode, if UDLD determines that the connection is gone, UDLD will set the state of the port to **undetermined**, not to **down**. If UDLD maintains it is a bidirectional link, the port will be set to **bidirectional**.

## Command mode

Interface configuration mode

## Example

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

```
Switch_config_f0/1#udld port
```

#### 1. 1. 4 udld port aggressive

##### Syntax

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

It is used to enable UDLD on the local interface in **aggressive** mode.

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

It is used to disable UDLD on the local interface in **aggressive** mode.

##### Parameter

None

##### Default Settings

None

##### Usage explanation

This command is used to enable UDLD on the local interface in **aggressive** mode. In **aggressive** mode, if UDLD determines that the link is gone and the link cannot be reconnected, it is thought that interrupted communication is a severe network problem and UDLD will set the state of the protocol to **down** and the port is in **down** state. If UDLD maintains it is a bidirectional link, the port will be set to **bidirectional**.

##### Command mode

Interface configuration mode

##### Example

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

```
Switch_config_f0/1#udld port aggressive
```

#### 1. 1. 5 udld message

##### Syntax

###### **udld message *time***

It is used to set the message interval in **aggressive** mode.

### no udld message

It is to resume the default message interval in **aggressive** mode.

#### Parameter

Parameter	Explanation
<i>time</i>	Stands for the message interval in <b>aggressive</b> mode. It ranges between 7 and 90 seconds.

#### Default Settings

15s

#### Usage explanation

This command is used to set the message interval in **aggressive** mode. After the message is set, you need to reset the **aggressive** mode and then the new message interval takes effect.

#### Command mode

Global

#### Example

The following example shows how to set the message interval to 7 seconds in **aggressive** mode, which takes effect after the **aggressive** mode is restarted.

```
Switch_config#udld message 7
```

### 1. 1. 6 udld reset

#### Syntax

##### udld reset

It is used to reset the interface which is down by UDLD to **up**.

#### Parameter

None

## Default Settings

None

## Usage explanation

This command is used to reset the interface which is down by UDLD to **up**.

## Command mode

EXEC

## Example

The following example shows how to restart the interface which is closed by UDLD.

```
Switch#udld reset
```

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

```
%%UDLD-2-UDLD_PORT_RESET: UDLD reset interface FastEthernet0/1.
```

```
%%PM-4-ERR_RECOVER: Attempting to recover from udld err-disable state on FastEthernet0/1.
```

### 1. 1. 7 show udld

## Syntax

```
show udld [interface]
```

It is used to display the information about UDLD running.

## Parameter

Parameter	Explanation
<i>interface</i>	Shows the running of the UDLD module on a specific interface.

## Default Settings

None

## Usage explanation

This command can display the running of the UDLD module. When the **interface** parameter is not entered, the information about the running of all UDLDs on all interfaces will be displayed; when the **interface** parameter is entered, only the running of the UDLD on this interface will be displayed.



## Command mode

EXEC / global

## Example

The following commands will display the running states of UDLD modules on all interfaces.

```
Switch_config#show udld
```

```
Interface FastEthernet0/1
```

```
---
```

```
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 FastEthernet0/2
```

```
---
```

```
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 FastEthernet0/3
```

```
---
```

```
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 commands will display the running state of the UDLD module on the f0/1 interface.

```
Switch_config#show udld interface f0/1
```

Interface FastEthernet0/1

---

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#