

UDLD Configuration Commands

Table of Contents

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

To enable UDLD globally in normal mode, run the following command.

`udld enable`

To disable UDLD globally in normal mode, run the following command.

`no udld enable`

Parameters

None

Default Value

None

Usage Guidelines

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 configuration mode

Example

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

```
Switch_config#udld enable
```

1.1.2 udld aggressive

Syntax

To enable UDLD globally in aggressive mode, run the following command.

```
udld aggressive
```

To disable UDLD globally in aggressive mode, run the following command.

```
no udld aggressive
```

Parameters

None

Default Value

None

Usage Guidelines

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 configuration mode

Example

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

```
Switch_config#udld aggressive
```

1.1.3 udd port

Syntax

To enable UDLD on all interfaces in normal mode, run the following command. **udd port**

To disable UDLD on all interfaces in normal mode, run the following command. **no udd port**

Parameters

None

Default Value

None

Usage Guidelines

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

Port configuration mode

Example

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

```
Switch_config_g0/1#udd port
```

1.1.4 udd port aggressive

Syntax

To enable UDLD on the local interface in aggressive mode, run the following command.

udld port aggressive

To disable UDLD on all interfaces in aggressive mode, run the following command. **no**

udld port

Parameters

None

Default Value

None

Usage Guidelines

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

Port configuration mode

Example

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

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

1.1.5 udld message

Syntax

To set the message interval of the aggressive mode, run the following command.

udld message *time*

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

no udld message

Parameters

Parameters	Description
<i>time</i>	Stands for the message interval in aggressive mode Range: 7-90 seconds

Default Value

15s

Usage Guidelines

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 configuration mode

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

To reset the interface which is down by UDLD to up, run the following command. **udld**

reset

Parameters

None

Default Value

None

Usage Guidelines

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

EXEC mode

Example

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

```
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 udl err-
disable state on
GigaEthernet0/1.
```

1.1.7 show udld

Syntax

To display the information about UDLD running, run the following command.

show udld interface [*interface*]

Parameters

Parameters	Description
<i>interface</i>	Shows the running of the UDLD module on a specific interface.

Default Value

None

Usage Guidelines

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 configuration mode
Example

The following commands shows how to display the running states of UDLD modules on 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 commands display the running state of the UDLD module on the G0/1 interface..

```
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#