UDLD Configuration Commands

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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
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- 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
time	Stands for the message interval in **aggressive** 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
interface	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#