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
- 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>time</td>
<td>Stands for the message interval in <strong>aggressive</strong> mode. It ranges</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface</td>
<td>Shows the running of the UDLD module on a specific interface.</td>
</tr>
</tbody>
</table>

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#