



# Configuring UDLD

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This document describes the Unidirectional Link Detection (UDLD) feature and configuration steps to implement UDLD.

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## Prerequisites for Configuring UDLD

- To identify and disable the unidirectional links, devices at both ends must support UDLD.
- UDLD Hello packet timers must be same for both the devices.

## Restrictions for Configuring UDLD

- Access Control Lists (ACLs) cannot be used to block the UDLD traffic.
- UDLD on ME 1200 NID cannot interoperate with other devices. UDLD can be enabled only between ME 1200 NIDs.

## Information About UDLD

UDLD is a Layer 2 protocol that enables devices connected through Ethernet cables to monitor the physical configuration and detect presence of a unidirectional link. A unidirectional link occurs when traffic sent by a local device is received by its neighbor but traffic coming from the neighboring device is not received by the local device. When a unidirectional link is detected, the affected port is disabled and user is alerted. This can help prevent spanning tree topology loops.

UDLD supports two operation modes:

- **Normal**—In this mode, UDLD detects a unidirectional link due to misconnected fibers on a fiber-optic link that is not detected by Layer 1 mechanisms.



**Note** If port connections are correct and traffic is one way, UDLD does not detect the unidirectional link. In this case, no action is taken and link is considered undetermined.

- **Aggressive**—In this mode, unidirectional link due to one-way traffic on fiber-optic and twisted pair links, and misconnected ports on fiber-optic links can be detected. Specifically, if one end of the link cannot send or receive traffic, or one of the ports is down and the other is up, the unidirectional link can be detected. Using the loss of hello packets as indication to detect bi-directional link that cannot be re-established, UDLD disables the affected port.

In addition, UDLD can detect the identities of neighbors by caching the information contained in UDLD hello packet.

By default, UDLD is disabled on ME 1200 NID. The normal or aggressive mode can be

- enabled globally on all ports or
- enabled or modified on the individual ports

## How to Provision UDLD

### Enabling UDLD Mode Globally

#### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>controller nid</b> <i>1/NID_ID</i>  <b>Example:</b> Switch(config)# controller nid 1/1	Enters the controller configuration mode.
<b>Step 3</b>	<b>UDLDPortType</b>  <b>Example:</b> Switch(config-controller)# UDLDPortType	Enters the UDLD mode.
<b>Step 4</b>	<b>udldGlobalConfig</b> {mode {normal   aggressive}   message-interval}	Enters UDLD global configuration mode. Sub-command options:

	Command or Action	Purpose
	<p><b>Example:</b></p> <pre>Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig udldGlobalConfig mode normal enable Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig udldGlobalConfig message-interval 10</pre>	<ul style="list-style-type: none"> <li>• <b>mode</b>—Specifies UDLD configuration mode. <ul style="list-style-type: none"> <li>◦ <b>normal</b>—Enables UDLD in normal mode on all fiber-optic ports.</li> <li>◦ <b>aggressive</b>—Enables UDLD in aggressive mode on all fiber-optic ports.</li> </ul> </li> <li>• <b>message-interval</b>—Specifies time interval between UDLD probe messages on ports (7-90 seconds).</li> </ul>
<b>Step 5</b>	<p><b>setGlobalUDLDConfig review</b></p> <p><b>Example:</b></p> <pre>Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig review</pre>	(Optional) Displays the configuration.
<b>Step 6</b>	<p><b>setGlobalUDLDConfig commit</b></p> <p><b>Example:</b></p> <pre>Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig commit</pre>	Sends the configuration to NID.
<b>Step 7</b>	<p><b>exit</b></p> <p><b>Example:</b></p> <pre>Switch(config-controller-UDLDPortType) # exit</pre>	Exits to the config-controller mode.

### Configuration Example

- The example shows how to enable UDLD globally in normal mode:

```
Switch(config)# controller nid 1/1
Switch(config-controller) # UDLDPortType
Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig udldGlobalConfig mode normal
enable
Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig udldGlobalConfig
message-interval 10
Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig review
```

Commands in queue:

```
setGlobalUDLDConfig udldGlobalConfig mode normal enable
setGlobalUDLDConfig udldGlobalConfig message-interval 10
```

```
Switch(config-controller-UDLDPortType) # setGlobalUDLDConfig commit
```

```
SetGlobalUDLDConfig Commit Success!!!
```

```
Switch(config-controller-UDLDPortType) # exit
```

This enables UDLD on all ports of ME 1200 NID with a time interval of 10 seconds.

## Disabling UDLD Mode Globally

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>controller nid <i>1/NID_ID</i></b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.
<b>Step 3</b>	<b>UDLDPortType</b>  <b>Example:</b> Switch(config-controller)# UDLDPortType	Enters the UDLD mode.
<b>Step 4</b>	<b>udldGlobalConfig {mode {normal   aggressive}   message-interval}</b>  <b>Example:</b> Switch((config-controller)UDLDPortType)# setGlobalUDLDConfig udldGlobalConfig mode normal disable	Enters UDLD global configuration mode. Sub-command options: <ul style="list-style-type: none"> <li>• <b>mode</b>—Specifies UDLD configuration mode. <ul style="list-style-type: none"> <li>◦ <b>normal</b>—Enables UDLD in normal mode on all fiber-optic ports.</li> <li>◦ <b>aggressive</b>—Enables UDLD in aggressive mode on all fiber-optic ports.</li> </ul> </li> <li>• <b>message-interval</b>—Specifies time interval between UDLD probe messages on ports. The valid range is from 7 to 90 seconds.</li> </ul>
<b>Step 5</b>	<b>setGlobalUDLDConfig review</b>  <b>Example:</b> Switch((config-controller)UDLDPortType)# setGlobalUDLDConfig review	(Optional) Displays the configuration.
<b>Step 6</b>	<b>setGlobalUDLDConfig commit</b>  <b>Example:</b> Switch(config-controller)UDLDPortType)# setGlobalUDLDConfig commit	Sends the configuration to NID.
<b>Step 7</b>	<b>exit</b>  <b>Example:</b> Switch((config-controller)UDLDPortType)# exit	Exits to the config-controller mode.

### Configuration Example

- The example shows how to disable UDLD globally in normal mode:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# UDLDPortType
Switch(config-controller-UDLDPortType)# setGlobalUDLDConfig udldGlobalConfig mode normal
disable
Switch(config-controller-UDLDPortType)# setGlobalUDLDConfig review
```

Commands in queue:

```
setGlobalUDLDConfig udldGlobalConfig mode normal disable
```

```
Switch((config-controller)UDLDPortType)# setGlobalUDLDConfig commit
```

```
SetGlobalUDLDConfig Commit Success!!!
```

```
Switch((config-controller)UDLDPortType)# exit
```

This disables UDLD on all ports of ME 1200 NID.

## Enabling UDLD Mode on a Port

### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
Step 2	<b>controller nid 1/NID_ID</b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	<b>UDLDPortType</b>  <b>Example:</b> Switch(config-controller)# UDLDPortType	Enters the UDLD mode.
Step 4	<b>udldInterfaceConfig {mode {enable   aggressive}   message-interval seconds   port port number}</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# setIntfUDLDConfig udldInterfaceConfig mode aggressive enable Switch(config-controller-UDLDPortType)# setIntfUDLDConfig udldInterfaceConfig message-interval 20 Switch(config-controller-UDLDPortType)# setIntfUDLDConfig udldInterfaceConfig port 3	Enters UDLD global configuration mode. Sub-command options: <ul style="list-style-type: none"> <li>• <b>mode</b>—Specifies UDLD configuration mode. <ul style="list-style-type: none"> <li>◦ <b>enable</b>—Enables UDLD in normal mode on selected interface.</li> <li>◦ <b>aggressive</b>—Enables UDLD in aggressive mode on selected interface.</li> </ul> </li> </ul>

	Command or Action	Purpose
		<ul style="list-style-type: none"> <li>• <b>message-interval</b>—Specifies time interval between UDLD probe messages on ports. <ul style="list-style-type: none"> <li>◦ <i>seconds</i>—Time interval in seconds. Valid range is from 7 to 90 seconds.</li> </ul> </li> <li>• <b>port</b>—Specifies targeted interface. <ul style="list-style-type: none"> <li>◦ <i>port number</i>—Specifies number of the selected port.</li> </ul> </li> </ul>
<b>Step 5</b>	<b>setIntfUDLDConfig review</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# setIntfUDLDConfig review	(Optional) Displays the configuration.
<b>Step 6</b>	<b>setIntfUDLDConfig commit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# setIntfUDLDConfig commit	Sends the configuration to NID.
<b>Step 7</b>	<b>exit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# exit	Exits to the config-controller mode.

### Configuration Example

- The example shows how to enable UDLD on a specific port in an aggressive mode:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# UDLDPortType
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig uddInterfaceConfig mode
aggressive enable
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig uddInterfaceConfig
message-interval 20
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig uddInterfaceConfig port 3
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig review
```

Commands in queue:

```
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig
uddInterfaceConfig mode aggressive enable
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig
uddInterfaceConfig message-interval 20
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig
uddInterfaceConfig port 3
```

```
Switch(config-controller-UDLDPortType)# setIntfUDLDConfig commit
```

```
SetIntfUDLDConfig Commit Success!!!
```

```
Switch(config-controller-UDLDPortType)# exit
```

This enables UDLD in aggressive mode only on port 3 of ME 1200 NID with a time interval of 20 seconds.

## Disabling UDLD Mode on a Port

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>controller nid <i>1/NID_ID</i></b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.
<b>Step 3</b>	<b>UDLDPortType</b>  <b>Example:</b> Switch(config-controller)# UDLDPortType	Enters the UDLD mode.
<b>Step 4</b>	<b>udldInterfaceConfig {mode {enable   aggressive}   message-interval <i>seconds</i>   port <i>port number</i>}</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# setIntfUDLDConfig udldInterfaceConfig port 3 Switch(config-controller-UDLDPortType)# setIntfUDLDConfig udldInterfaceConfig mode aggressive disable	Enters UDLD port specific configuration mode. Sub-command options: <ul style="list-style-type: none"> <li>• <b>mode</b>—Specifies UDLD configuration mode. <ul style="list-style-type: none"> <li>◦ <b>enable</b>—Enables UDLD in normal mode on selected interface.</li> <li>◦ <b>aggressive</b>—Enables UDLD in aggressive mode on selected interface.</li> </ul> </li> <li>• <b>message-interval</b>—Specifies time interval between UDLD probe messages on ports. <ul style="list-style-type: none"> <li>◦ <i>seconds</i>—Time interval in seconds. Valid range is from 7 to 90 seconds.</li> </ul> </li> <li>• <b>port</b>—Specifies targeted interface. <ul style="list-style-type: none"> <li>◦ <i>port number</i>—Specifies number of the selected port.</li> </ul> </li> </ul>

	Command or Action	Purpose
<b>Step 5</b>	<b>setIntfUDLDConfig review</b>  <b>Example:</b> Switch(config-controller-UDLDPortType) # setIntfUDLDConfig review	(Optional) Displays the configuration.
<b>Step 6</b>	<b>setIntfUDLDConfig commit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType) # setIntfUDLDConfig commit	Sends the configuration to NID.
<b>Step 7</b>	<b>exit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType) # exit	Exits to the config-controller mode.

### Configuration Example

- The example shows how to disable UDLD on a specific port in an aggressive mode:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# UDLDPortType
Switch(config-controller-UDLDPortType) # setIntfUDLDConfig udldInterfaceConfig port 3
Switch(config-controller-UDLDPortType) # setIntfUDLDConfig udldInterfaceConfig mode
aggressive disable
Switch(config-controller-UDLDPortType) # setIntfUDLDConfig review
```

Commands in queue:

```
setIntfUDLDConfig udldInterfaceConfig port 3
setIntfUDLDConfig udldInterfaceConfig mode aggressive disable
```

```
Switch(config-controller-UDLDPortType) # setIntfUDLDConfig commit
```

```
SetIntfUDLDConfig Commit Success!!!
```

```
Switch(config-controller-UDLDPortType) # exit
```

This disables UDLD in an aggressive mode on port 3 of ME 1200 NID.



## Getting Current Global UDLD Values

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>controller nid 1/NID_ID</b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.
<b>Step 3</b>	<b>UDLDPortType</b>  <b>Example:</b> Switch(config-controller)# UDLDPortType	Enters the UDLD mode.
<b>Step 4</b>	<b>getGlobalUDLDConfReq</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# getGlobalUDLDConfig getGlobalUDLDConfReq	Enters UDLD global configuration mode.
<b>Step 5</b>	<b>getGlobalUDLDConfig review</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# getGlobalUDLDConfig review	(Optional) Displays the configuration.
<b>Step 6</b>	<b>getGlobalUDLDConfig commit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# getGlobalUDLDConfig commit	Sends the configuration to NID.
<b>Step 7</b>	<b>exit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# exit	Exits to the config-controller mode.

### Configuration Example

- The example shows how to get current global UDLD values:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# UDLDPortType
Switch(config-controller-UDLDPortType)# getGlobalUDLDConfig getGlobalUDLDConfReq
Switch(config-controller-UDLDPortType)# getGlobalUDLDConfig review
```

```
Commands in queue:
  getGlobalUDLDConfig getGlobalUDLDConfReq
```

```
Switch(config-controller-UDLDPortType)# getGlobalUDLDConfig commit
```

```
GetGlobalUDLDConfig_Output.udldGlobalConfig.mode.t = 1
GetGlobalUDLDConfig_Output.udldGlobalConfig.mode.u.normal = false
GetGlobalUDLDConfig_Output.udldGlobalConfig.message_interval = 7
```

```
GetGlobalUDLDConfig Commit Success!!!
```

```
Switch(config-controller-UDLDPortType)# exit
```

The following is a sample output on the NID.

```
Decoding of Request message was successful
```

```
Decoded record:
```

```
GetGlobalUDLDConfig_Input.getGlobalUDLDConfReq = '0'
```

```
Set UDLD global to defaultsEncoding of Response message was successful
```

```
Encoded record:
```

```
GetGlobalUDLDConfig_Output.udldGlobalConfig.mode.t = 1
GetGlobalUDLDConfig_Output.udldGlobalConfig.mode.u.normal = false
GetGlobalUDLDConfig_Output.udldGlobalConfig.message_interval = 7
```

```
GetGlobalUDLDConfig_Output.xmlns:ns0 =
```

```
"http://new.webservice.namespace"
```

```
GetGlobalUDLDConfig_Output.xmlns:http =
```

```
"http://schemas.xmlsoap.org/wsdl/http/"
```

```
GetGlobalUDLDConfig_Output.xmlns:mime =
```

```
"http://schemas.xmlsoap.org/wsdl/mime/"
```

```
GetGlobalUDLDConfig_Output.xmlns:soap =
```

```
"http://schemas.xmlsoap.org/wsdl/soap/"
```

```
GetGlobalUDLDConfig_Output.xmlns:soapenc =
```

```
"http://schemas.xmlsoap.org/soap/encoding/"
```

```
GetGlobalUDLDConfig_Output.xmlns:wsdl =
```

```
"http://schemas.xmlsoap.org/wsdl/"
```

## Getting Current Port Specific UDLD Values

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>controller nid 1/NID_ID</b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.

	Command or Action	Purpose
Step 3	<b>UDLDPortType</b>  <b>Example:</b> Switch(config-controller)# UDLDPortType	Enters the UDLD mode.
Step 4	<b>etGlobalUDLDConfReq</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# getIntfUDLDConfig udldPhyPort 3	Enters UDLD port specific configuration mode.
Step 5	<b>setGlobalUDLDConfig review</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# getIntfUDLDConfig review	(Optional) Displays the configuration.
Step 6	<b>setGlobalUDLDConfig commit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# getIntfUDLDConfig commit	Sends the configuration to NID.
Step 7	<b>exit</b>  <b>Example:</b> Switch(config-controller-UDLDPortType)# exit	Exits to the config-controller mode.

### Configuration Example

- The example shows how to get current port specific UDLD values when UDLD is disabled:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# UDLDPortType
Switch(config-controller-UDLDPortType)# getIntfUDLDConfig udldPhyPort 3
Switch(config-controller-UDLDPortType)# getIntfUDLDConfig review
```

```
Commands in queue:
  getIntfUDLDConfig udldPhyPort 3
```

```
Switch(config-controller-UDLDPortType)# getIntfUDLDConfig commit
```

```
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.t = 1
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.u.enable = false
GetIntfUDLDConfig_Output.udldInterfaceConfig.message_interval = 7
GetIntfUDLDConfig_Output.udldInterfaceConfig.port = 3
```

```
GetIntfUDLDConfig Commit Success!!!
```

```
Switch(config-controller-UDLDPortType)# exit
The following is a sample output on the NID.
```

```
# Decoding of Request message was successful
Decoded record:
GetIntfUDLDConfig-Input.udldPhyPort = 3
Set UDLD intf to defaultsEncoding of Response message was successful
Encoded record:
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.t = 1
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.u.enable = false
GetIntfUDLDConfig_Output.udldInterfaceConfig.message_interval = 7
GetIntfUDLDConfig_Output.udldInterfaceConfig.port = 3
GetIntfUDLDConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetIntfUDLDConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetIntfUDLDConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetIntfUDLDConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetIntfUDLDConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetIntfUDLDConfig_Output.xmlns:wSDL =
"http://schemas.xmlsoap.org/wsdl/"
```

- The example shows how to get current port specific UDLD values when UDLD is enabled:

```
Switch(config)# controller nid 1/1
Switch(config-controller)# UDLDPortType
Switch(config-controller-UDLDPortType)# getIntfUDLDConfig udldPhyPort 3
Switch(config-controller-UDLDPortType)# getIntfUDLDConfig review
```

```
Commands in queue:
    getIntfUDLDConfig udldPhyPort 3
```

```
Switch(config-controller-UDLDPortType)# getIntfUDLDConfig commit
```

```
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.t = 1
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.u.enable = true
GetIntfUDLDConfig_Output.udldInterfaceConfig.message_interval = 7
GetIntfUDLDConfig_Output.udldInterfaceConfig.port = 3
```

```
GetIntfUDLDConfig Commit Success!!!
```

```
Switch(config-controller-UDLDPortType)# exit
```

The following is a sample output on the NID.

```
# Decoding of Request message was successful
Decoded record:
GetIntfUDLDConfig-Input.udldPhyPort = 3

Set UDLD intf to defaultsEncoding of Response message was successful
Encoded record:
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.t = 1
GetIntfUDLDConfig_Output.udldInterfaceConfig.mode.u.enable = true
GetIntfUDLDConfig_Output.udldInterfaceConfig.message_interval = 7
GetIntfUDLDConfig_Output.udldInterfaceConfig.port = 3
GetIntfUDLDConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetIntfUDLDConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetIntfUDLDConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
```

```
GetIntfUDLDConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetIntfUDLDConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetIntfUDLDConfig_Output.xmlns:wSDL =
"http://schemas.xmlsoap.org/wsdl/"
```

## Verifying UDLD

Use the following command to verify the UDLD status on the controller.

- **showUDLDStatusReq**

This command displays the UDLD configuration status on the NID. The following is a sample output from the command:

```
Switch(config-controller-UDLDPortType)# showUDLDStatus showUDLDStatusReq
Switch(config-controller-UDLDPortType)# showUDLDStatus review
```

```
Commands in queue:
      showUDLDStatus showUDLDStatusReq
```

```
Switch(config-controller-UDLDPortType)# showUDLDStatus commit
```

```
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].port = 1
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].mode =
'Disable'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].messageInterval
= 7
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].adminState
= false
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].localDeviceId
= 'B8-38-61-68-7B-BC'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].localDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].bidirState
= 'Indeterminant'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].nbrPortID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].nbrDeviceID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].nbrDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[0].nbrLinkState
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].port = 2
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].mode =
'Disable'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].messageInterval
= 7
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].adminState
= false
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].localDeviceId
= 'B8-38-61-68-7B-BC'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].localDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].bidirState
```

```
= 'Indeterminant'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].nbrPortID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].nbrDeviceID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].nbrDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[1].nbrLinkState
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].port = 3
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].mode =
'Normal'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].messageInterval
= 10
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].adminState
= true
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].localDeviceId
= 'B8-38-61-68-7B-BC'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].localDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].bidirState
= 'Indeterminant'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].nbrPortID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].nbrDeviceID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].nbrDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[2].nbrLinkState
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].port = 4
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].mode =
'Normal'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].messageInterval
= 10
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].adminState
= true
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].localDeviceId
= 'B8-38-61-68-7B-BC'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].localDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].bidirState
= 'Indeterminant'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].nbrPortID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].nbrDeviceID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].nbrDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[3].nbrLinkState
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].port = 5
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].mode =
'Normal'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].messageInterval
= 10
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].adminState
= true
```

```

ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].localDeviceId
= 'B8-38-61-68-7B-BC'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].localDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].bidirState
= 'Indeterminant'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].nbrPortID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].nbrDeviceID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].nbrDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[4].nbrLinkState
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].port = 6
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].mode =
'Disable'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].messageInterval
= 7
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].adminState
= false
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].localDeviceId
= 'B8-38-61-68-7B-BC'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].localDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].bidirState
= 'Indeterminant'
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].nbrPortID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].nbrDeviceID
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].nbrDeviceName
= ''
ShowUDLDStatus_Output.showUDLDStatusResp.udldStatusList[5].nbrLinkState
= ''

```

## Additional References

### Related Documents

Related Topic	Document Title
Cisco ME 3800x and ME 3600x Switches Software Configuration Guide, Cisco IOS Release 15.4(1)S	<a href="http://www.cisco.com/c/en/us/td/docs/switches/metro/me3600x_3800x/software/release/15-4_1_S/configuration/guide/3800x3600xscg.html">http://www.cisco.com/c/en/us/td/docs/switches/metro/me3600x_3800x/software/release/15-4_1_S/configuration/guide/3800x3600xscg.html</a>

**MIBs**

MIB	MIBs Link
MIBs Supporting Cisco IOS	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a>

**Technical Assistance**

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<a href="http://www.cisco.com/support">http://www.cisco.com/support</a>