



# Dialer Watch Connect Delay

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## Feature History

Release	Modification
12.2(8)T	This feature was introduced.

This document describes the Dialer Watch Connect Delay feature in Cisco IOS Release 12.2(8)T and includes the following sections:

- [Feature Overview, page 1](#)
- [Supported Platforms, page 2](#)
- [Supported Standards, MIBs, and RFCs, page 3](#)
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- [Verifying Dialer Watch Connect Delay Configuration](#)
- [Configuration Examples, page 5](#)
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## Feature Overview

The Dialer Watch Connect Delay feature introduces the ability to configure a delay in bringing up a secondary link when a primary link that is monitored by Dialer Watch goes down and is removed from the routing table. Previously, the router would instantly dial a secondary route without allowing time for the primary route to come back up. When the Dialer Watch Connect Delay feature is configured, the router will check for availability of the primary link at the end of the specified delay time before dialing the secondary link.

## Benefits

The Dialer Watch Connect Delay feature allows users greater control over the use of a secondary link on monitored IP addresses or networks. Configuring the router to delay bringing up a secondary link when the watched primary link goes down will allow time for the primary link to be restored in the event of a temporary outage.

## Related Documents

- The part “Dial-on-Demand Routing Configuration” in the *Cisco IOS Dial Technologies Configuration Guide*, Release 12.2.
- The chapter “Configuring Dial Backup Using Dialer Watch” in the *Cisco IOS Dial Technologies Configuration Guide*, Release 12.2.
- *Cisco IOS Dial Technologies Command Reference*, Release 12.2

## Supported Platforms

- Cisco 805
- Cisco 806
- Cisco 820
- Cisco 827
- Cisco 828
- Cisco 1600 series
- Cisco 1700
- Cisco 1710
- Cisco 2600 series
- Cisco 3640
- Cisco 3660
- Cisco 7100
- Cisco 7200
- Cisco 7500
- soho 78
- mc3810
- C6MSFC2

### Determining Platform Support Through Cisco Feature Navigator

Cisco IOS software is packaged in feature sets that support specific platforms. To get updated information regarding platform support for this feature, access Cisco Feature Navigator. Cisco Feature Navigator dynamically updates the list of supported platforms as new platform support is added for the feature.

Cisco Feature Navigator is a web-based tool that enables you to quickly determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image. You can search by feature or release. Under the release section, you can compare releases side by side to display both the features unique to each software release and the features in common.

To access Cisco Feature Navigator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to [cco-locksmith@cisco.com](mailto:cco-locksmith@cisco.com). An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions at <http://www.cisco.com/register>.

Cisco Feature Navigator is updated regularly when major Cisco IOS software releases and technology releases occur. For the most current information, go to the Cisco Feature Navigator home page at the following URL:

<http://www.cisco.com/go/fn>

## Supported Standards, MIBs, and RFCs

### Standards

No new or modified standards are supported by this feature.

### MIBs

No new or modified MIBs are supported by this feature.

To obtain lists of supported MIBs by platform and Cisco IOS release, and to download MIB modules, go to the Cisco MIB website on Cisco.com at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/ctmk/mibs.shtml>

### RFCs

No new or modified RFCs are supported by this feature.

## Prerequisites

Dial-on-Demand routing (DDR) must be configured and Dialer Watch must be enabled. For more information on configuring DDR, refer to the following documents:

- The part “Dial-on-Demand Routing Configuration” in the *Cisco IOS Dial Technologies Configuration Guide*, Release 12.2.
- The chapter “Configuring Dial Backup Using Dialer Watch” in the *Cisco IOS Dial Technologies Configuration Guide*, Release 12.2.

## Configuration Tasks

See the following sections for configuration tasks for the Dialer Watch Connect Delay feature. Each task in the list is identified as either required or optional.

- [Configuring a Delay Before Activating a Secondary Link](#) (required)
- [Configuring a Delay Before Disconnecting the Secondary Link](#) (optional)

## Configuring a Delay Before Activating a Secondary Link

To configure the router to delay before dialing a secondary link when the primary link goes down, use the following command in global configuration mode:

Command	Purpose
<pre>Router(config)# <b>dialer watch-list</b> <i>group-number</i> <b>delay connect</b> <i>connect-time</i></pre>	<p>Configures a delay in dialing the secondary link when the primary link becomes unavailable.</p> <ul style="list-style-type: none"> <li>The <b>delay connect</b> keyword phrase specifies that the router will delay dialing the secondary link when the primary link becomes unavailable.</li> <li>The <i>connect-time</i> argument specifies the time, in seconds, after which the router rechecks for availability of the primary link. If the primary link is still unavailable, the secondary link is then dialed. Valid times range from 1 to 2147483.</li> </ul>

## Configuring a Delay Before Disconnecting the Secondary Link

To configure the router to delay before disconnecting a secondary link when the primary link is reestablished, use the following command in global configuration mode:

Command	Purpose
<pre>Router(config)# <b>dialer watch-list</b> <i>group-number</i> <b>delay disconnect</b> <i>disconnect-time</i></pre>	<p>Configures a delay in disconnecting the secondary link after detecting availability of the primary link.</p> <ul style="list-style-type: none"> <li>The <b>delay disconnect</b> keyword phrase specifies that the router will delay disconnecting the secondary link after detecting availability of the primary link.</li> <li>The <i>disconnect-time</i> argument specifies the time, in seconds, after which the router disconnects the secondary link once the primary link has been detected. Valid times range from 1 to 2147483.</li> </ul>

## Verifying Dialer Watch Connect Delay Configuration

To verify the configuration for the Dialer Watch Connect Delay feature, perform the following steps:

- Step 1** Enter the **show running-config** command to verify the configuration of Dialer Watch connect and disconnect delays:

```
router# show running-config

dialer watch-list 1 ip 10.1.1.1 255.0.0.0
dialer watch-list 1 delay connect 20
dialer watch-list 1 delay disconnect 20
dialer-list 1 protocol ip permit
```

**Step 2** Enter the **debug dialer** command:

```
router# debug dialer
```

```
Connect Delay
```

```
-----
*Mar 1 04:29:16:DDR:Dialer Watch:watch-group = 1
*Mar 1 04:29:16:DDR: network 5.0.0.0/255.0.0.0 DOWN,
*Mar 1 04:29:16:DDR: network 4.0.0.0/255.0.0.0 DOWN,
*Mar 1 04:29:16:DDR: network 3.0.0.0/255.0.0.0 DOWN,
*Mar 1 04:29:16:DDR: primary DOWN
*Mar 1 04:29:16:DDR:Dialer Watch: Primary of group 1 DOWN - start dial-backup timer
```

```
Disconnect delay
```

```
-----
*Mar 1 04:31:11:BR2/0:1 DDR:idle timeout
*Mar 1 04:31:11:DDR:Dialer Watch:watch-group = 1
*Mar 1 04:31:11:DDR: network 5.0.0.0/255.0.0.0 UP,
*Mar 1 04:31:11:DDR: primary UP
*Mar 1 04:31:11:BR2/0:1 DDR:starting watch disconnect timer
*Mar 1 04:31:46:BR2/0:1 DDR:watch disconnect timeout
*Mar 1 04:31:46:DDR:Dialer Watch:watch-group = 1
*Mar 1 04:31:46:DDR: network 5.0.0.0/255.0.0.0 UP,
*Mar 1 04:31:46:DDR: primary UP
```

## Configuration Examples

This section provides the following configuration examples:

- [Configuring a Delay Before Activating a Secondary Link Example](#)
- [Configuring a Delay Before Disconnecting a Secondary Link Example](#)

### Configuring a Delay Before Activating a Secondary Link Example

The following example configures the router to wait 10 seconds before verifying that the primary link is still down and dialing a secondary link:

```
dialer watch-list 1 ip 10.1.1.0 255.255.255.0
dialer watch-list 1 delay connect 10
```

### Configuring a Delay Before Disconnecting a Secondary Link Example

The following example configures the router to wait 10 seconds to disconnect a secondary link once the primary link has been reestablished:

```
dialer watch-list 1 ip 10.1.1.0 255.255.255.0
dialer watch-list 1 delay disconnect 10
```

# Command Reference

This section documents the new **dialer watch-list delay** command. All other commands used with this feature are documented in the Cisco IOS Release 12.2 command reference publications.

# dialer watch-list delay

To configure the router to delay before connecting or disconnecting a secondary link for a route monitored by Dialer Watch, use the **dialer watch-list delay** command in global configuration mode. To disable these delays, use the **no** form of this command.

```
dialer watch-list group-number delay { connect connect-time | disconnect disconnect-time }
```

```
no dialer watch-list group-number delay { connect connect-time | disconnect disconnect-time }
```

## Syntax Description

<i>group-number</i>	Group number assigned to the list. Valid group numbers are from 1 to 255.
<b>connect</b>	Specifies that the router will delay dialing the secondary link when the primary link becomes unavailable.
<i>connect-time</i>	Time, in seconds, after which the router rechecks for availability of the primary link. If the primary link is still unavailable, the secondary link is then dialed. Valid times range from 1 to 2147483.
<b>disconnect</b>	Specifies that the router will delay disconnecting the secondary link after detecting availability of the primary link.
<i>disconnect-time</i>	Time, in seconds, after which the router disconnects the secondary link once the primary link has been detected. Valid times range from 1 to 2147483.

## Defaults

No delay is configured.

## Command Modes

Global configuration

## Command History

Release	Modification
12.2(8)T	This command was introduced.

## Usage Guidelines

Use this command to configure a delay before connecting or disconnecting a secondary link for a route monitored by Dialer Watch. This command will not work unless dial-on-demand routing (DDR) is configured and Dialer Watch has been enabled.

## Examples

The following example configures the router to wait 10 seconds before verifying that the primary link is still down and dialing a secondary link:

```
dialer watch-list 1 ip 10.1.1.0 255.255.255.0
dialer watch-list 1 delay connect 10
```

The following example configures the router to wait 10 seconds to disconnect a secondary link once the primary link has been reestablished:

```
dialer watch-list 1 ip 10.1.1.0 255.255.255.0
dialer watch-list 1 delay disconnect 10
```

Related Commands	Command	Description
	<b>dialer watch-group</b>	Enables DDR backup on an interface using Dialer Watch.
	<b>dialer watch-list</b>	Adds the list of IP addresses to be monitored for Dialer Watch.