

Configuring Dial Backup with Dialer Profiles

This chapter describes how to configure dialer interfaces, which can be configured as the logical intermediary between one or more physical interfaces and another physical interface that is to function as backup.

For a complete description of the dial backup commands in this chapter, refer to the *Dial Solutions Command Reference*. To locate documentation of other commands that appear in this chapter, use the command reference master index or search online.

Dialer interfaces can be configured to use a specific dialing pool; in turn physical interfaces can be configured to belong to the same dialing pool.

To configure a dialer interface and a specific physical interface to function as backup to other physical interfaces, perform the tasks in the following sections:

- Configure a Dialer Interface
- Configure a Physical Interface to Function as Backup
- Configure Interfaces to Use a Backup Interface

See the “Dialer Profile for ISDN BRI Backing Up Two Leased Lines Example” for a comprehensive backup example using Dialer Profiles. In this example, one BRI functions as backup to two serial lines and can make calls to two different destinations.

Configure a Dialer Interface

To configure the dialer interface that will be used as an intermediary between a physical interface that will function as backup interface and the interfaces that will use the backup, use the following commands beginning in global configuration mode:

Step	Command	Purpose
1	interface dialer <i>number</i>	Create a dialer interface.
2	ip unnumbered loopback0	Specify IP unnumbered loopback.
3	encapsulation ppp	Specify PPP encapsulation.
4	dialer remote-name <i>username</i>	Specify the remote router’s CHAP authentication name.
5	dialer string <i>dial-string</i>	Specify the remote destination to call.
6	dialer pool <i>number</i>	Specify the dialing pool to use for calls to this destination.
7	dialer-group <i>group-number</i>	Assign the dialer interface to a dialer group.

Configure a Physical Interface to Function as Backup

To configure the physical interface that is to function as backup, use the following commands beginning in global configuration mode:

Step	Command	Purpose
1	interface <i>type number</i>	Specify the interface.
2	encapsulation ppp	Specify PPP encapsulation.
3	dialer pool-member <i>number</i>	Make the interface a member of the dialing pool that the dialer interface will use; make sure the <i>number</i> arguments have the same value.
4	ppp authentication chap	Specify CHAP authentication.

Configure Interfaces to Use a Backup Interface

To configure one or more interfaces to use a backup interface, use the following commands beginning in global configuration mode:

Step	Command	Purpose
1	interface <i>type number</i>	Specify the interface to be backed up.
2	ip unnumbered loopback0	Specify IP unnumbered loopback.
3	backup interface dialer <i>number</i>	Specify the backup interface.
4	backup delay <i>enable-delay</i> <i>disable-delay</i>	Specify delay between the physical interface going down and the backup being enabled, and between the physical interface coming back up and the backup being disabled.

Dialer Profile for ISDN BRI Backing Up Two Leased Lines Example

The following example shows the configuration of a site that backs up two leased lines using one BRI. Two dialer interfaces are defined. Each serial (leased line) interface is configured to use one of the dialer interfaces as a backup. Both of the dialer interfaces use dialer pool 1, which has physical interface BRI 0 as a member. Thus, physical interface BRI 0 can back up two different serial interfaces and can make calls to two different sites.

```
interface dialer0
  ip unnumbered loopback0
  encapsulation ppp
  dialer remote-name Remote0
  dialer pool 1
  dialer string 5551212
  dialer-group 1

interface dialer1
  ip unnumbered loopback0
  encapsulation ppp
  dialer remote-name Remote1
  dialer pool 1
  dialer string 5551234
  dialer-group 1

interface bri 0
  encapsulation PPP
  dialer pool-member 1
  ppp authentication chap

interface serial 0
  ip unnumbered loopback0
  backup interface dialer 0
  backup delay 5 10

interface serial 1
  ip unnumbered loopback0
  backup interface dialer1
  backup delay 5 10
```

