

**Name**

Libra Shutdown Menu

**Version**

1.00

**Description and Usage**

The Libra Shutdown Menu provides direct control over the Libra transmission state using a simple dialup menu. It is intended for use by Satellite service providers who may need to disable transmission independently from the network operators.

This manual describes how to use the Libra Shutdown Menu from a remote computer. Libra system operators should see the section entitled "Dialup shutdown", which explains how to configure the program.

Controlling Libra transmission using the Libra Shutdown Menu involves 3 simple steps:

1. dial in to the Libra Shutdown Menu using any standard terminal emulation program
2. select the network to be controlled from the menu provided
3. select an action from the menu provided (disable or enable transmission, or query state)

Steps 2 and 3 may be repeated any number of times before exiting the program.

**Dialing In**

To use this program, you need a modem and driver installed on a serial port on your computer.

Using a standard terminal emulator such as ZOC or HyperTerminal, set the options as follows:

1. port = the port to which your modem is connected
2. baud rate = 9600 (or other value specified by the Libra system operator)
3. data bits, parity, stop bits = 8 - N - 1

Using the program, dial in to the number provided by the Libra system operator.

**Select a Network**

When you have connected, you will see a simple menu which allows you to select which network to control. If the Libra operator has only one network (i.e. one authorized transmission frequency), the network will contain only one item. Enter a number to select a network, or enter 'X' to exit. After you select a network, you will be prompted to enter a password which authorizes you to control this network.

**Select an Action**

After selecting a network and entering an authorized password, you will see the action menu, which allows you to select one of three actions:

1. disable transmission on this network
2. enable transmission on this network
3. query if transmission is currently enabled or disabled on this network

Enter a number to select an action, or enter 'X' to return to the top-level menu.

**Exiting the Menu**

To quit the program, enter 'X' to leave the action menu and return to the network-selection menu, then enter 'X' again to exit the program.

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**Name**

DIALUP - Libra Dialup Shutdown Facility

**Version**

1.01

**Description and Usage**

Libra Dialup Shutdown Facility provides direct control over the Libra transmission state using a simple dialup menu. It is intended for use by Satellite service providers who may need to disable transmission independently from the network operators.

This manual describes the general operation of the Libra Dialup Shutdown Facility, and also describes how to configure it for a specific installation.

The heart of the Libra Dialup Shutdown Facility is a single program, DIALUP.EXE, which listens for incoming calls on a modem then provides the dialup client with a simple menu. The menu has two levels:

1. a top-level menu which allows the user to select which network (i.e. which Carina hub) to control, and
2. an action menu which allows the user to disable or enable transmission on the selected network, or query the current state of the network (enabled or disabled).

When the user selects an action from the action menu, DIALUP forwards the request to the appropriate Carina hub via TCP/IP, and reports the result to the dialup client. The user can make several action requests during a session. When the user exits the program, DIALUP will listen for another call. DIALUP can handle only one connection at a time.

**Installation**

DIALUP should be installed on the NaqsServer machine or on some other Windows NT machine on the same LAN as the Carina hub. The machine must have:

1. a modem and driver properly installed on a serial port
2. a direct IP connection to the Carina hub

To install a modem driver in Windows NT, double click on the *Modems* icon in the control panel, then follow the instructions. You might need the Windows NT CD-ROM or another disk containing the driver.

**Configuration**

DIALUP is configured using an INI file, shutdown.ini, which should exist in the working directory (normally c:\nmx\user). The primary purpose of the inifile is to define the name, IP address and access password for each Carina hub to be controlled. The inifile must contain the following sections:

[ shutdown.ini ]

This section has no parameters, but serves as a title for the ini file.

[ ShutDownControl ]

This section contains general configuration parameters for the program:

NumHubs:           the number of hubs controlled by this program (up to 4)  
Baudrate:           the baud rate for the dialup client (currently unused; this is defined in the Windows modem setup)  
Greeting:           the title to appear at the top of the station-selection screen  
Port:                the COM port to which the modem is connected.

[ Hub ] or [ Hub 1 ]

This section contains specific configuration parameters for one hub. There should be one section for each hub controlled. If there is only one hub to be controlled, the section title should be simply

[ Hub ]. If there is more than one hub, the name of each section (including the first) must include its number, i.e. [ Hub 1 ], [ Hub 2 ], etc. Each hub section must contain the following parameters:

Name: a descriptive name for this hub. This name is displayed in the network-selection menu, and at the top of the action menu for this hub. This field should include both a name and some extra descriptive information such as the network transmission frequency.

InetAddress the Internet address of this hub in dotted decimal format

UserName the username for messages sent to the Carina hub. This allows Carina to log the source of a shutdown message.

Password the access password for transmission control of this hub

*Note: the dialup interface can be largely internationalized by specifying the greeting message and the hub names in the local language.*

### Example

The following is an example ini file suitable for controlling one hubs:

```
[ shutdown.ini ]
[ ShutDownControl ]
  NumHubs = 1
  Baudrate = 9600
  Greeting = Welcome to ICC Satellite Control Facility
  Port = COM1
[ Hub ]
  Name = Barcelona Seismic Network   Transmit frequency 14050.100 MHz
  InetAddress = 199.71.138.22
  UserName = control
  Password = control
```

### Starting from Watchdog

DIALUP can be started from the command line or from the Nanometrics Watchdog program. It should normally be started from watchdog, to ensure that it is restarted whenever it is stopped for any reason. This can be done by adding the following section to the Watchdog.ini file:

```
[ WatchEntry ]
  ProgramTitle = "Remote Dialup Shutdown Daemon"
  ProgramPathname = "shutdown.exe"
  WorkingDirectory = "c:\nmx\user"
  ExitAction = Restart
  PingsSemaphore = FALSE
  StartDelay = 6s
  SessionType = Default
  ScreenDisplay = Default
  InitXPos = 0
  InitYPos = 0
  InitXSize = 0
  InitYSize = 0
```

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