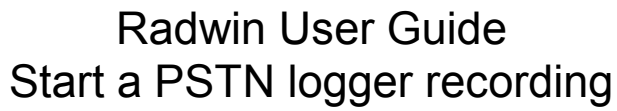




## **Radwin**

### **Start a PSTN logger recording**



Keep this record in the front of the User Manual. When the document has been amended write the amendment number, the date, the paragraph numbers affected by the amendment and your initials in the table below.

	Start a PSTN logger recording ©Radcom (Technologies) Ltd	Page 2 of 22
--	---	--------------

### Contents

Introduction	4
Using Radwin Wizards	5
Setting Up a Database	6
Wizard Icons	8
Using Configure Logger Wizard – Logger Directly Connected	9
Downloading Parameter Settings	9
Set a Zone and Location	11
Future communication method	14
Autocall Configuration	15
General Channel Configuration	15
Flow Channel Configuration	16
General Channel Configuration Continued	17
Sample Rate	17
Recording Start / Stop time	18
Upload	18
Using Configure Logger Wizard – Logger Connection via Phone Line	19
Downloading Parameter Settings	19
Start Other Radwin Programs	22



# Radwin User Guide

## Start a PSTN logger recording

### Introduction

This guide will help you configure a Radcom PSTN data logger so that it records in the way you need it to.

Recording parameters can be uploaded with Radwin Lite, Radwin Manual Call or Radwin View.

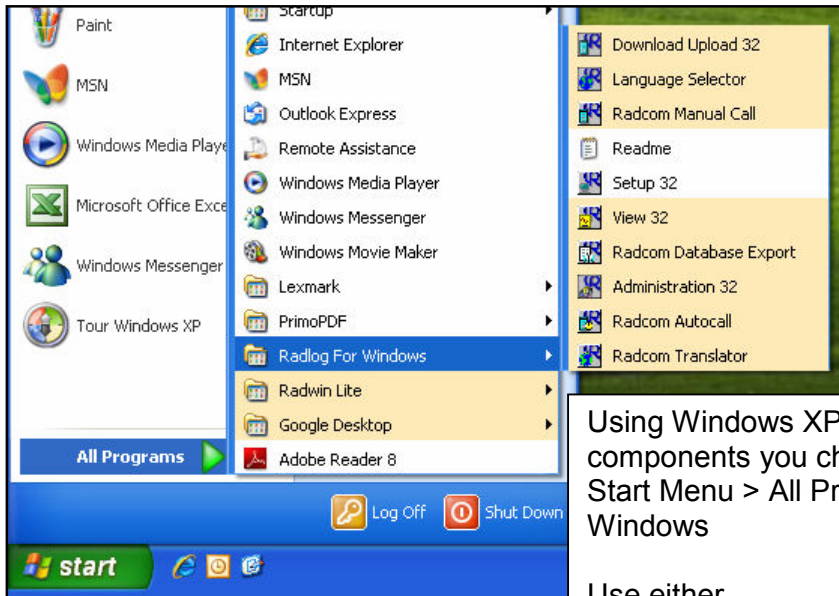
All three applications have easy to use Wizards which guide you step by step through the configuration process.

To configure the logger without using a Wizard use Manual Call Advanced Download Upload Utilities.

# Radwin User Guide

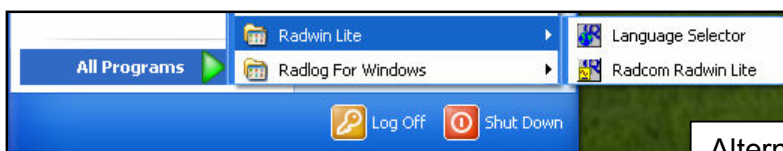
## Start a PSTN logger recording

### Using Radwin Wizards



Using Windows XP you will find the Radwin components you chose to install on the Start Menu > All Programs > Radlog for Windows

Use either  
Radcom Manual Call  
or  
View32



Alternatively use Radwin Lite which is also on the Start Menu



A window similar to this will appear on the screen.

Wait a couple of seconds and it will disappear, or click Cancel to remove it from the screen more quickly.

Continued...

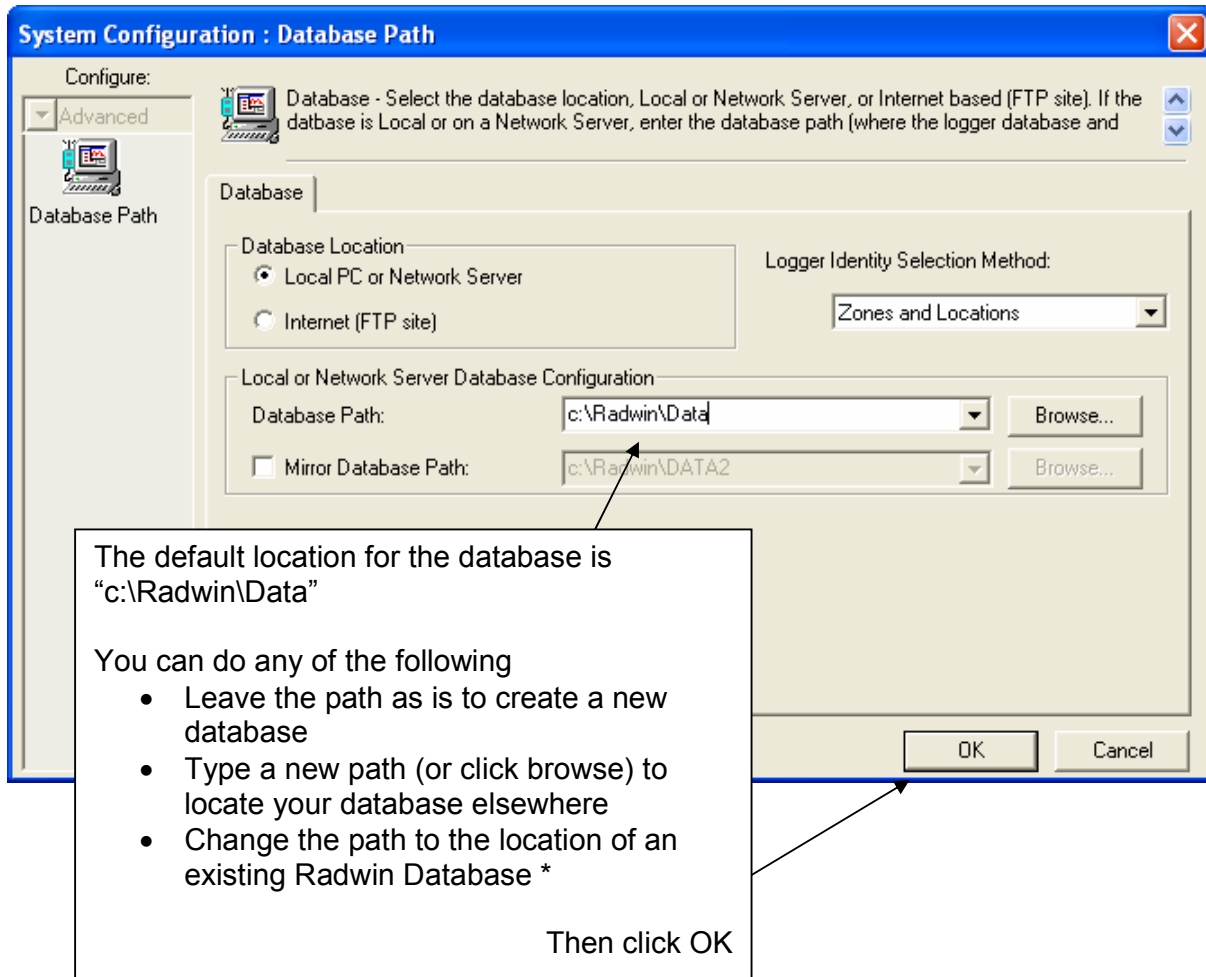
# Radwin User Guide

## Start a PSTN logger recording

### Setting Up a Database

If a database has been setup for Radwin then the application will be ready to use, and none of the steps below will be required.

If you have not run Radwin on this PC before, or if the database has moved you will see this screen.



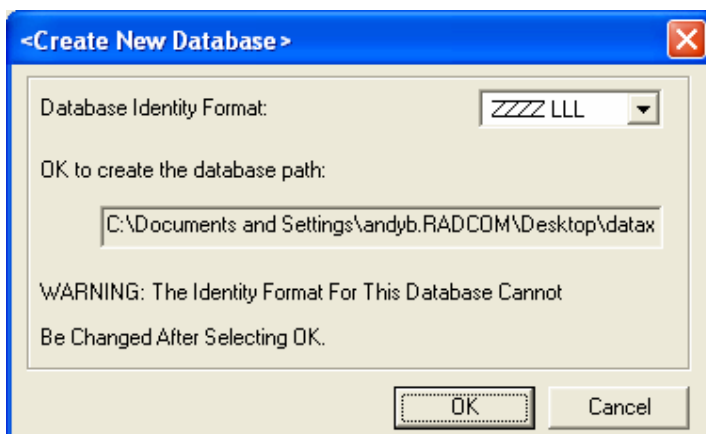
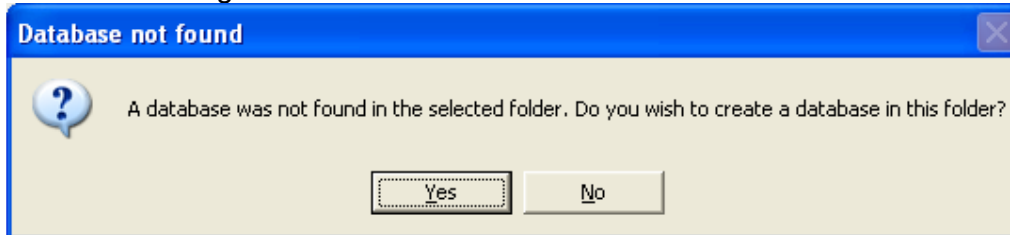
\*If you change the path to an existing database then the system configuration screen will close (after you click ok) and the application will be ready to use.

Continued...

## Radwin User Guide

### Start a PSTN logger recording

If you choose to change the path to a new location (without any Radwin database files) then this message will confirm that a new database will be created.



The default database identity format is fine in the majority of cases.

**If you change it, then it can not be changed afterwards.**

Radcom recommends keeping the default format (ZZZZ LLL) unless you have been advised that you will need a different format.

Click OK

After clicking OK the database files will be created and application will be ready to use.

# Radwin User Guide

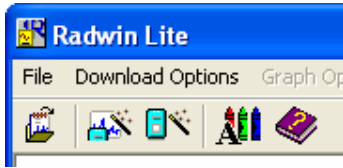
## Start a PSTN logger recording

### Wizard Icons

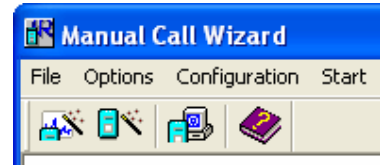
Radcom View



Radwin Lite



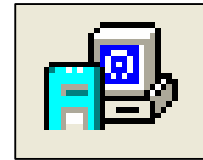
Manual Call Wizard



All three applications share the same wizard icons.  
On the left – Download Data Wizard  
On the right – Configure Logger Wizard



Manual Call also has an icon for  
Advanced Download / Upload /  
Utilities





# Radwin User Guide

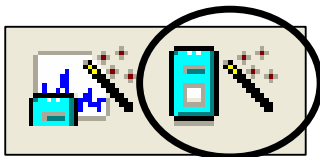
## Start a PSTN logger recording

### ***Using Configure Logger Wizard – Logger Directly Connected***

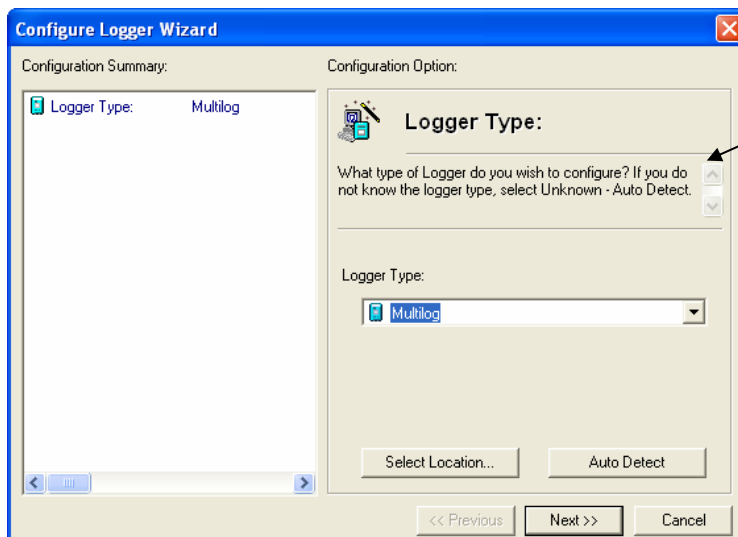
These instructions will explain how to configure a logger directly connected to your PC. It is possible to configure / re-configure a logger which is installed and connected to a telephone line. Instructions for this are in the second part of this manual.

### **Downloading Parameter Settings**

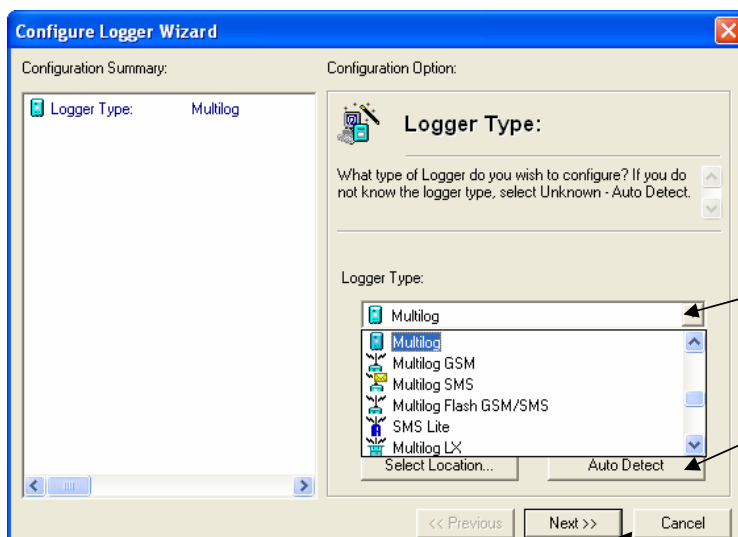
Connect the logger to the computer using the appropriate communication cable.



Click the Configure Logger Wizard icon



All the way through the configuration process there are instructions to help you here...

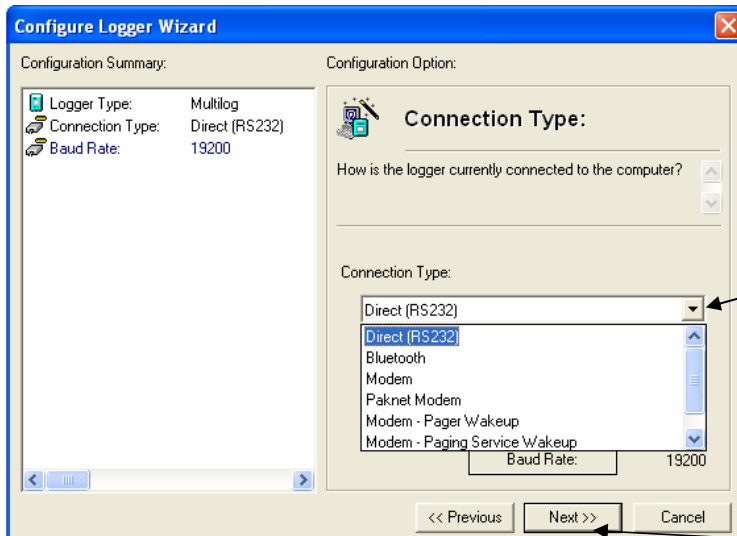


Use the dropdown menu to select the logger you have connected. For Multilog PSTN select Multilog.

Click Next

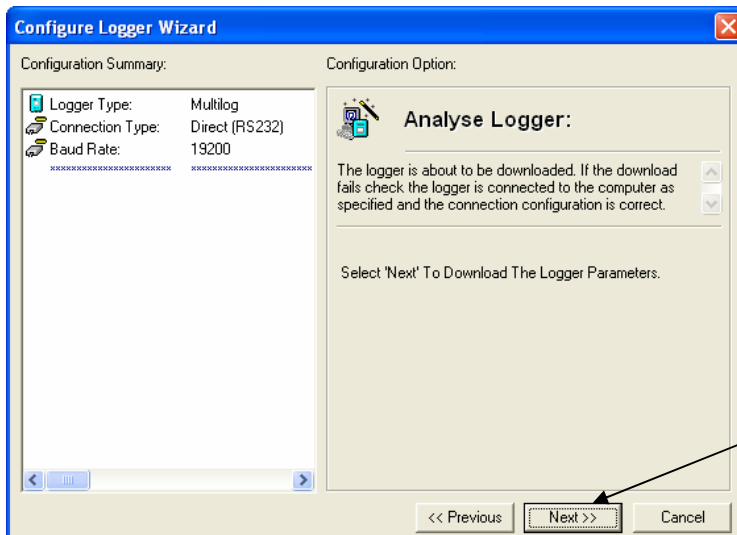
# Radwin User Guide

## Start a PSTN logger recording

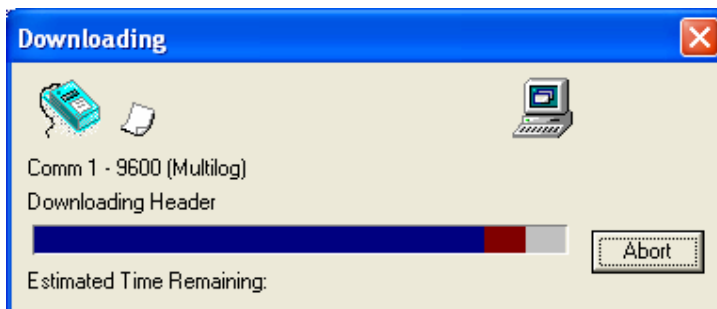


Use the dropdown menu to select the connection type. i.e. Direct

Click Next



Click Next to download the current logger parameters

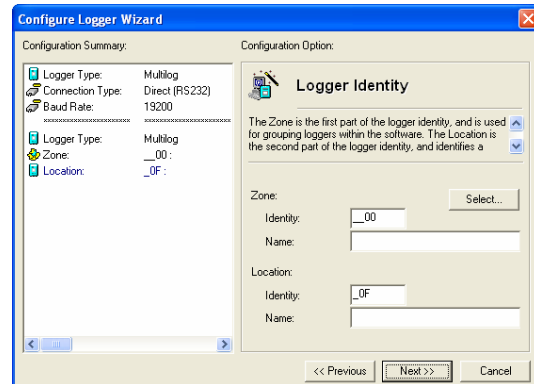


# Radwin User Guide

## Start a PSTN logger recording

The current recording parameters have now been downloaded from the logger.

As you step through the wizard, information about the settings in the logger will build up on the left.



### Set a Zone and Location

Zone:

Identity:

Name:

Location:

Identity:

Name:

The Zone is the first part of the logger identity, and is used for grouping loggers within the software.

The Location is the second part of the logger identity, and identifies a logger within a Zone.

To create a new location, enter zone and location identity numbers directly into the boxes above, along with names, and the information will be used to create a new item in your Radwin database.

To use an existing Zone and Location from within your database see the next page...

# Radwin User Guide

## Start a PSTN logger recording

Zone:

Identity:

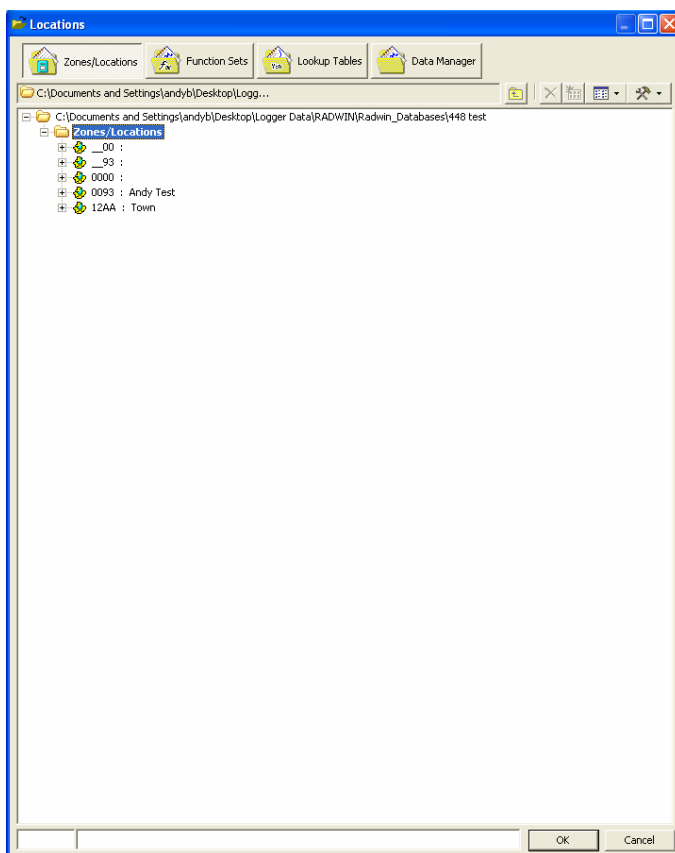
Name:

Location:

Identity:

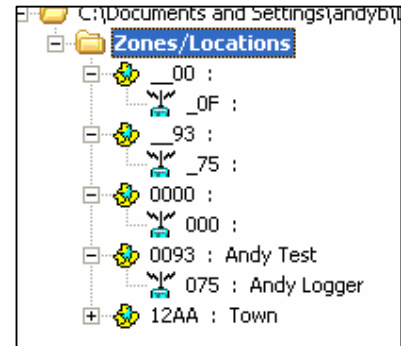
Name:

If you already have a database and you wish to use the information held within it to identify the logger click Select next to Location Identity



A list of Zones from your database will be displayed.

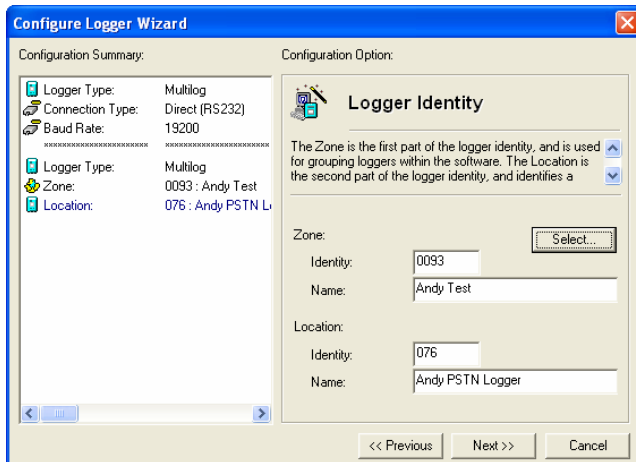
Double click a Zone or click the plus icon next to it to see the locations within.



Double click on the location you wish to use.

# Radwin User Guide

## Start a PSTN logger recording



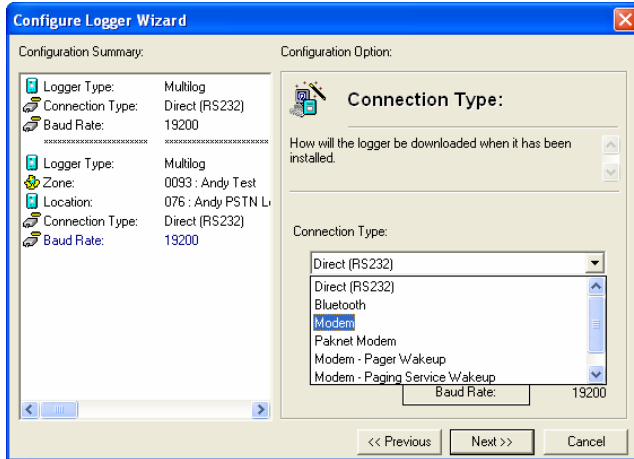
The Zone and Location information has now changed within the boxes on the right, and the information on the far left reflects this.

Click Next to continue.

# Radwin User Guide

## Start a PSTN logger recording

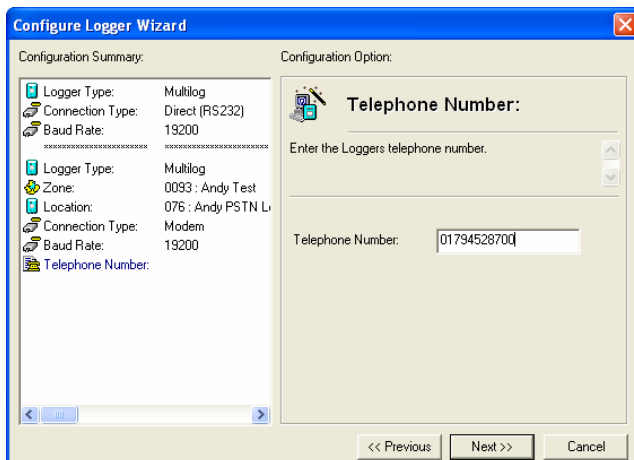
### Future communication method



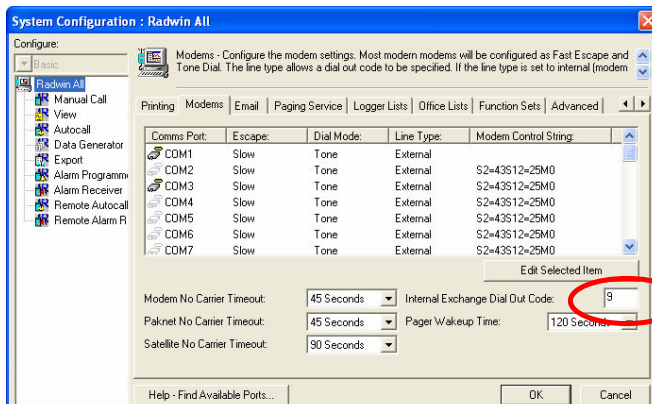
Now select from the drop down menu the method by which the logger will communicate after installation.

Select Modem

Click next to continue.



Enter the phone number of the location where the logger is to be installed. Autocall will use this number to communicate with the logger.



#### Special Note:

If your telephone system requires Autocall to dial a number (9 for example) to obtain an outside line then enter it at this stage or Radwin can put it in for you.

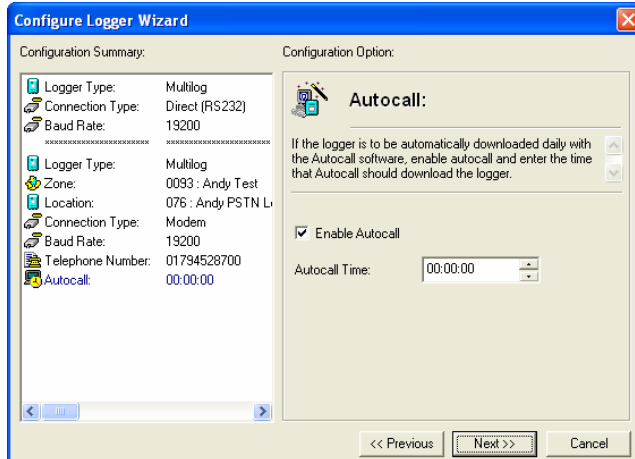
Use the Modems tab from System Configuration in Radwin Setup and enter this number in the Internal Exchange Dial Out Code box.

Each time Autocall dials a Modem logger the number will be prefixed with this number.

# Radwin User Guide

## Start a PSTN logger recording

### Autocall Configuration



**Configure Logger Wizard**

Configuration Summary:

- Logger Type: Multilog
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: 0093 : Andy Test
- Location: 076 : Andy PSTN L
- Connection Type: Modem
- Baud Rate: 19200
- Telephone Number: 01794528700
- Autocall: 00:00:00

Configuration Option:

**Autocall:**

If the logger is to be automatically downloaded daily with the Autocall software, enable autocall and enter the time that Autocall should download the logger.

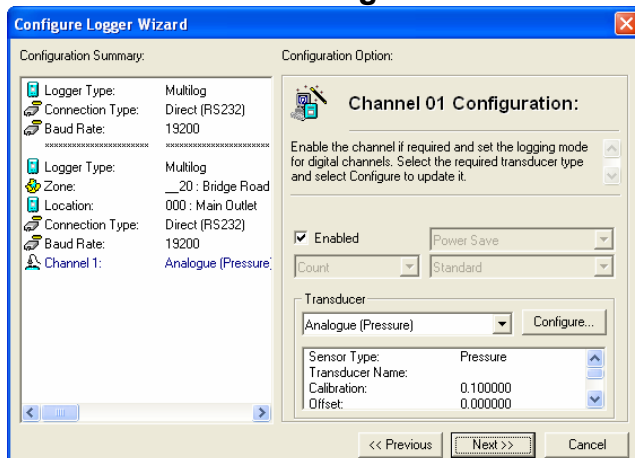
☒ Enable Autocall

Autocall Time: 00:00:00

<< Previous Next >> Cancel

The logger can be called each day with Autocall. Tick the Enable Autocall box, and then choose a time at which the logger will be called.

### General Channel Configuration



**Configure Logger Wizard**

Configuration Summary:

- Logger Type: Multilog
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: 000 : Bridge Road
- Location: 000 : Main Outlet
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Channel 1: Analogue (Pressure)

Configuration Option:

**Channel 01 Configuration:**

Enable the channel if required and set the logging mode for digital channels. Select the required transducer type and select Configure to update it.

☒ Enabled Power Save

Count Standard

Transducer: Analogue (Pressure) Configure...

Sensor Type: Pressure

Transducer Name: 0.100000

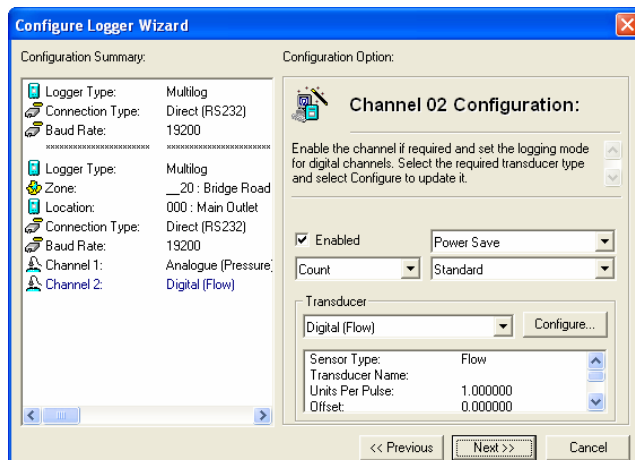
Calibration: 0.000000

Offset: 0.000000

<< Previous Next >> Cancel

Starting with Channel 1, each channel is configured individually.

Use the Enabled tick box to turn the channel on or off.



**Configure Logger Wizard**

Configuration Summary:

- Logger Type: Multilog
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: 000 : Bridge Road
- Location: 000 : Main Outlet
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Channel 1: Analogue (Pressure)
- Channel 2: Digital (Flow)

Configuration Option:

**Channel 02 Configuration:**

Enable the channel if required and set the logging mode for digital channels. Select the required transducer type and select Configure to update it.

☒ Enabled Power Save

Count Standard

Transducer: Digital (Flow) Configure...

Sensor Type: Flow

Transducer Name: 1.000000

Units Per Pulse: 0.000000

Offset: 0.000000

<< Previous Next >> Cancel

Pressure and Flow channels are configured differently.

Little in the way of configuration is required for mains pressure. Depth configuration is covered in the appendix of this manual.

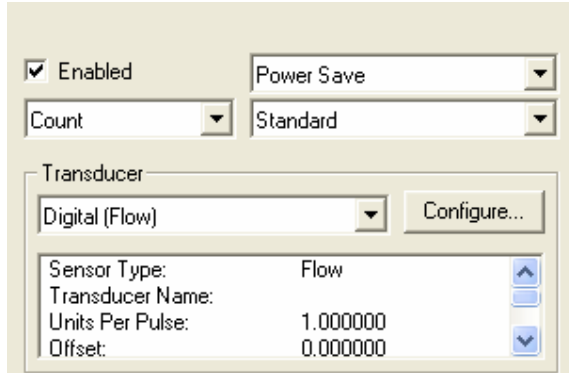
Flow transducers differ in the number of pulses per litre they provide. If an incorrect calibration value is set the data will be displayed incorrectly. This can be easily adjusted at any stage as the calibration value is held in the database not the logger – no site visit will be required.

Flow Channel Configuration next...

# Radwin User Guide

## Start a PSTN logger recording

### Flow Channel Configuration



☒ Enabled      Power Save  
 Count      Standard  
 Transducer  
 Digital (Flow)      Configure...  
 Sensor Type: Flow  
 Transducer Name:  
 Units Per Pulse: 1.000000  
 Offset: 0.000000

The logger provides power in different ways for different flow transducers.

- Power Save
- Continuous Power
- No Power

Use Power Save for HRP's  
 Use Continuous Power for Reed Switches  
 Use No Power for Reed Switches

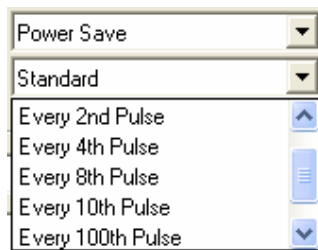
Choose between...

**Count logging** (counting pulses)

or

**Event logging** (counting the time between each pulse)

Use Event Logging for very low pulse count.



Power Save  
 Standard  
 Every 2nd Pulse  
 Every 4th Pulse  
 Every 8th Pulse  
 Every 10th Pulse  
 Every 100th Pulse

As standard the logger will count each pulse. However if you receive a very high number of pulses (more than 36 per second) you will overwhelm the logger causing it to miscount. In this case change from Standard (counting every pulse) to every 2<sup>nd</sup>, 4<sup>th</sup>, 8<sup>th</sup> or something even higher if required.

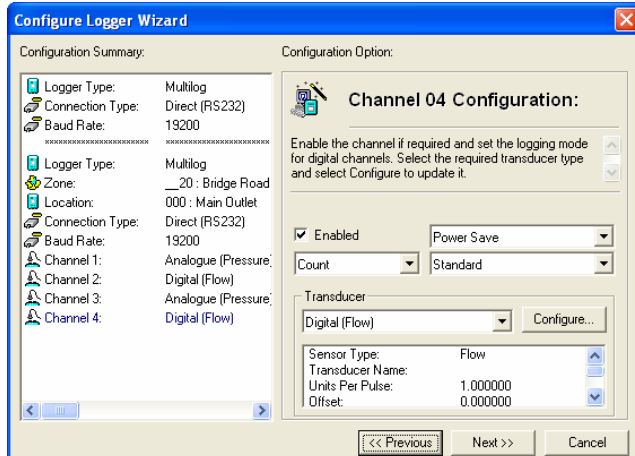
36 pulses per second is equivalent to an HRP (100 pulses per revolution) doing a complete revolution in just under 3 seconds.



# Radwin User Guide

## Start a PSTN logger recording

### General Channel Configuration Continued



**Configure Logger Wizard**

**Configuration Summary:**

- Logger Type: Multilog
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: 20 : Bridge Road
- Location: 000 : Main Outlet
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Channel 1: Analogue (Pressure)
- Channel 2: Digital (Flow)
- Channel 3: Analogue (Pressure)
- Channel 4: Digital (Flow)

**Configuration Option: Channel 04 Configuration:**

Enable the channel if required and set the logging mode for digital channels. Select the required transducer type and select Configure to update it.

☒ Enabled    Power Save

Count: [Standard]    Standard

Transducer: [Digital (Flow)]    Configure...

Sensor Type: Flow

Transducer Name: 1.000000

Units Per Pulse: 0.000000

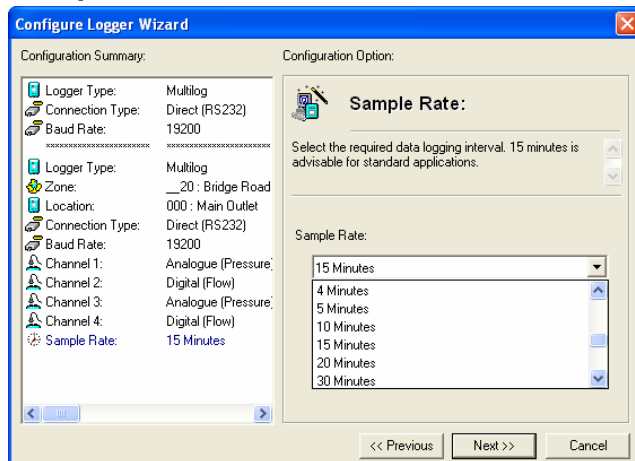
Offset: 0.000000

<< Previous    Next >>    Cancel

After configuring each channel click Next.

The information on the far left will be further updated reflecting the changes you have made so far to the logger configuration.

### Sample Rate



**Configure Logger Wizard**

**Configuration Summary:**

- Logger Type: Multilog
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: 20 : Bridge Road
- Location: 000 : Main Outlet
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Channel 1: Analogue (Pressure)
- Channel 2: Digital (Flow)
- Channel 3: Analogue (Pressure)
- Channel 4: Digital (Flow)
- Sample Rate: 15 Minutes

**Configuration Option: Sample Rate:**

Select the required data logging interval. 15 minutes is advisable for standard applications.

Sample Rate: [15 Minutes]

4 Minutes  
5 Minutes  
10 Minutes  
15 Minutes  
20 Minutes  
30 Minutes

<< Previous    Next >>    Cancel

Adjust the sample rate if required using the drop down menu. 15 minutes is advisable for standard applications.

Click Next to continue.

# Radwin User Guide

## Start a PSTN logger recording

### Recording Start / Stop time



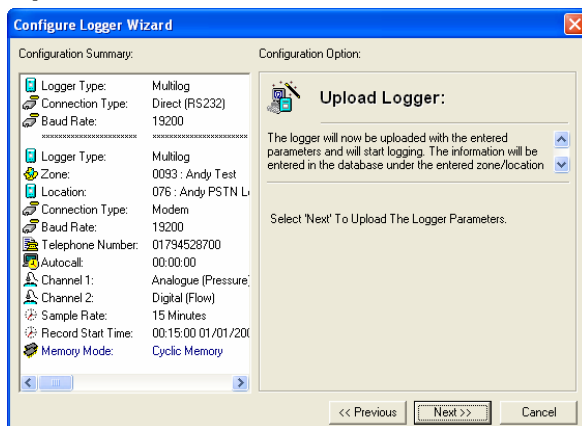
Loggers can be set to start recording at a particular time and date.

Some loggers can be set to stop recording.

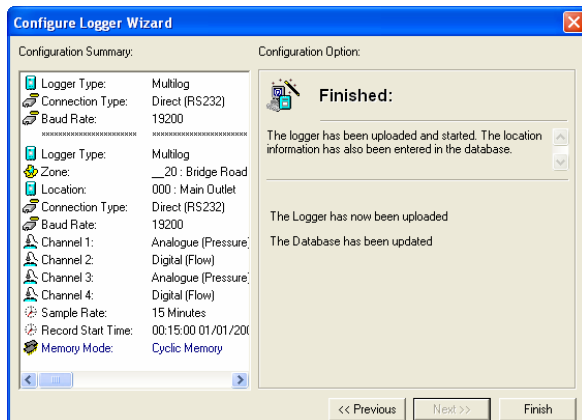
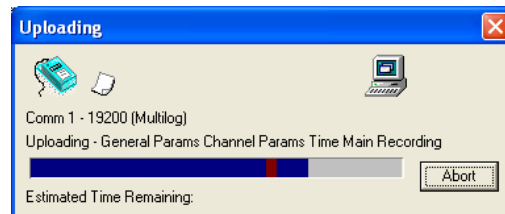
Loggers are normally configured with Cyclic Memory, but if you wish the logger to stop recording when the memory is full, select Block Memory.

Click Next to continue.

### Upload



Having set all the parameters you click Next to upload them to the logger.



Click Finish to complete the process.

The logger can now be installed.

# Radwin User Guide

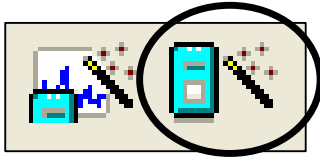
## Start a PSTN logger recording

### ***Using Configure Logger Wizard – Logger Connection via Phone Line***

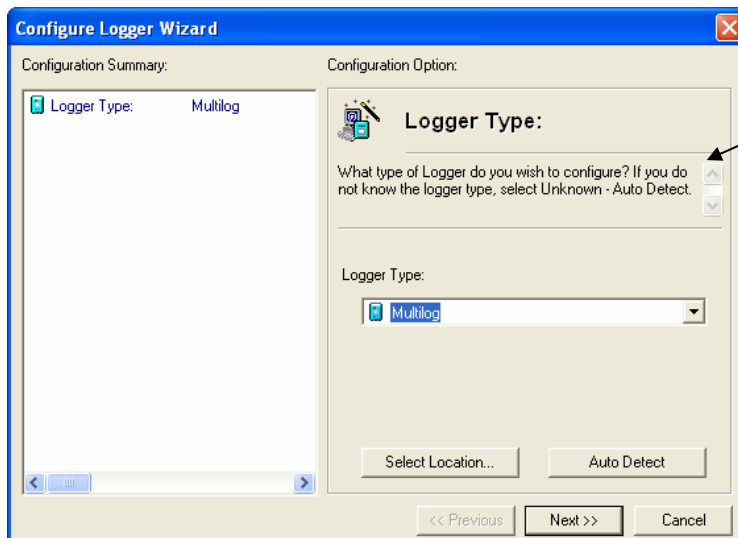
These instructions will explain how to configure a logger which is already connected to a telephone line.

#### **Downloading Parameter Settings**

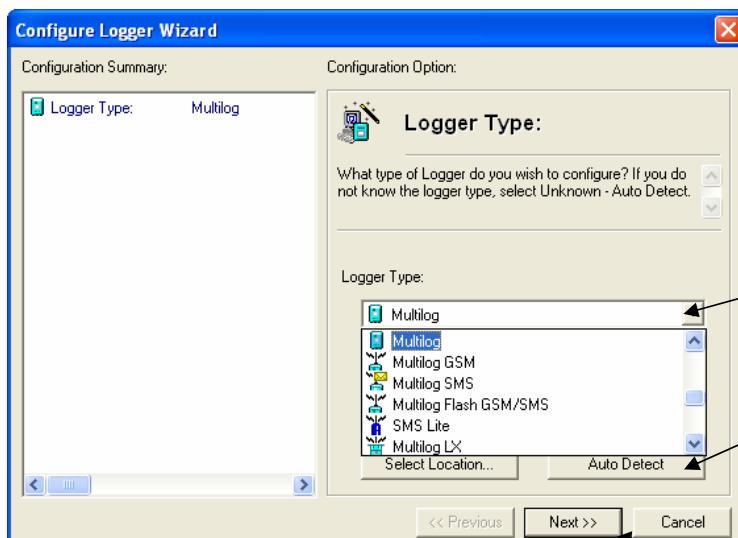
Connect the logger to the computer using the appropriate communication cable.



Click the Configure Logger Wizard icon



All the way through the configuration process there are instructions to help you here...

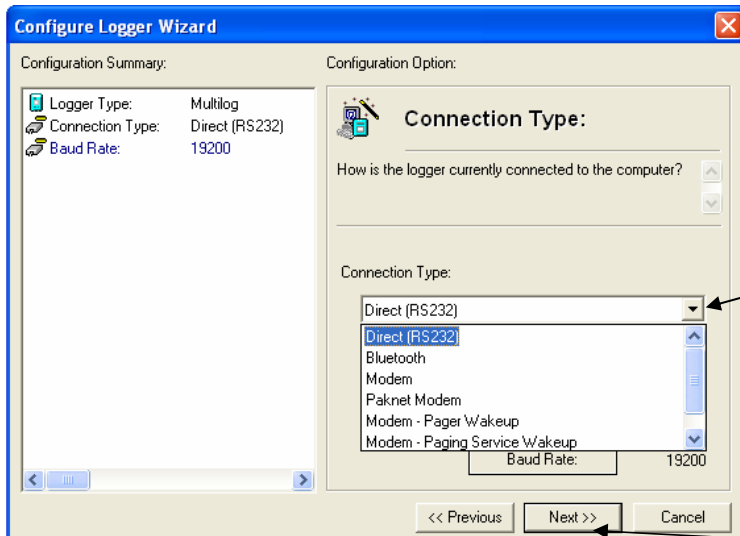


Use the dropdown menu to select the logger you have connected. For Multilog PSTN select Multilog.

Click Next

## Radwin User Guide

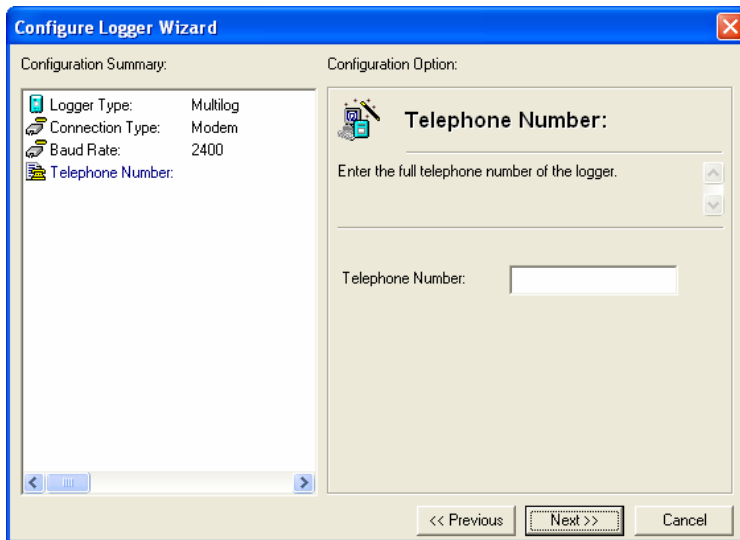
### Start a PSTN logger recording



The screenshot shows the 'Configure Logger Wizard' window. The 'Configuration Summary' on the left lists: Logger Type: Multilog, Connection Type: Direct (RS232), and Baud Rate: 19200. The 'Configuration Option' on the right is titled 'Connection Type:' and asks 'How is the logger currently connected to the computer?'. Below this is a dropdown menu for 'Connection Type:' which is currently set to 'Direct (RS232)'. Other options in the list include Bluetooth, Modem, Paknet Modem, Modem - Pager Wakeup, and Modem - Paging Service Wakeup. The 'Baud Rate' is set to 19200. At the bottom are buttons for '<< Previous', 'Next >>', and 'Cancel'.

Use the dropdown menu to select the connection type.  
i.e. Modem

Click Next

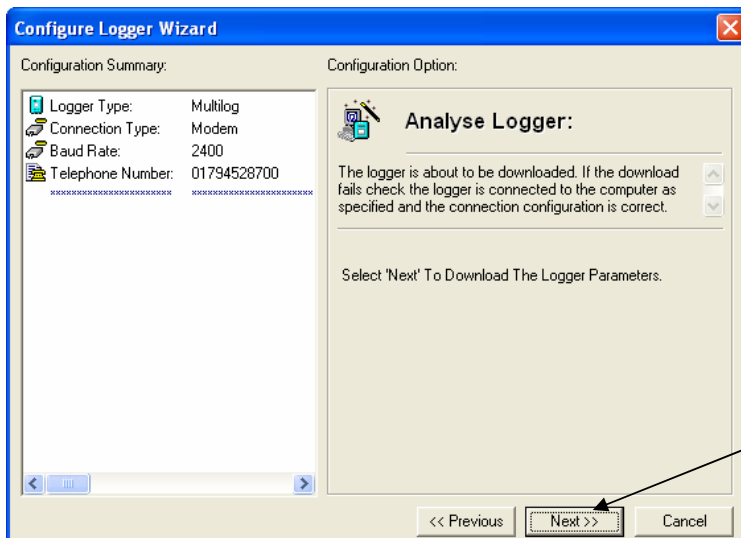


The screenshot shows the 'Configure Logger Wizard' window at the 'Telephone Number' step. The 'Configuration Summary' on the left lists: Logger Type: Multilog, Connection Type: Modem, Baud Rate: 2400, and Telephone Number: (empty). The 'Configuration Option' on the right is titled 'Telephone Number:' and asks 'Enter the full telephone number of the logger.' Below this is a text input field for the 'Telephone Number:'. At the bottom are buttons for '<< Previous', 'Next >>', and 'Cancel'.

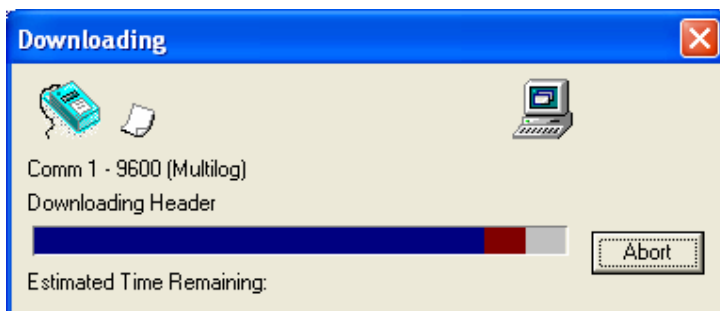
Type the full phone number of the logger. Click Next.

## Radwin User Guide

### Start a PSTN logger recording



Click Next to download the current logger parameters



Radwin will dial the logger and download its parameters. Now follow the configuration process from page 7.

During the final stage of uploading parameters the software will use the modem to dial the logger again and send the new parameters.

# Radwin User Guide

## Start a PSTN logger recording

### Start Other Radwin Programs

Click the Start Menu at the top of the main Setup screen.  
Click the component you need to use.

