



## **Radwin Start a GSM 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 GSM Logger Recording  
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### Introduction

This guide will help you configure a Radcom Multilog GSM 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.

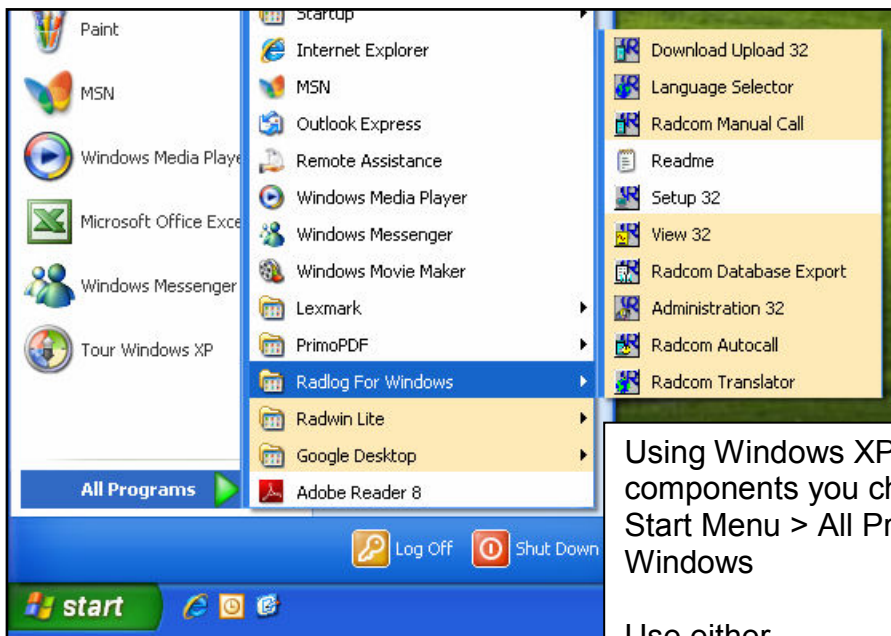
All three applications have easy to use Wizards which guide you step by step through the configuration process.

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

# Radwin User Guide

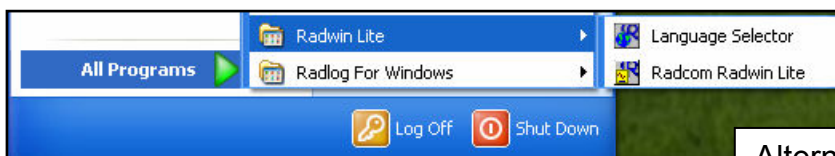
## Start a GSM Logger Recording

### 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...

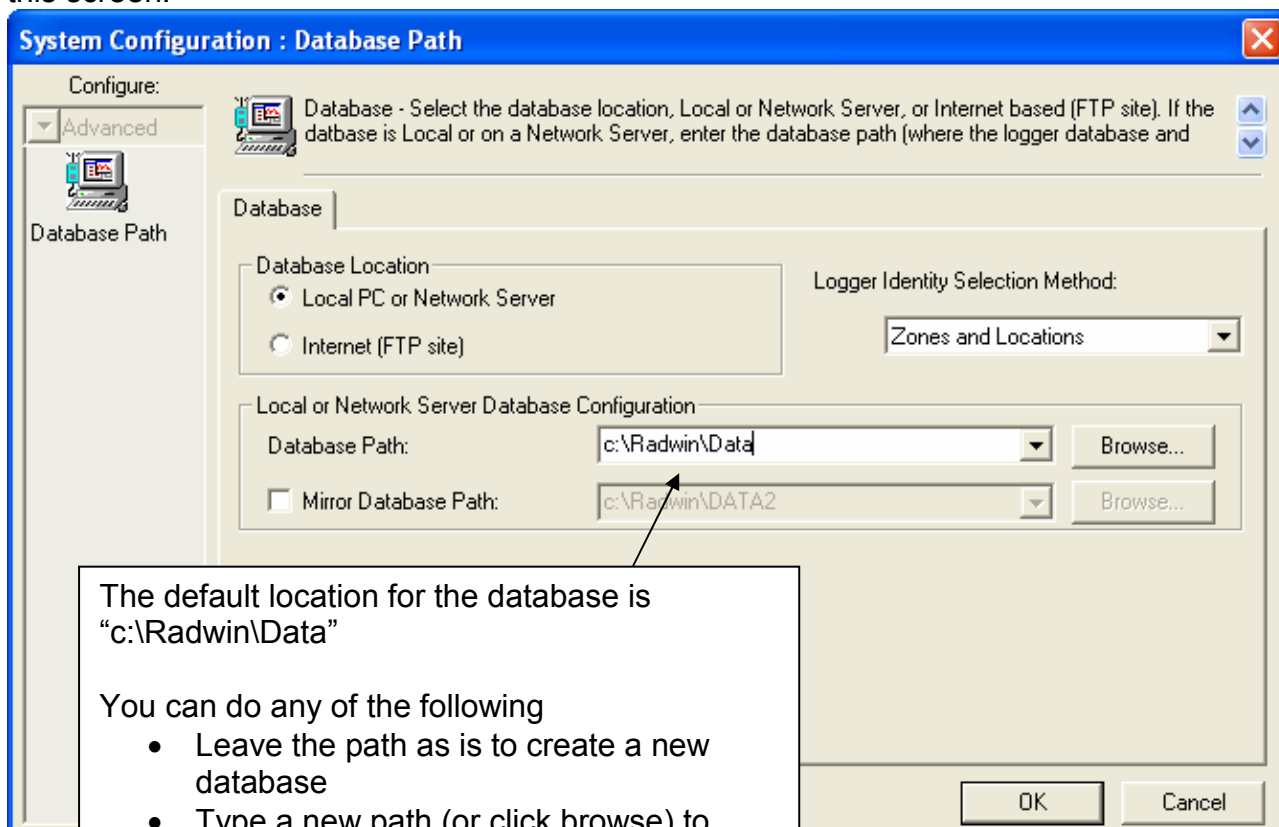
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## Start a GSM Logger Recording

### 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.



**System Configuration : Database Path**

Configure:

Advanced

Database Path

Database - Select the database location, Local or Network Server, or Internet based (FTP site). If the database is Local or on a Network Server, enter the database path (where the logger database and

Database

Database Location

☒ Local PC or Network Server

☐ Internet (FTP site)

Logger Identity Selection Method:

Zones and Locations

Local or Network Server Database Configuration

Database Path: c:\Radwin\Data Browse...

☐ Mirror Database Path: c:\Radwin\DATA2 Browse...

OK Cancel

The default location for the database is "c:\Radwin\Data"

You can do any of the following

- Leave the path as is to create a new database
- Type a new path (or click browse) to locate your database elsewhere
- Change the path to the location of an existing Radwin Database \*

Then click OK

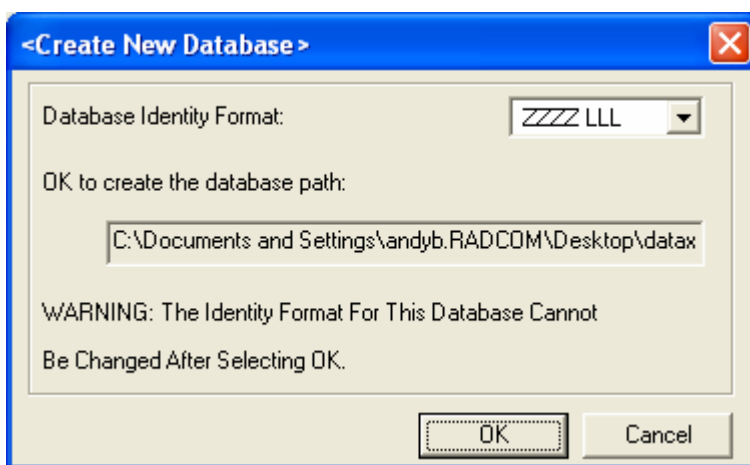
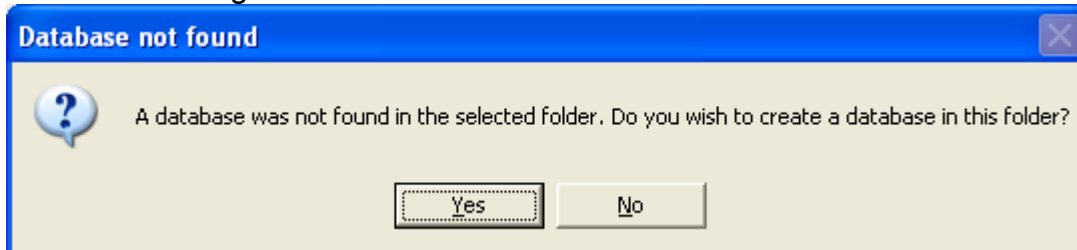
\*If you change the path to an existing database then the system configuration screen will close (after you click ok) and the application will be ready to use.

Continued...

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### Start a GSM 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 GSM Logger Recording

### Wizard Icons

Radcom View

Radwin Lite

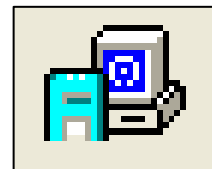
Manual Call Wizard



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





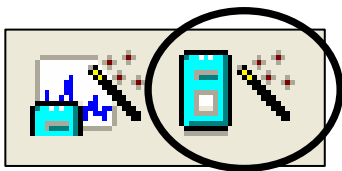
# Radwin User Guide

## Start a GSM Logger Recording

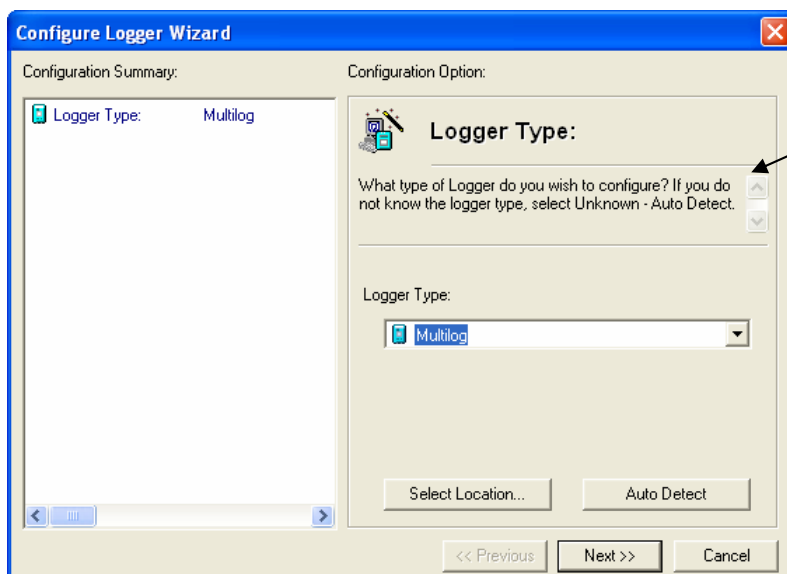
### Using Configure Logger Wizard

#### Downloading Parameter Settings

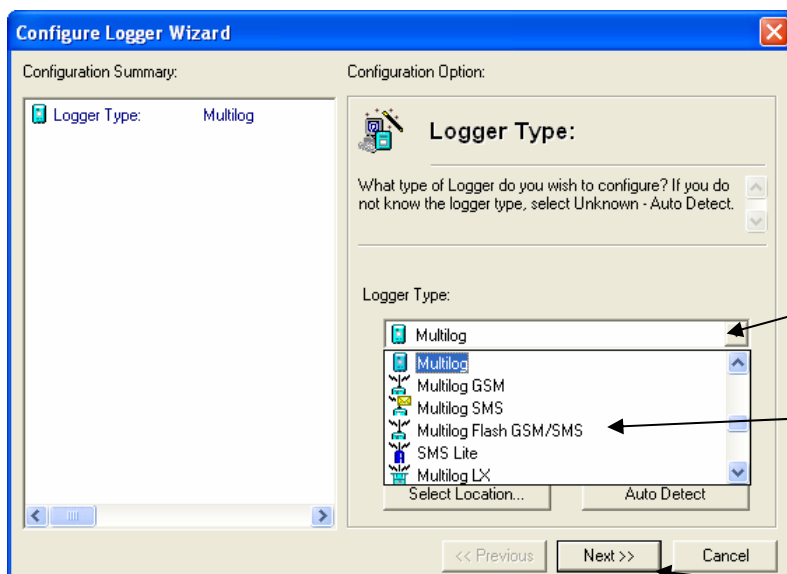
Connect the logger to the computer using the appropriate communication cable.



Click the Configure Logger Wizard icon



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

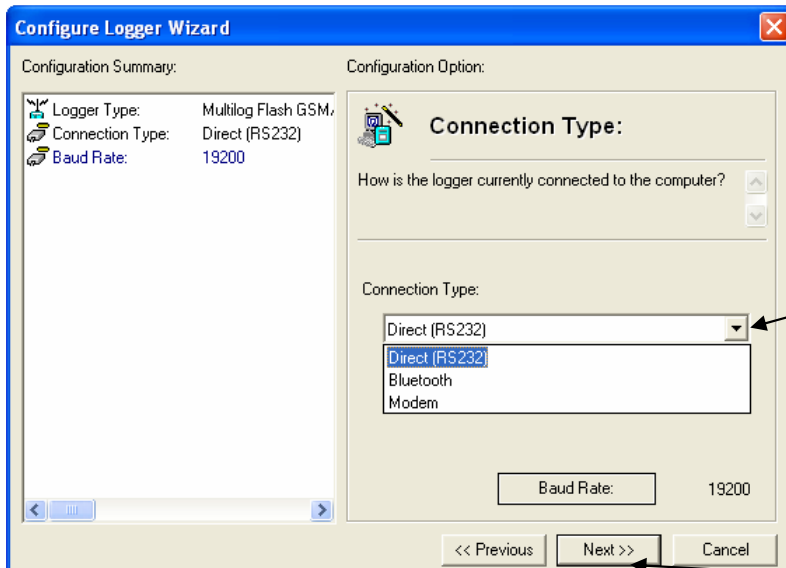


Use the dropdown menu to select the logger you have connected (Multilog Flash GSM/SMS).

Click Next

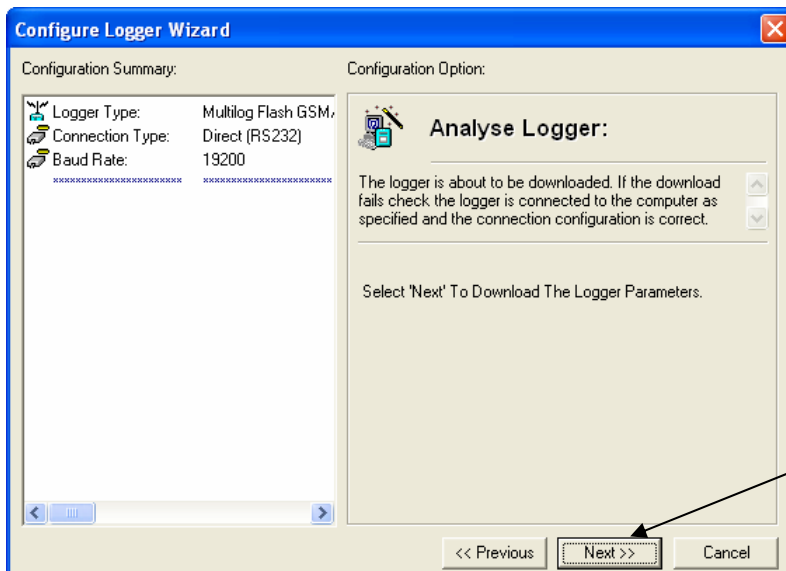
# Radwin User Guide

## Start a GSM Logger Recording

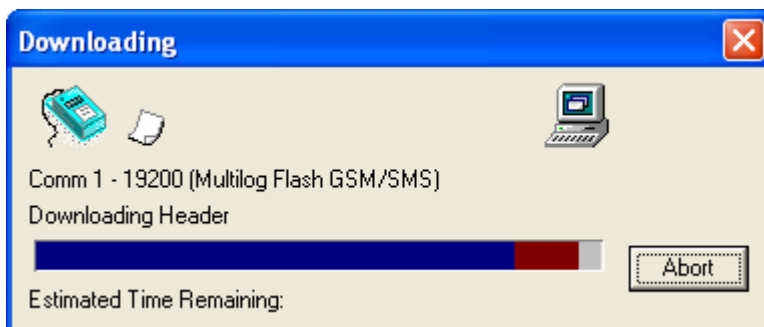


Use the dropdown menu to select the connection type (Direct RS232).

Click Next



Click Next to download the current logger parameters

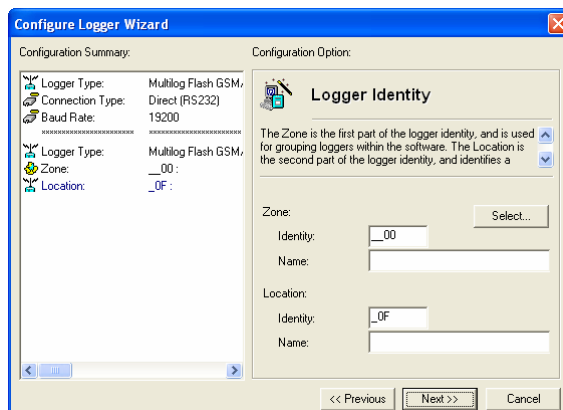


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## Start a GSM Logger Recording

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:		Select...
Identity:	<input type="text" value="_00"/>	
Name:	<input type="text"/>	
Location:		
Identity:	<input type="text" value="_0F"/>	
Name:	<input type="text"/>	

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.

If you do not have any loggers in your database, or you wish to create a new location, enter zone and 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 a Zone and Location from within your database see the next page...

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Zone: Select...

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 Zone Identity

Select Database Location

Type: Zones/Locations - Select the required Zone, followed by the required Location from the list. To Edit, Delete, or Create a new item, select the 'Tools' button, or right click the mouse on

Identity	Name
_10	Radio Test
_20	Bridge Road

OK Cancel

A list of Zones from your database will be displayed.

Double click the required Zone.

Select Database Location


Type: Zones/Locations - Select the required Zone, followed by the required Location from the list. To Edit, Delete, or Create a new item, select the 'Tools' button, or right click the mouse on

Identity	Name
000	Main Outlet

OK Cancel

A list of Locations from within the selected Zone on your database will be displayed.

Double click the required Location.

 Should you need to return to the list of Zones click the Up One Level button.

Configure Logger Wizard

Configuration Summary:

- Logger Type: Multilog Flash GSM,
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Logger Type: Multilog Flash GSM,
- Zone: \_SMS
- Location: SCH

Configuration Option:

**Logger Identity**

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

Zone: Select...

Identity:

Name:

Location:

Identity:

Name:

<< Previous Next >> Cancel

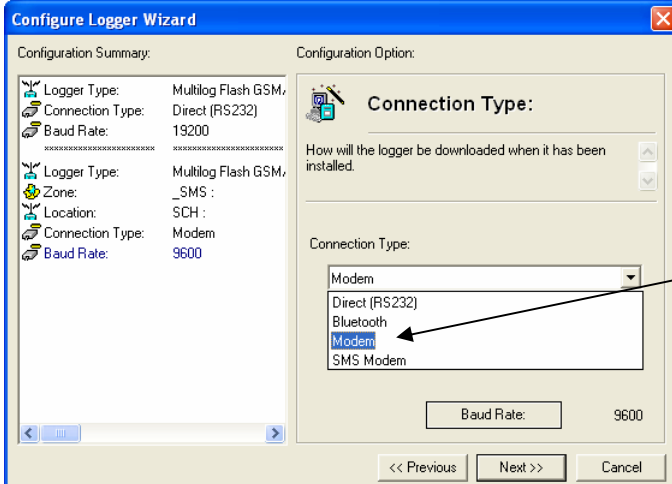
The Zone and Location information has now changed within the boxes on the right, and the information on the far left reflects this.

Click Next to continue.

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## Start a GSM Logger Recording

### Future communication method

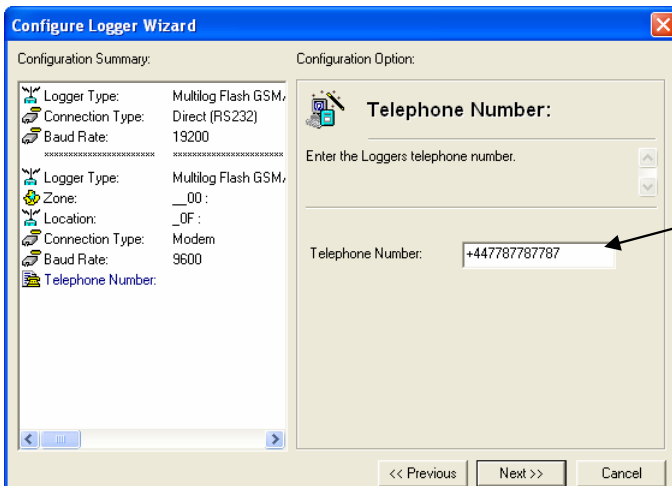


The 'Configure Logger Wizard' dialog box is shown. The 'Configuration Summary' pane on the left lists: Logger Type: Multilog Flash GSM, Connection Type: Direct (RS232), Baud Rate: 19200. The 'Configuration Option' pane on the right is titled 'Connection Type:' and contains a text box with the instruction 'How will the logger be downloaded when it has been installed.' Below this is a drop-down menu labeled 'Connection Type:' with the following options: Direct (RS232), Bluetooth, Modem (highlighted), and SMS Modem. A Baud Rate field shows 9600. Navigation buttons at the bottom are '<< Previous', 'Next >>', and 'Cancel'.

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

Multilog GSM uses "Modem".

Click next to continue.



The 'Configure Logger Wizard' dialog box is shown. The 'Configuration Summary' pane on the left lists: Logger Type: Multilog Flash GSM, Connection Type: Direct (RS232), Baud Rate: 19200, and Telephone Number: (empty). The 'Configuration Option' pane on the right is titled 'Telephone Number:' and contains a text box with the instruction 'Enter the Loggers telephone number.' Below this is a text field labeled 'Telephone Number:' containing the value '+447787787787'. Navigation buttons at the bottom are '<< Previous', 'Next >>', and 'Cancel'.

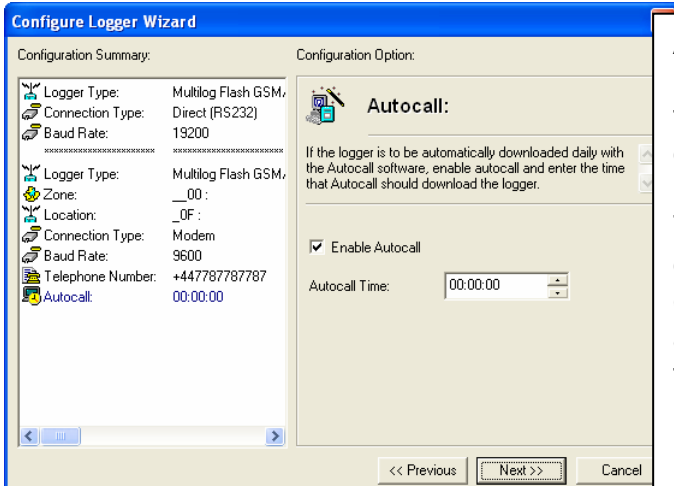
Enter the full telephone number (including international dialling code) of the logger. This is normally displayed on the front sticker of the logger when the SIM card has been fitted by Radcom.

Click next to continue.

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## Start a GSM Logger Recording

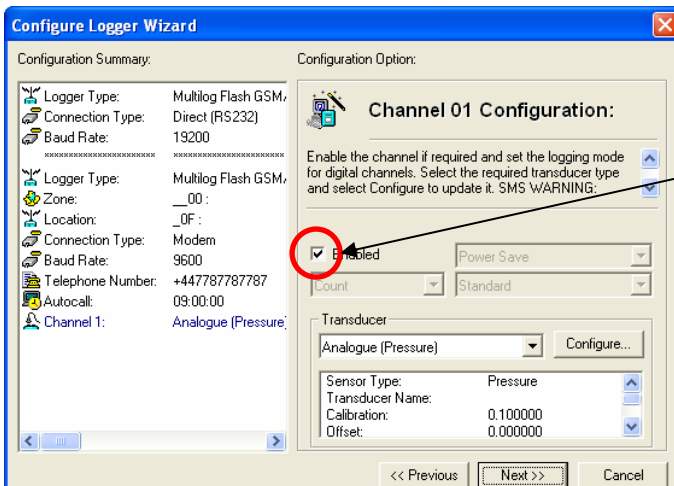
### Autocall Configuration



Autocall can be configured to call the logger. From this screen you select the time at which the call will be made to download the data.

This information will be saved to the database on the computer which is configuring the logger. Therefore if you are configuring the logger with a laptop in the field you will need to re-enter this information on the server which dials the logger.

### Channel Configuration

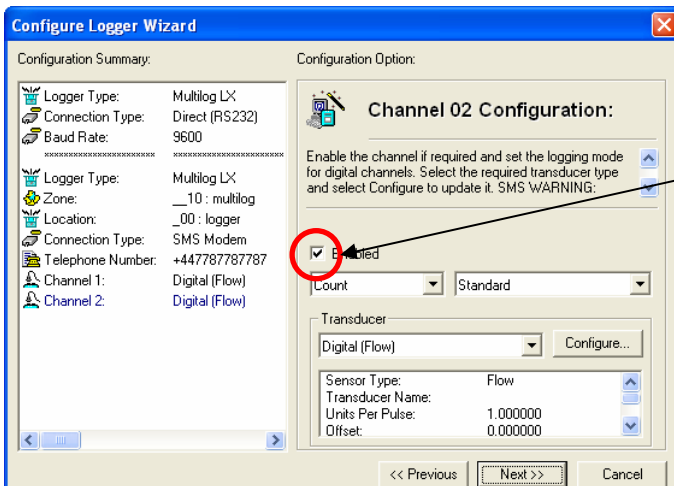


Starting with Channel 1, each channel is configured individually.

Make sure the Enabled tick box is ticked to turn the channel on.

Configure the channel or click next to continue.

Flow Channel Configuration is described on the next page of this manual.



If your logger has more than one channel you will have need to configure the each one.

Make sure the Enabled tick box is ticked to turn the channel on if required.

Configure the channel or click next to continue.

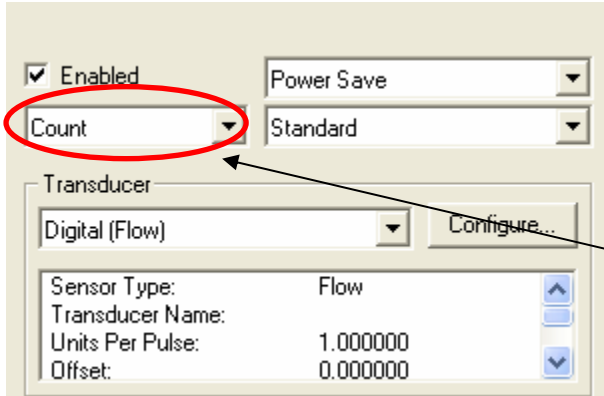
Flow Channel Configuration is described on the next page of this manual.

Flow Channel Configuration next...

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## Start a GSM Logger Recording

### Flow Channel Configuration



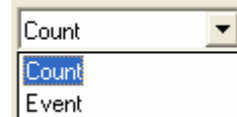
The screenshot shows the 'Flow Channel Configuration' window. The 'Enabled' checkbox is checked. The 'Logging Mode' dropdown is set to 'Count' (highlighted with a red circle). The 'Transducer' dropdown is set to 'Digital (Flow)'. Below this, the 'Sensor Type' is 'Flow', 'Transducer Name' is empty, 'Units Per Pulse' is '1.000000', and 'Offset' is '0.000000'. A 'Configure...' button is next to the 'Transducer' dropdown.

Choose between...

**Count logging** (counting pulses)

or

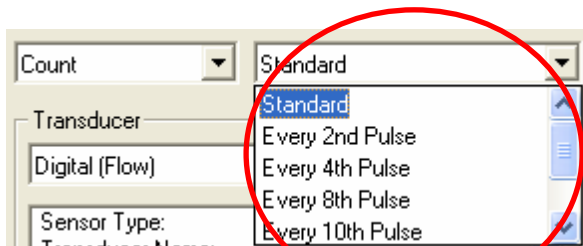
**Event logging** (counting the time between each pulse)



A small dropdown menu showing 'Count' and 'Event' options. 'Count' is selected and highlighted with a blue background.

**The default logging mode is Count – Standard.**

Use Event Logging for very low pulse count.



A screenshot of the logging mode selection dropdown. The 'Count' mode is selected, and its sub-menu is open, showing 'Standard' (highlighted with a blue background) and other options: 'Every 2nd Pulse', 'Every 4th Pulse', 'Every 8th Pulse', and 'Every 10th Pulse'. The entire dropdown menu is circled in red.

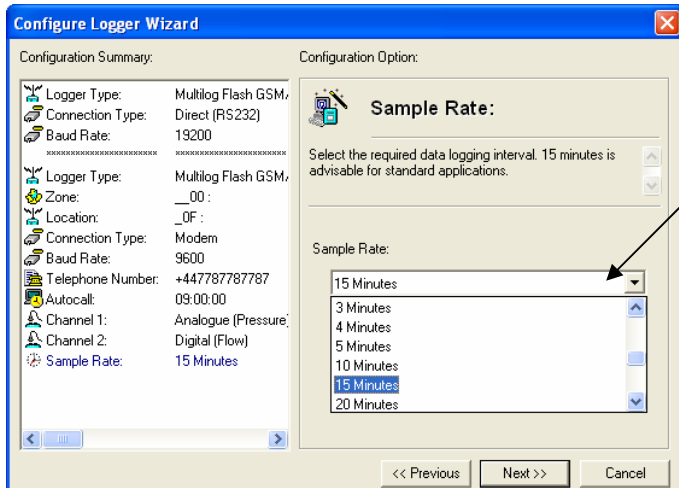
As standard the logger will count (or time between when in event mode) each pulse. However if you receive a very high number of pulses (more than 36 per second) you will overwhelm the logger causing it to miscount. In this case change from Standard (counting every pulse) to every 2<sup>nd</sup>, 4<sup>th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

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## Start a GSM Logger Recording

### Sample Rate Configuration



**Configure Logger Wizard**

Configuration Summary:

- Logger Type: Multilog Flash GSM,
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: \_\_\_\_\_
- Location: \_\_\_\_\_
- Connection Type: Modem
- Baud Rate: 9600
- Telephone Number: +447787787787
- Autocall: 09:00:00
- Channel 1: Analogue (Pressure)
- Channel 2: Digital (Flow)
- Sample Rate: 15 Minutes

Configuration Option:

**Sample Rate:**

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

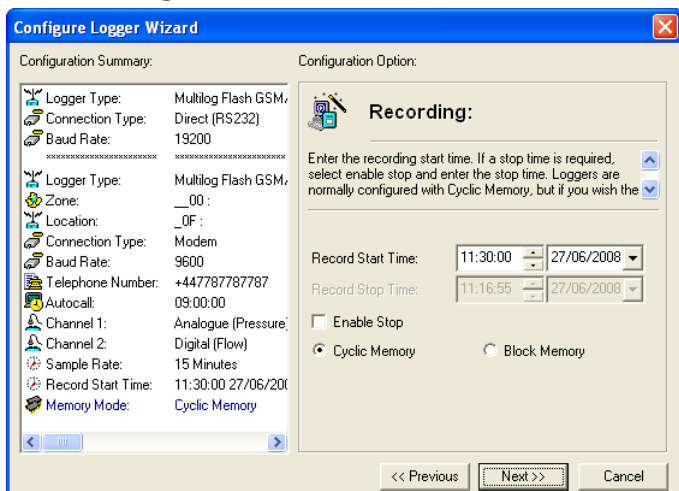
Sample Rate:

- 15 Minutes
- 3 Minutes
- 4 Minutes
- 5 Minutes
- 10 Minutes
- 15 Minutes
- 20 Minutes

<< Previous Next >> Cancel

Select the required sample rate from the drop down menu.

### Recording Start / Stop time



**Configure Logger Wizard**

Configuration Summary:

- Logger Type: Multilog Flash GSM,
- Connection Type: Direct (RS232)
- Baud Rate: 19200
- Zone: \_\_\_\_\_
- Location: \_\_\_\_\_
- Connection Type: Modem
- Baud Rate: 9600
- Telephone Number: +447787787787
- Autocall: 09:00:00
- Channel 1: Analogue (Pressure)
- Channel 2: Digital (Flow)
- Sample Rate: 15 Minutes
- Record Start Time: 11:30:00 27/06/2008
- Memory Mode: Cyclic Memory

Configuration Option:

**Recording:**

Enter the recording start time. If a stop time is required, select enable stop and enter the stop time. Loggers are normally configured with Cyclic Memory, but if you wish the

Record Start Time: 11:30:00 27/06/2008

Record Stop Time: 11:16:55 27/06/2008

☐ Enable Stop

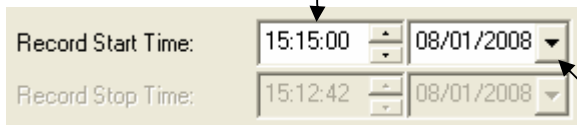
☒ Cyclic Memory ☐ Block Memory

<< Previous Next >> Cancel

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

If the time and date displayed here are in the past, and you do not make any changes, the logger will start recording at the next 15 minute boundary.

To set the time for the recording to start click the hours and/or minutes and type the value you need it to be.

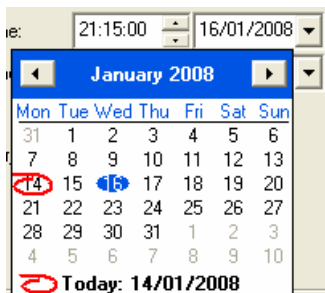


Record Start Time: 15:15:00 08/01/2008

Record Stop Time: 15:12:42 08/01/2008

To set the date for the recording to start click the down arrow next to the date.

A calendar will pop up. Select the date you need the logger to start on.



Calendar for January 2008:

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Today: 14/01/2008



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## Start a GSM Logger Recording

If required, loggers can be set to stop recording at a particular time and date.

Click the Enable Stop tick box, and then set the stop time using the same method described above for setting start time.

To disable stop time click the tick box and remove the tick.

Record Start Time:	21:15:00	14/01/2008
Record Stop Time:	21:15:00	17/01/2008
<input checked="" type="checkbox"/> Enable Stop		

☒ Cyclic Memory ☐ Block Memory

Click Cyclic Memory for continuous recording, overwriting the oldest recordings when the memory fills.

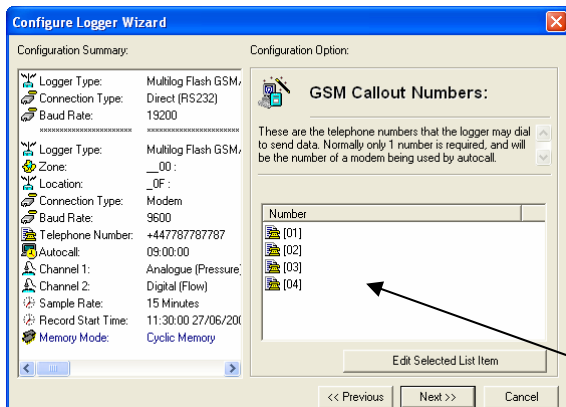
In block Memory mode the logger will record until the memory fills up, and then it will stop.

**Click Next to continue**

# Radwin User Guide

## Start a GSM Logger Recording

### GSM Callout Numbers

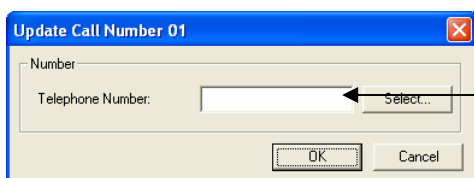


These are the telephone numbers that the logger will dial to send data.

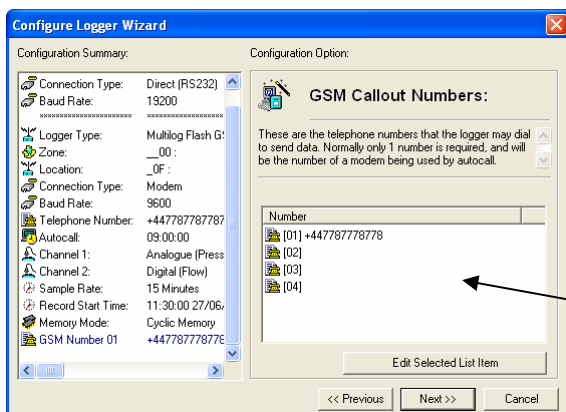
This function is optional. Leave these spaces blank if you are going to configure Autocall to call the logger.

Normally only 1 number is required, and will be the number of a modem being used by Autocall to receive calls.

Double click an item to edit it.



Type the modem telephone number that the logger will send data to (in international format) and the click OK.



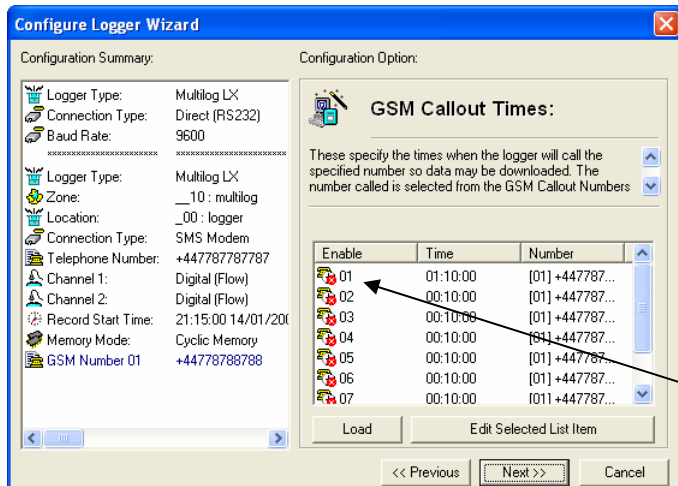
The modem telephone number should now be displayed in the box.

Click Next to continue.

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### GSM Callout Times



**Configure Logger Wizard**

Configuration Summary:

- Logger Type: Multilog LX
- Connection Type: Direct (RS232)
- Baud Rate: 9600
- Zone: 10 : multilog
- Location: 00 : logger
- Connection Type: SMS Modem
- Telephone Number: +447787787787
- Channel 1: Digital (Flow)
- Channel 2: Digital (Flow)
- Record Start Time: 21:15:00 14/01/201
- Memory Mode: Cyclic Memory
- GSM Number 01: +44778788788

Configuration Option:

**GSM Callout Times:**

These specify the times when the logger will call the specified number so data may be downloaded. The number called is selected from the GSM Callout Numbers

Enable	Time	Number
<input type="checkbox"/>	01:10:00	[01] +447787...
<input type="checkbox"/>	00:10:00	[01] +447787...
<input type="checkbox"/>	00:10:00	[01] +447787...
<input type="checkbox"/>	00:10:00	[01] +447787...
<input type="checkbox"/>	00:10:00	[01] +447787...
<input type="checkbox"/>	00:10:00	[01] +447787...
<input type="checkbox"/>	00:10:00	[01] +447787...

Buttons: Load, Edit Selected List Item, << Previous, Next >>, Cancel

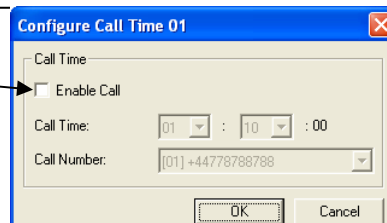
The times when the logger will call the specified number to transfer data are listed here.

This function is optional. Leave items deselected if you are going to configure Autocall to call the logger.

The number called is selected from the GSM Callout Numbers previously entered.

Double click an item to enable and edit it.

Click the Enable Call tick box to enable the call.



**Configure Call Time 01**

Call Time

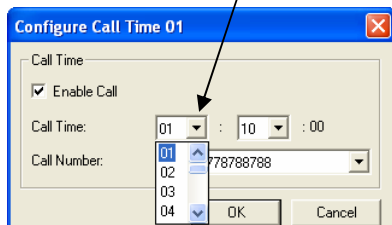
☐ Enable Call

Call Time: 01 : 10 : 00

Call Number: [01] +44778788788

Buttons: OK, Cancel

Then click the hour drop down menu to select the hour of the call.



**Configure Call Time 01**

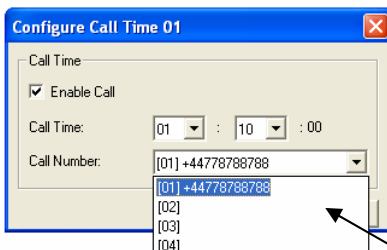
Call Time

☒ Enable Call

Call Time: 01 : 10 : 00

Call Number: 01 78788788

Buttons: OK, Cancel



**Configure Call Time 01**

Call Time

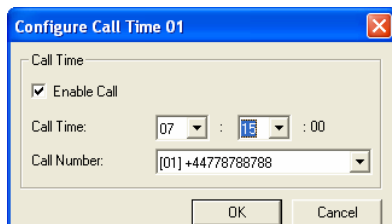
☒ Enable Call

Call Time: 01 : 10 : 00

Call Number: [01] +44778788788

Buttons: OK, Cancel

All the call in numbers you programmed into the previous stage of this manual are listed in this drop down menu. Select the telephone number you need to use.



**Configure Call Time 01**

Call Time

☒ Enable Call

Call Time: 07 : 15 : 00

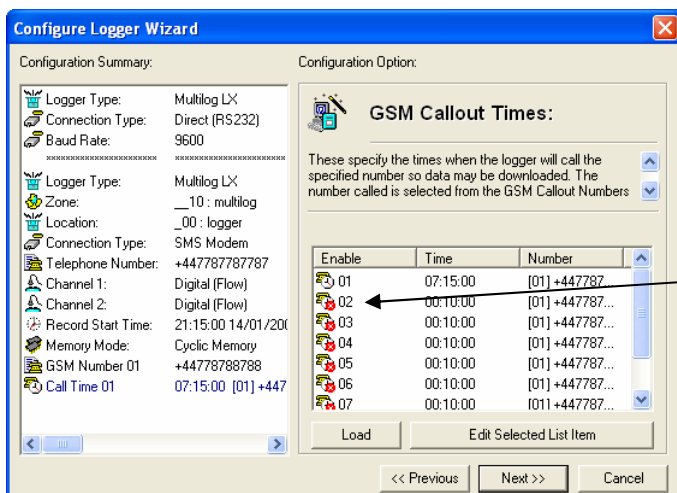
Call Number: [01] +44778788788

Buttons: OK, Cancel

Click OK to continue.

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## Start a GSM Logger Recording

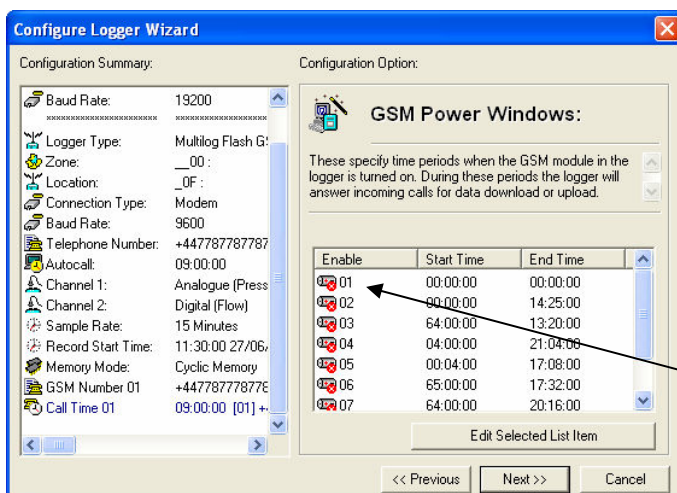


The callout time is now enabled.

To program extra callouts double click the next available item on the list.

Or click Next to continue.

## GSM Power Windows

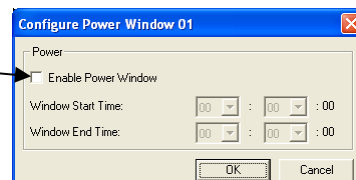
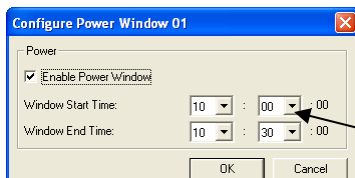


If you are going to configure Autocall to call the logger then you must set up a GSM power window to coincide with the call time.

Power windows are also useful for extra communication time during the day should you wish to update your archive file.

Double click the first available disabled power window to set up a power window.

Click the Enable Power Window tick box to enable the power window.

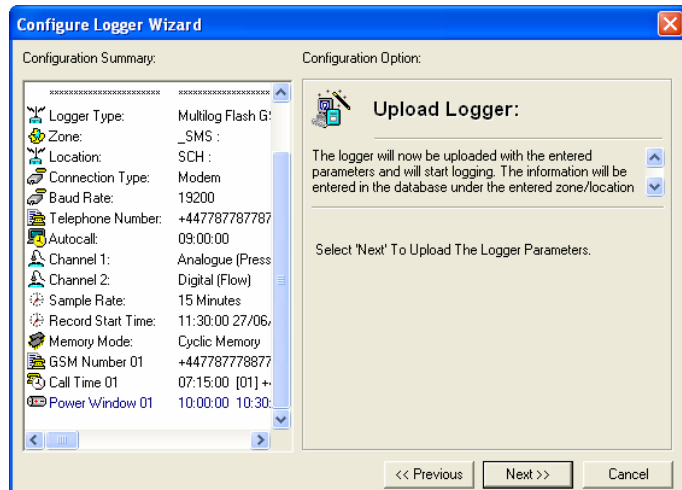


Set the power window start time and end time, then click OK to save

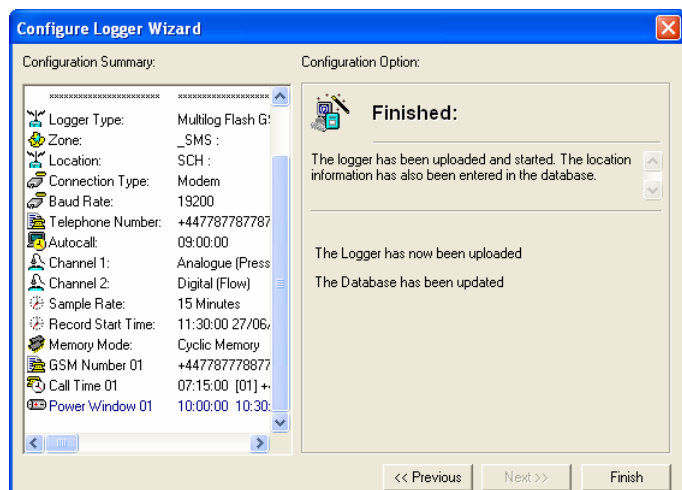
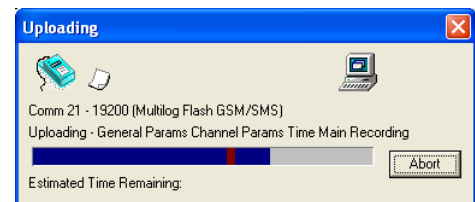
# Radwin User Guide

## Start a GSM Logger Recording

### Upload Logger



Click Next to upload the parameters to the logger.



Configuration is now complete.  
Click finish to close the wizard.

### Start Other Radwin Programs

Click the Start Menu at the top of whichever Radwin program you are using.

Click the component you need to use.

