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### **Record of Amendments**

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.

Amendment Number	Amendment Date	Reason for Re-Issue (Paragraph Number (s) Amended)	Amended by
1.0	27 Feb 08	First Draft	AMB

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### **Alarm Programmer and Receiver Basics**

Radcom data loggers can be programmed with Alarm Levels. Be it pressure, flow or any other form of data - when these levels are exceeded the logger will dial (alarm out to) a predetermined phone number (or numbers).

The Alarm Receiver program requires a dedicated phone line and communication port on the PC (usually attached to PSTN a modem). While the Alarm Receiver is running the communication port and modem can not be used by any other program.

Alarms from Multilog LX data loggers are received via an SMS modem through Autocall. Autocall receives the SMS message, and then passes it on to Alarm receiver.

These instructions will guide you through setting alarm levels in a logger, and then illustrating how they will be dealt with in the Radcom software.



#### **Running Alarm Programmer and Alarm Receiver**





#### Alarm Receiver start up errors



When you start Alarm Receiver you may see this error message. This is due to no communication port being selected for Alarm Receiver.

For detailed instructions about setting up ports see the Radwin Setup manual.



Double click the communication port which you have allocated to receive alarms. Remember that while alarm receiver is running the port can not be used by any other application.

Configure Port		X
Select Enat specified wi	ole Port to use this port with Alarm R nich determines how this port is use	Receiver. A Connection Type must be ad to talk to loggers. The default baud rate 🚽
Port Configuration		
Enable Port:	Connection Type:	Default Baud Rate:
🗆 сомз	Modem	I a 300 I I
l		
		OK Cancel

Select Ena specified w	ble Port to use this port with Alarm Re hich determines how this port is used	eceiver. A Connection Type must be to talk to loggers. The default baud rate
Port Configuration		
Enable Port:	Connection Type:	Default Baud Rate:
🔽 СОМЗ	Modem	• 🔊 300 •
	Modem	A 2 1200 A
	Paknet Modem	🔤 🖉 2400 📃
~	Direct Logger (RS232)	🖉 4800
	Satellite PC (RS232)	⊻∏ 🞜 9600 🛛 ⊻[

Configure Port		×
Select Ena specified v	able Port to use this port with Alarm R which determines how this port is use	eceiver. A Connection Type must be d to talk to loggers. The default baud rate 💟
Enable Port:	Connection Type: Modem	Default Baud Rate:
		OK Cancel

Enable the port by ticking the box and select the device which will receive the alarms (in this example a modem). The default baud rate should be set to the highest expected. Click OK to save settings. Then click OK to close the System Configuration window. Finally close Radwin Setup and re-run Alarm

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### **Programming Alarm Levels**

### Download Current Alarm Settings

#### Step 1

Connect your logger to the PC via its direct communication cable.

#### Step 2

Run Radcom Alarm Programmer.

Step 3	
🔣 Radcom Alarm Programmer	
File View Comms Configuration Start Help	
Click the Download	Alarm Data icon
Step 4	
Download Configuration	
Logger Zone Location Type: I Multilog Baud: 7 19200	
Connection:	
Connection: Direct (RS232)	
Number:	
Pager Number:	
Cano	Check the connection type is Direct (RS232).
	You will need to select the correct logger
Download Configuration	type and baud rate using the dropdown
Logger Zone	menus.
Location	Click Next.
Type: 🚺 Multilog 💽 🛃 🛃 19200	CIICK NEXL
Connection: Kultilog GSM	
Connection: Multilog Flash GSM/SMS	
Number:	
Next >> Canc	el

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### Step 5

Download Options	
Options Alarm Parameters Alarm Conditions, Levels, Telephone Numbers, Comments Alarm Profiles	At this stage you only need to download Alarm Conditions, Level, Telephone Numbers and Comments by ticking the top box.
Alarm Report          Alarm Occurances         Min/Max Data         Profile Exceeances	If the logger you are trying to download is able to store alarm profiles then the tick box will be available to use. Click the box if you wish to download the stored profiles in the logger.
Car	Then click OK
Downloading	
S 2 2	Wait for communications to finish.
Downloading Header	bort

Levels	Tel Numbers Con	nments			1	
Chann	el	Upper	Lower	Minimum Night		
<b>b</b> 01 [	Flow - Litres/Sec]	0.000000	0.000000	0.000000		
<b>b</b> 02 [	Flow - Litres/Sec]	0.000000	0.000000	0.000000		
						urrent alarm settings from the
					logger	will be displayed.
Alarm	Channel	Tune	Telephone	Persistence	logger	will be displayed.
Alarm		Type:	Telephone	Persistence		will be displayed.
<b>6</b> 01	01	Type: LUAE - Lower or Upper Al LUAE - Lower or Upper Al	Telephone 01 - " 01 - "	Persistence	ances	will be displayed.
∕ <mark>₀</mark> 01 ∕₀02	01 01	LUAE - Lower or Upper Al	01 · " 01 · "	1 Out Of 1 Ocuur	ances	will be displayed.
<b>6</b> 01	01 01 01	LUAE - Lower or Upper Al LUAE - Lower or Upper Al	01 - " 01 - " 01 - "	1 Out Of 1 Ocuur 1 Out Of 1 Ocuur	ances ances rances	will be displayed.
∕ <mark>}}01</mark> ∕}02 ∕}03	01 01 01 01 01 01	LUAE - Lower or Upper Al LUAE - Lower or Upper Al LUAE - Lower or Upper Al	01 - " 01 - " 01 - " 01 - " 01 - "	1 Out Of 1 Ocuur 1 Out Of 1 Ocuur 1 Out Of 1 Ocuur	ances ances ances ances ances ances	will be displayed.

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### Changing the Alarm settings

#### Levels

Each recording channel has an upper, lower and minimum night alarm level.

To access the level settings click the Levels tab.



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#### **Telephone Numbers to Call**

The logger can alarm out to several different numbers. If the logger alarms out to a PC running Alarm Receiver, then the information will be processed by Radwin. If you program a normal mobile phone number into the list then it will be called or receive a text message with alarm information depending on what type of logger is alarming out.

To access the alarm out telephone numbers click the Tel Numbers tab



Continued...

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Levels T Position 201 202 203 203 203	el Numbers Cor			
<ul> <li>05</li> <li>06</li> <li>07</li> <li>08</li> <li>09</li> <li>10</li> <li>11</li> <li>12</li> </ul>				If you wish to program more than one number just click the next available empty line and follow the instruction as previously stated in this section.
Alarm (A) 01 (A) 02 (A) 03 (A) 04 (A) 05 (A) 06 (A) 06 (A) 06 (A) 06 (A) 06 (A) 06 (A) 06 (A) 01 (A) 01 (A) 02 (A) 02 (A) 02 (A) 02 (A) 02 (A) 03 (A) 04 (A) 05 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	01 01 01 01 01 01	Type: LUAE - Lower or Upper Al LUAE - Lower or Upper Al	01 - '07788778877' 01 - '07788778877'	For Radwin to be able to process the messages one of these numbers must be the modem on the PC which runs Alarm Receiver.
	el Numbers Cor			Example: Alarm programmer with two telephone numbers listed
Alarm Alarm Alarm Alarm Alarm Alarm Alard Al	01 01 01 01 01 01	Type: LUAE - Lower or Upper Al LUAE - Lower or Upper Al	01 - '07788778877' 01 - '07788778877'	Persistence         1 Out Of 1 Ocuurances         Year

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#### **Alarm Conditions**

Having programmed phone numbers into the logger, you also need to set the alarm conditions which will cause the numbers will be dialled. These alarm levels are accessed from the Tel Number tab.



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Cancel

ΟK



-Alarm Configuration (	n	
Status:	Enabled	
Channel:	🔊 Channel 01	Pick the type of exceedance
Туре:	LUAE - Lower or Upper Alarm Level Exceedance	which will cause this alarm.
Telephone:	LAE - Lower Alarm Level Exceedance     UAE - Upper Alarm Level Exceedance	
Persistence:	A LUAE - Lower or Upper Alarm Level Exceedance MNE - Miniumum Night Flow Exceedance	
larm Configurati	on Update	
Alarm Configuration (		
Status:	Enabled	
Channel:	🕰 Channel 01 💽	
Туре:	\land LUAE - Lower or Upper Alarm Level Exceedance	If you have programmed in more
Telephone:	01 - '07788778877'	than one phone number you can pick which one the logger will
Persistence:	O1 - '07788778877'     O2 - '07887887788'     Ances     An	send a message to.
	> 03 - " > 04 - " OK Cancel	send a message to.
Alarm Configurat	ian Undata	
- Alarm Configuration		
Fildini Coningulation	Enabled	
Status:		
Status: Channel:	🔬 Channel 01 📃	
	Channel 01      LUAE - Lower or Upper Alarm Level Exceedance	
Channel:		
Channel: Type:	LUAE - Lower or Upper Alarm Level Exceedance	Colort how porcists at the plane.
Channel: Type: Telephone:	LUAE - Lower or Upper Alarm Level Exceedance  Control 1 00101  Out Of  Control 1 00000000000000000000000000000000000	Select how persistent the alarm
Channel: Type: Telephone:	LUAE - Lower or Upper Alarm Level Exceedance     1      Out Of     1      Occurances     OK     Cancel	level has to be before the logger
Channel: Type: Telephone:	LUAE - Lower or Upper Alarm Level Exceedance	•

An enabled alarm will not have a red cross next to it.

Alarm	Channel	Туре:	Telephone	Persistence
🙏 01	01	UAE - Upper Alarm Level	02 - '07887887788'	1 Out Of 1 Ocuurances
1 1 1 1 2 1 2	01	LUAE - Lower or Upper Al	01 - '07788778877'	1 Out Of 1 Ocuurances
1 100	01	LUAE - Lower or Upper Al	01 - '07788778877'	1 Out Of 1 Ocuurances
Ab 04	01	LUAE - Lower or Upper Al	01 - '07788778877'	1 Out Of 1 Ocuurances
1 02 1 03 1 04 1 05	01	LUAE - Lower or Upper Al	01 - '07788778877'	1 Out Of 1 Ocuurances

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#### Profiles

On some loggers it is possible to program alarm profiles. Use this when you expect your data to follow a predicted pattern. If the data deviates from this pattern the logger will alarm out.

Click the Profiles tab to start the configuration process.

Mar	🖞 Multilog Flash GSM/SMS Alarm Configuration :20000								
÷.	Multilog Fla	sh GSM/SM	S Alarm Con	figuration	:200	00			$\bowtie$
L	Levels Tel Numbers Comments Profiles								
	A Channel 01 💌 🧰 Monday 💌 Copy Import From Radwin Import ASCII								
	1 Pres	sure - Metres	Head Lower						
	0.5								
	0.0								
	-1.0								
		<b>.</b>	06:00:00	12	00:00	18:0	n.00 .	00:00:00	
	GMT Monday		Monday		nday	Mon		Monday	
	Time:	Lower	Upper				^		- II
	Ø 01:00	0.000000	0.000000	1			-		
	02:00	0.000000	0.000000						
	② 03:00	0.000000	0.000000				~		
	,	- ,	i					,	
		annel T	уре:		Telephone		Persistend	ce 📃	_^
	01 02		UAE - Lower or	••	01 - '+44791			Ocuurances	=
4	02 01		UAE - Lower or	••	01 - '+44791			Ocuurances	
4	<b>6</b> 03 01		UAE - Lower or		01 - '+44791 01 - '+44701			Ocuurances	
1	204 01 205 01		UAE - Lower or UAE - Lower or	••	01 - '+44791 01 - '+44791			l Ocuurances I Ocuurances	
1	005 01		UAE - Lower or		01 · +44731 01 · '+44791			Ocuurances	
	<b>0</b> 00 01		SHE ESHOLO	oppor Oli					
						Save	Upload	Cance	

If the logger has never been configured with profiles, or you did not download the profile information then you should see a straight line on the graph (see above).

Levels Tel Numbers	Comments Profiles	Comments Profiles
\Lambda Channel 01 💽	Monday 💌	🛛 📠 Monday 💌 📃
🚣 Channel 01	Metres Head Lower	- M 🎹 Monday
\Lambda Channel 02		Tuesday —
🔬 Channel 03		
🔊 Channel 04		🚽 🛲 Thursday 👘
-1.0		🛲 Friday
1		
00:00:00 GMT Monday	06:00:00 Monday	🛲 Sunday
1 OWN MONDAY	Monday	wer Every Day

A different profile can be set for each channel and for each day if required.

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	: 490 :0 0: 1



These instructions will describe how to import information from data already collected in Radwin.

Levels       Tel Numbers       Comments       Profiles         Channel 01           Metres       Meday         Channel 01         Metres       Head Lower         Channel 03         Channel 03           Channel 04               00:00:00       06:00:00             GMT       Monday       Monday       Monday	·   · · · · · · · · · · · · · · · · · ·	Select the channel which for uploading profile information to.
Levels Tel Numbers Comments Profile:	▼ Copy	Import From Radwin
Import Profile From Radwin Import Data Select Data Source Using Radlog For Wine Load Selected Data Source Identity: Data Filename:	dows View	Click Select Data Source Using Radlog for Windows View
Required Start Date: 25/01/2008  Import Length: 1 Day(s) Starting on Day: Import Monday OK	Cancel	

Radlog for windows View will now open.

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Radcom View Click the Open Data File icon 💹 File Download Options Gra 🕂 🔁 👬 📂 Location Select - Data File Type: Data File - Select the required Zone, followed by the required Location, followed by the required Data File from the list. To Edit, Delete, or Create a new item, select the 'Tools' ^ v and the second 💼 🛛 🗙 🛅 📰 • Cone/Location/Data \* - \* Data File Identity <mark>/2</mark>4 Name 🚸 \_\_10 Automatically Generated Zone Data Time Period 🤣 \_20 thames Double click the zone which contains the data  $f_{x}$ you need. Function Sets L10 Automatically Generated Zone ΟK Cancel 🛏 Location Select - Data File Type: Data File - Select the required Zone, followed by the required Location, followed by the required Data File from the list. To Edit, Delete, or Create a new item, select the 'Tools' ^ v a star \* - \* 😓 \_\_10 : Automatically Generated Zone 🛍 🛛 🗙 🛅 🎟 🔹 Data File 1 st Identity Name ~ ₩\_\_7 ₩\_10 Double click the location BR6 7BZ 86 Ladycroft Way Orpington Data Time BR6 8EU 9 Nutfield Way Orpington Period to access the data files ₩\_\_29 ₩\_\_94 64 Merlin Grove DA16 3DF 22 Elmfield Ct. Wickham St. you need. ₩ 112 ₩ 113  $\frac{1}{f_{x}}$ DA16 2BH "The Lodge Danson Lane" DA17 5BW 39 Kentish Road Belvedere Function Sets 116 DA6 8EN 4 Brunswick Road Bexleyheath ₩ 117 ₩ 141 DA6 8HG 22 Sydney Road Bexleyheath SE25 6EJ Flat 1 Bromfield Ct 10 Oliver Gr ¥ 146 SE16 5EG "Flat 5 406-438 Rotherhithe Street SE16 7LA 1/48 Aland Ct. Finland St" ΟK Cancel

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~	
Location Sel	ect - Data File 📃 🗖 🔀
Туре:	Data File - Select the required Zone, followed by the required Location, followed by the required Data File from the list. To Edit, Delete, or Create a new item, select the 'Tools'
Data File	🏋 _3 : BR6 6LF, 10 Highfield Avenue, Orpington 💿 📔 🔀 🔚 📰 🔹 🛠 🗸
<u> </u>	File 🛆 Comment
	A0001 13/08/07 {06/04/07-13/08/07}
Data Time Period	M0001 29/06/07 (06/04/07-29/06/07)
1 Alexandre	
Function Sets	
	OK Cancel
1	

The data files available for this location are listed here. Double click on the archive or manual file to view the data within.

Click the channels drop down menu to change the data which is viewed. By default it will display All Channels, but you need to select to just one channel from a multiple channel logger so that the correct information is imported into the alarm profile..

All Channels	•
Channel 01 -	
All Channels	

Load Data File			X
Select a the grap	data channel, or a h should be update	ll data channels, to view. Select 'Enable Live Update' if ed whenever new data is added to the selected data	^ ¥
Identity			
Zone:	_100	ESSEX AND SUFFOLK	
Location:	_01	DOWNHAM RES 14446	
File:	A0004	DOWNHAM RES 14446	
Channel:	Channel 01 -	✓ Advanced	>
🔽 Load Stored Te	ext		
🔲 Enable Live Up	date	OK Cance	

Click OK to view the data.

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Radcom View V4.46 - [Graph 1]         Image: State Problem
🗋 🧉 🗃 🏧 🕸 🖉 🖌 🗖 1100_01 : DDWNHAM RES 14446 : A0004 : Chan 🚽 💭 Cursor Values 🖃 🎎 🧇
In Pressure:        10_01 : DOWNHAM RES 14446 : A0004 : Channel 1 : DOWNHAM RES 14446           6.0         6.0           2         5.5           2         5.0           2         4.5           3         4.0
0.0     0.0       2     5.5       2     5.0       2     4.5       2     4.5       2     4.0
5.5       2       5.0       2       4.5       2       3       4.0
50       2       45       2       40
4.5       2       4.0
40
₩ 30 30
2.0
1.5
1.0
0.5
0.0
12.45:00 15:45:00 18:45:00 21:45:00 00:45:00 03:45:00 06:45:00 09:45:00 12:45:00
GMT 07/02/2008 07/02/2008 07/02/2008 07/02/2008 08/02/2008 08/02/2008 08/02/2008 08/02/2008 08/02/2008 08/02/2008 Constrained and a statistical statis

Now click Alarm Programmer to bring it back in front of View.

# Click Load Selected Data Source

Import Profile From Rad	win 🔀
Import Data	
Select Data Source	Using Radlog For Windows View
Load	Selected Data Source
Data Source Identity:	
Data Filename:	
Required Start Date:	25/01/2008 🗸
Import Length:	1 Day(s)
Starting on Day:	🛲 Monday 💌
	OK Cancel

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Import Profile From Rad	win 🛛 🔀				
Import Data					
Select Data Source Using Radlog For Windows View					
Load Selected Data Source					
Data Source					
Identity:	_100_01				
Data Filename:	A0004001.01D				
Required Start Date:	07/02/2008 🔻				
Import Length:	1 Day(s)				
Starting on Day:	📰 Monday 💌				
	OK Cancel				

After clicking Load Selected Data Source you should see information in the Data Source information boxes.

The Identity number of the logger.

The Data Filename.

The required Start data is taken from the beginning of the graph, but you can select a different day by using the drop down menu.

You can import up to seven days of data using the drop down menu.

Select the day into which this information should be imported into using the drop down menu.

Click OK to import the data.

Create Profiles From	The Selected Data			
Data Summary	Minimum Value:	Maximum Value:	1	The alarm levels for the profile can
Upper Profile Actual Data	62.150002 57.150002	63.525002 58.525002		be set here.
Lower Profile	52.150002	53.525002		Apply a fixed offset here.
Apply Offsets to Profiles	Upper Profile	(+) Lower Profile ( · )	1	The upper and lower alarm levels
<ul> <li>Apply Fixed Offset</li> </ul>	5	5		will be 5 units higher and 5 units
C Apply Percentage (	Diffset 10.000000	10.000000		lower than the level of the data respectively.
		OK Cancel		

Click OK to continue.



Ľ	Mult	ilog Flas	h GSM/SI	MS Alarm Con	figuration	:2000	00			
l	.evels	Tel Num	bers Comr	ments Profiles						
	£ c	hannel 01	•	Monday 💌	Сору	. Imp	ort From Radw	in Imp	ort ASCII	
	1	Press	ure - Metre	s Head Lower						
		40 -								
		20								
		<u>م</u>								
	GMT	00:00:00 Monday		06:00:00		00:00	18:00: Mond		00:00:00 Monday	
				Monday	MO	nday	Mond		Monday	- 11
	Time:		Lower 62,799999	Upper 52,799999	1					
	🤣 o 🛞 o		62.900002		-					
	₩0 1000		63.025002							
	<u>  ~~ 0</u>	5.00	03.023002	. 33,023002						
	Alarm	Cha	nnel [	Туре:	· · ·	Telephone		Persistence		~
4	<b>)</b> 01	02	l	LUAE - Lower or	Upper Al	01 - '+44791	299665'	1 Out Of 1 O	cuurances	
	<b>b</b> 02	01	l	LUAE - Lower or		01 - '+44791		1 Out Of 1 O		
	<b>6</b> 03	01		LUAE - Lower or		01 - '+44791		1 Out Of 1 O		
	04	01		LUAE - Lower or		01 - '+44791		1 Out Of 1 O		
	05	01		LUAE - Lower or		01 - '+44791		1 Out Of 1 O		
14	<b>b</b> 06	01	l	LUAE - Lower or	Upper Al	01 - '+44791	299665'	1 Out Of 1 O	cuurances	~
							Save	Upload	Cance	el

An alarm profile has now been imported into the software as you can see on the graph above. It shows the upper level in green and lower in purple.

This only applies to one day. Click every day to see the profiles for the rest of the week.

\Lambda Channe	Numbers C	omments Profiles	l Copy	Import Fr	om Radwin	Import A	scii
	Pressure - Me	tres Head Lower	00:00:0		00:00:00	00:00:00	00:00:00
GMT Mon		nday Tuesday	Wedne	sday Thursday	Friday	Saturday	Sunday
Time:	Lower	Upper			<u>^</u>		
🏀 17:00	0.0000	0.000000					
(2) 18:00	0.00000	0.000000			-		
		0.000000					
<ul><li>19:00</li></ul>	0.00000		-				
	Channel	Туре:		Telephone	P	ersistence	
(2) 19:00		Type: LUAE - Lower or	Upper Al	Telephone 01 - '+447912996	- I dia	ersistence Out Of 1 Ocuur	
<ul><li>19:00</li><li>larm</li></ul>	Channel				65' 1		rances
<ul> <li>49:00</li> <li>larm</li> <li>01</li> </ul>	Channel 02	LUAE - Lower or	Upper Al	01 - '+447912996	65' 1 65' 1	Out Of 1 Ocuu	rances
<ul> <li>19:00</li> <li>larm</li> <li>01</li> <li>02</li> </ul>	Channel 02 01	LUAE - Lower or LUAE - Lower or	Upper Al Upper Al	01 - '+447912996 01 - '+447912996	665' 1 665' 1 665' 1	Out Of 1 Ocuu Out Of 1 Ocuu	rances rances rances
<ul> <li>19:00</li> <li>larm</li> <li>01</li> <li>02</li> <li>03</li> </ul>	Channel 02 01 01	LUAE - Lower or LUAE - Lower or LUAE - Lower or	Upper Al Upper Al Upper Al	01 - '+447912996 01 - '+447912996 01 - '+447912996	65' 1 65' 1 65' 1 65' 1	Out Of 1 Ocuu Out Of 1 Ocuu Out Of 1 Ocuu	rances rances rances rances



It is possible to copy this profile to other days. Change the view back to Monday, then Click Copy.

onok oopy.		
Levels Tel Numbers Comments Profiles	<b>A</b>	
🗟 Channel 01 💌 🌆 Monday 💌	Сору	Import From Radwin
1 Pressure - Metres Head Lower     0.5		

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Copy Profile	
Copy Monday Profile To:	
<ul> <li>✓ Tuesday</li> <li>✓ Wednesday</li> <li>✓ Thursday</li> <li>✓ Friday</li> <li>✓ Saturday</li> <li>✓ Sunday</li> </ul>	OK Cancel

Tick the days that you wish to copy the profile to.

Click OK

Now change the view again so that you can see the profile for every day and you should see the graph fills the screen.

01         02         LUAE - Lower or Upper Al         01 - '+44791299665'         1 Out Of 1 Ocuurances           02         01         LUAE - Lower or Upper Al         01 - '+44791299665'         1 Out Of 1 Ocuurances           03         01         LUAE - Lower or Upper Al         01 - '+44791299665'         1 Out Of 1 Ocuurances           03         01         LUAE - Lower or Upper Al         01 - '+44791299665'         1 Out Of 1 Ocuurances           04         01         LUAE - Lower or Upper Al         01 - '+44791299665'         1 Out Of 1 Ocuurances           05         01         LUAE - Lower or Upper Al         01 - '+44791299665'         1 Out Of 1 Ocuurances	evels   Tel Nu	mbers Comme	ents Profiles					
40       40 <td< th=""><th>🔬 Channel 0</th><th></th><th>very Day 🔫</th><th>Сору</th><th>Import Fr</th><th>om Radwin</th><th>Import.</th><th>ASCII</th></td<>	🔬 Channel 0		very Day 🔫	Сору	Import Fr	om Radwin	Import.	ASCII
20       0       00:00:00       00:0:00       00:0:00	1 Pres	ssure - Metres	Head Lower					
20       0       00:00:00 <th>40]</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	40]							
0       0:00:00:00       00:0:00       00:0:00       00:0:00:00       00:0				<del>8</del> - 8				
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GMT Monday       Monday       Tuesday       Wednesday       Thursday       Friday       Saturday       Sunday         Time:       Lower       Upper	<del>-</del>		00.00.00	00.00.00	00.00.00	00.00.00	00.00.00	00.00.00
Image: 17:00       62.375000       52.375000         Image: 18:00       62.174999       52.174999         Image: 19:00       62.150002       52.150002         Image: 19:00       62.150002       10.0101 Occurrances         Image: 19:00       10:02       10:02       10:02         Image: 19:00       10:02       10:02       10:02       10:02         Image: 19:00       10:02       10:02       10:02       10:02         Image: 19:00       10:02       10:02       10:02	23356157	NA (500000000	0.	172755477		2.232.232.230		
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Repeat the process for every channel that you want profile alarms for.

Be sure to set up an alarm condition for the profile (page 13).

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### Uploading to the logger

Save Upload Cancel Click Upload settings to the	d to send the ne logger.
Upload Configuration	
Logger Zone1 Location1 Type: \top Multilog LX    Baud:	9600
Connection:	Click Next
Connection:     Direct (RS232)       GSM Data Number:	
Next>>	Cancel
Upload Options	Click OK
Options  Alarm Conditions, Levels, Telephone Numbers, Comments  Alarm Profiles  OK Cancel	Make sure you tick the profiles box if you have configured them and your logger accepts them.
Uploading	Wait for upload to finish
Estimated Time Remaining: 0 Seconds	

When uploading has finished you will be returned to the main Alarm Programmer window, and the conditions you have set will cause the logger to alarm out when they are exceeded.

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### **Receiving Alarms**

Alarm Receiver must be running to receive alarm messages. Without alarm receiver running Radwin will not be able to process messages. Ideally Alarm Receiver should be left running at all times.



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### Alarm Receiver with messages



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#### Audible Warning

If an alarm is received you can set the Alarm Receiver program to make an audible warning sound (working sound card and speakers required).

From the Configuration menu select Basic Configuration

🗰 Radcom Alarm Receiver					
File Options	Configuration	Start Help			
<b>%</b>	Basic Config Advanced C	juration Configuration			
<b></b>	Harancoa e				

System Configu	ration : Alarm Receiver - Basic	×
Configure:	Alarm Receiver Options - Configure the alarm report displayed by the Alarm Receiver. A data download may also be requested (via Autocall) when an alarm is received. Note: SMS Alarm messages are	
Alarm Programmer	Database       System       Startup       Alarm Receiver Ports       Alarm Receiver Options       Printing         Data Download (Using Autocall)	
Alarm Receiver	Display Type         Display Active Alarms Only         C Last Day         C Last Month         C Last 6 Months	
Remote Autocall	C Last Week C Last 3 Months C Last 12 Months C Last 31 Days Display All Active Alarms Regardless Of Time	
Remote Alarm Receiver	Kenabled Alarm Repeat Frequency: 30 Seconds     WAV File: C:\WINDOWS\Media\notify.wav     Browse      OK Cancel	

Alarm Receiver will play any WAV file as an audible alarm.

Tick the "Enabled" box and use the Browse button to select a WAV file. Select a repeat frequency from the drop down menu and the click OK.

When alarm messages are received the selected WAV file will play, and will be repeated at the interval you selected.

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### Options for dealing with an alarm

### Acknowledge Alarm

👪 Ra	🜃 Radcom Alarm Receiver										
File	Options Configuration Start Help										
Ø	Acknowledge Selected Alarms Export Alarm List										
Alar	View Graph		🔬 Channel	🖧 Channel Type			Loca	0	Alarm	Receive	en
	······	r Level	1	Flow	09/10/07	16:46:00		Search:			-



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### Export Alarm List





#### Example exported alarm list...

Alarm State	Logger ID Alarm Type Channel	Channel Type Time	Location Name
Active	11 Upper and Lower Level 1	Flow 09/10/07 16:46:00	Alarm Logger

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### **Start Other Radwin Programs**



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