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Monitoring Remote Station

From Resource Data Management

Description

MaRS software allows the user to receive and view alarms generated by Data Managers and Data Directors remotely. MaRS can be easily installed on a PC or Laptop and requires minimal alterations to existing Data Manager/Data Director sites that can be accessed remotely on a WAN/LAN structure. This software enables alarms to be directed from several sites to one point, such as an office PC, thus allowing the user to view alarms from various locations without the need to view each individual alarm log in different Data Manager/Data Director sites. This program does **not** support analogue telephone modem dial-in alarms and supports only IP.

Minimum Operating Specification

- Windows 7 or 8
- 1GB RAM
- 2GB of free hard disk space.

Note: a greater amount of free disk space will enable the MaRS software to store more alarms in its database.

MaRS Software Installation

The following explains the setup procedure required to install MaRS Software.

- Close any applications that are currently running.
- Insert the MaRS software CD into the PC/Laptop you wish to use.
- A "RDM MaRS Setup Wizard" will now be launched. Click "next" and follow the onscreen instructions to complete the installation.
- Once the Setup Wizard is complete you will have to restart your system before running the software.

On running the MaRS Software for the first time the user will be prompted with an "Activation Request" window. At this point RDM Technical support should be contacted (+44(0)141-810-2824). It will be necessary to quote the "Request Key" and provide proof of purchase such as an RDM Sales Order number. The user will then be issued with a "Response Key", which can be entered into the "Activation Request" window, enabling the MaRS software.

MaRS Program Menus

File - Exit

Allows the user to exit the software in a controlled manner.

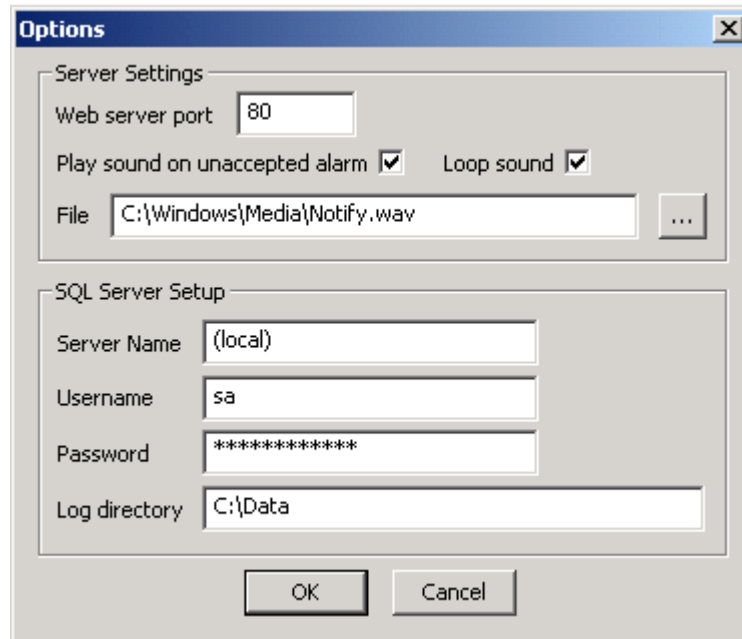
Help - About MaRS

Provides information about MaRS such as the software revision.



Tools - Options

Selecting options from the Tools menu opens the following window.



The screenshot shows the 'Options' dialog box with the following settings:

- Server Settings:**
 - Web server port: 80
 - Play sound on unaccepted alarm:
 - Loop sound:
 - File: C:\Windows\Media\Notify.wav
- SQL Server Setup:**
 - Server Name: (local)
 - Username: sa
 - Password: *****
 - Log directory: C:\Data

Buttons: OK, Cancel

Server Settings

Web Server Port

This allows the user to select an alternative port should the default, port 80, be in use.

Play Sound on Unaccepted Alarm

Enables an audible warning to inform the user there is an unaccepted alarm(s) waiting to be accepted.

Loop Sound

This feature plays the sound in a loop repeating the warning sound until the alarm(s) have been accepted.

File

Allows the user to point MaRS to a location on the hard disk drive where an alternative .WAV audio file can be used instead of the default "Notify" as the audio warning for unaccepted alarms.

SQL Server Set-up

The SQL server default values should enable MaRS to receive and display alarms on an existing PC setup. Changes to these values may have adverse effects on the way alarms are received. Changes should only be made if you have a second SQL server you would like to direct the alarms to. Alterations to these settings should only be made by relevant IT personal.



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IP Network Configuration

The Data Manager must be on a LAN or WAN which can be accessed from the location the PC running MaRS is based. A typical application is outlined in [Appendix 1](#).

Data Manager Set-up

Once the MaRS software has been successfully installed it is necessary to configure the Data Manager from which alarms are to be received. Firstly it is prudent to ensure the alarm indexes have been correctly set for each controller associated with the Data Manager.

Via the alarm actions page it is possible to select which actions will be sent to the MaRS software, thus allowing the user to get all the alarms generated by that site or to be selective over which alarms they receive. On the alarm actions page select a modem from which alarms are to be sent to the PC running MaRS software. At this point you must know the IP address of the modem that connects the PC running MaRS to the WAN. The IP address should be entered into the field "Number/URL" of the Data Manager modem that has been configured. Now any alarms sent out from this modem will be directed to the site running MaRS software.

Note there is an option in the Data Manager modem setup to send alarm clears to the MaRS software. The alarm clears will highlight alarms that have occurred but now cleared, these alarms will turn green in the MaRS software. For documentation regarding the set up of a Data Managers various features please refer to the commissioning guide which can be found on the RDM website.

Once the MaRS software has been fully installed and the Data Managers you wish to receive alarms from have been configured then you can run the MaRS software.



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Operation of MaRS

Unaccepted Alarms

MaRS						
File Tools Help						
Unaccepted Alarms						
Number	Time	Site	Controller	Alias	Alarm	
27	10:25 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
26	10:25 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
25	10:24 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
24	10:23 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
23	10:22 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
22	10:22 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
21	11:38 22/10/12	RDM Data Manager	System	System	Dial out failed	
20	10:20 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
19	10:20 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
18	10:18 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
17	10:18 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
16	10:16 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
15	10:16 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
14	10:14 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
13	10:14 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
12	10:06 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
11	10:06 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 2	
10	10:02 25/10/12	RDM Data Manager	497	FTYPE_PPC	S1 Stage Fault 1	
9	11:13 22/10/12	RDM Data Manager	-----	RDM Data Director	RDM Test Dialout	
7	15:16 19/10/12	RDM Data Manager	005	Case Controller (HT)	Controller offline	

Accepted Alarms						
Number	Time	Site	Controller	Alias	Alarm	Accepted Time
8	16:43 19/10/12	RDM Data Manager	System	System	Dial out failed	11:19 22/10/2012
6	11:10 22/10/12	RDM Data Manager	-----	RDM Data Director	RDM Test Dialout	11:19 22/10/2012

When an alarm is received it appears in the top box and an audible alarm will sound, depending on your preferences, to notify the user that there are alarms to be accepted. On receiving the first alarm it may be necessary to adjust the tabs to reveal all the information provided by the alarms. When this adjustment has been made once each subsequent time the software is opened it will remember the previous preferences.

To accept an alarm use the mouse cursor and right click on the alarm to be accepted. At this point you may decide to accept the individual alarm that has been generated or to accept all the alarms in the top box.

To select multiple alarms at one time hold the control key and select the alarms (as shown above) and then right click on alarms and accept.



Accepted Alarms

MaRS							
File Tools Help							
Unaccepted Alarms							
Number	Time	Site	Controller	Alias	Alarm		
Accepted Alarms							
Number	Time	Site	Controller	Alias	Alarm	Accepted Time	
74	14:26 01/08/06	1234 Training Room DM	HUMSTA	Humidistat	Stat A Over Temperature	14:27 01/08/2006	

Once an alarm has been accepted by the user it moves from the "Unaccepted Alarms" box into the "Accepted Alarms" box, as shown above. It remains here and when an alarm clear is sent from the Data Manager the received alarm turns green to indicate an alarm has occurred but now cleared.



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Alarm Clear Received

MaRS						
File Tools Help						
Unaccepted Alarms						
Number	Time	Site	Controller	Alias	Alarm	
Accepted Alarms						
Number	Time	Site	Controller	Alias	Alarm	Accepted Time
163	10:08 30/08/06	1234 Training Room DM	RC00-7	Case Controller (LT)	Controller offline	10:14 30/08/2006
162	10:04 30/08/06	1234 Training Room DM	RC00-7	Case Controller (LT)	Probe 2 Faulty	10:07 30/08/2006
161	10:04 30/08/06	1234 Training Room DM	RC00-7	Case Controller (LT)	Probe 1 Faulty	10:07 30/08/2006
160	10:02 30/08/06	1234 Training Room DM	RC00-7	Case Controller (LT)	Probe 2 Faulty	10:06 30/08/2006
159	10:02 30/08/06	1234 Training Room DM	RC00-7	Case Controller (LT)	Probe 1 Faulty	10:06 30/08/2006
158	09:58 30/08/06	XXXX RDM Data Manager	RC00-7	Case Controller (LT)	Probe 2 Faulty	10:01 30/08/2006
157	09:58 30/08/06	XXXX RDM Data Manager	RC00-7	Case Controller (LT)	Probe 1 Faulty	10:01 30/08/2006
156	09:55 30/08/06	XXXX RDM Data Manager	RC00-7	Case Controller (LT)	Probe 2 Faulty	09:56 30/08/2006
155	09:55 30/08/06	XXXX RDM Data Manager	RC00-7	Case Controller (LT)	Probe 1 Faulty	09:56 30/08/2006

As shown above when an alarm clear is received by the MaRS software the corresponding alarm will be highlighted green. Unaccepted alarms (in the top box) can turn green should an alarm clear be received before the user accepts the alarm.

When the user exits the MaRS software the list of alarms received will be retained and displayed the next time the program is started. MaRS software will list up to 7 days worth of alarms from previous sessions when it is restarted. Each time the software is run the subsequent alarms received will be appended with a number that follows the last alarm received in the previous session. Thus allowing the user to keep a running total of how many alarms they have received.



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Alarm Information

When an alarm is generated by a Data Manager and received by the MaRS software there is information attached to the alarm. An explanation of the information appended is outlined below.

Number

When the MaRS software receives each alarm it gets appended with a number. This number allows the user to easily see which alarm occurred first and how many alarms they have received.

Time

This is the time the alarm was generated by the Data Manager.

Site

This information refers to which Data Manager site sent the alarm. It is important to accurately name the Data Manager via its Site ID. This allows the user to easily differentiate the various sites, which is important if you are running a large number of Data Managers connected to the MaRS software.

Controller

This provides the controller ID. For example BY10-1 or RC22-6.

Alias

This displays the controller description. This description can be given an alias via the Data Manager.

Alarm

Informs the user of which alarm has been generated by the Data Manager. An example could be "Stat A Over Temp".

Accepted Time

The time at which the alarm was accepted by the user in the MaRS software. Note this is displayed in the "Accepted Alarms" box.

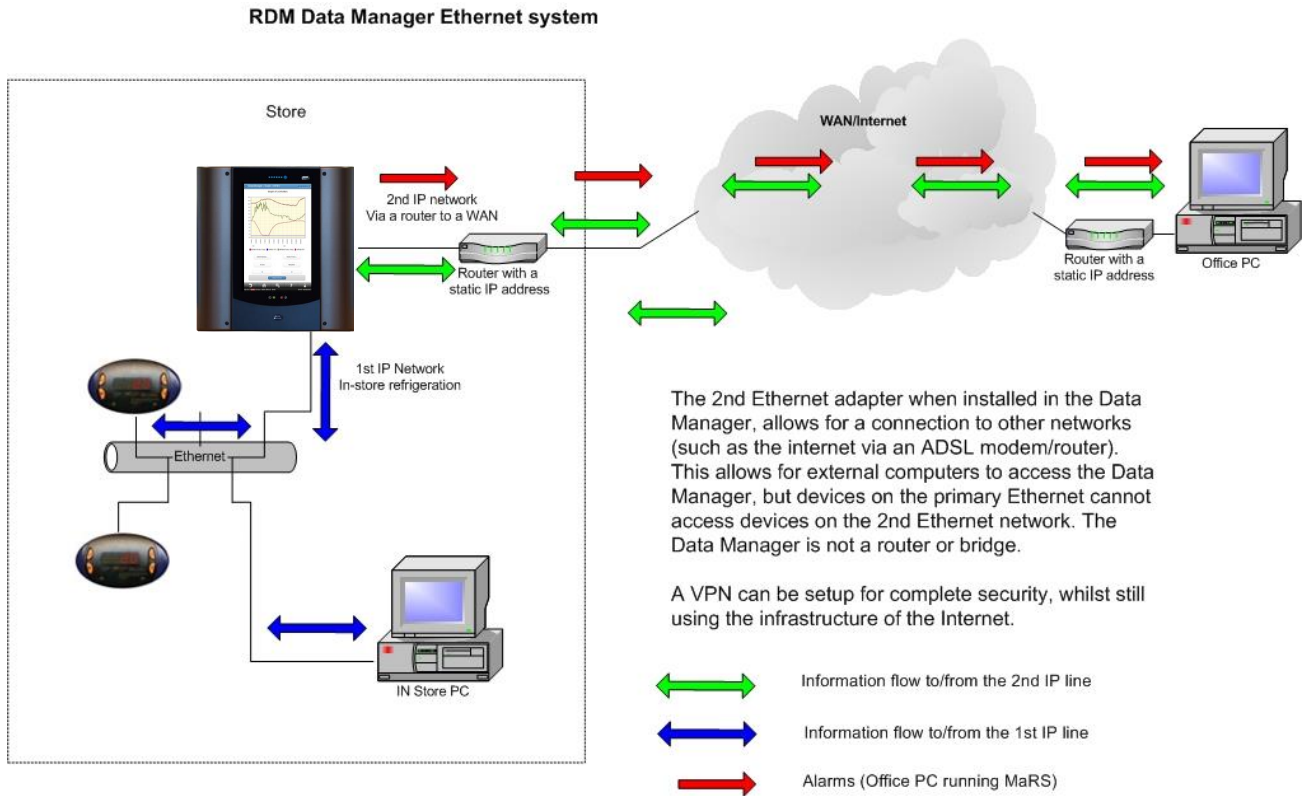
It is possible to sort the alarms by clicking on the desired tab. For example clicking the "Number" tab once will sort the alarm numbers allowing the user to display the alarms either in ascending or descending order.



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Appendix 1

Typical Network Configuration – MaRS



The above diagram shows how a Data Manager site can be connected to a wide area network; thus enabling a user to remotely access the Data Manager.

To use MaRS the following set-up steps must be applied: -

A static IP address is required in the ADSL modem/router that connects the PC running MaRS to the WAN/Internet. Data Manager alarms are then directed to this static IP address. The ADSL modem/router must also configure the MaRS PC to have a static route.

These steps will ensure any alarms generated by a Data Manager will reach the destination PC.

Your Internet service provider should be able to provide a static IP address for a broadband account.

It is also necessary to obtain a broadband account with a static IP address for each Data Manager site you want MaRS to include.

Note: - The MaRS licence key is provided for use on a single PC/Laptop, and is only valid for the life of that equipment. The licence key is non-transferable to another PC.

Disclaimer

The specifications of the product detailed in this document may change without notice. RDM Ltd shall not be liable for errors or omissions, for incidental or consequential damages, directly or indirectly, in connection with the furnishing, performance or misuse of this product or document.



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