



USER INSTRUCTIONS FOR THE CABAK MONITOR PROGRAM



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Section 1/ - About this document

The purpose of this document is to provide the user with a reference to information about what tasks the Cabak Monitor Program can perform where to go to access the data and how the data is used.

Throughout this document, there are many notes and warnings. These are depicted by the following icons:



Note: There are many features that have been protected via password. Refer to the Access Control Section for further information.

Section 2/ - Disclaimer

This Cabak Monitor Program solution is intended to offer the client an economical alternative, in applications such as power monitoring, energy usage and sub-billing. The data is indicative of usage and the generation of reports is based on a charge rate set by the client. This Program only records the After Hours Usage based on time, or the After Hours on and off events to establish tenant usage.

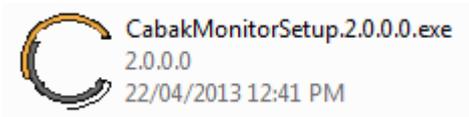
The Cabak Monitor Program is designed to perform many client designed functions, some of which can be billing tenants based on time or percentage of usage. This data is received from other equipment and sources. The level of accuracy of the Cabak Monitor Program depends on the level of accuracy of the peripheral equipment.

The data collected is not intended to be used as evidence against Energy providers to validate their charges to you.

Email and Text messaging relies on service providers and is therefore not guaranteed to be sent instantly. Some delays may occur. Do not use in applications where it is imperative that alerts or warnings are sent instantly.

Section 3/ - Installing the Program

1. To commence the Installation, double click on the CabakMonitorSetup Icon.



2. Once entered into the setup, the program will create a default installation destination folder of C:\Program Files\CABAK Monitor. This may be changed by clicking on browse and then selecting an alternate directory.

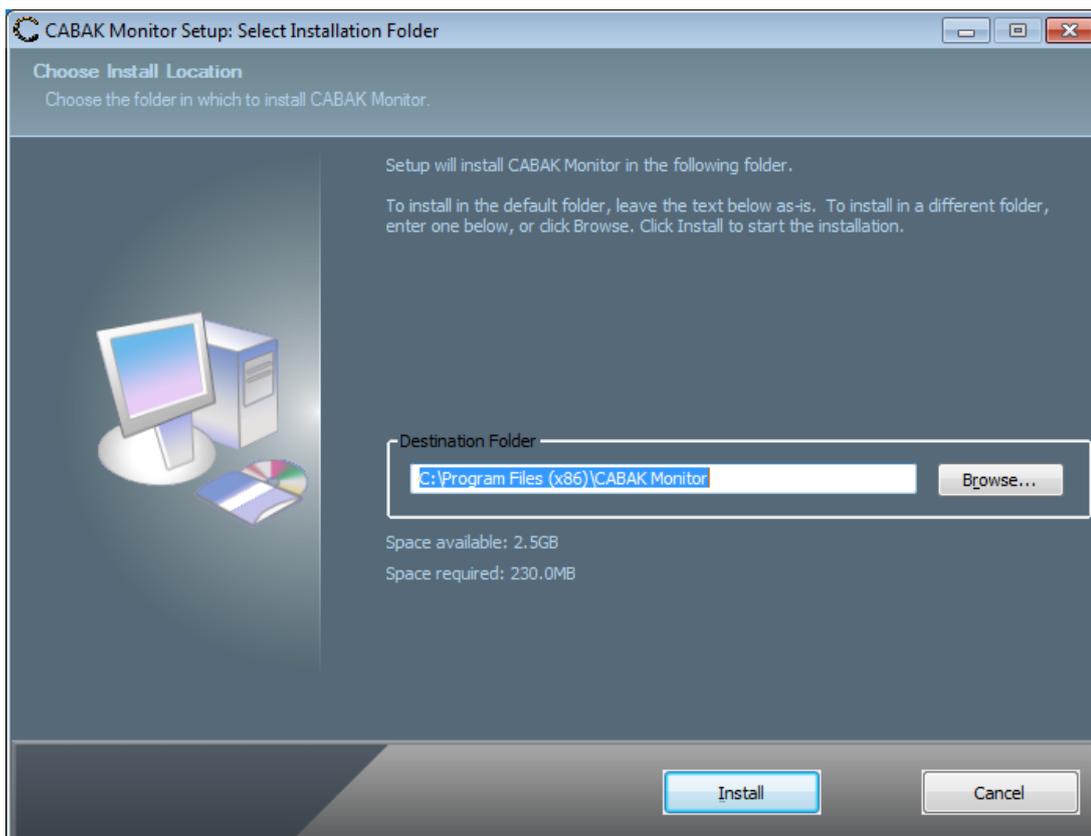


Figure 3-1: Installation Part 1 - Installation Folder

The Cabak Monitor Program requires 84.8MB of memory on the hard drive of the installation computer. After a suitable directory has been chosen, click Install to commence installation of the Cabak Monitor Framework and SQL Server Settings.



Note: The Installation computer must be logged in as admin with full admin and installation rights.

3. The program will then extract and install the Cabak Monitor Framework and SQL Server Settings.

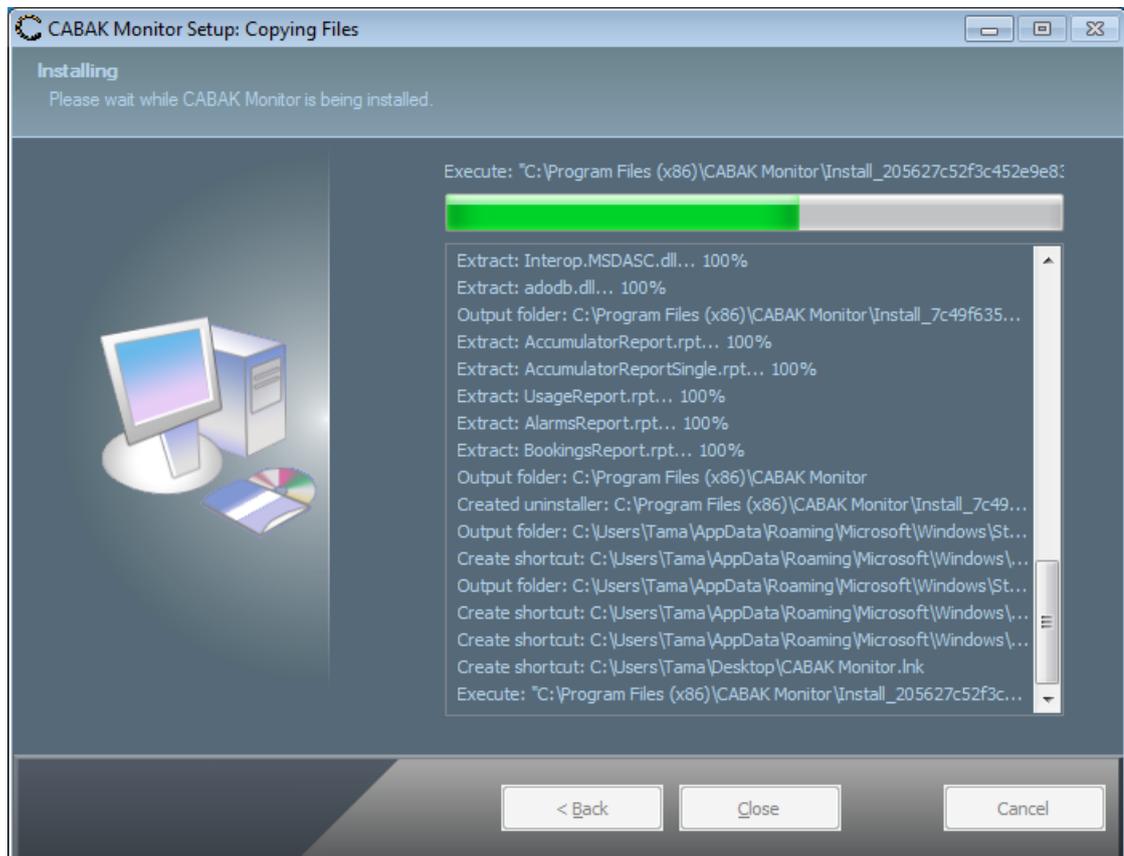
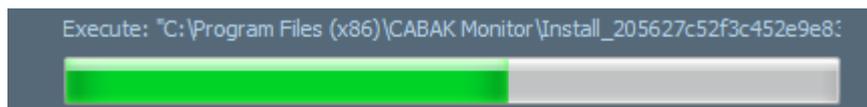


Figure 3-2: Installation Part 2 - File Extraction

The progress of the extraction is followed by the bar at the top of the window.



The Installation can be cancelled at any time by pressing STOP.

4. During the extraction of the Cabak Monitor Framework and SQL Server Settings files, the following Welcome screen will appear, requesting the closure of all other applications before commencing the installation of the actual Cabak Monitor Software.

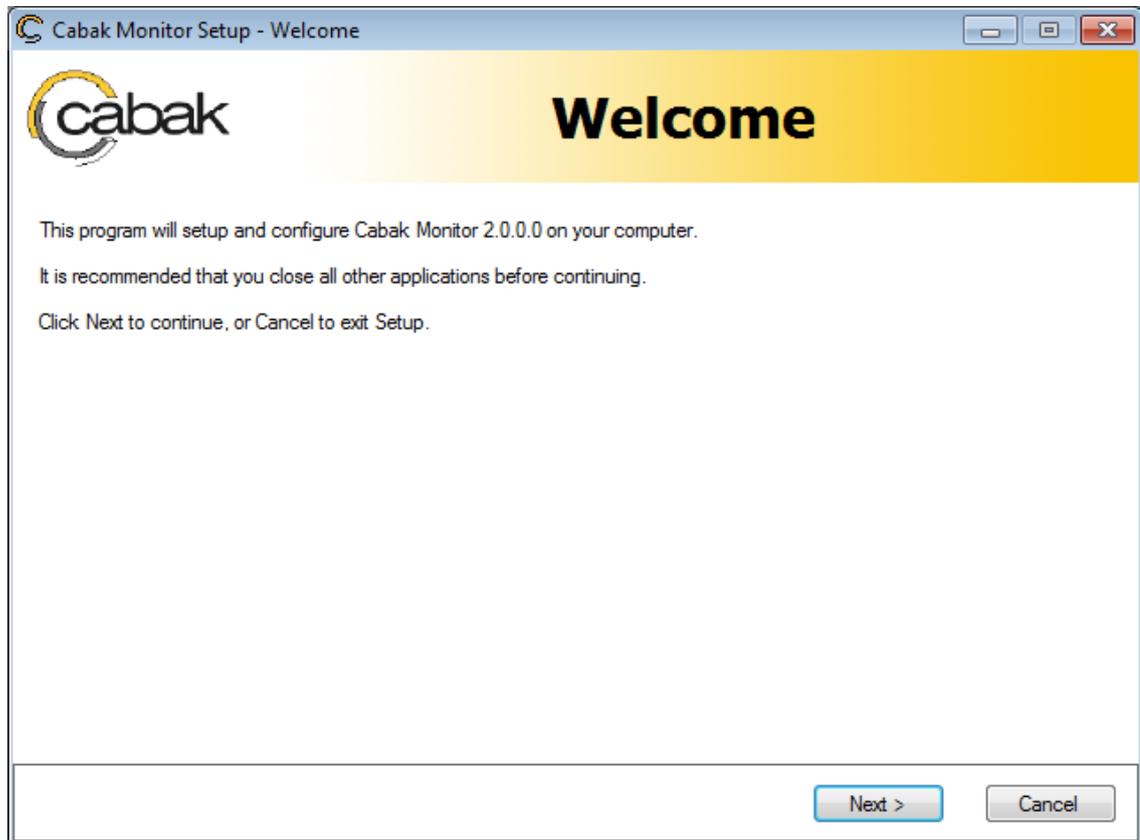


Figure 3-3: Installation Part 3 - Welcome

After ensuring all programs are closed, click 'next' to continue with the installation, or click Cancel to exit Setup.

5. If the setup detects any previous instances of the Cabak Monitor or launcher programs running simultaneously, it will request their termination before continuing.

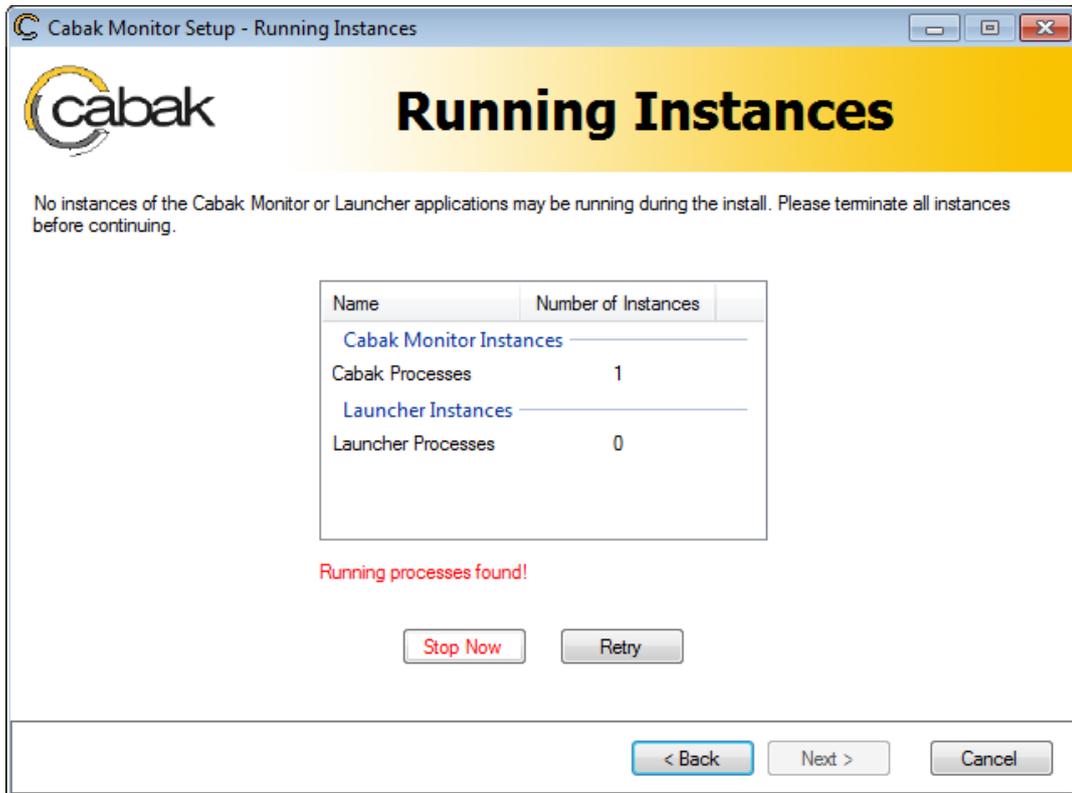


Figure 3-4: Installation 4 - Termination of Running Processes

These running processes can be stopped automatically by pressing **STOP NOW**, or they can be terminated manually and clicking Retry before continuing by clicking 'next'.

6. To advance with the setup, the Terms and Conditions of the Cabak End user licence Agreement must be read and agreed with.

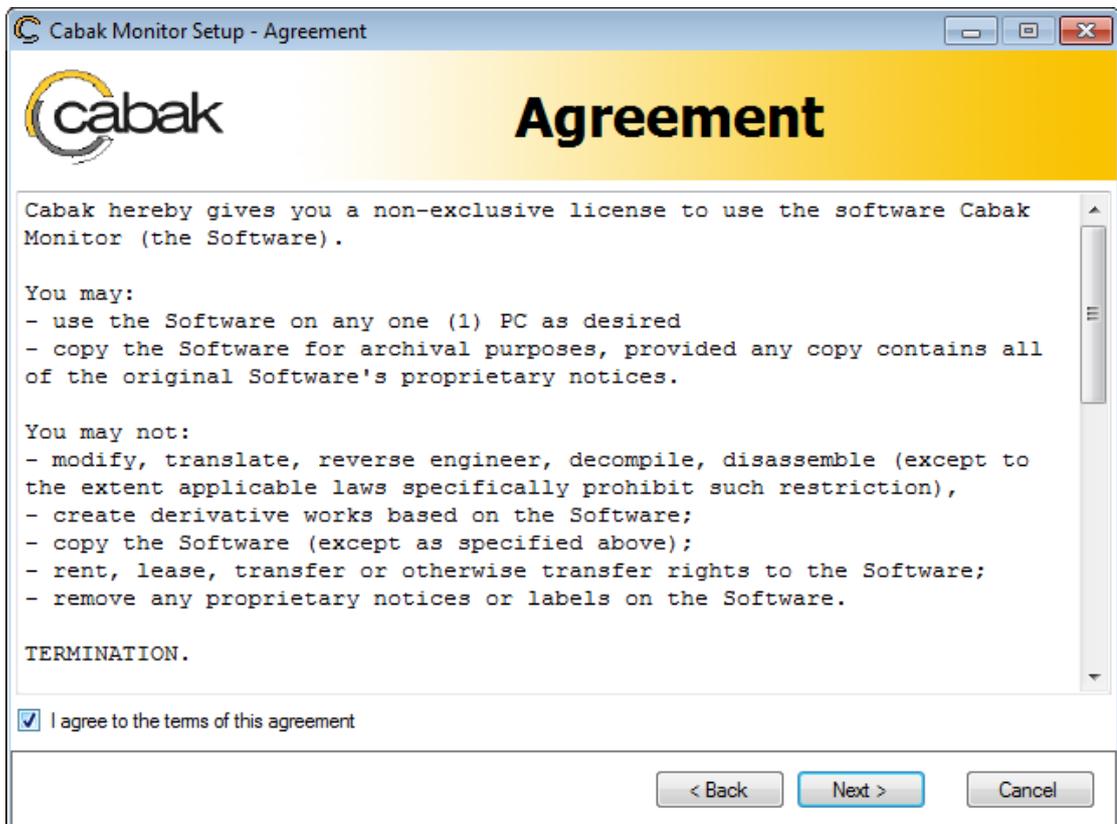


Figure 3-5: Installation Part 5 - Terms and Conditions

If you agree with the terms of this agreement, tick the box before clicking 'next'. The Cabak Monitor Setup will then continue installing the application.

7. After this, the Setup will perform database checks. Once finished, you will be required to select the desired database option for the application. If it is an initial install, choose the Create a new database option (Recommended Action). Only if you are updating an older site or reinstalling the program should you choose the alternative installation methods.

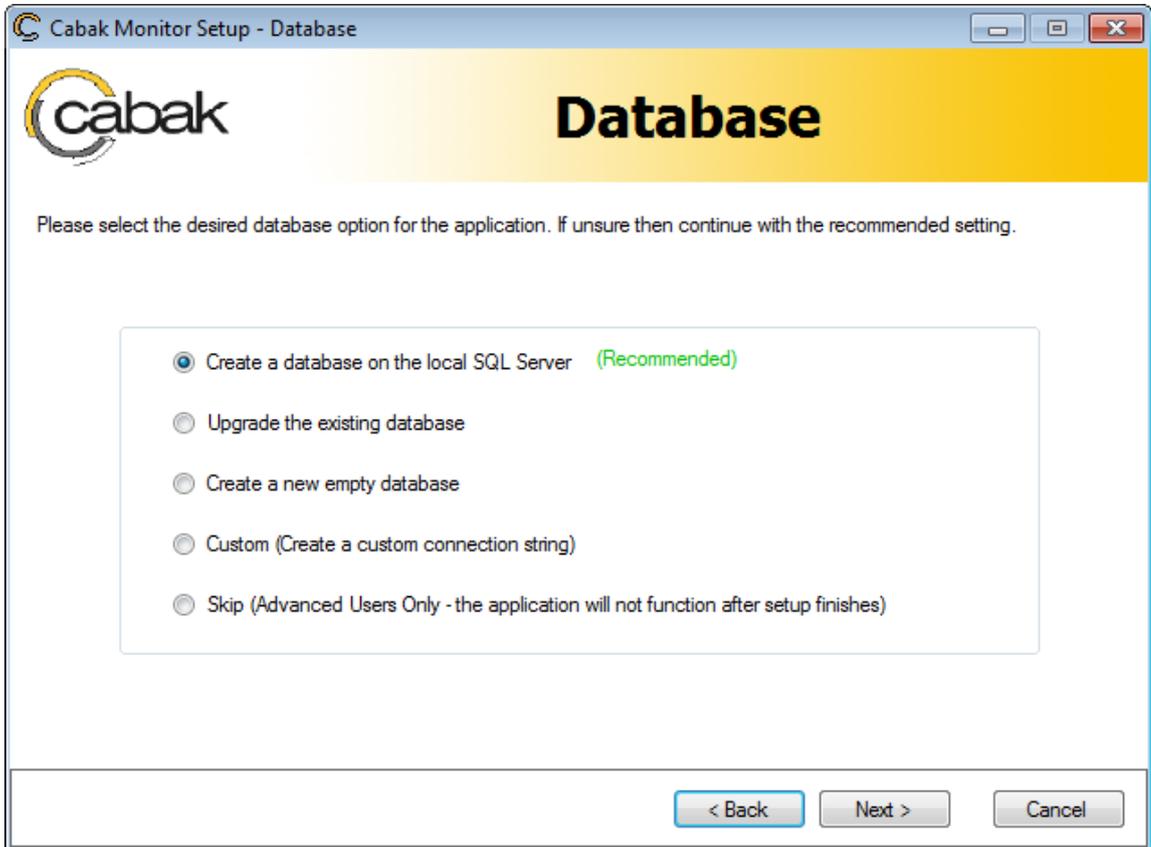


Figure 3-6: Installation Part 6 - Database Option Selection

You can also choose to create a custom connection string or skip this setting completely.



Note: This is for installations that are not initial installs, i.e. for upgrades

If you have selected the recommended installation of SQL Server Express 2008, it can take up to 30 minutes depending on your computer.

Click OK to continue extraction and installation.

Section 4/ - Entering the Program

After a successful Install, upon opening the program, the following window will appear:

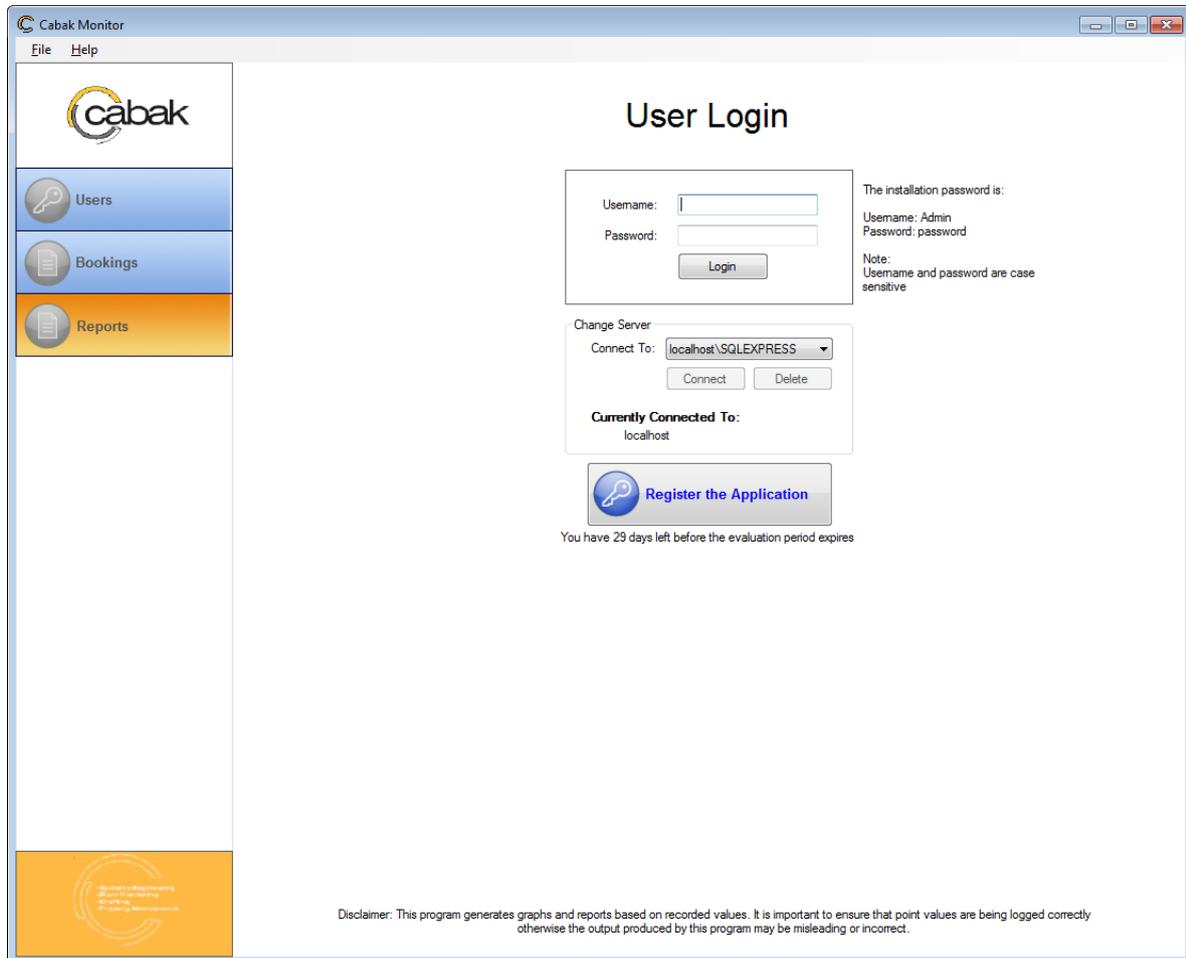


Figure 4-1: User Login Page

In order to gain access to the program for initial Admin Setup, you must enter the username “admin” and the password of “password” (without quotes).



Note: The passwords are case sensitive



Note: The very first time after the initial setup the user can configure their own username and passwords for admin and each subsequent user.

Refer to the User Management Section.



Warning: remember your username and passwords

The Cabak Monitor Program comes with a 30 day evaluation period. Before the end of these 30 days, the program must be registered. Simply click on the registration button to commence registration.



Clicking on the registration button will bring up the following window:



This window contains the Installation ID for the copy of Cabak Monitor Software. Each Software Program has its own unique Installation ID.

In order to register, the Registration Key must be entered in the required spaces. To access the individual Registration Key, the Installation ID must be emailed to cabakmon@controlworks.com.au after which the Program Specific Registration Key will be sent to the return email address.



Warning: If the copy of Cabak Monitor Software is not registered within the required 30 days, the Program will cease functioning.

Registering the Software will remove the Registration Button from the User Login page.

Section 5/ - Setting up the Environment

The program requires initial set up. This will include defining the points, clients and alarm types. Typically this will be done with commissioning and not require changing after the initial setup. Items such as users, charge rates and alarm contacts are typically items that are regularly altered and dealt with in future sections.



Note the user must be logged in as the administrator to perform this function.

The screenshot shows the 'Setup Page' for Cabak Monitor. It is divided into several sections with various input fields and checkboxes. Red numbers 1 through 21 are placed around the page to highlight specific features and fields. The fields are as follows:

- 1: Start Minimised
- 2: Enable Crash Prevention (application automatically restarts after a shutdown)
- 3: Enable BACnet (requires Cabak Monitor to restart before taking affect)
- 4: Limit Monitor Polling: 10 mins (dropdown menu)
- 5: Global Charge Rate: 0 (text input)
- 6: Modem Port: COM1 (text input)
- 7: TCP Socket: IP: 192.168.1.58, Port: 3652, Message End: <ETX> (dropdown menu)
- 8: (Label for TCP Socket section)
- 9: Test Message: (text input)
- 10: Test (button)
- 11: SMTP Server: mail.myisp.com.au (text input)
- 12: User Name: Steve (text input)
- 13: Password: (password field with dots)
- 14: (Label for Password field)
- 15: From Email: Steve@myisp.com (text input)
- 16: Test (button)
- 17: Sent to the 'From Email' (text)
- 18: Site Name: My Site Name (text input)
- 19: Site Address: Address of the site (text input)
- 20: Site Contact: Bill (text input)
- 21: Email: billy@microsoft.com (text input)
- 22: Report Contact: John (text input)
- 23: Email: von@neumann.com (text input)

Figure 5-1: Setup Page

1. Start Minimised: By default, the program will start in a maximized state (unchecked). To start the program minimized, tick the box.
2. Enable Crash Protection: Should the Cabak Monitor Application stop for any reason, the Cabak Launcher will continue to attempt to relaunch the program if this box is ticked.



Note: The Cabak Monitor Application will install a shortcut in the start-up folder of your computer. This is to ensure each time you start the computer the program runs.

To manually disable this feature, will be disabled if you go to the pull down menu FILE EXIT or go to the system tray and right click then select shut down the application. Currently there is no option to turn this feature off during installation.

3. Enable BACnet: This checkbox once ticked enables the BACnet protocol to query devices which support BACnet. A restart of Cabak Monitor is required to enable/disable this feature.
4. Limit Monitor Polling: After a full enumeration of polling all the points the polling will stop for a set duration defined here. After the time has elapsed the polling will continue again. For example it's useful if you require the points to be queried each hour.
5. Global Charge Rate: If the program is being used to produce bills and all the input types are the same, e.g. all hours, this gives a single point to apply a charge rate to the entire project. For more complex installations, e.g. where hot water flow and cold water flow is measured; a separate charge rate per point can be applied. Refer to Point Setup Section. Alternatively, each client can have a different charge rate. Refer to Address Section.
6. Modem Port: The computer port number of the modem used to send alerts via SMS through.
7. TCP/Socket: Sending a plain message via sockets requires an IP address and Port and a character to determine the message end. This is useful to communicate alarms to homemade applications or applications like Genesys.
8. Message End: The end message character signifies to the remote application that the message has finished transferring. This is specific to the remote application.
9. Test Message: Enter some text here to test your configuration settings are correct.
10. Test: Test the TCP/Socket message.
11. SMTP Server: If you wish to send reports or alarms via email, then you will be required to have a permanent internet connection and enter your full SMTP Server address, user name and password, and a from email address. E.g. the site name can be used.



Note: automatic reports are sent to the site contact email address on the 1st of each month

12. User Name: The user name for the SMTP server to be used.
13. From Email: This is an alias from email address
14. Password: The password for the SMTP server to be used.
15. Test: Test Email: Clicking on this button will send an email to the stated site and report contact email addresses, to test the connection.



Note: Within the body of the email, it is suggested that the comment “do not reply to this message” is included.

16. Site Name: The name of the site to be monitored
17. Site Address: The address of the site to be monitored
18. Site Contact: The contact name on site
19. Site Contact Email: The email of the site contact
20. Report Contact: The contact name for the report
21. Report Contact Email: The email of the report contact

Section 6/ - Points

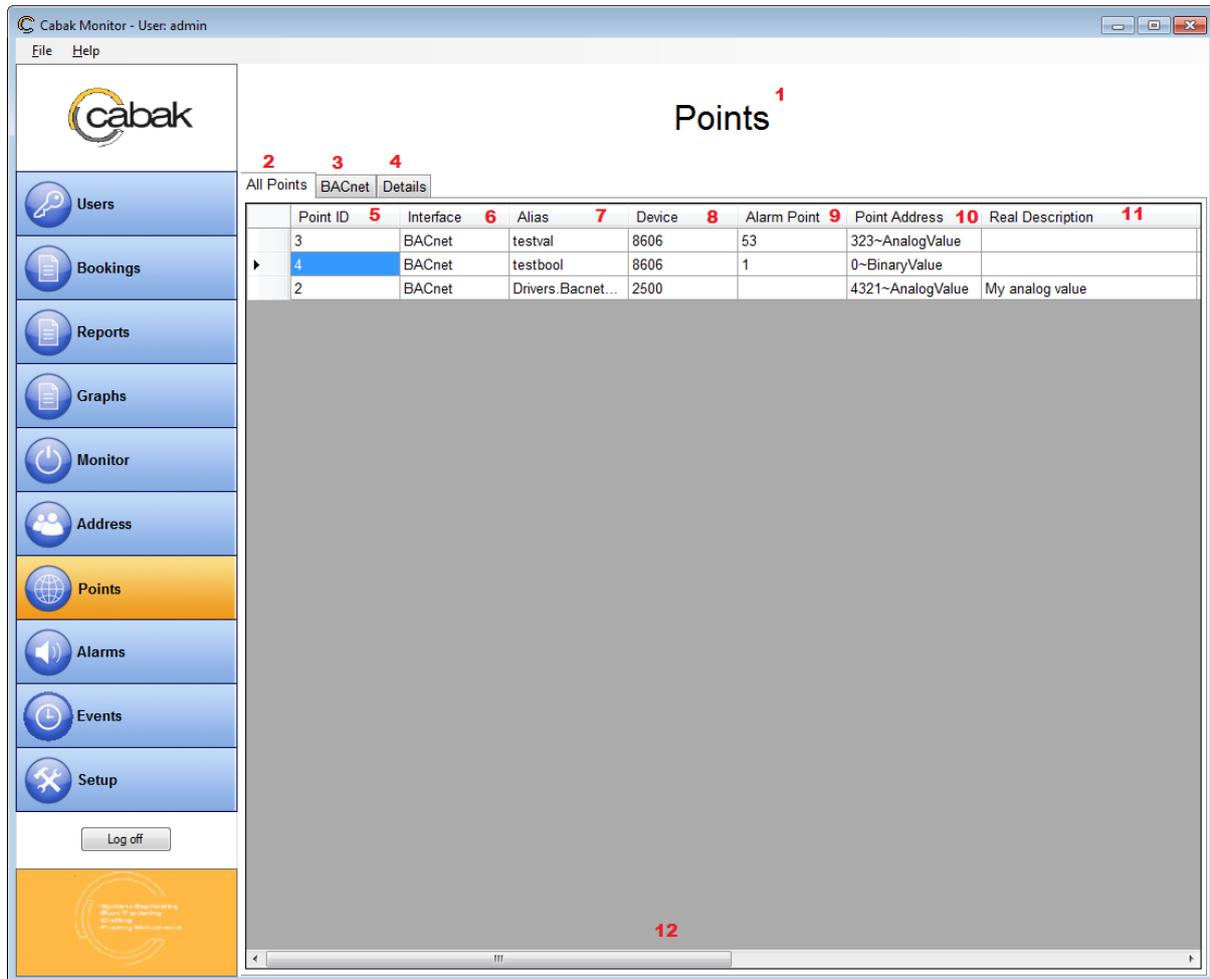


Figure 6-1: All Points Page Part 1

The previous is a typical page in the Cabak Monitor Program. It consists of a Title, navigation buttons to the left, the main window, and where applicable, there is a task window at the bottom.

The All Points Tab shows the details of each point, which can be edited on the Details Tab. On the All Points Tab, double click on a box to edit details or click on the Details Tab.

1. Points: The title of the page
2. All Points: The selected tab allows quick view of all the points' relevant information
3. Details: The details tab allows for the editing of the points information
4. BACnet: Browse and add points from a BACnet network.
5. Point ID: This is an arbitrary number that can't be changed. It is an internal link to a database.
6. Interface Type: There are currently 3 types of interface available, OPC, IComm and BACnet. These are accessed by a drop-down menu.



Note: Visit the website www.opcfoundation.org for a concise list of available OPC servers.

7. Alias: This is normally the common name for the point or where it is, e.g. Bob's Office Temperature or Bob's Air Conditioning Run Status
8. Device Address: The address of the monitoring device
9. Alarm Point: If the Point Value is greater than the Alarm Point, the Alarm Action will occur.
10. Point Address: The address of the point under monitor
11. Real Description: The Point Tag
12. Scroll Bar: this indicates there is more point information located to the right

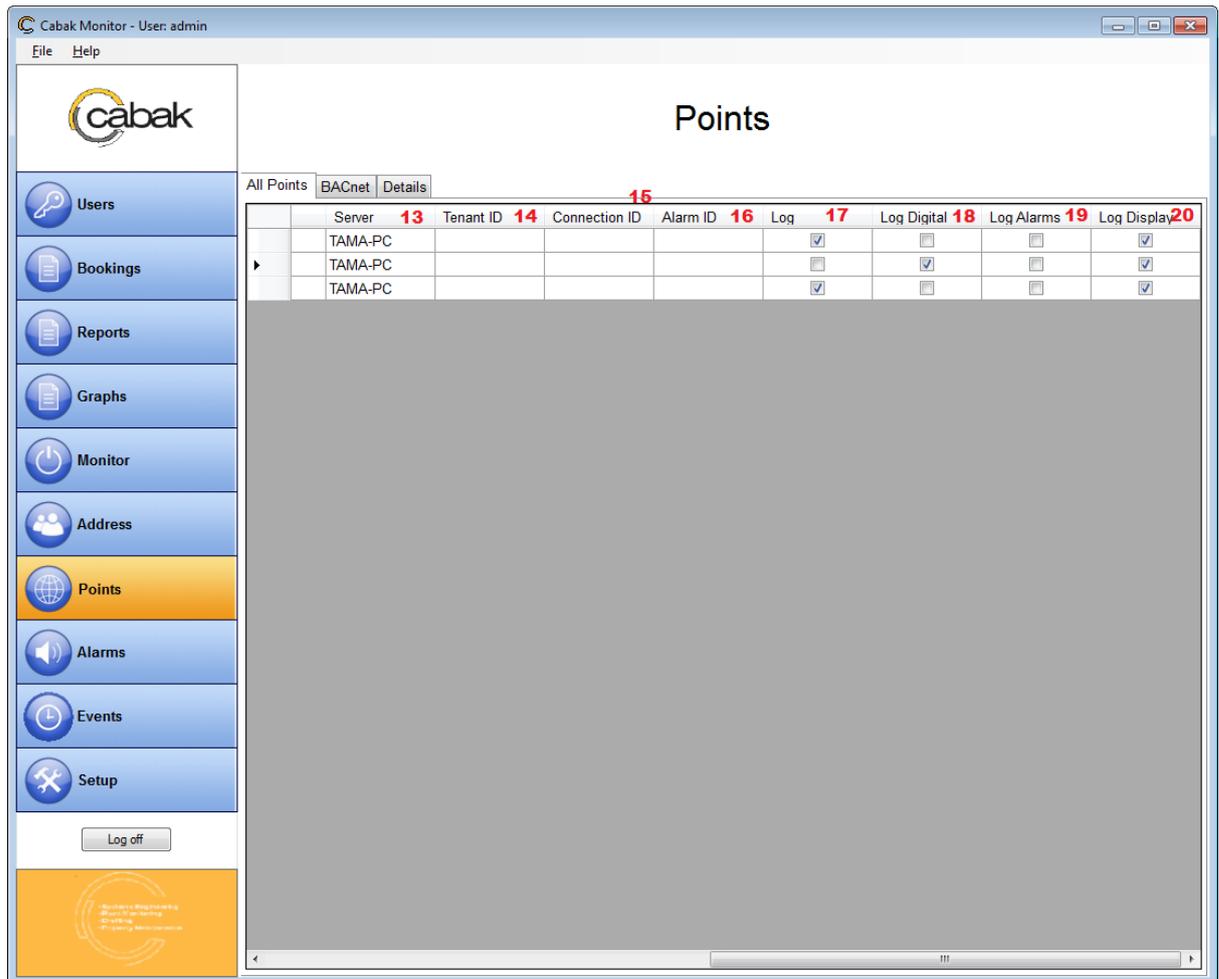


Figure 6-2: All Points Page Part 2

As indicated by the scroll bar, the information columns continue over the page.

13. Server: The name of the computer which holds this point. Useful if Cabak Monitor is being monitoring other Cabak Monitor instances on other computers.
14. Tenant Id: The ID number of the Tenant. On the All points view, this is shown as an ID number, whereas in the details page, this is a pull down combo box called owner.
15. Connection ID: The ID number of the Server Connection
16. Alarm ID: If no Alarm ID has been set, the point when in Alarm will behave as set in the Point Properties. However if there are many point that require the same function, an Alarm Type can be set and using its ID will apply its properties to this point.
17. Log Accumulator: If this box is ticked then the Accumulator will be logged

18. Log Digital: If this box is ticked then the change of state will be logged
19. Log Alarms: If this box is ticked then whenever the Point Value is greater than the Set Alarm Value, the Alarm action will take place (text or SMS) and the event will be logged.
20. Log Display: If this box is ticked the Point Value or Status will be available for display on a webpage.



Note: Contact Cabak for a web page example with SQL.

Figure 6-3: Points Details Page

21. Charge Rate: The charge factor per point unit e.g. accumulating hours or pulses



Note: There is a charge rate hierarchy. Firstly, the point charge rate is used. If no point charge rate is nominated it will revert to the client charge rate, and if no client charge rate is nominated, it will revert to the global charge rate.

22. Volume Factor: This is a value that is multiplied by the Point Value to make a sensible unit e.g. each pulse from a meter could represent 25 litres, therefore if we multiple each pulse by 25 then the units displayed are actual litres. Likewise, if a pulse from a Kilowatt/Hour meter is used, where one pulse represents 0.25 of a kW/Hr, a multiplier of 4 would be used.
23. Point Unit: Used to identify what you are accumulating e.g. time, power, anything



Note: If changes are made and not saved before you attempt to go to a different page, a prompt box will automatically ask you if you would like to save your changes.

With the buttons at the bottom, you can go to the previous point, next point, save changes made to a point, copy the point, add a new point or delete the current point.

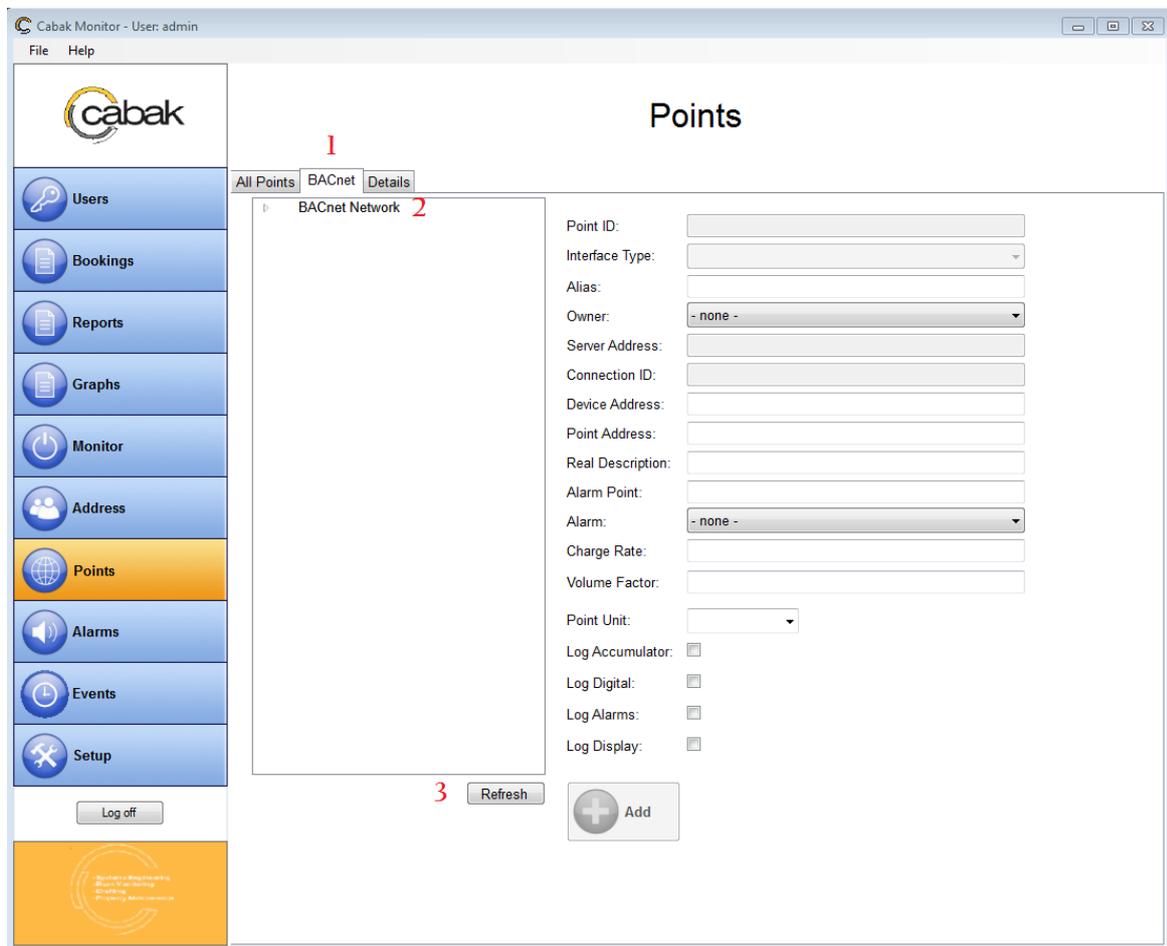


Figure 6-4: BACnet Page

This page enables you to add BACnet points. You can browse the BACnet network using the navigation tree to the left. Selecting a point will populate the form enabling you to add the point to be monitored. This BACnet page can be enabled or disabled in the configuration file. To access this page BACnet must be enabled in the settings page.

1. The BACnet tab here is selected. This will be disabled if BACnet is disabled.
2. The root of the BACnet tree. Expanding this browses the network.
3. Refresh the BACnet tree using this button to start browsing again.

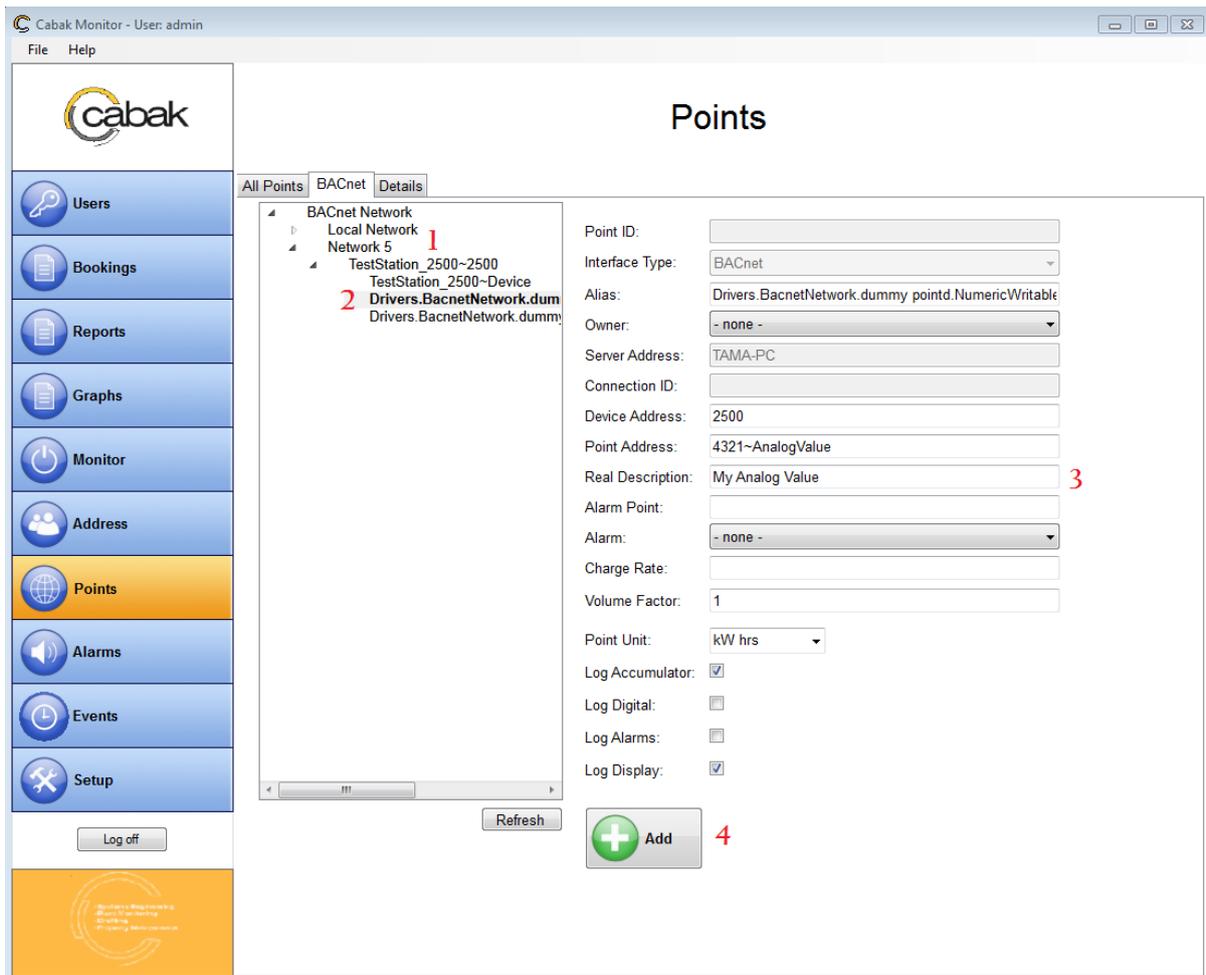


Figure 6-5: BACnet Page 2

- 1) Locate the network, device and point you wish to add by expanding the tree.
- 2) Select by clicking which point you would like to monitor. The form will auto populate with the details.
- 3) Change any details you desire. Refer to section 6.2 for more information.
- 4) Click the 'Add' button to add this point for monitoring.



Note that the BACnet network is any locally connected network to the computer running CabakMon. If devices fail to appear please ensure the network is connected and firewalls are configured correctly.



Other applications that use BACnet can conflict with this program and vice-versa. If you are not using BACnet uncheck the tick box in the settings. This will prevent it from interfering with other BACnet applications.

Section 7/ - Addresses

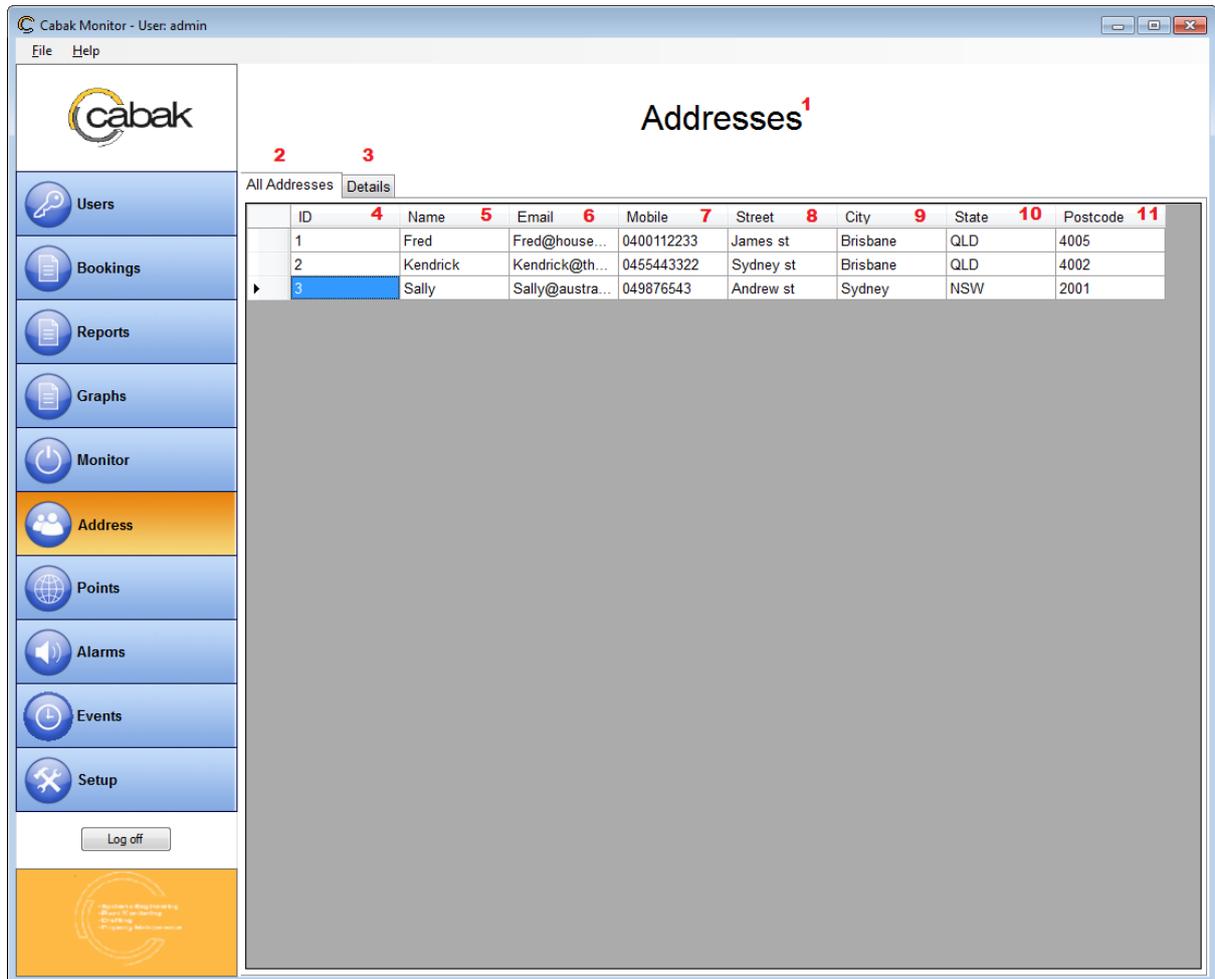


Figure 7-1: All Addresses Page

The All Addresses Tab shows the client ID and details of each Contact (also referred to as tenant or client), which can be edited on the Details Tab. On the All Addresses Tab, double click on a box to edit details or click on the Details tab.

1. Addresses: The title of the page
2. All Addresses: This tab allows a quick view of all the relevant address information
3. Details: clicking this tab allows the editing of the address information
4. ID: The ID number of the Contact
5. Name: The Name of the Contact
6. Email: The email address of the Contact
7. Mobile: The mobile number of the Contact
8. Street: The street address of the Contact
9. City: The city for residence of the Contact
10. State: The state of residence of the Contact
11. Postcode: The postcode of the Contact

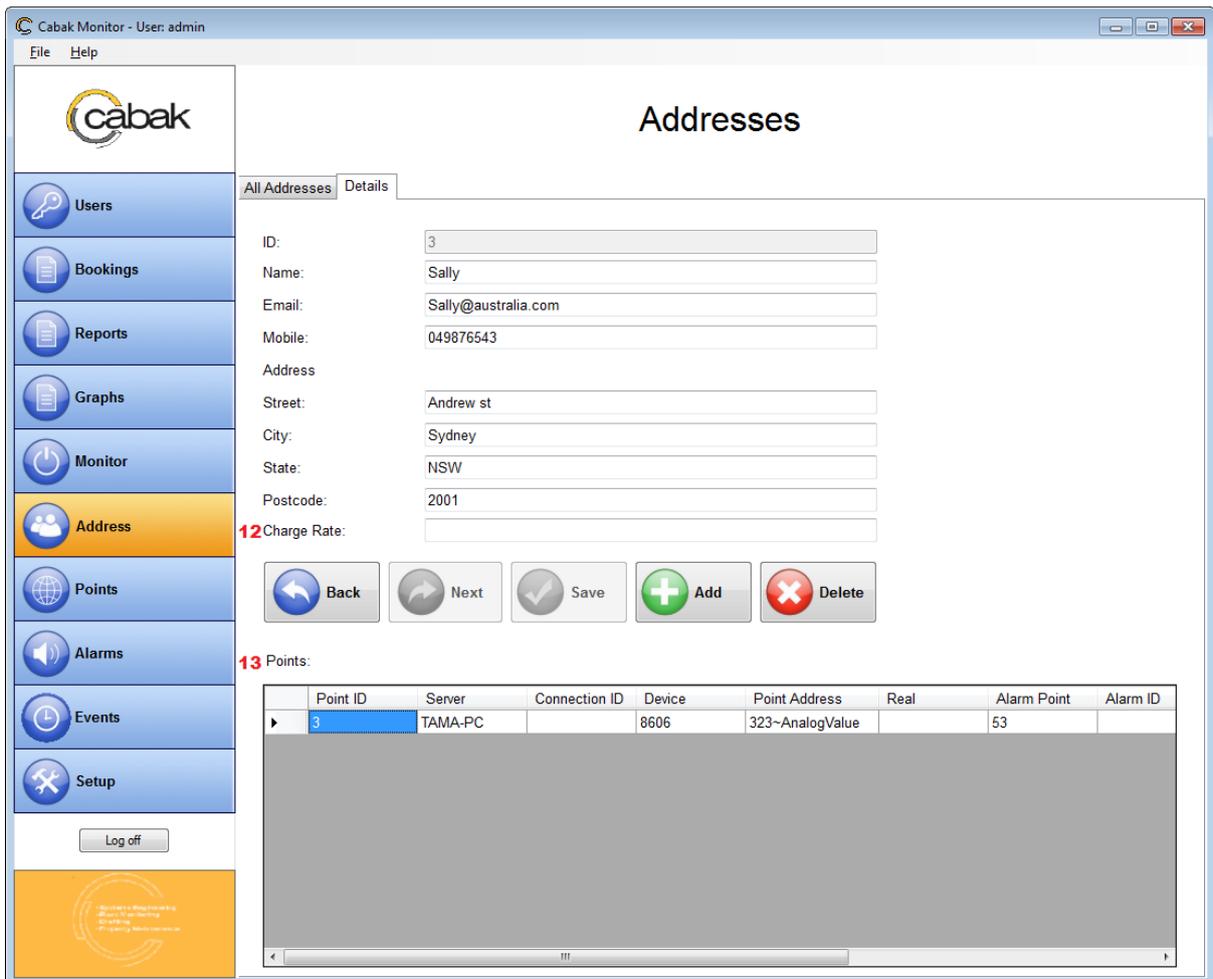


Figure 7-2: Addresses Details Page

- 12. Charge Rate: The charge factor per point unit e.g. accumulating hours or pulses
- 13. List of points associated with this contact



Note: There is a charge rate hierarchy. Firstly, the point charge rate is used. If no point charge rate is nominated it will revert to the client charge rate, and if no client charge rate is nominated, it will revert to the global charge rate.



Note: If changes are made and not saved before you attempt to go to a different page, a prompt box will automatically ask you if you would like to save your changes.

With the buttons at the bottom of the page, you can go to the previous client, next client, save changes made to a client, add a new client or delete the current client.

The Tenants Details Tab also displays the referenced Points, underneath the editing buttons. It shows the associated points refer to Section 5/ - Points for point field details.

Section 8/ - Alarms

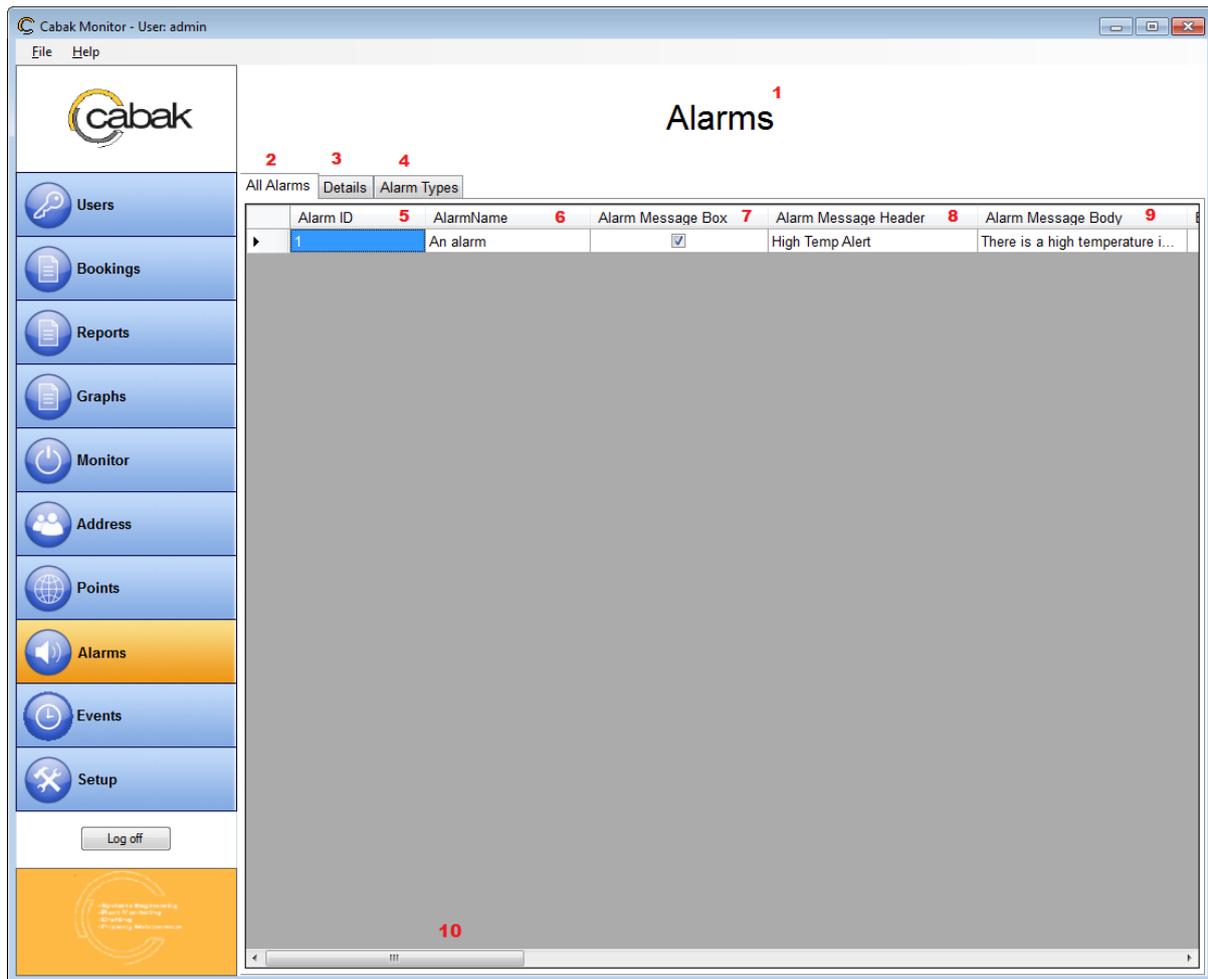


Figure 8-1: All Alarms Page Part 1

The All Alarms Tab shows the details of each alarm, which can be edited on the Details Tab. On the All Alarms Tab, double click on a box to edit details or click on the Details tab.

1. Alarms: the title of the page
2. All Alarms: this tab allows a quick view of all the relevant alarm information
3. Details: clicking this tab allows for the editing of the alarm information
4. Alarm Types: This tab shows the current alarm types, and allows for the addition, deletion or editing of these alarms.
5. Alarm ID: The ID of the Alarm, denoting what type it is
6. Alarm Name: The name of the Alarm
7. Alarm Message Box: if selected, this opens the following Alarm Message options
8. Alarm Message Header: the title, or header, of the Alarm Message
9. Alarm Message Body: where the body of the Alarm Message must be typed
10. Scroll Bar: indicates that there is more alarm information to the right

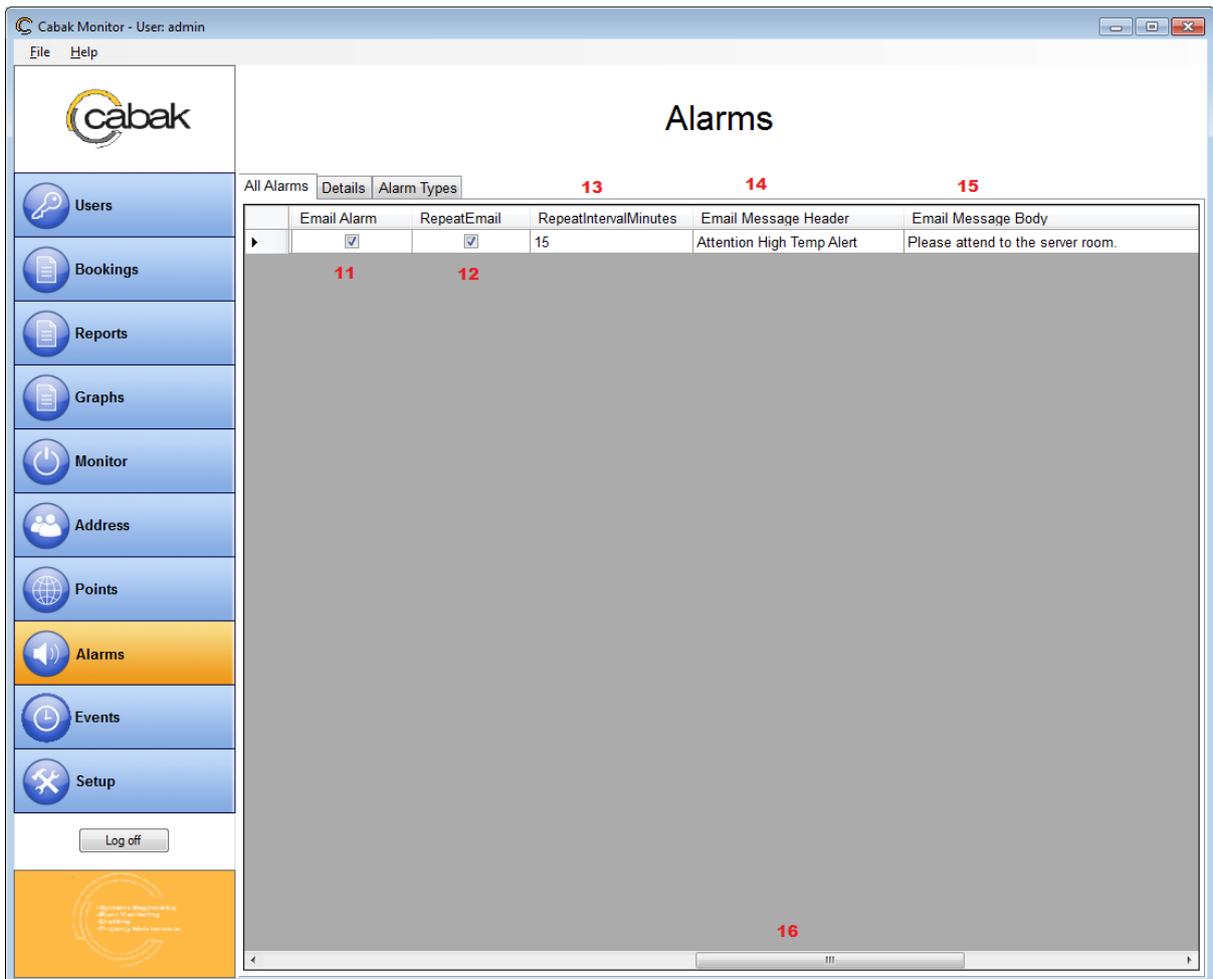


Figure 8-2: All Alarms Page Part 2

- 11. Email Alarm: if selected, this opens the following Email Alarm options
- 12. Repeat Email: this option allows for repeat emails to be sent at selected intervals
- 13. Repeat Interval: pull down menu
- 14. Email Message Header: the title, or header, of the Email Message
- 15. Email Message Body: pull down menu for message body layout
- 16. Scroll Bar: indicates that there is even more information located to the right

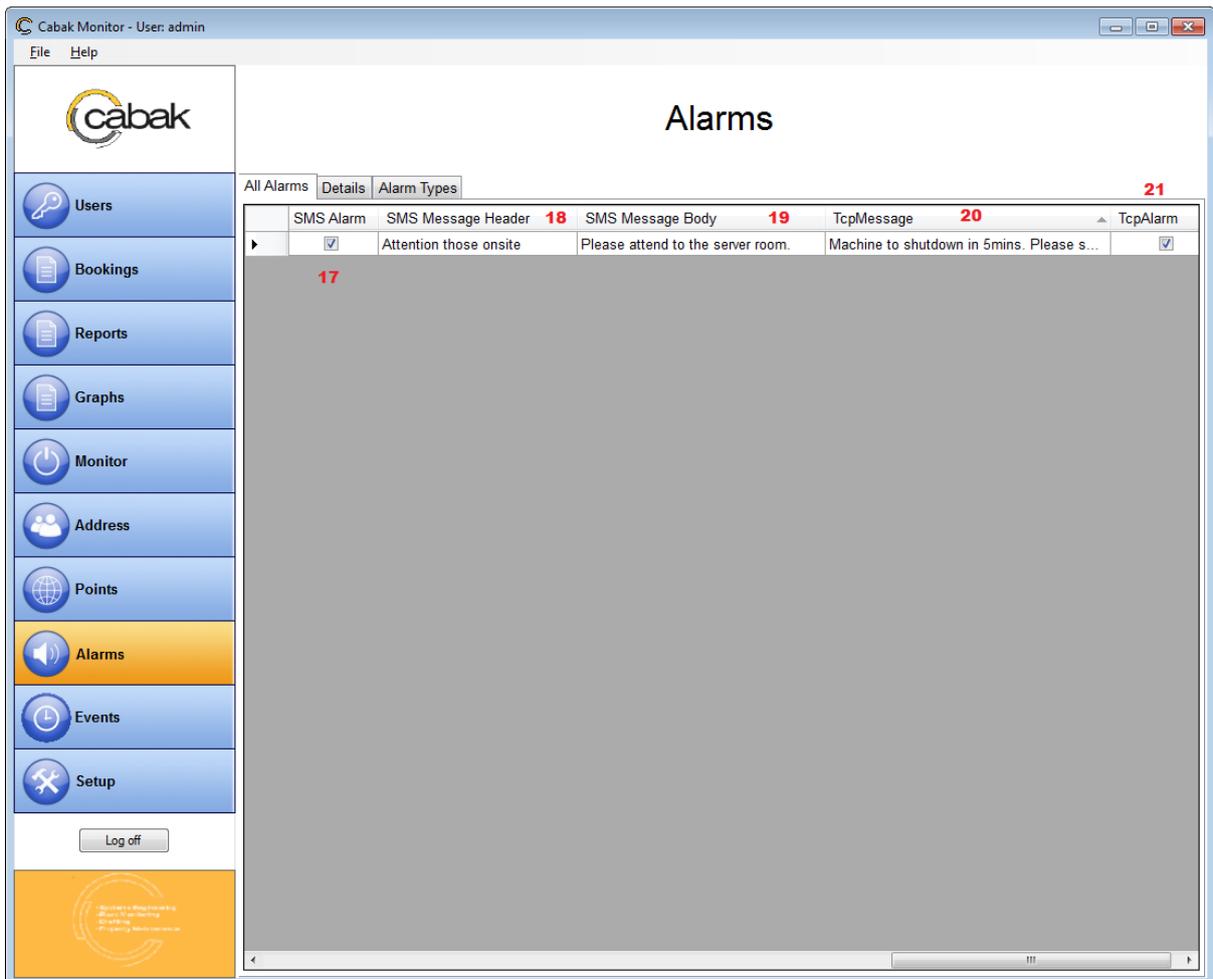


Figure 8-3: All Alarms Page Part 3

- 17. SMS Alarm if selected, this opens the following SMS Alarm options
- 18. SMS Message Header the title, or header, of the SMS Message
- 19. SMS Message Body where the body of the SMS Alarm Message must be typed
- 20. TCP Alarm: if checked a TCP socket message will be sent
- 21. TCP Message what message is sent on the socket

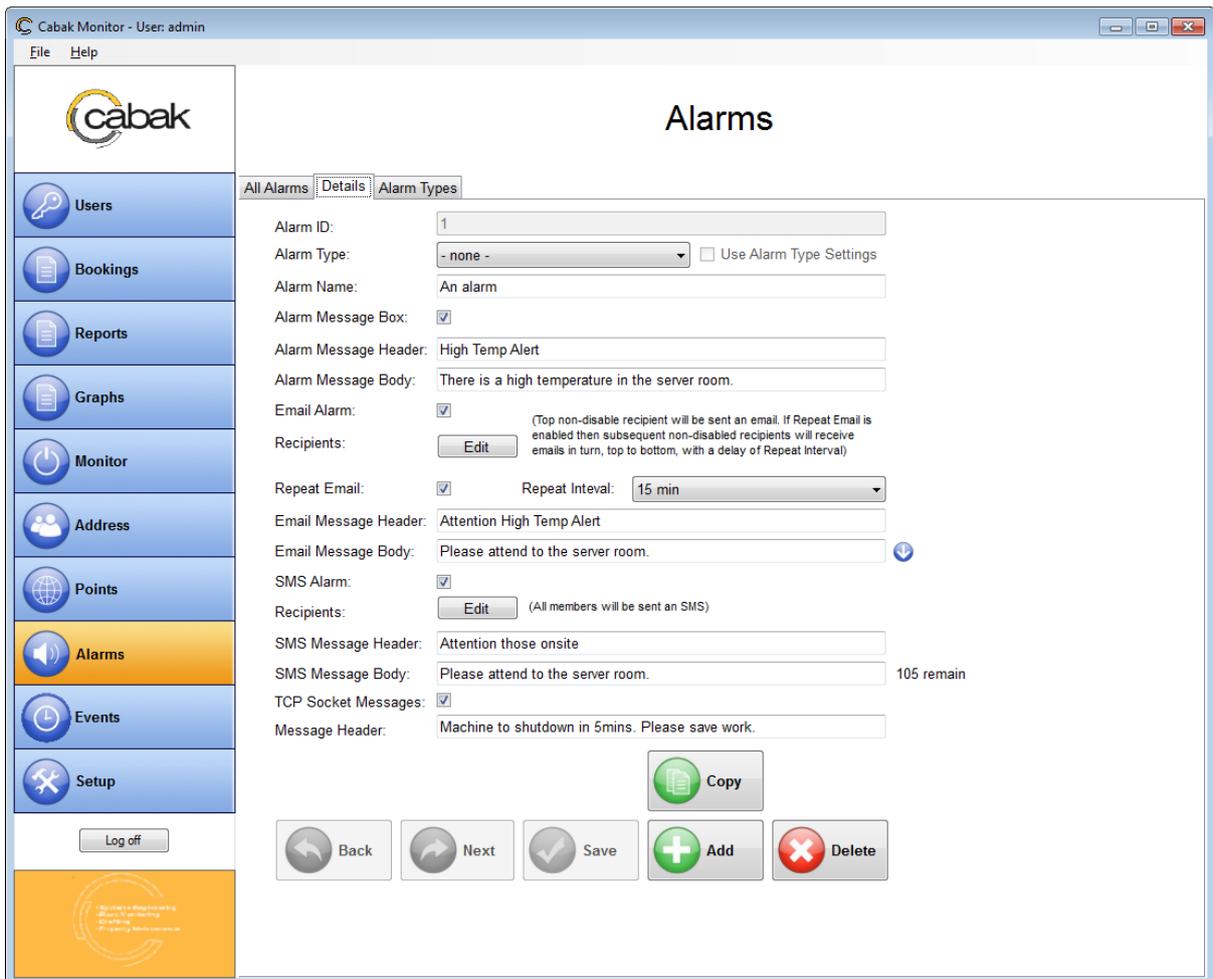


Figure 8-4: Alarms Details Page

With the buttons at the bottom, you can go to the previous alarm, next alarm, save changes made to an alarm, copy the alarm, add a new alarm or delete the current alarm.



Note: If changes are made and not saved before you attempt to go to a different page, a prompt box will automatically ask you if you would like to save your changes.

On the Alarm Types page, previously created alarms can be edited and deleted, and new alarms can be added.

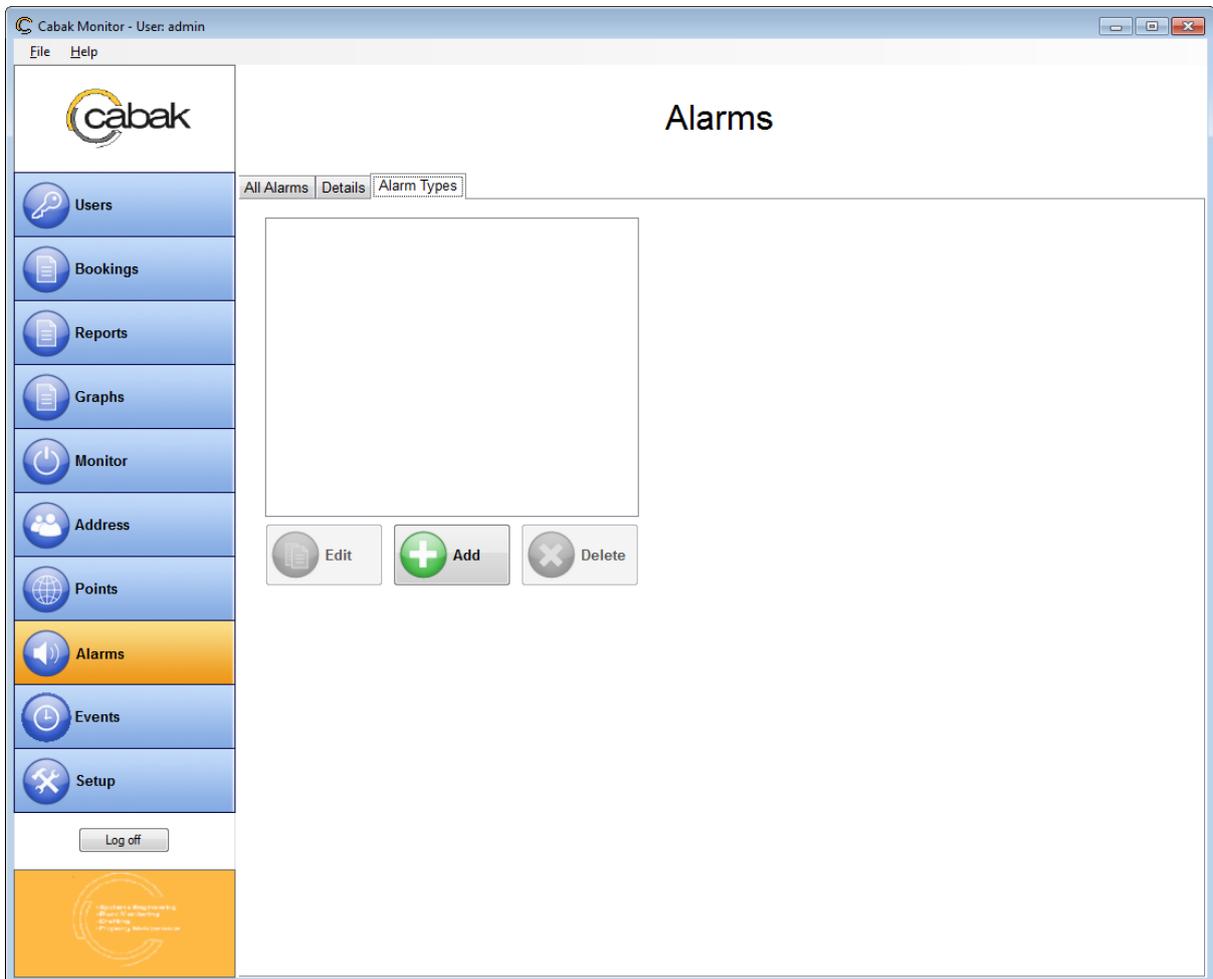


Figure 8-5: Alarm Types Page

After initial installation, only the Add Alarm button will be available. Clicking on the green Add button will bring up the next screen.

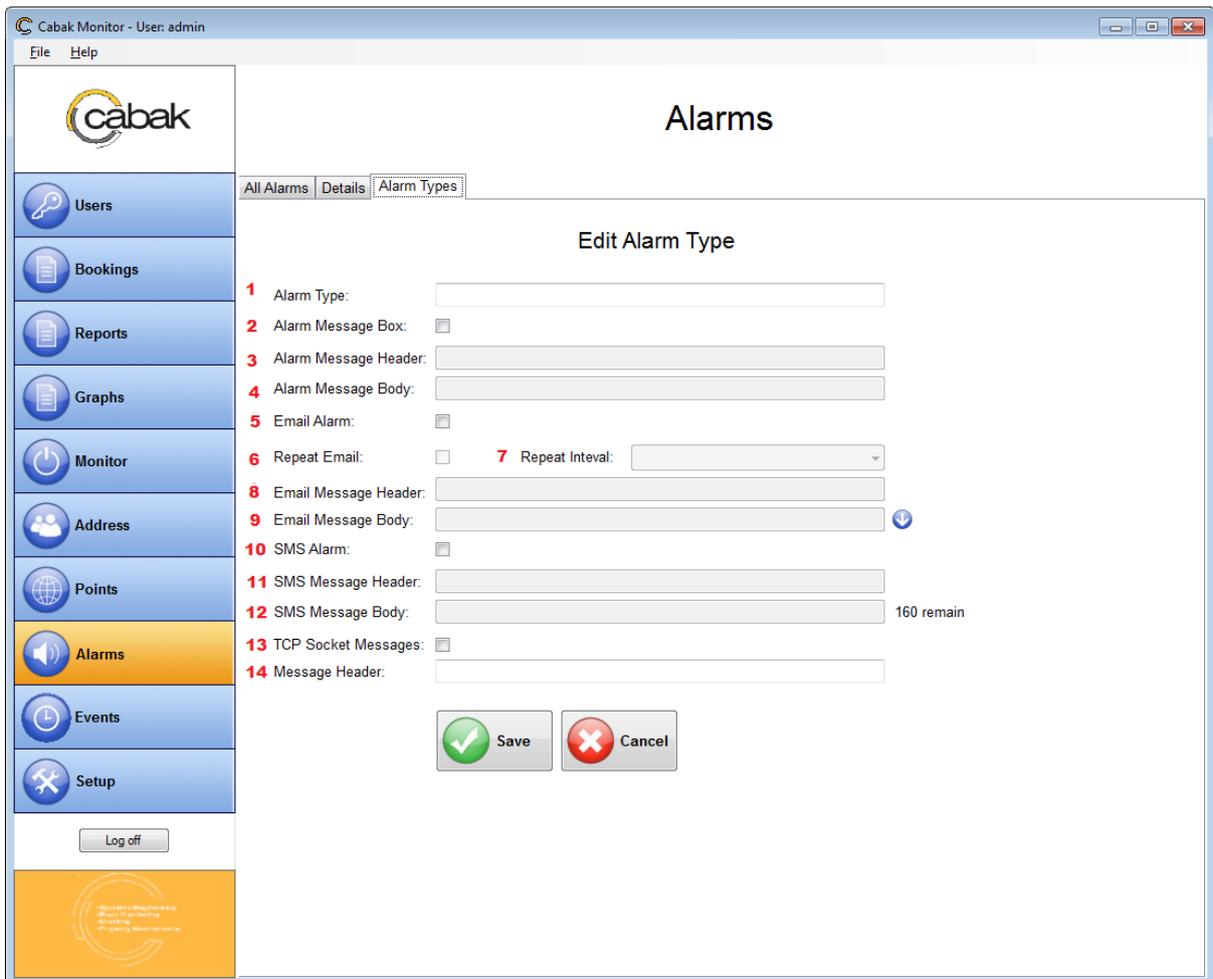


Figure 8-6: Add Alarm Type

Before the alarm type can be added, the following fields must be completed:

1. Alarm Type: The type of alarm e.g. Critical or Low Priority
2. Alarm Message Box: if selected, this opens the following Alarm Message options
3. Alarm Message Header: the title, or header, of the Alarm Message
4. Alarm Message Body: where the body of the Alarm Message must be typed
5. Email Alarm: if selected, this opens the following Email Alarm options
6. Repeat Email: this option allows for repeat emails to be sent at selected intervals
7. Repeat Interval: pull down menu
8. Email Message Header: the title, or header, of the Email Message
9. Email Message Body: pull down menu for message body layout
10. SMS Alarm: if selected, this opens the following SMS Alarm options
11. SMS Message Header: the title, or header, of the SMS Message
12. SMS Message Body: where the body of the SMS Alarm Message must be typed
13. Socket Message : Enable TCP socket messages, IP/Port are on the settings page
14. Message Header: Header message for Socket messages

Once the fields have been completed, the alarm can be saved or cancelled by pressing the appropriate button at the bottom.

After the alarm has been added, it may be edited or deleted, or another alarm may be added.

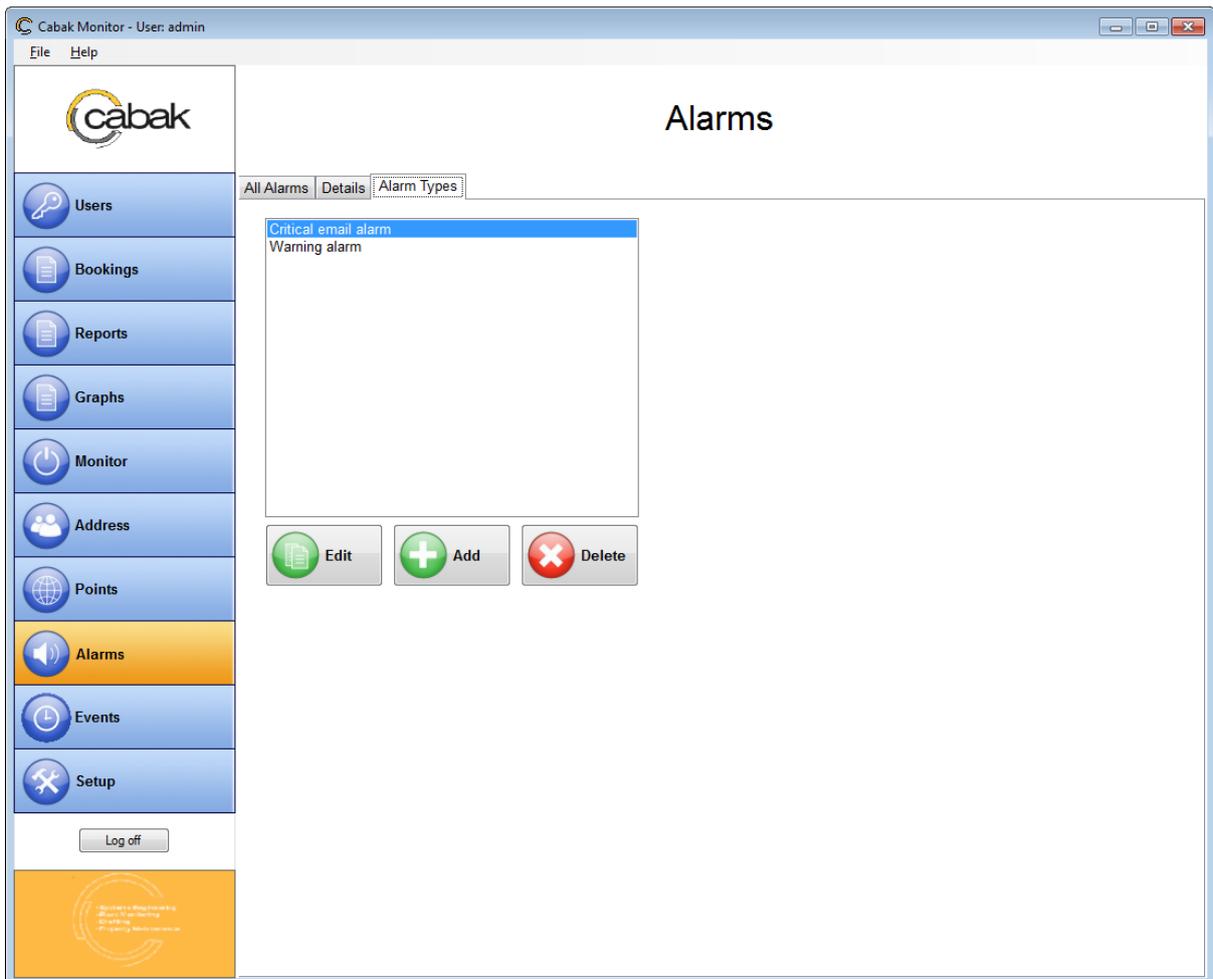


Figure 8-7: Alarm Types Page (Alarm Added)

To edit an alarm, click on the Edit button, located under the available alarms.

Clicking on the edit button will open a page similar to the one opened when the alarm was first added. This page allows for changes to be made to the alarm fields.

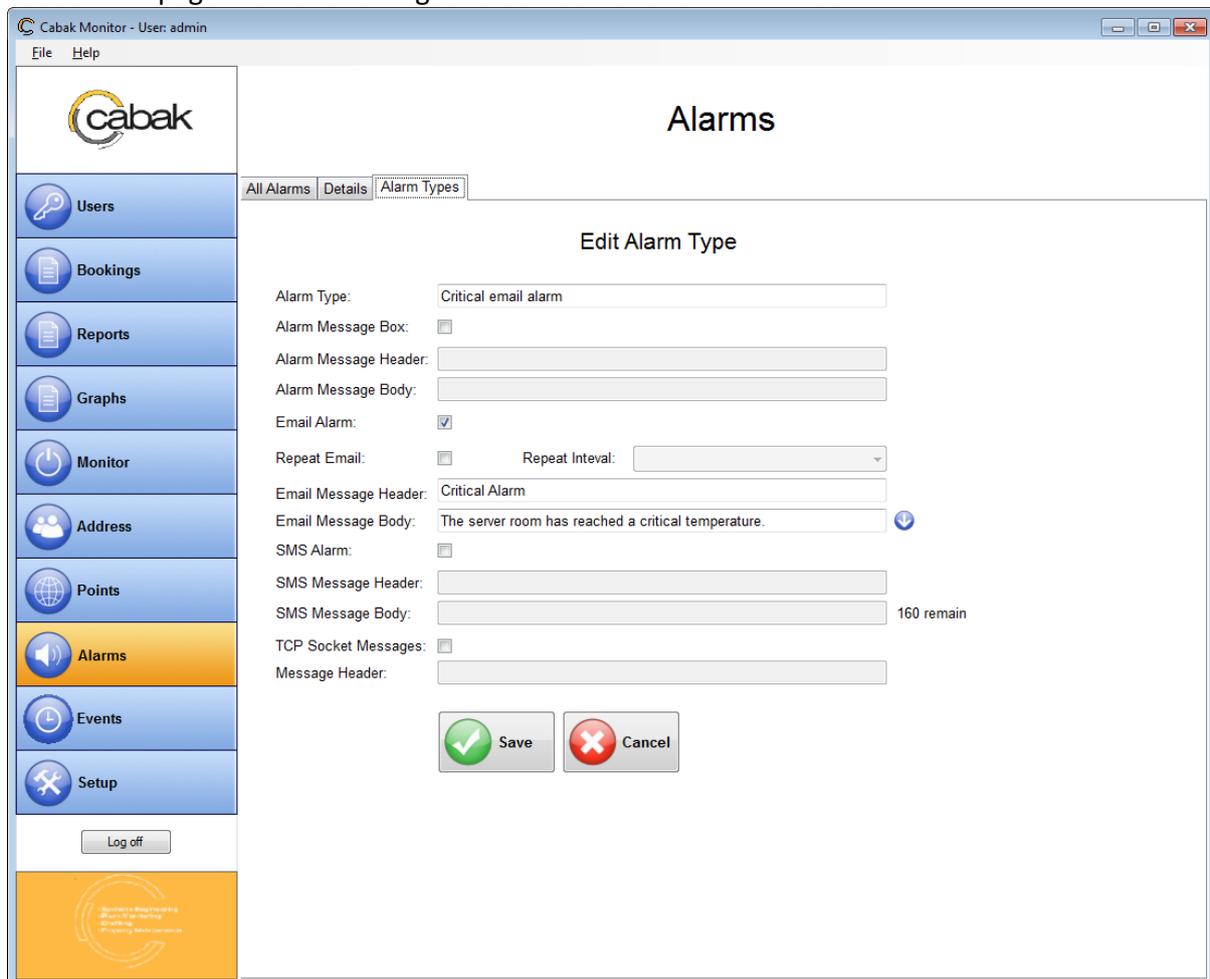
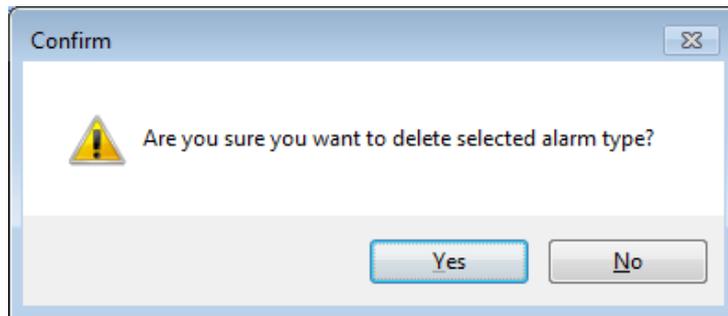


Figure 8-8: Editing Alarms Page

Once the changes have been made, the alarm can be saved or cancelled, by clicking on the appropriate button at the bottom.

If a particular alarm is to be deleted, the following popup window will appear after the delete button is clicked, requesting confirmation of the deletion.



Clicking 'yes' will remove the selected item from the available alarms on the Alarm Types Page. Clicking No will return to the Alarm Types Page, without removing the selected item.

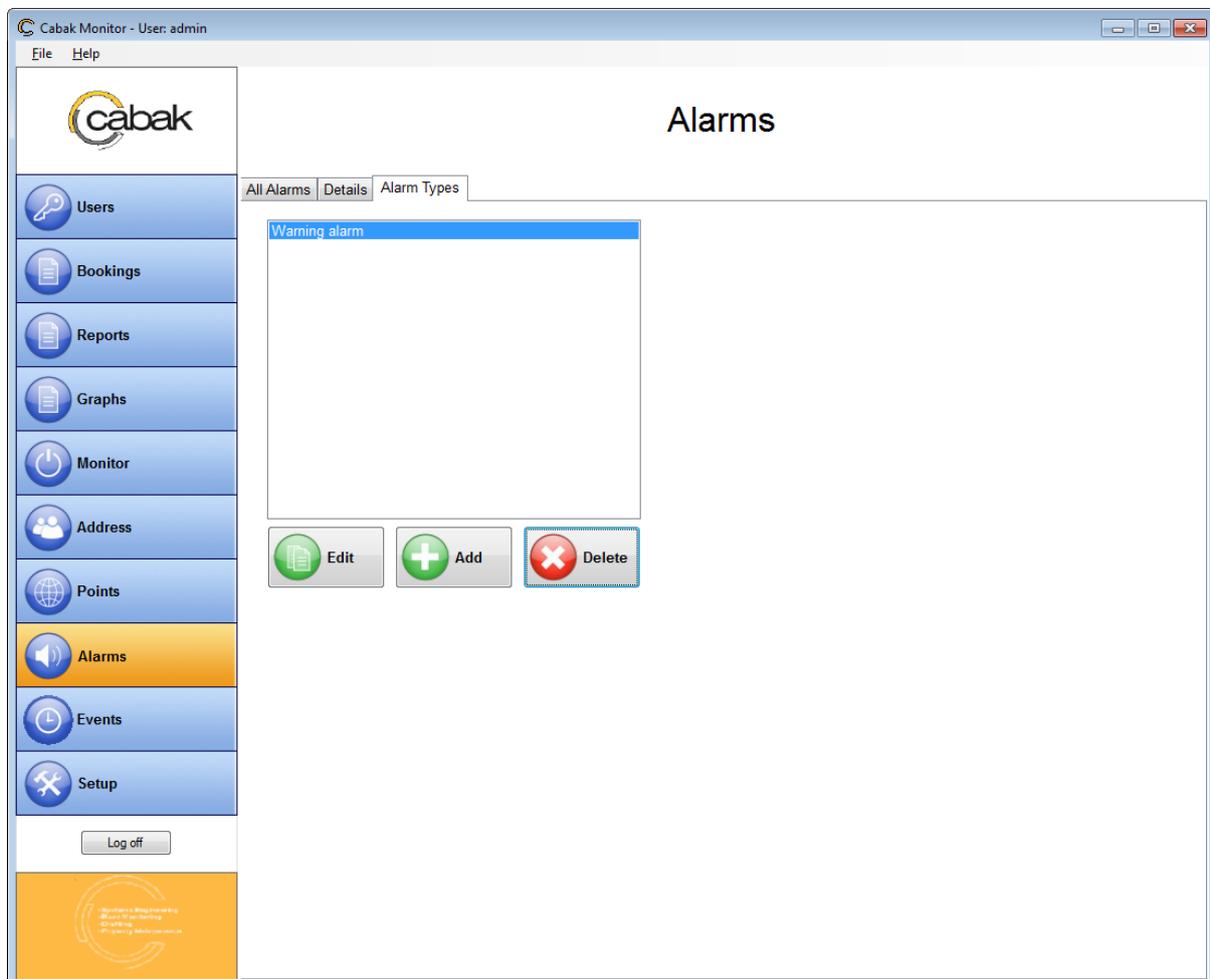


Figure 8-9: Alarm Types Page (Alarm Deleted)

Section 9/ - User Management

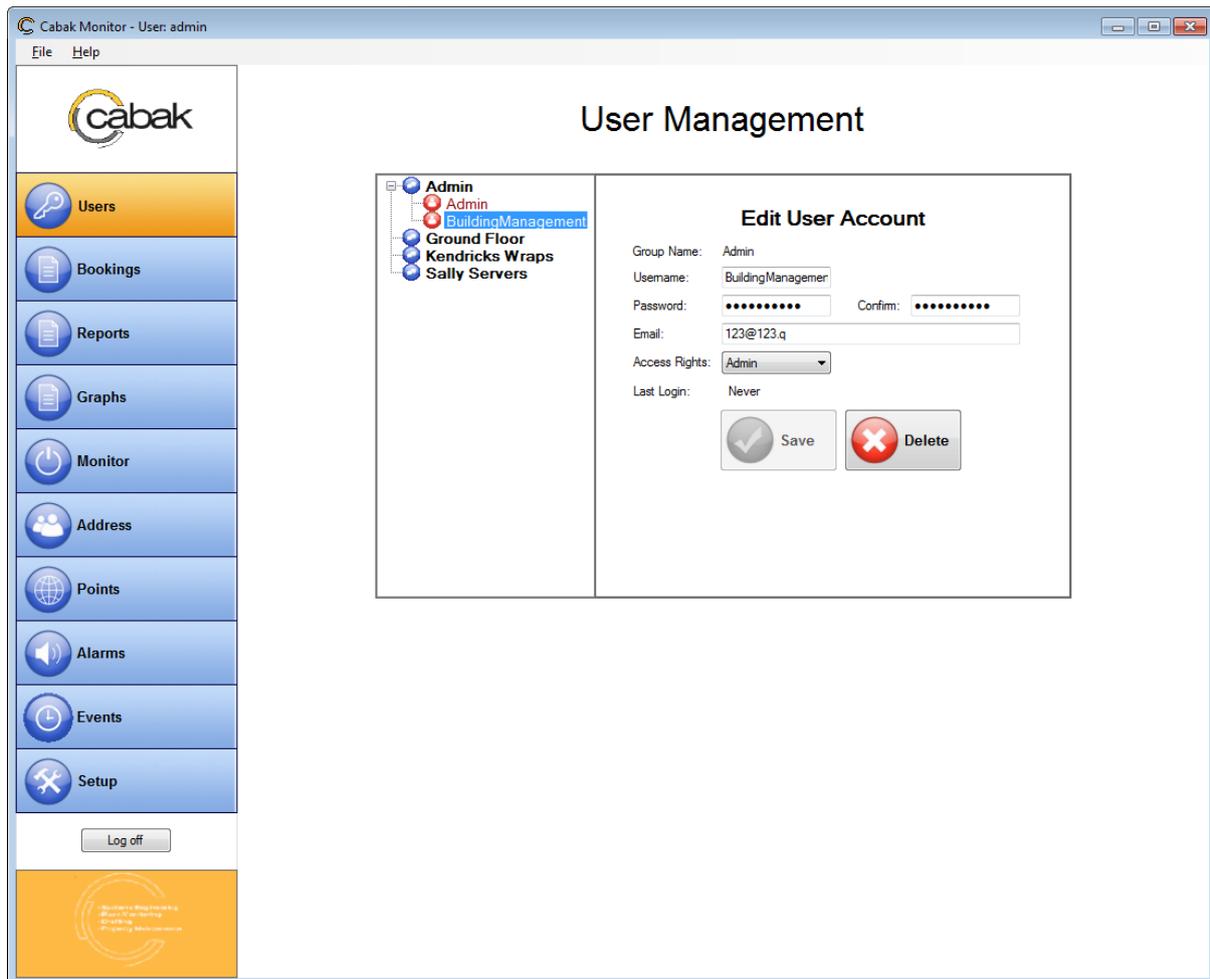


Figure 9-1: User Management (Admin)



Note: This screenshot shows the User Management when logged in as Admin with full Administration access rights. When logged in as Admin, you have the entire button column situated on the left hand side of the window, as shown below.

The **System** Admin has access to all clients and can add, edit or delete clients for anyone.

The **Client** Admin however can only access and add, edit or delete the users within their client group.

Both levels of Admin can create user accounts for any client, and can nominate their level of access rights, either Admin again, or User.

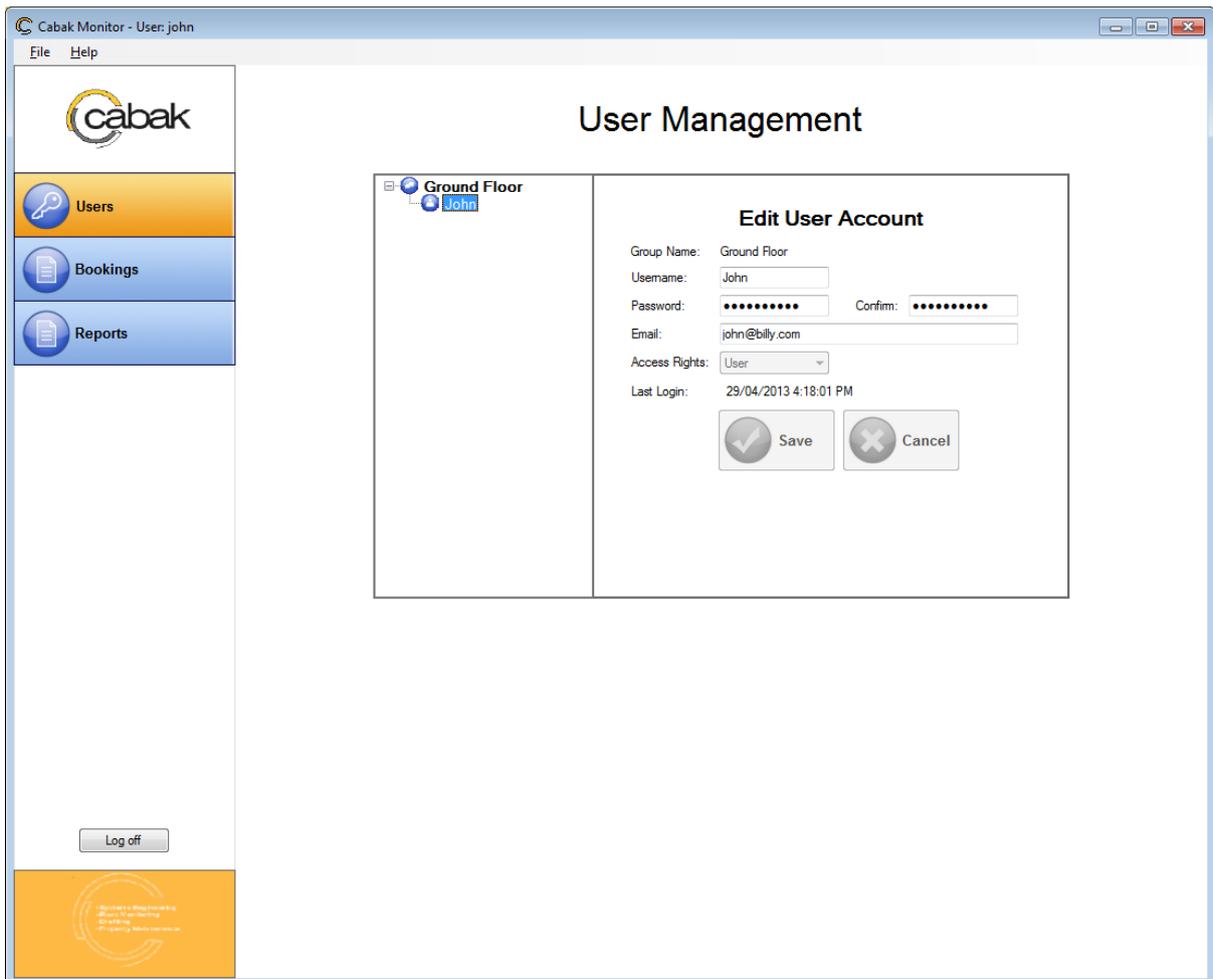
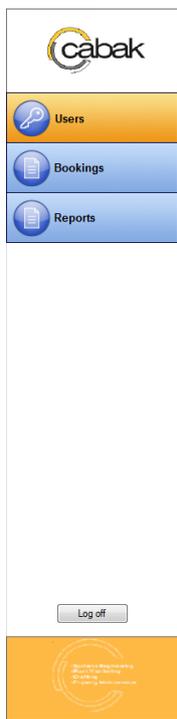


Figure 9-2: User Management (User)



Having an access level of Admin again allows that client administrator to add, edit or delete users within that client group only, whereas if they are set only to

User, they can only view, export or print reports, or edit their own user account details.



Note: This screenshot shows the User Management when logged in as a User only, with limited access rights. When logged in as Admin, you can only edit your User Account details and view, export and print reports.

Refer to Section 9/ - User Management for access rights and Account Details Editing.

Refer to Section 11/ - Reports for viewing and generating reports.

Refer to Section 11-3/ - Management Toolbar for exporting and printing reports.

Section 10/ - Monitoring

The Cabak Monitor Program is equipped with a real-time monitoring page:

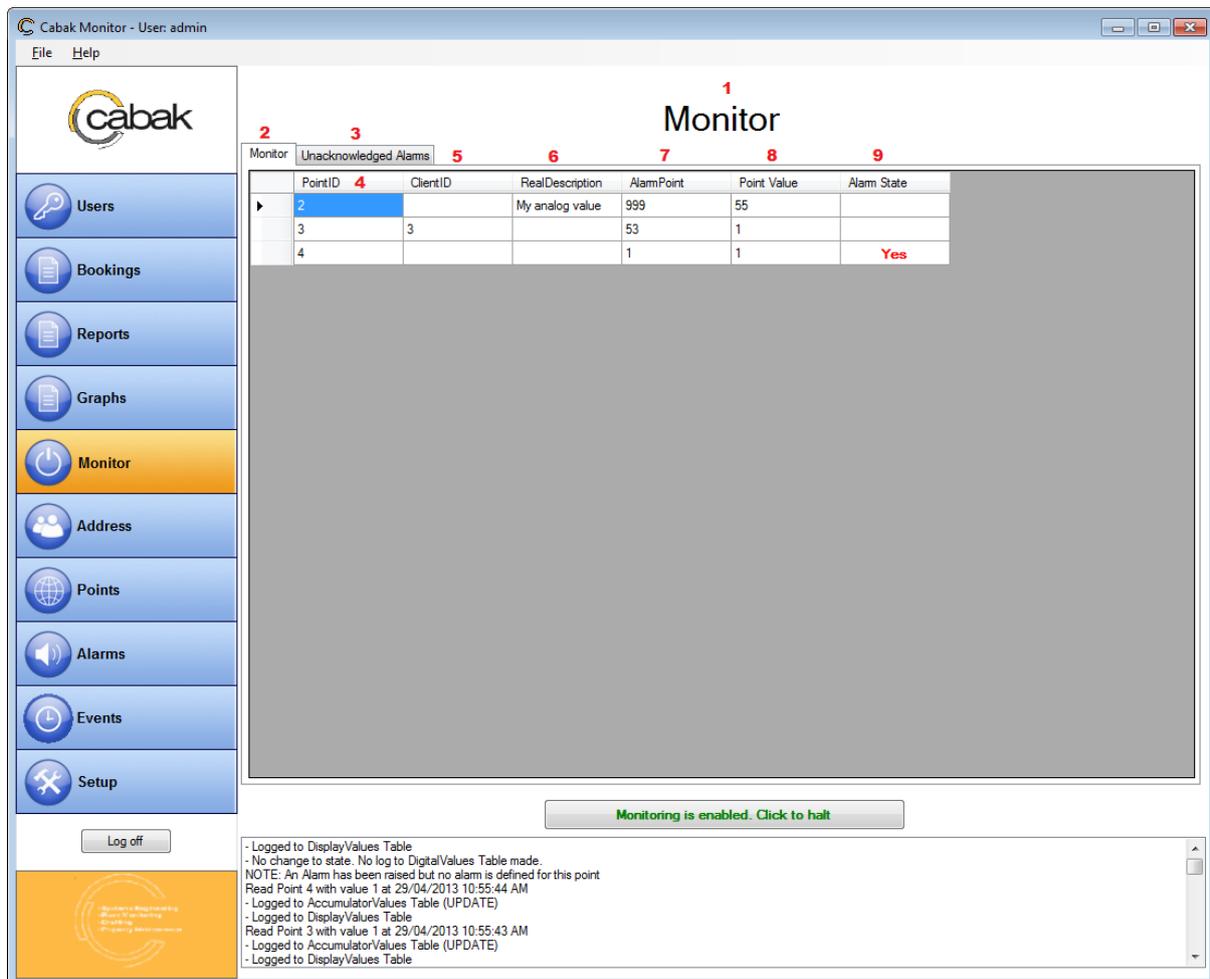


Figure 10-1: Monitor Page

1. Monitor: The title of the page
 2. Monitor: This page allows for quick view of all the relevant point monitoring information
 3. Unacknowledged alarms: A list of alarms yet to be acknowledged
 4. Point ID: Point ID
 5. Client ID: Client ID
 6. Real Description: The point tag
 7. Alarm Point: The alarm set point
 8. Point Value: The last value read by the application
 9. Alarm State: Alerts the user if the point is in alarm
 10. Monitoring is enabled: This button allows the user to enable/disable real time monitoring. To toggle monitoring on and off, simply click on the button located at the bottom of the screen, as per the images.
- Monitoring is enabled. Click to halt

Monitoring has been halted. Click to resume.
11. Taskbar: Displays the current action of the software.

Section 11/ - Reports

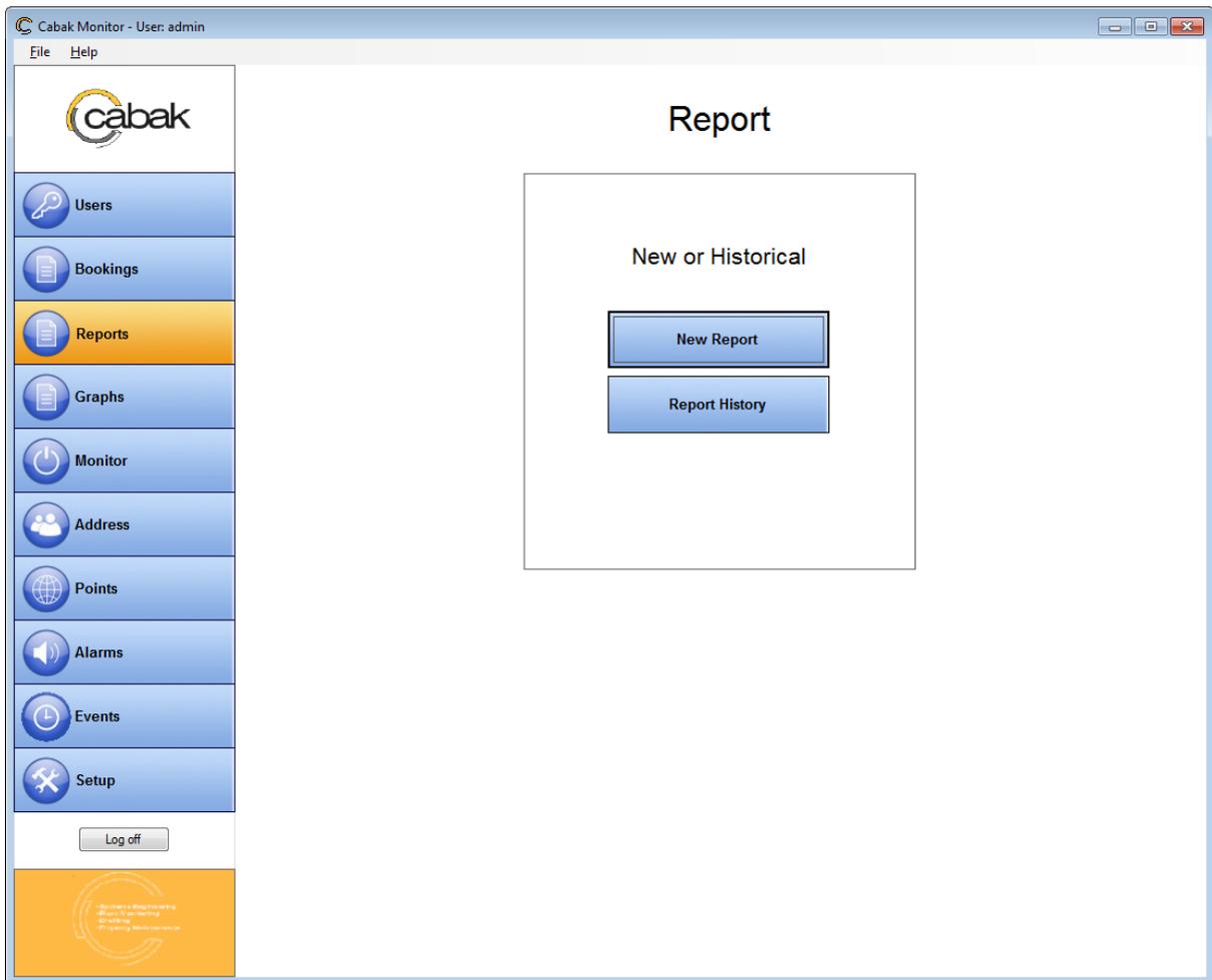


Figure 11-1: Reports Page

Reports may be viewed from the Reports Section of the program. From the first page, you can either view a new report, or view a history of previous reports. To advance, click on the desired button.

Section 11-1/ - New Reports



Figure 11-2: New Reports Page

From the New Report Menu, you can choose to generate an After Hours, Accumulator or Alarms Report. You can return to the previous screen by pressing 'back'.

Section 11-1-1/ - New After Hours Report

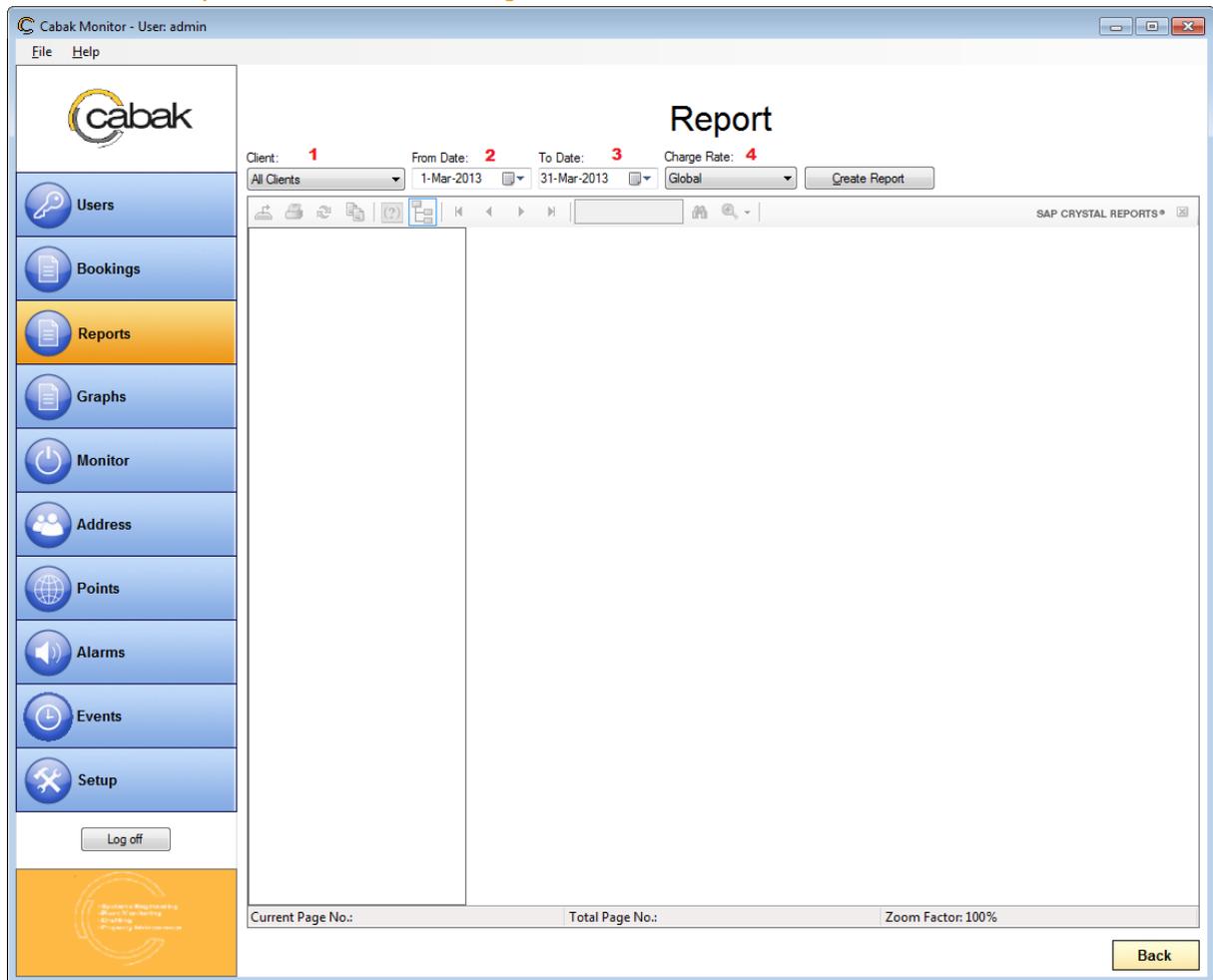


Figure 11-3: New After Hours Report Part 1

Before generating the report, you must set the following fields:

Client:	From Date:	To Date:	Charge Rate:	
All Clients	1-Mar-2013	31-Mar-2013	Global	Create Report

1. Client: choose which client the report is to be made for
2. From Date: choose the required starting date of the reporting period
3. To Date: choose the required ending date of the reporting period



Note: the date is set to the prior month by default

4. Charge Rate: choose the charge rate (Global, Client or Point)

Once these have been chosen, click on Create Report.

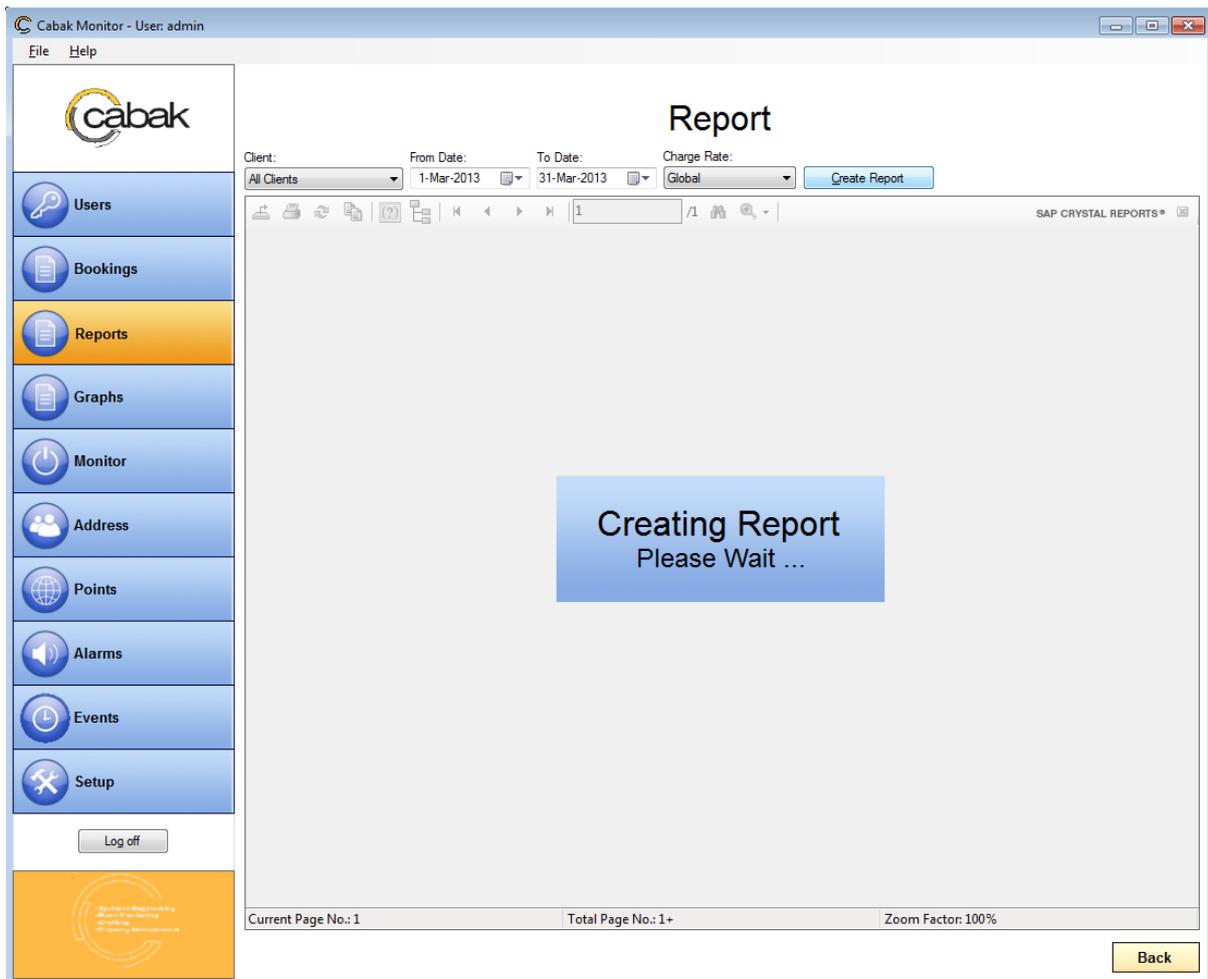


Figure 11-4: New After Hours Report Part 2

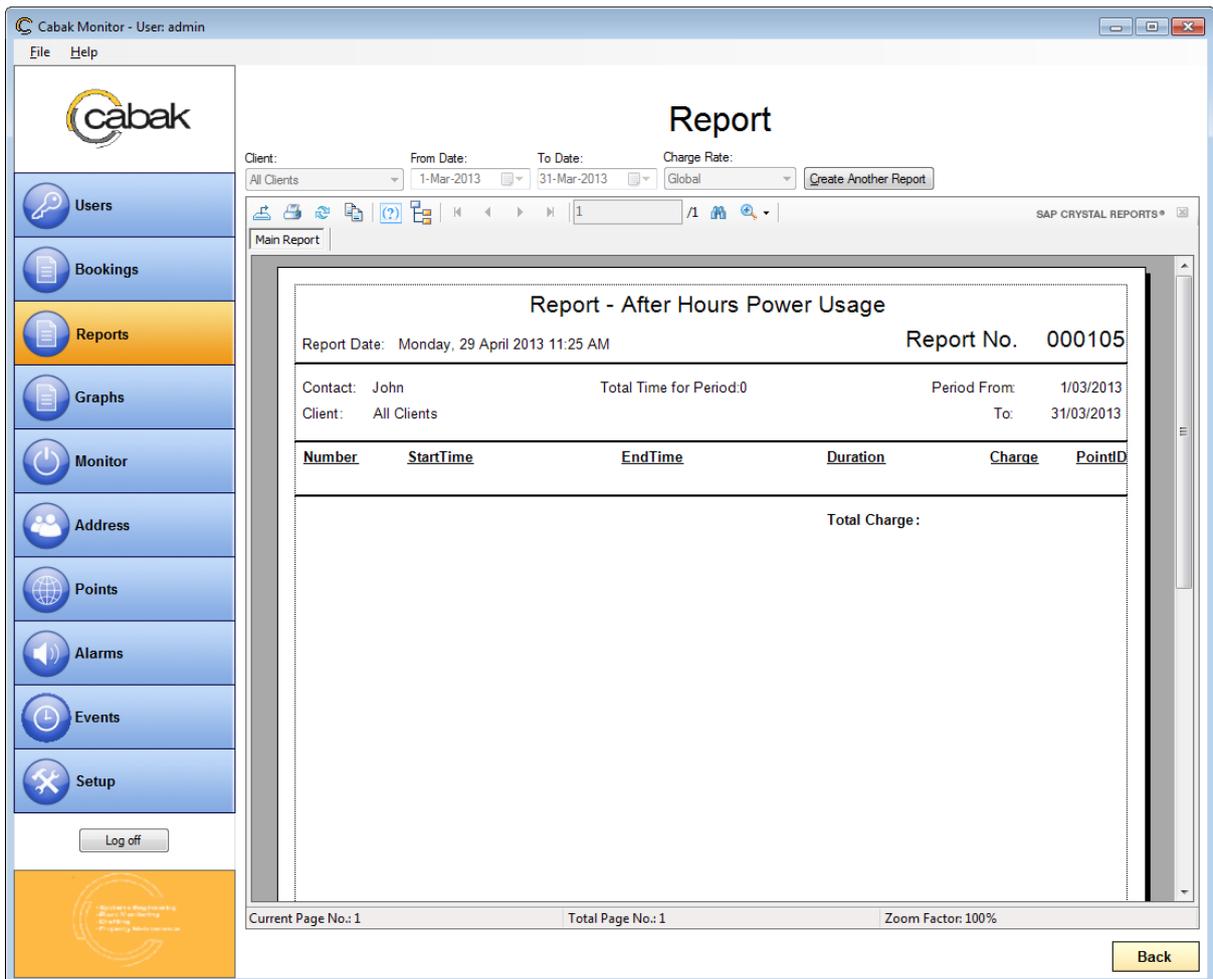


Figure 11-5: New After Hours Report Part 3

Each report contains a unique report number, (to allow for retrieval from history at a later stage).

The report header shows who generated the report and at what time/date.

Once it has been generated, you can use the managing toolbar located at the top left of the screen to manage the report. Refer to Section 11-3/ - Management Toolbar on how to use this.



The process of setting the required fields of the report must also be done for the Accumulator reports and Alarms Reports. They can be selected from the original New Report screen.

Section 11-1-2/ - New Accumulator Report

The screenshot shows the 'Cabak Monitor - User: admin' application window. The main content area is titled 'Report' and displays a 'Report - Accumulator' window. The report details are as follows:

Description	Initial Value	End Value	Usage	Rate	Value
CLIENT: Sally Servers	0.00	0.00	0.00	0.00	0.00
Client Cost:					0.00
Total Cost:					0.00

Report Date: Monday, 29 April 2013 11:39 AM
Report No. 000102
Contact: John
Client: All Clients
Period From: 1/03/2013
To: 31/03/2013

Figure 11-6: New Accumulator Report

The Accumulator Report has the same fields as the After Hours Report, which must be fulfilled before the report can be generated:

Client: From Date: To Date: Charge Rate:

1. Client: choose which client the report is to be made for
2. From Date: choose the required starting date of the reporting period
3. To Date: choose the required ending date of the reporting period
5. *Note: the date is set to the prior month by default*
4. Charge Rate: choose the charge rate (Global, Client or Point)



Once these have been chosen, click on Create Report.

The Accumulator Report also has the same managing toolbar as the After Hours Report. Refer to Section 11-3/ - Management Toolbar for instructions on how to use this toolbar.

Section 11-1-3/ - New Alarms Report

Figure 11-7: New Alarms Report

Unlike the Accumulator Report, the Alarms Report has slightly different requirements for the generation of a report:

Client: From Date: To Date: Charge Rate:

1. Client: choose the client/s for which the report is to be made
2. Alarm Type: choose the type of alarm for which the report is to be made
3. From Date: choose the required starting date of the reporting period
4. To Date: choose the required ending date of the reporting period



Note: the date is set to the prior month by default

Once these have been chosen, click on Create Report.

The Alarms Report also has the same editing toolbar as the After Hours Report. Refer to Section 11-3/ - Management Toolbar for instructions on how to use this toolbar.

Section 11-2/ - Historical Reports

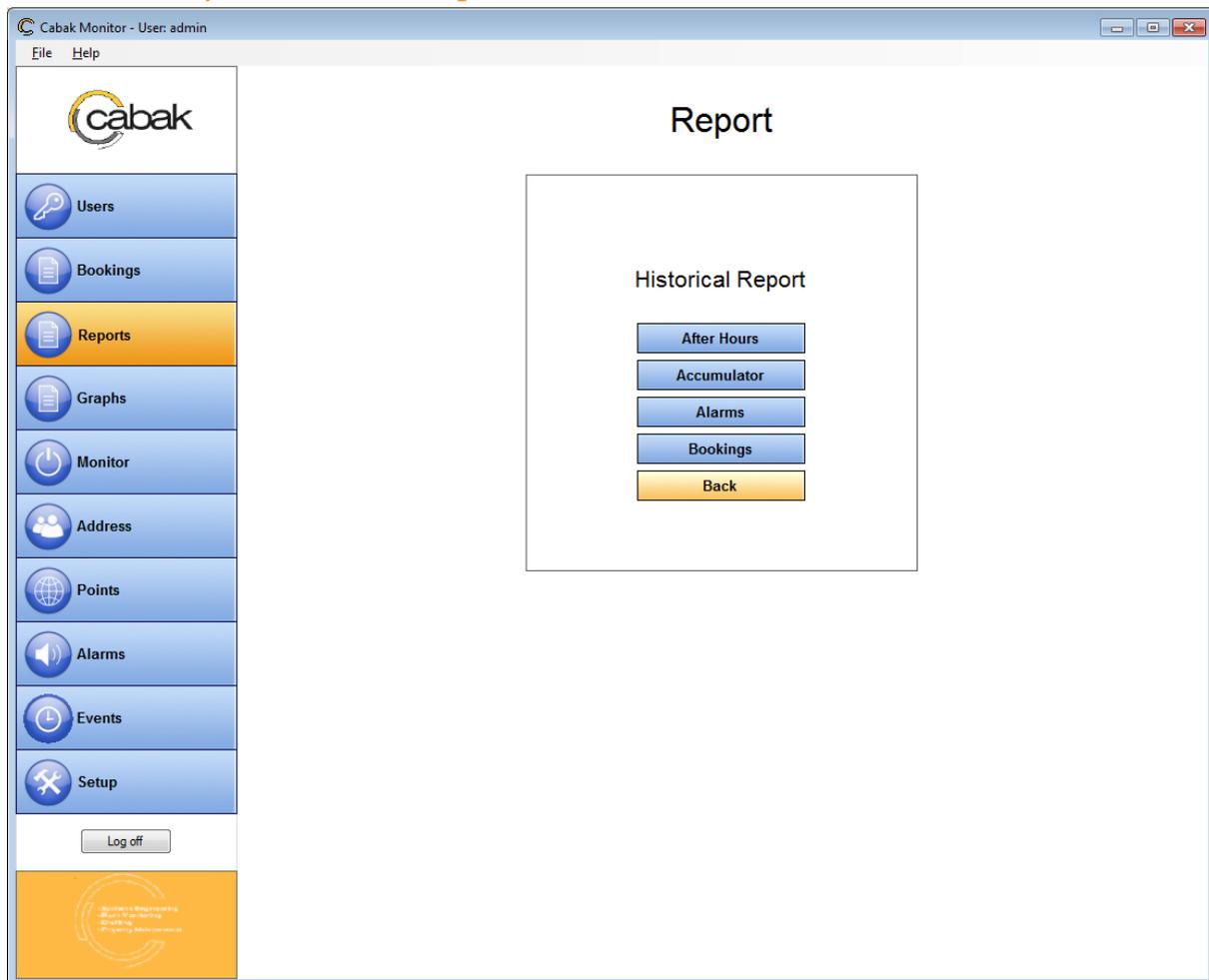


Figure 11-8: Historical Reports

From the Historical Report Menu, you can choose to view historical appendixes of After Hours, Accumulator or Alarms Report, over periods of time. You can return to the previous screen by pressing 'back'.

Section 11-2-1/ -Historical After Hours Report

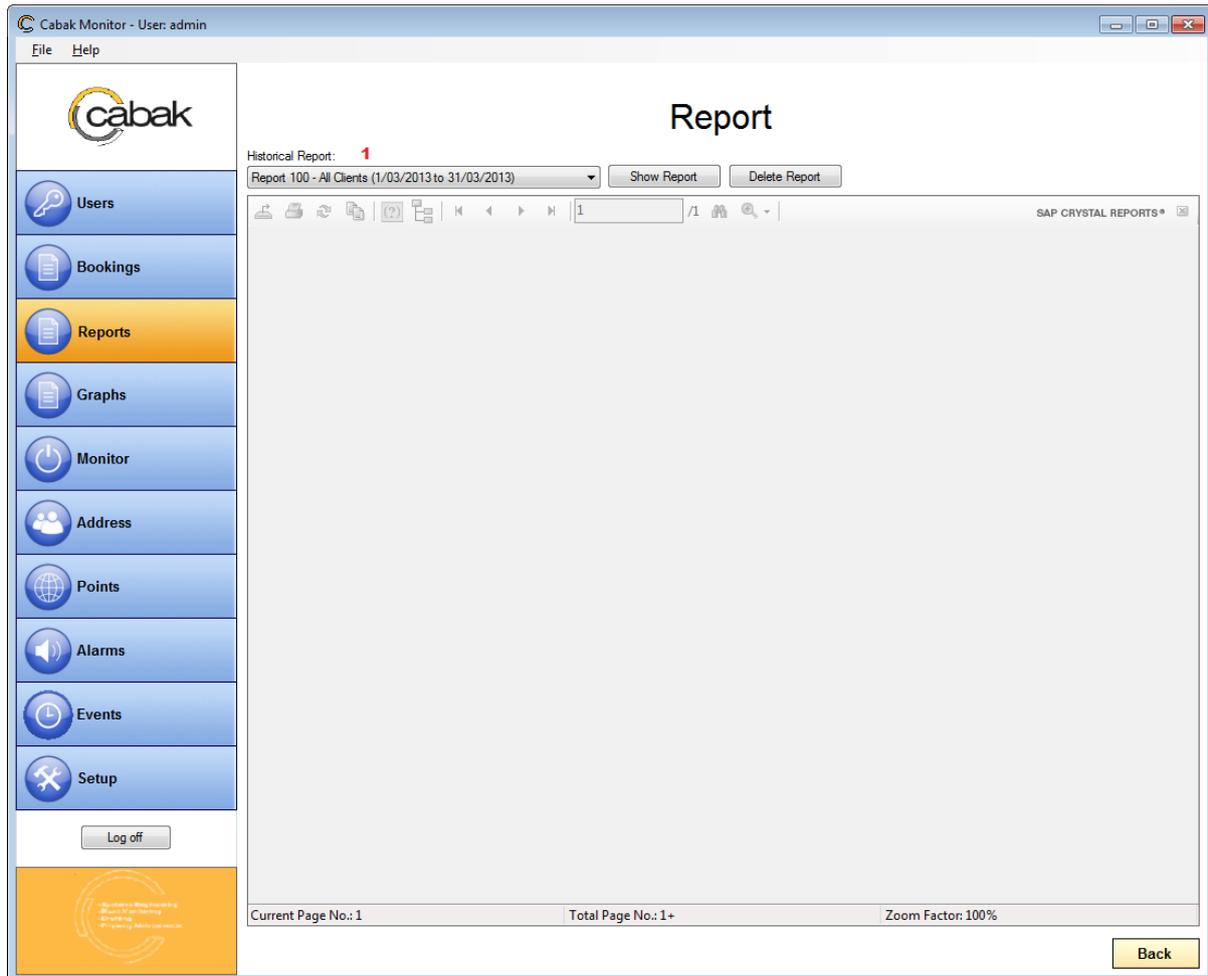


Figure 11-9: Historical After Hours Report Part 1

Before showing the report, you must set the following field:

Historical Report:

1. Historical Report: choose which previously created report to view, depending on the client and period reported.

Once these have been chosen, click on Show Report.



Note: the most recent report is shown by default.

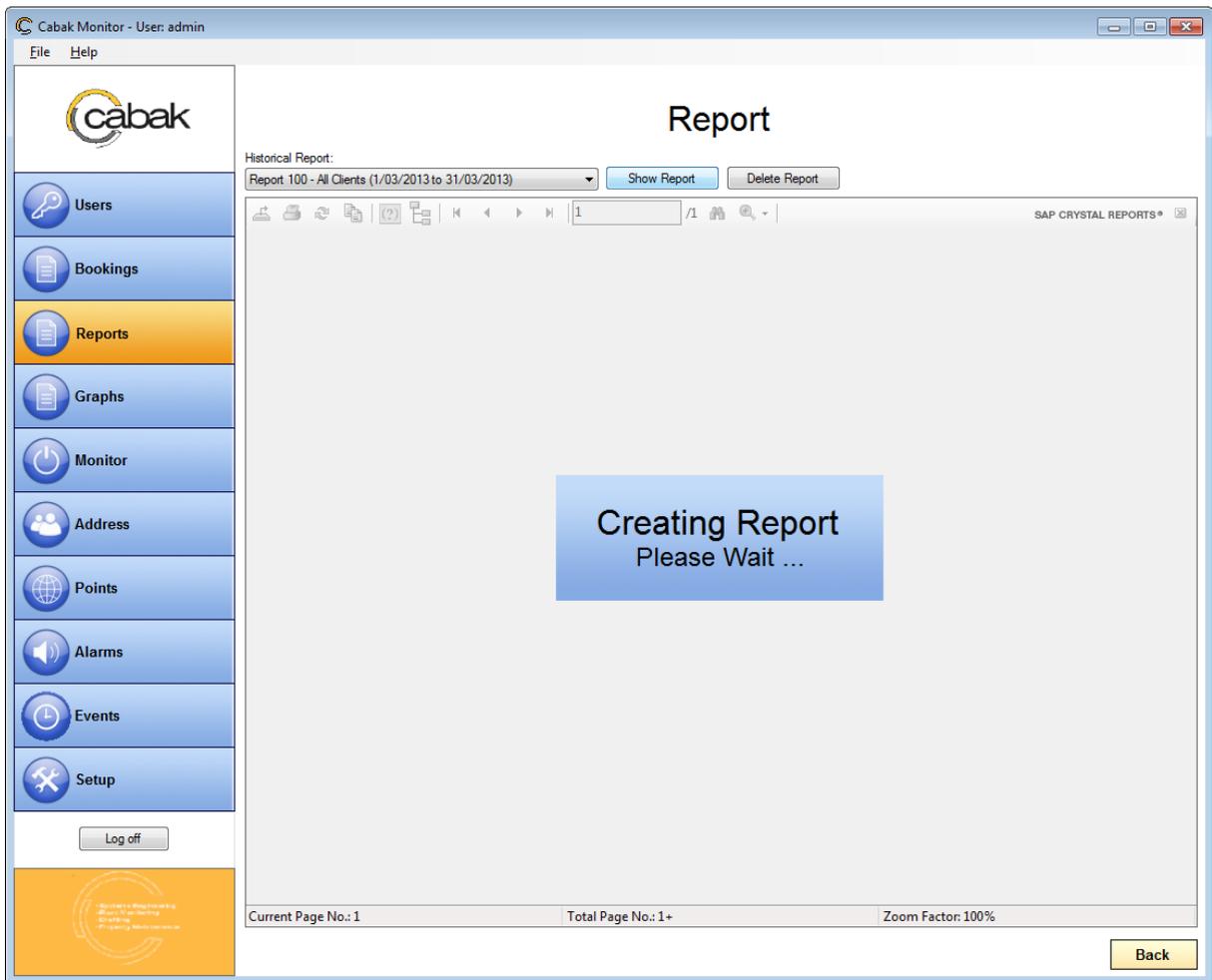


Figure 11-10: Historical After Hours Report Part 2

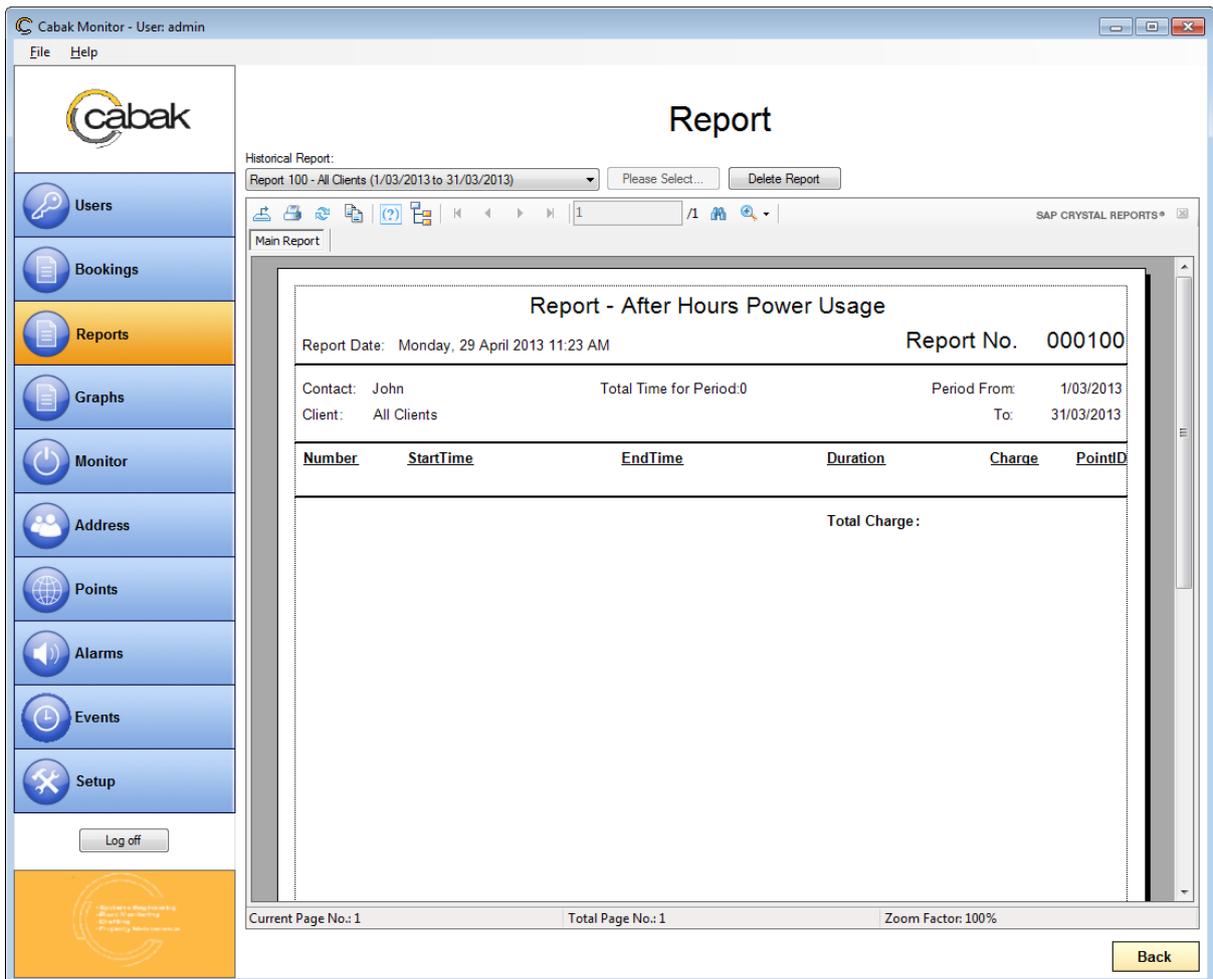


Figure 11-11: Historical After Hours Report Part 3

The Historical Reports also have the same managing toolbar as the New Reports. Refer to Section 11-3/ - Management Toolbar for instructions on how to use this toolbar.

Section 11-2-2/ - Historical Accumulator Report

The screenshot shows the 'Cabak Monitor' application window. The title bar reads 'Cabak Monitor - User: admin'. The interface has a sidebar on the left with icons for 'Users', 'Bookings', 'Reports', 'Graphs', 'Monitor', 'Address', 'Points', 'Alarms', 'Events', and 'Setup'. The 'Reports' icon is highlighted. Below the sidebar is a 'Log off' button. The main area is titled 'Report' and contains a 'Historical Report:' section with a dropdown menu set to 'Report 100 - All Clients (1/03/2013 to 31/03/2013)' and a 'Delete Report' button. Below this is a management toolbar with various icons. The main report content is titled 'Report - Accumulator' and includes the following information:

Report Date: Monday, 22 April 2013 3:55 PM Report No. 000100

Contact: Period From: 1/03/2013
Client: All Clients To: 31/03/2013

Description	Initial Value	End Value	Usage	Rate	Value
CLIENT:					

Client Cost :
Total Cost :

At the bottom of the report area, it says 'Current Page No.: 1', 'Total Page No.: 1', and 'Zoom Factor: 100%'. A 'Back' button is located in the bottom right corner of the report area.

Figure 11-12: Historical Accumulator Report

The Accumulator Report has the same fields as the After Hours Report, which must be fulfilled before the report can be generated:

Historical Report:

Report 100 - All Clients (1/03/2013 to 31/03/2013) Show Report

1. Historical Report: choose which previously created report to view, depending on the client and period reported.

Once these have been chosen, click on Show Report.

The Accumulator Report also has the same management toolbar as the After Hours Report. Refer to Section 11-3/ - Management Toolbar for instructions on how to use this toolbar.



Note: the most recent report is shown by default.

Section 11-2-3/ - Historical Alarms Report

Figure 11-13: Historical Alarms Report



The Alarms Report has the same fields as the After Hours Report, which must be fulfilled before the report can be generated:

Historical Report:
 Report 1 - All Clients, All Types (1/03/2013 to 31/03/2013) Please Select... Delete Report

1. Historical Report: choose which previously created report to view, depending on the client and period reported.

Once these have been chosen, click on Show Report.

The Accumulator Report also has the same managing toolbar as the After Hours Report. Refer to Section 11-3/ - Management Toolbar for instructions on how to use this toolbar.



Note: the most recent report is shown by default.

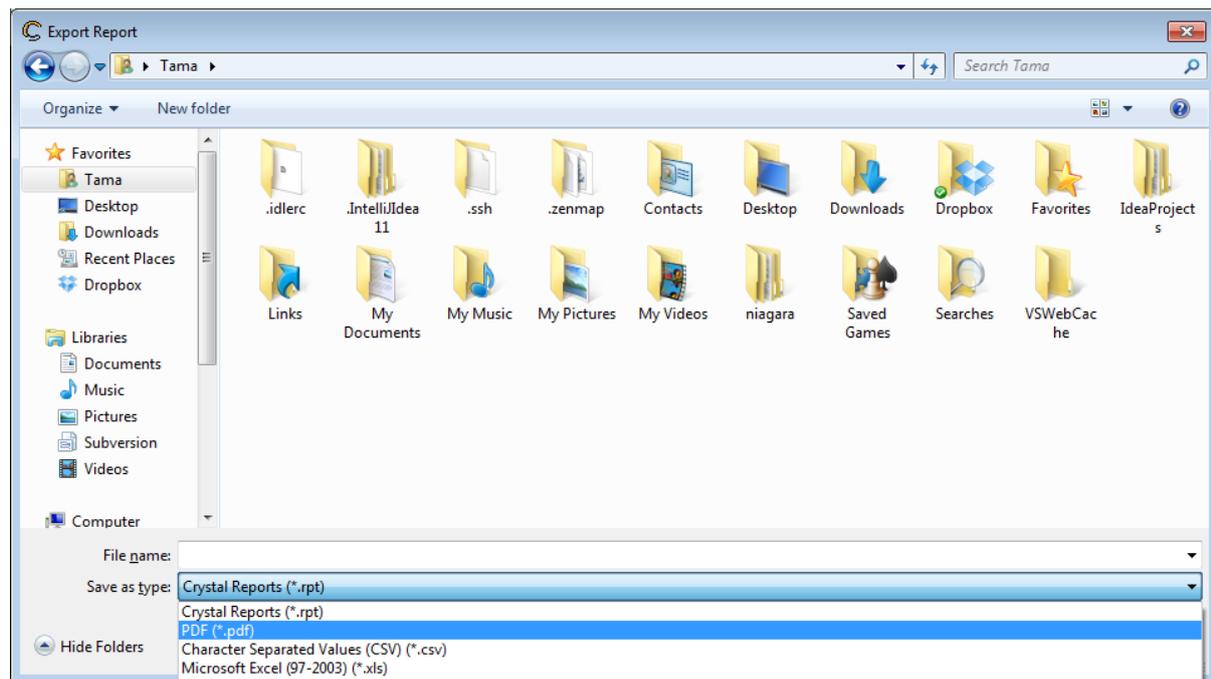
Section 11-3/ - Management Toolbar:

Numerous viewing and output actions can be performed from this toolbar. It is located at the top left of every report, after it has been created. From this toolbar, the following actions can be undertaken:



1. Export a Report
2. Print a Report
3. Refresh the Report
4. Copy report to clipboard
5. Toggle parameter panel
6. Toggle the Group Tree
7. Navigate report by pages
8. Got to selected page of report
9. Search for specified text
10. Page zoom can be chosen from drop down menu

By clicking on the Export Button , a report can be saved in a directory as defined.



Reports can be exported in a number of formats. These are Crystal Reports (*.rpt), Adobe Acrobat (*.pdf), Microsoft Excel (*.xls), Microsoft Excel Data Only (*.xls), Microsoft Word (*.doc) and Rich Text Format (*.rtf).

By clicking on the print button , the report will be printed using the computers print dialogue box.

Section 12/ - Events

On the Events page, previously created events can be edited and deleted, and new events can be added.

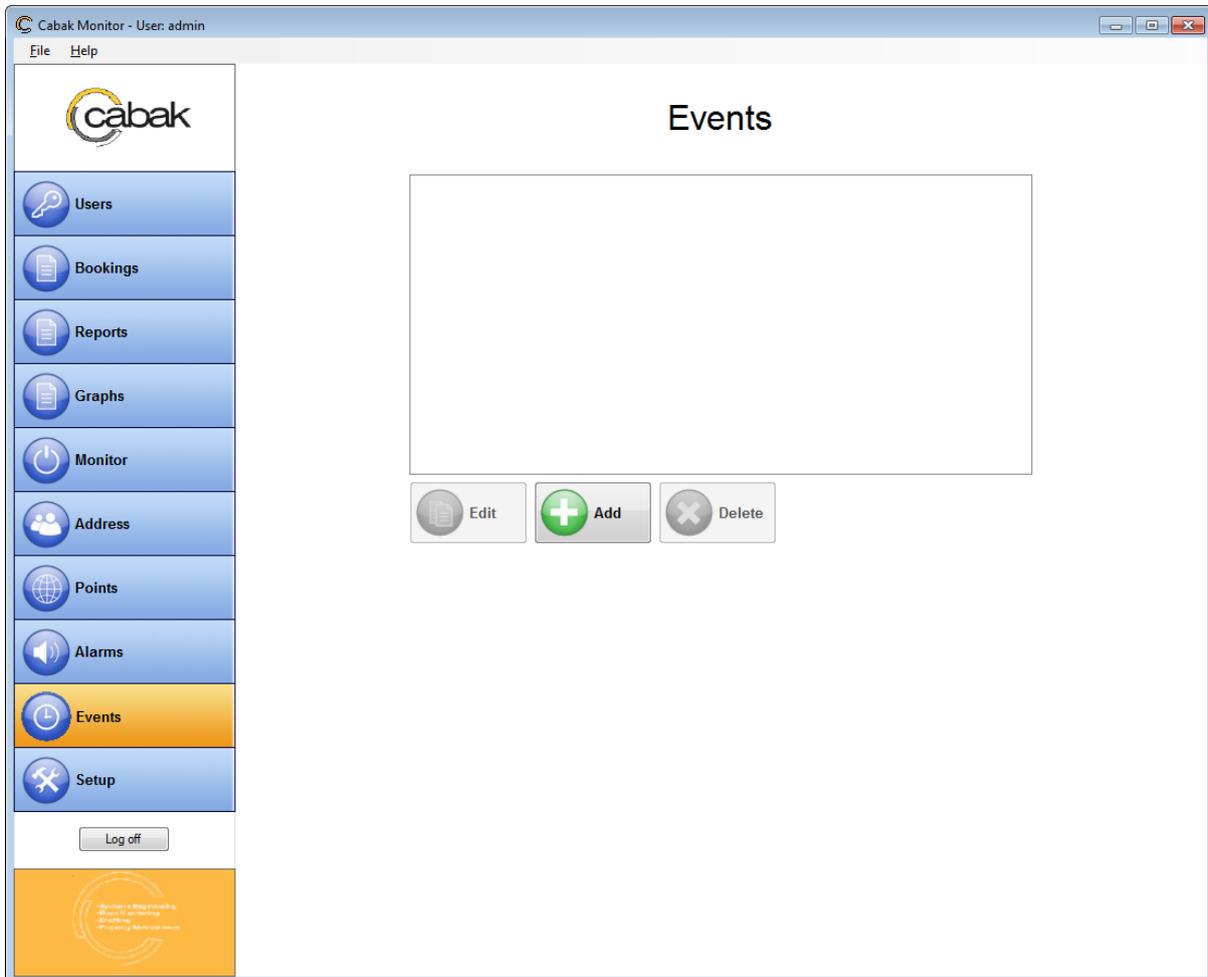


Figure 12-1: Events Page

After initial installation, only the Add Event button will be available. Clicking on the green Add button will bring up the next screen.



Note: Event Reports are emailed to the Site Contact Only. Should you require more than one recipient, enter multiple email addresses in the Site Contact Email field (found on the Setup Page; Refer to Section 5/ - Setting Up the Environment) separated by a semicolon (;)

Site Name:	<input type="text" value="My Site Name"/>		
Site Address:	<input type="text" value="Address of the site"/>		
Site Contact:	<input type="text" value="Bill"/>	Email:	<input type="text" value="ly@microsoft.com; stevey@apple.com"/>
Report Contact:	<input type="text" value="John"/>	Email:	<input type="text" value="von@neumann.com"/>

Section 12 - 1/ - Email Reports

Cabak Monitor - User admin

File Help

cabak

Users

Bookings

Reports

Graphs

Monitor

Address

Points

Alarms

Events

Setup

Log off

Events

Event Details

1 Event Name:

2 Event Type: 3 Last Run Time: Never

Event Message

4 Recipients: (all recipients will be notified)

5 Subject:

6 Body:

7 Recurrence Pattern

Hourly

Daily Time:

Weekly

Monthly

8 Report Parameters

Clients:

Period:

Report:

Figure 12-2: Add Email Reports Events Page

Before an Email Report event can be added, the following fields must be completed:

1. Event Name: The name of the event
2. Event Type:

Email Reports

Email Reports

Email Alive

Email Point Values

SMS Alive

SMS Point Values

3. Last Run Time: The last time the event was run
4. Who receives the email
5. Email Subject: The subject of the event email
6. Email Body: The body of text of the email message
7. Recurrence Pattern:
 - Hourly: Runs each hour on the dot
 - Daily: The event can be chosen to run each day at a selected time

- Weekly: The event can be chosen to run weekly, and may be specified a specific day to occur.

- Monthly: The event can be chosen to run monthly, and may be specified a specific day of the month to occur.

8. Report Parameters:

- Clients:

The Event Report can be chosen to be sent as a combined report of all the clients, or can be sent as individual reports for each client.

- Period:

The period must also be defined, from the choices available from the drop down menu. They are the Last Calendar Month, the Last Calendar Month from Today or So Far This Month.

- Report:

Lastly, the type of report to be sent must be chosen. This can be the After Hours Report, Accumulator Report or Alarms Report.

Once the fields have been completed, the event can be saved or cancelled by pressing the appropriate button at the bottom.



Note: Scheduled events are run nightly at 12 midnight

Section 12 - 2/ - Email Alive

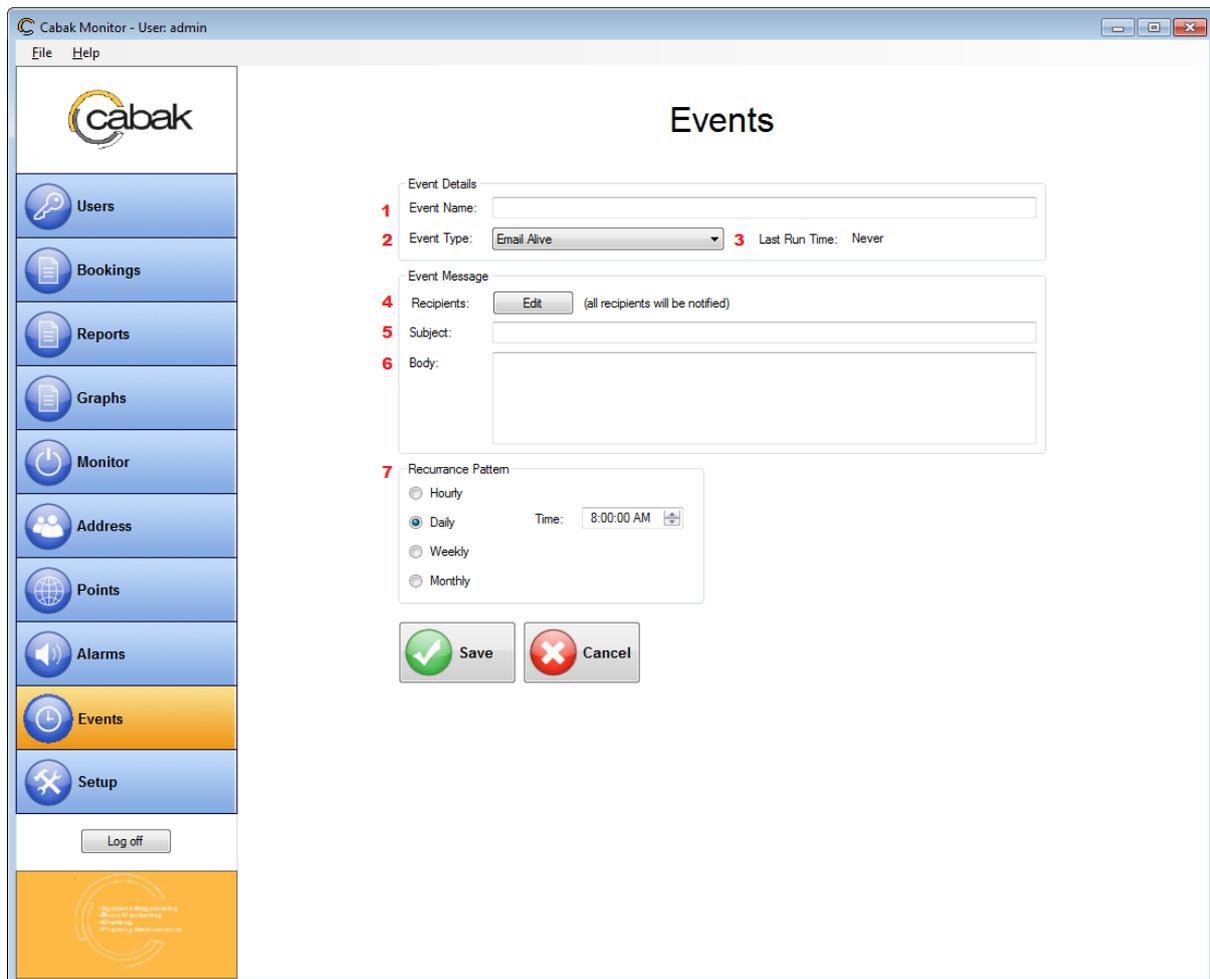
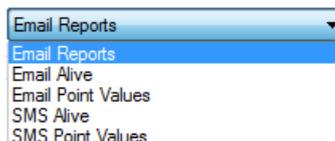


Figure 12-3: Add Email Alive Events Page

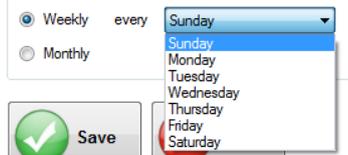
Before an Email Alive event can be added, the following fields must be completed:

1. Event Name: The name of the event
2. Event Type:



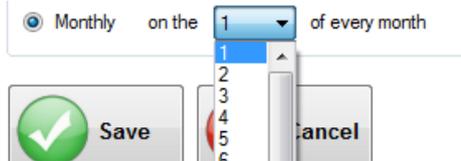
3. Last Run Time: The last time the event was run
4. Who receives the email
5. Email Subject: The subject of the event email
6. Email Body: The body of text of the email message
7. Recurrence Pattern:
 - Hourly: Runs each hour on the dot
 - Daily: The event can be chosen to run each day at a selected time

- Weekly: The event can be chosen to run weekly, and may be specified a specific day to occur.



A screenshot of a user interface for configuring a weekly event. It features two radio buttons: 'Weekly' (selected) and 'Monthly'. To the right of the 'Weekly' button is the word 'every' followed by a dropdown menu currently showing 'Sunday'. The dropdown menu is open, displaying a list of days: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. Below the dropdown is a green 'Save' button with a checkmark icon.

- Monthly: The event can be chosen to run monthly, and may be specified a specific day of the month to occur.



A screenshot of a user interface for configuring a monthly event. It features two radio buttons: 'Monthly' (selected) and 'Weekly'. To the right of the 'Monthly' button is the text 'on the' followed by a dropdown menu showing '1', and then 'of every month'. The dropdown menu is open, showing a list of numbers from 1 to 6. Below the dropdown is a green 'Save' button with a checkmark icon and a grey 'Cancel' button.

Once the fields have been completed, the event can be saved or cancelled by pressing the appropriate button at the bottom.



Note: Scheduled events are run nightly at 12

Section 12 - 3/ - Email Point Values

Events can also be added to email Point Values.

The screenshot shows the 'Events' configuration page in the Cabak Monitor application. The interface includes a sidebar with navigation options and a main form area. The form is divided into several sections, each with a numbered red indicator:

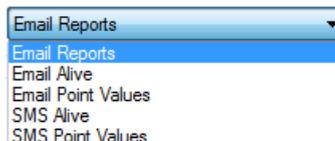
- 1 Event Name:** A text input field.
- 2 Event Type:** A dropdown menu currently set to 'Email Point Values'.
- 3 Last Run Time:** A text input field set to 'Never'.
- 4 Recipients:** A text input field with an 'Edit' button and the note '(all recipients will be notified)'. Below it are fields for **5 Subject:** and **6 Body:**.
- 7 Recurrence Pattern:** Radio buttons for 'Hourly', 'Daily' (with a time selector set to '8:00:00 AM'), 'Weekly', and 'Monthly' (selected, with a dropdown set to '1' of every month).
- 8 Selected Points:** A list box containing 'My analog value' (checked), '323~AnalogValue', and '0~BinaryValue'.

At the bottom of the form are 'Save' and 'Cancel' buttons.

Figure 12-3: Add Email Point Values Events Page

Before an Email Alive event can be added, the following fields must be completed:

1. Event Name: The name of the event
2. Event Type:



3. Last Run Time: The last time the event was run
4. Who receives the email
5. Email Subject: The subject of the event email
6. Email Body: The body of text of the email message
7. Recurrence Pattern:
 - Hourly: Runs each hour on the dot
 - Daily: The event can be chosen to run each day at a selected time

- Weekly: The event can be chosen to run weekly, and may be specified a specific day to occur.

- Monthly: The event can be chosen to run monthly, and may be specified a specific day of the month to occur.

Once the fields have been completed, the event can be saved or cancelled by pressing the appropriate button at the bottom.

8. Selected Points:

The points (the values of which the event will send in an email to the site and report contact) must be chosen from the points available from the Cabak Monitor Application. The list of detected and available points can be found under Selected Points.

Once the fields have been completed, the event can be saved or cancelled by pressing the appropriate button at the bottom.



Note: Scheduled events are run nightly at 12

After the event has been added, it may be edited or deleted, or another event may be added.

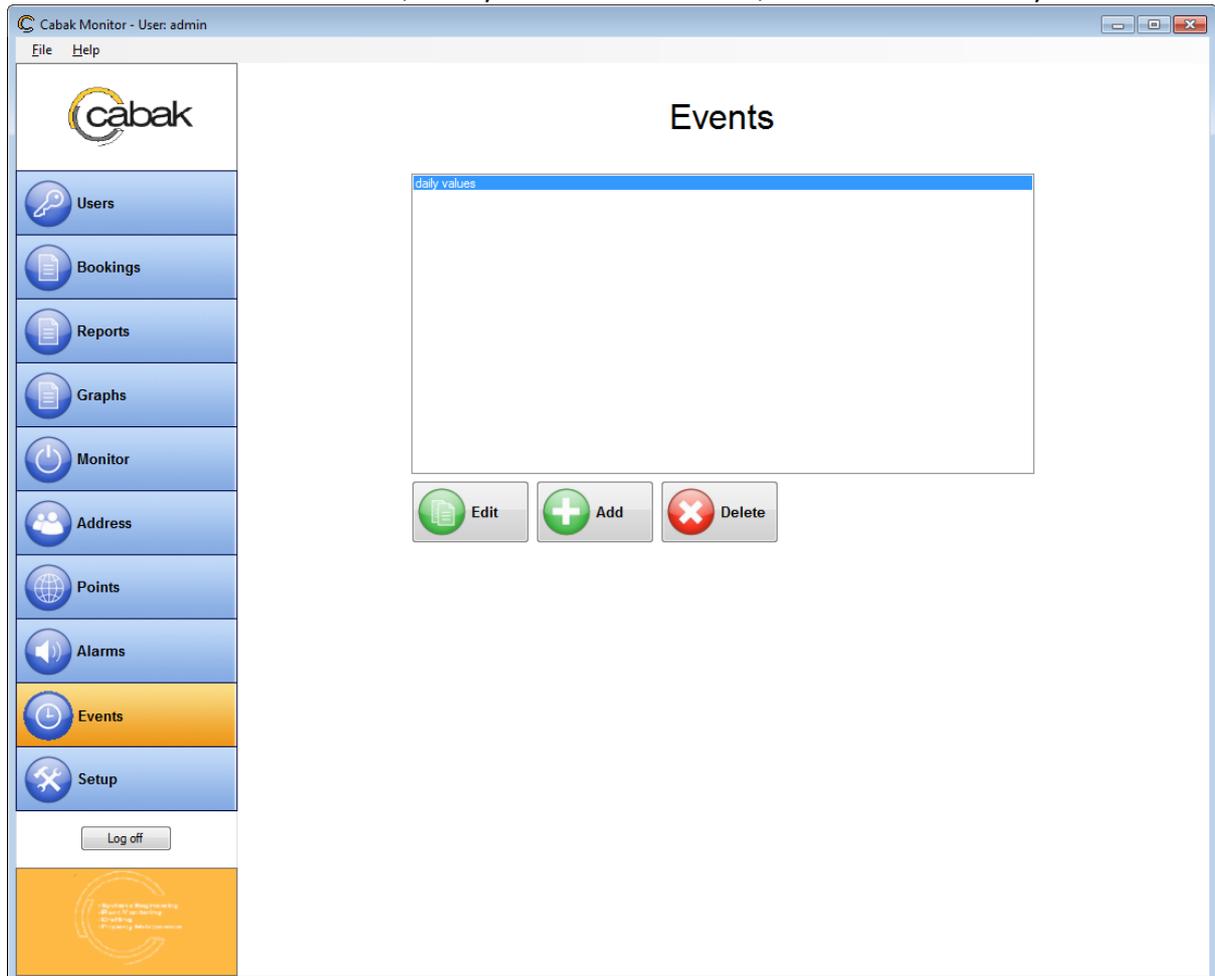


Figure 12-3: Events Page (Event Added)

To edit an event, click on the Edit button, located under the available events.

Clicking on the edit button will open a page similar to the one opened when the event was first added. This page allows for changes to be made to the event fields.

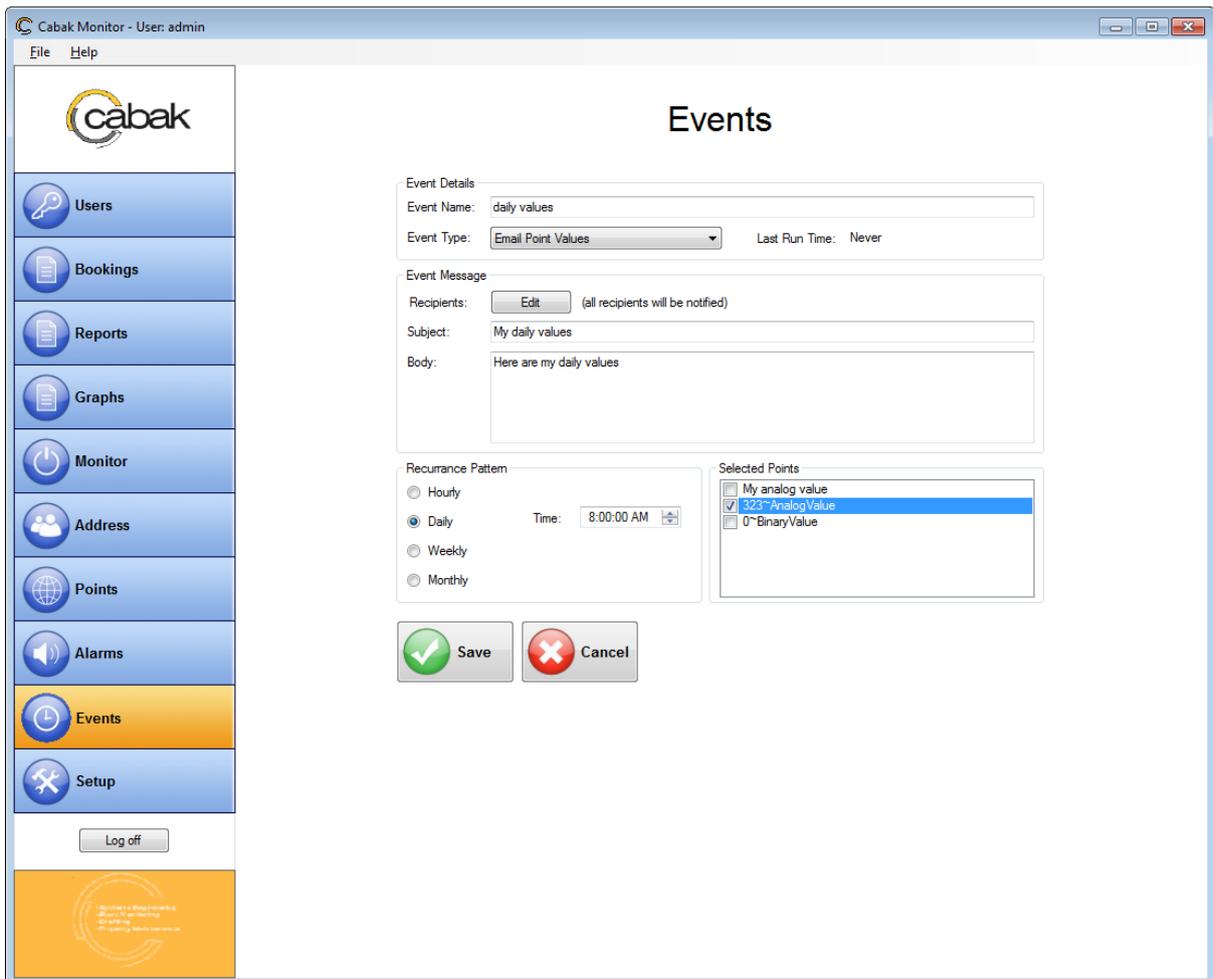
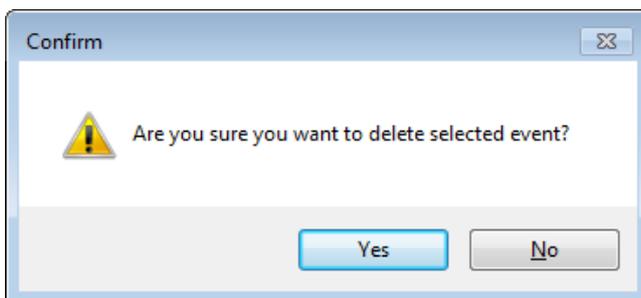


Figure 12-4: Editing Events Page

Once the changes have been made, the event can be saved or cancelled, by clicking on the appropriate button at the bottom.

If a particular event is to be deleted, the following popup window will appear after the delete button is clicked, requesting confirmation of the deletion.



Clicking 'yes' will remove the selected item from the available events on the Events Page. Clicking 'no' will return to the Events Page, with removing the selected event.

Section 13/ - Logging Off

To Log off Cabak Monitor, simply click on the Log off Button situated under the navigation button panel on the left of the screen.



Logging off will take you to the original User Login screen.



Inactivity for a period 5 mins will cause the application to automatically log the user off.

Section 14/ - Technical Assistance

This program has been installed and configured by a contractor. The best and quickest way to achieve assistance with this application is to contact the contractor directly.

Contractor Contact Details

Company Name

Contact Name

Phone No

Mobile

After first contacting the Contractor and assistance is required then please contact Cabak

Phone: 07 3256 8608

Mob: 0412 063 566

E-Mail: mike@cabak.com.au

Web Site: www.cabak.com.au