

C.A.T.[™] Manager

PC SUPPORT PROGRAM FOR THE C.A.T4 CABLE AVOIDANCE TOOL RANGE

90/CAT-MANAGER-OPMAN-ENG

VERSION 5.0.0

09/2014

READ THIS MANUAL BEFORE OPERATING THE SOFTWARE

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1 Preface

1.1 Before You Begin

Please read this user manual before installing and attempting to use C.A.T™ Manager™.

Note that this manual and all its contents are subject to change. Radiodetection products are under continuous development. Radiodetection Ltd reserves the right to modify the product without notice and some product changes may have taken place after this user manual was published.

Contact your local Radiodetection office or dealer, or visit www.radiodetection.com for the latest product information, including this manual and the software.

1.2 Important Notice

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2 Introduction to C.A.T Manager

2.1 About C.A.T Manager

C.A.T Manager™ is a Radiodetection product support program for Microsoft® Windows, and is compatible with all models of C.A.T4™. Once installed onto your PC or laptop, C.A.T Manager can be used to:

All C.A.T4 products

- Update the C.A.T4 Software
- Update the C.A.T4 Configuration Settings
- Perform an eCert™ and print a Certificate
- Retrieve the latest factory calibration data to create a Certificate
- Contact the Radiodetection Customer Support department

Additionally, for eC.A.T4 and gC.A.T series products only:

- Retrieve logged usage data
- Set the unit Clock
- Set the Calibration Due date
- Personalise the connected unit with Plant Number and Free Text Fields

Additionally, for gC.A.T4 series products:

- GPS logging functionality

2.2 System Requirements

Microsoft Windows XP, Microsoft Windows Vista®, Windows 7, Windows 8 (including 8.1).

A live Internet connection is required to take advantage of some C.A.T Manager features.

A spare USB port and a Mini-USB cable are required to connect a C.A.T4 unit to the PC. A certified USB 2.0 compliant cable is strongly recommended.

2.3 Start Up

After running the C.A.T Manager installation, you must complete USB driver installation. You can then opt to create a C.A.T Manager account to take full advantage of advanced features. See section 3 for information.

2.4 Installation

C.A.T Manager (including the Data Collector and software update elements) is compatible with both the 32-Bit & 64-Bit versions of Windows XP, Vista, 7, 8 and 8.1.

gC.A.T4™ locators are capable of geo-datalogging and will require installation of Google Earth. For more information about Google Earth installation, system requirements and operation go to the website <https://www.google.com/earth/>

To view .XLS and .XLSX files it may be necessary to install Microsoft Excel.

To view the Software Licence Agreement and Privacy Statement, it will be necessary to install a PDF reader.

3 C.A.T Manager Accounts

3.1 About C.A.T Manager Accounts

To take advantage of the full suite of C.A.T Manager features, each user will need to complete the registration process. This only needs to be performed once.

Registration allows operators to:

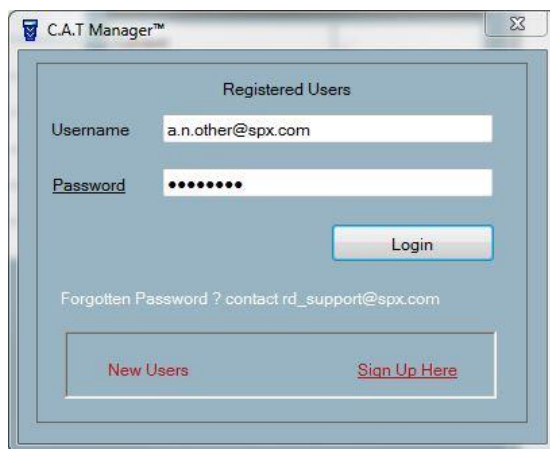
- Run the eCert calibration process
- Receive software updates / upgrades as they are released
- Delete usage data from eC.A.T4 and gC.A.T4 series products (see 'Advanced Accounts' below)

3.2 Registering a C.A.T Manager Account

To register using C.A.T Manager, you must have a live internet connection

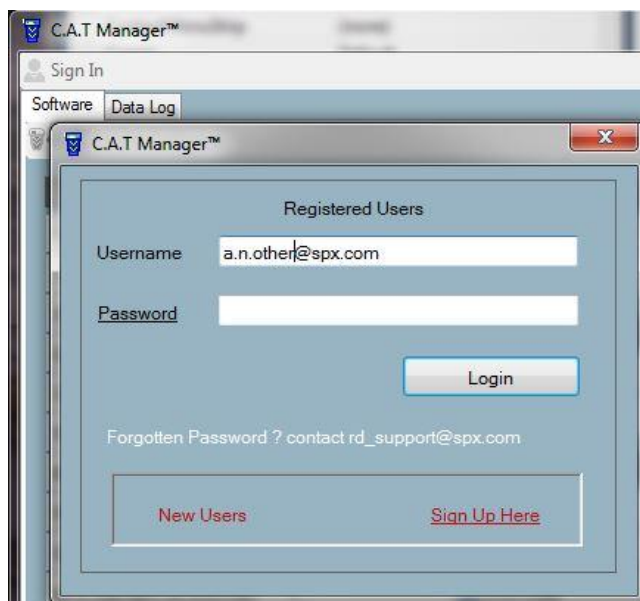
1. Press the **Sign In** button on the C.A.T Manager toolbar
2. Either Login if you are a returning user, or click 'Sign Up Here' if you are a new user and fill in the required fields.

Your C.A.T Manager Account user name should be a working email address to enable the eCert process. Radiodetection will not use this email address to contact you unless you specifically request it.



3.3 Signing In to Your Account

Once registered, press the **Sign In** button on the C.A.T Manager toolbar to sign in to your account. You can use the same login on any PC where C.A.T Manager has been installed.

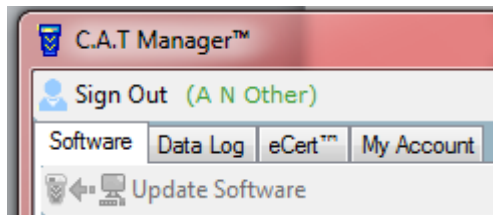


IMPORTANT: For convenience, an account will remain logged in until the **Sign Out** button is pressed.

3.4 Signing Out of Your Account

For enhanced security, or if multiple accounts are to be used on a single PC, you should Sign Out when a working session is finished.

If you wish to log out of your C.A.T Manager Account, press the **Sign Out** button on the C.A.T Manager toolbar.



3.5 eCert Credits and User Accounts

To run an eCert certification, you must have eCert credits available on your account. To purchase eCert credits, contact your local Radiodetection office or Radiodetection Approved Distributor. To assign credits to your account you will need to provide the sales team with the registered e-mail address.

A confirmation email shall be sent after purchase of eCert credits.

3.6 Advanced Accounts

In addition to the Standard user account, there are 2 C.A.T Manager levels available to provide additional capability.

Advanced Account

C.A.T Manager provides the user with option of configuring their locator and setting the configuration schedule (see section 5 for information).

This is done via the Configuration Screen and is only available to Advanced or Super users.

Super Account

The eC.A.T4 series of products incorporate a large data storage facility designed to offer at least one year of data log capacity. In some circumstances C.A.T operators may wish to be able to delete usage data from an eC.A.T4 series product.

This is done via the Data Log Screen and is only available to Super users.

Requesting an Upgrade

Please contact your local Radiodetection office or Radiodetection Approved Distributor to upgrade to an advanced or super account. You will need to provide the email address associated with your account. There is no charge for the upgrade.

Please note: Once a C.A.T Manager Account is upgraded, Radiodetection strongly recommend that care is taken to prevent unauthorized access to that account.

Radiodetection cannot accept responsibility for safeguarding the data stored on datalogging C.A.T products and strongly recommends that data is regularly backed up to a PC using C.A.T Manager.

4 Software Tab

4.1 About the Software Tab

This screen displays the current software configuration of the connected C.A.T4 locator; it also provides a method to update the C.A.T4 locator to the latest software.

4.2 Screen

The screenshot displays the C.A.T Manager software interface. The main window is titled "C.A.T Manager™" and includes a "Sign Out (A N Other)" button. The "Software" tab is selected, showing configuration settings for the connected C.A.T4 locator. The interface is divided into three main sections: Configuration, Clock, and Software/Calibration. The Configuration section lists various settings like Power Frequency, Data Logging, StrikeAlert, Depth Units, CALSafe, SWING Warning, Bluetooth, and GPS. The Clock section shows the current C.A.T and Time Server timestamps. The Software/Calibration section displays the current and available software versions, along with calibration dates. A right-hand pane shows a "Login Successful" message and a list of unit information, including reading logs and software details. At the bottom, there are "Clear" and "Copy All" buttons, and a status bar showing the device ID "10/C4EN23-1".

Configuration	
Power Frequency (Hz)	60
Data Logging	Yes
StrikeAlert™	Yes
Depth Units	No Depth
CALSafe™	Yes
SWING™ Warning	Yes
Bluetooth	Yes
GPS	Yes
GPS Lock Seek (mm:ss)	15:00
GPS Remain On (mm:ss)	15:00

Clock	
C.A.T	11/08/2014 15:42:56
Time Server	11/08/2014 15:41:26

Software	
Current	0.03
Available	0.05

Calibration	
Start Date	03/07/2014
CALSafe™	13/02/2015
End Date	26/07/2015

Unit Information:

- Reading Unit Information
- Reading SBAS
- Reading EMMC
- Reading Data Logs
- Reading Log 03/07/2014
- Reading Log 16/07/2014
- Reading Log 24/07/2014
- Reading Log 01/08/2014
- Reading Log 05/08/2014
- Reading Log 06/08/2014
- Reading C.A.T Clock
- Checking C.A.T Clock
- Reading Software Details
- Reading PC Software Version
- Reading CALSafe™ Date
- C.A.T Clock differs from P.C Clock
- C.A.T Clock : 11/08/2014 15:42:56
- RD Time Server Clock : 11/08/2014 15:41:26
- Writing C.A.T Clock
- Identify Complete
- Serial Number : 10/C4EN23-1
- Model : gC.A.T-4+
- Power Frequency : 60Hz
- StrikeAlert : Available
- CALSafe : Available
- SWING Warning : Available
- RTC Shutdown : Available
- Software : 0.03
- Software Update Available

Clear Copy All

10/C4EN23-1

4.3 Locator Settings

These windows display the current settings of the C.A.T4 locator.

Configuration		Clock	
Power Frequency (Hz)	60	C.A.T	11/08/2014 15:42:56
Data Logging	Yes	Time Server	11/08/2014 15:41:26
StrikeAlert™	Yes	Software	
Depth Units	No Depth	Current	0.03
CALSafe™	Yes	Available	0.05
SWING™ Warning	Yes	Calibration	
Bluetooth	Yes	Start Date	03/07/2014
GPS	Yes	CALSafe™	13/02/2015
GPS Lock Seek (mm:ss)	15:00	End Date	26/07/2015
GPS Remain On (mm:ss)	15:00		

4.4 Update Software

The version of software on the C.A.T4 is compared against the version of software installed within C.A.T Manager. If an upgrade is available, you have the option of downloading the latest version.

To update software on the C.A.T4, click 'Update Software' with your C.A.T4 connected.

C.A.T Manager™			
Sign Out (A N Other)			
Software	Data Log	eCert™	My Account
Update Software			
Configuration		Clock	
Power Frequency (Hz)	60	C.A.T	11/08/2014 15:42:56
Data Logging	Yes	Time Server	11/08/2014 15:45:35
StrikeAlert™	Yes	Software	
Depth Units	No Depth	Current	0.03
CALSafe™	Yes	Available	0.05
SWING™ Warning	Yes	Calibration	
Bluetooth	Yes	Start Date	03/07/2014
GPS	Yes	CALSafe™	13/02/2015
GPS Lock Seek (mm:ss)	15:00	End Date	26/07/2015
GPS Remain On (mm:ss)	15:00		

5 Configuration Tab

5.1 About the Configuration tab

This tab is only visible on 'Advanced User' accounts, as it involves changing the operation and functionality of C.A.T4 locators. Untrained staff changing these settings could affect the operation and safety of the locator. Upgrading to an 'Advanced User' account is free of charge and can be organised by the local sales team.

This screen allows you to personalise the settings of a C.A.T4 series product. You can update the unit details (plant number, free text field), enable and disable various features (depending on account status) and adjust various system parameters.

5.2 Screen

The screenshot shows the 'C.A.T Manager' web application interface. At the top, there's a header bar with 'C.A.T Manager™' and a 'Sign Out (A N Other)' link. Below this is a navigation menu with tabs: 'Software', 'Data Log', 'Configuration' (selected), 'eCert™', and 'My Account'. Under the 'Configuration' tab, there are two sub-tabs: 'Update Configuration' and 'GPS Reset'. The main content area is divided into three sections: 'Calibration Schedule', 'Configuration', and 'GPS'. The 'Calibration Schedule' section contains a table with 'CALSafe Enabled' (radio buttons for Yes/No), 'Days Remaining : 365', 'Calibration Start Date' (12/08/2014), 'Calibration Due Date' (14/08/2015), and 'Calibration End Date' (14/08/2015). The 'Configuration' section contains a table with 'Plant Number' (text input), 'Text' (text input), 'StrikeAlert™' (radio buttons for Yes/No), 'SWING™ Warning' (radio buttons for Yes/No), 'Depth Units' (dropdown menu set to 'Metric'), 'Bluetooth' (radio buttons for Yes/No), and 'RTC Shutdown' (radio buttons for Yes/No with a link to upgrade software). The 'GPS' section contains a table with 'GPS Enabled' (radio buttons for Yes/No), 'GPS Lock Seek (mm:ss)' (range slider from 0 to 15:00), 'GPS Remain On (mm:ss)' (range slider from 0 to 15:00), and 'SBAS' (radio buttons for Yes/No).

Calibration Schedule		
CALSafe Enabled	<input checked="" type="radio"/> Yes <input type="radio"/> No	Days Remaining : 365
Calibration Start Date	Calibration Due Date	Calibration End Date
12/08/2014	14/08/2015	14/08/2015

Configuration		
Plant Number	<input type="text"/>	
Text	<input type="text"/>	
StrikeAlert™	<input checked="" type="radio"/> Yes <input type="radio"/> No	
SWING™ Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Depth Units	Metric	
Bluetooth	<input checked="" type="radio"/> Yes <input type="radio"/> No	
RTC Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No * Click Here to Upgrade Software to Enable RTC Shutdown	

GPS		
GPS Enabled	<input checked="" type="radio"/> Yes <input type="radio"/> No	
GPS Lock Seek (mm:ss)	<input type="range"/>	15:00
GPS Remain On (mm:ss)	<input type="range"/>	15:00
SBAS	<input type="radio"/> Yes <input checked="" type="radio"/> No	

5.3 Calibration Schedule

CALSafe™

The CALSafe option (eC.A.T4 series only) can be set to prevent the unit from operating outside the defined service/calibration period, helping to ensure compliance with individual company policies. CALSafe can be disabled or enabled in the Configuration Screen

The Date on which a Calibration warning is shown can be configured to match individual requirements. eC.A.T4 series products provide the operator with a variable-day countdown reminder to the next Calibration Due Date. Please note that Radiodetection recommend Calibration at least annually.

Configuration

Unit Identity

The following fields can be used to personalise an eC.A.T4 series product:

- Plant Number – up to 16 characters to insert your own identifier for the unit, such as a fleet or plant number.
- Free Text – up to 70 characters to insert any desired details, for example the operator's name, or the contract to which the unit is assigned.

Strike Alert

Warning provided when a potential shallow cable is detected.

SWING Warning

Warning provided when a C.A.T is swung around too fast for an effective survey.

Depth Units

Select metric (metres) or Imperial (feet) for depth display (if feature is available), select None to disable the depth feature.

Bluetooth

Enable or disable Bluetooth communication for external Radiodetection application.

RTC Shutdown

Enabling this option will not allow the operator to use a C.A.T where a failure within the RTC (real-time clock) has been detected.

5.4 GPS

Enable or disable the GPS functionality (if feature is available on the model).

GPS Lock Seek* Limits the time the locator will take attempting to obtain a GPS lock.

GPS Remain On* Limits the time the GPS system should stay on for following the release of the power trigger.

SBAS Enable or disable SBAS (GPS Space-based Augmentation Systems) for enhanced GPS accuracy.

GPS Reset Resets the GPS options to factory defaults.

*These settings can have an adverse effect on the battery life of the unit.

6 eCert Tab

6.1 About the eCert Tab

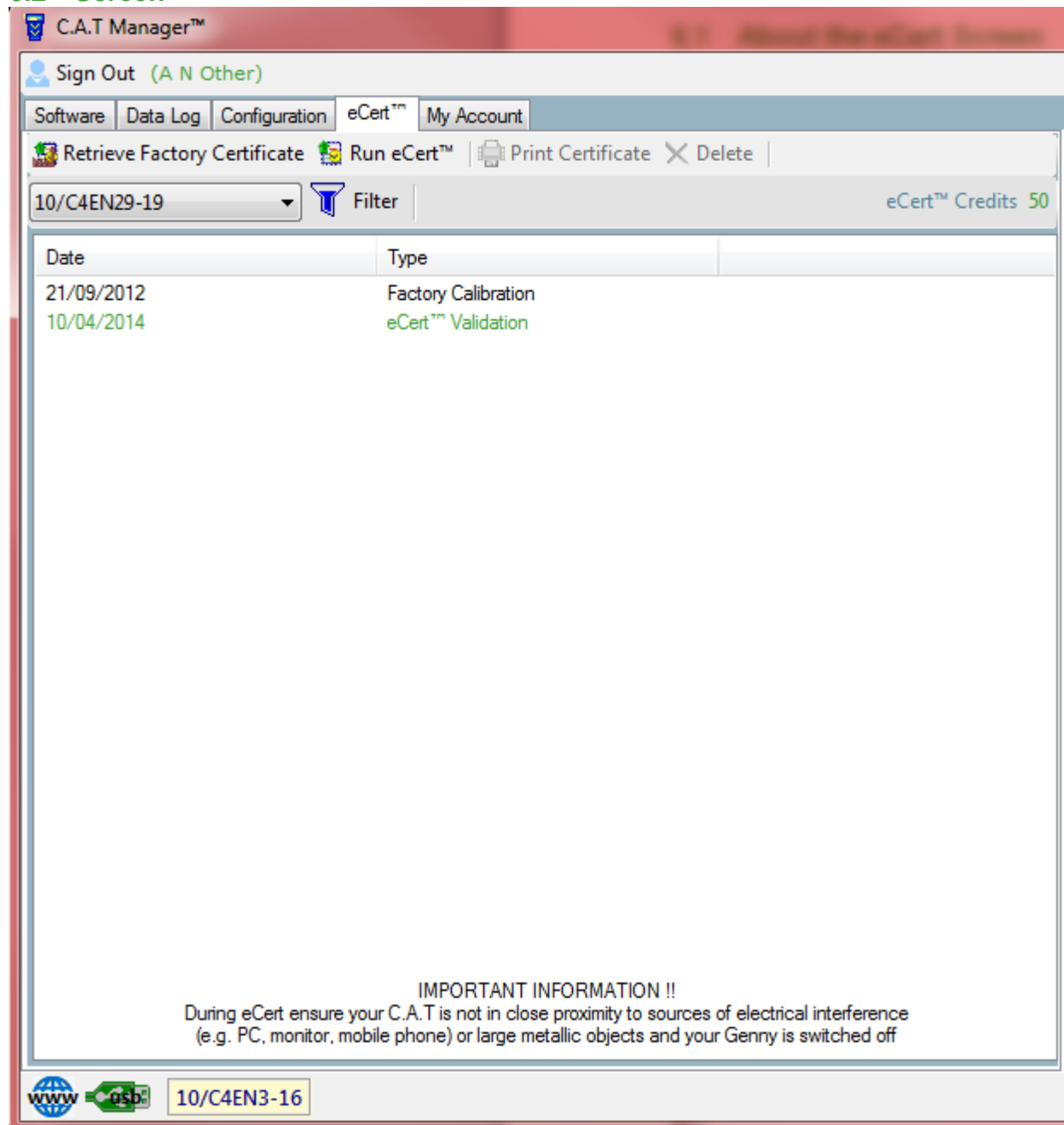
This screen allows you to perform an eCert on your C.A.T4. After performing a successful eCert, you will be able to print an eCert Certificate of Calibration.

You will also be able to retrieve and print a copy of the unit's last valid Factory Certificate of Calibration.

Notes:

- This screen will only become available if you successfully register and sign in.
- Your C.A.T Manager account must have eCert credits available to run an eCert Calibration. These need to be obtained from Radiodetection prior to performing an eCert Calibration, - see 'User Accounts.'

6.2 Screen



6.3 Commands

Retrieve Factory Certificate

Retrieves the latest Factory Calibration data. The data retrieved can then be used to recreate a copy of the latest Factory Certificate of Calibration.

Run eCert

Performs an eCert Calibration on the connected C.A.T4. Following an eCert test pass, a Radiodetection Calibration Certificate can be printed or saved.

Print Certificate

Prints either the Factory Certificate of Calibration or eCert Calibration Certificate depending on the item selected in the window.

Delete

Deletes the certificate selected in the window.

Double-click on any Factory Calibration or eCERT Validation to view a copy of the details.

6.4 Display Options

Filter

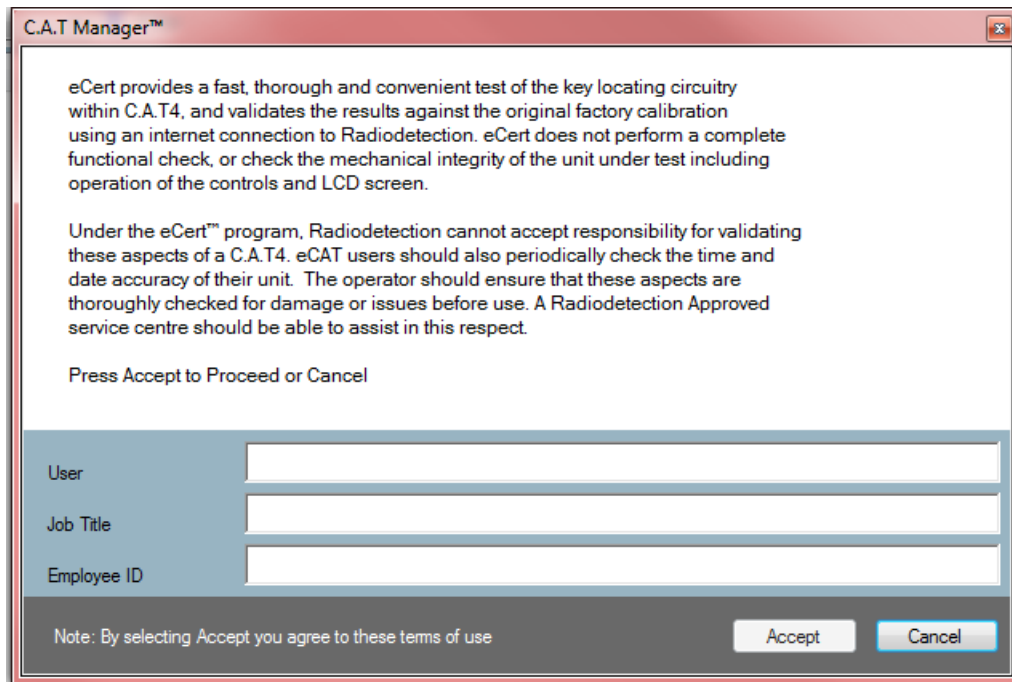
You can filter which unit serial numbers appear in the data window by typing all or part of the unit serial number. Only those Serial Numbers which match will appear in the data window.

6.5 How to Perform an eCert Test

Before performing an eCert, ensure that the C.A.T4 to be tested is not in close proximity to sources of electrical interference (e.g. PC, monitor, mobile phone) or large metallic objects, and that any Gennys or other signal transmitters in the vicinity are switched off.

Perform the following steps to perform an eCert Calibration

1. Run the C.A.T Manager program
2. Connect the C.A.T4 via USB Cable
3. Sign In
4. Select the eCert tab
5. Press the Run eCert button
6. Enter the details of the user/technician performing the eCert in the window below



The screenshot shows a window titled "C.A.T Manager™". Inside, there is a text area with the following content:

eCert provides a fast, thorough and convenient test of the key locating circuitry within C.A.T4, and validates the results against the original factory calibration using an internet connection to Radiodetection. eCert does not perform a complete functional check, or check the mechanical integrity of the unit under test including operation of the controls and LCD screen.

Under the eCert™ program, Radiodetection cannot accept responsibility for validating these aspects of a C.A.T4. eCAT users should also periodically check the time and date accuracy of their unit. The operator should ensure that these aspects are thoroughly checked for damage or issues before use. A Radiodetection Approved service centre should be able to assist in this respect.

Press Accept to Proceed or Cancel

Below the text area are three input fields labeled "User", "Job Title", and "Employee ID". At the bottom, there is a note: "Note: By selecting Accept you agree to these terms of use". To the right of the note are two buttons: "Accept" and "Cancel".

7. The eCert Terms and Conditions appear in a popup dialog. To accept the terms and continue with eCert, press the Accept Button.
8. The eCert Calibration result will automatically appear in your default web browser.

Notes:

- To perform an eCert, you need to have eCert credits available on your C.A.T4 manager account. These can be purchased by contacting Radiodetection or a Radiodetection Approved Distributor. The number of available eCert credits is shown in the eCert screen. **You will only be charged an eCert credit if the eCert Calibration is successful.**
- After performing the eCert, the Serial Number of the connected C.A.T4 will appear in the Serial Number Search box and only the eCert / Factory Calibration history for the connected unit will appear in the data window, including the latest eCert Calibration Certificate.
- Once the data is retrieved, eCert Calibration Certificates can be viewed (and printed) at any time by selecting the timestamp in the data window, and then either double-clicking the entry, pressing the Print Certificate button on the toolbar or right-clicking the mouse and selecting Print Certificate.
- If eCert fails, C.A.T Manager produces an eCert Failure Report which can be printed and returned to a Radiodetection Service Centre along with the faulty C.A.T4.
- In the event of failure, first check that the C.A.T4 to be tested is not in close proximity to sources of electrical interference (e.g. PC, monitor, mobile phone) or large metallic objects and that any Gennys or other signal transmitters in the vicinity are switched off.

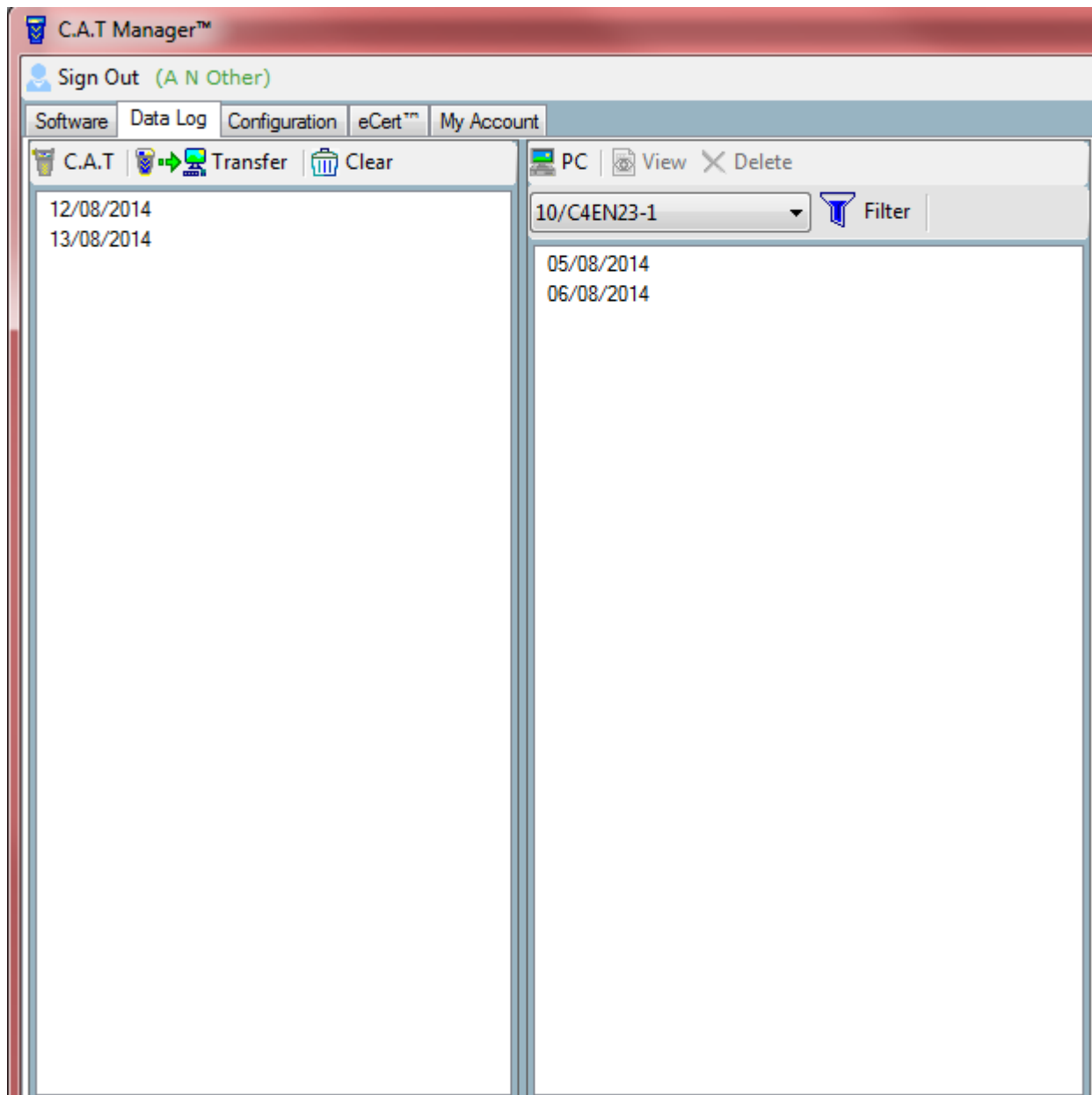
7 Data Log Tab

7.1 About the Data Log Screen

This screen allows you to upload the data logs from your C.A.T4 and store them on your PC.

The left hand window shows the list of logs that exist on the C.A.T4, and which are available for transfer to the P.C. The right hand window shows all the logs which have been transferred to the PC.

7.2 Screen



7.3 C.A.T Window Commands

Transfer

Transfers the list of displayed data logs from the datalogging C.A.T to the PC.

Clear

Clears the data logs on an eC.A.T4 – see section 7.9

7.4 PC Window Commands

Select a log in the PC Window in order to view it:



View

View the selected data log(s) in the C.A.T Data Collector.

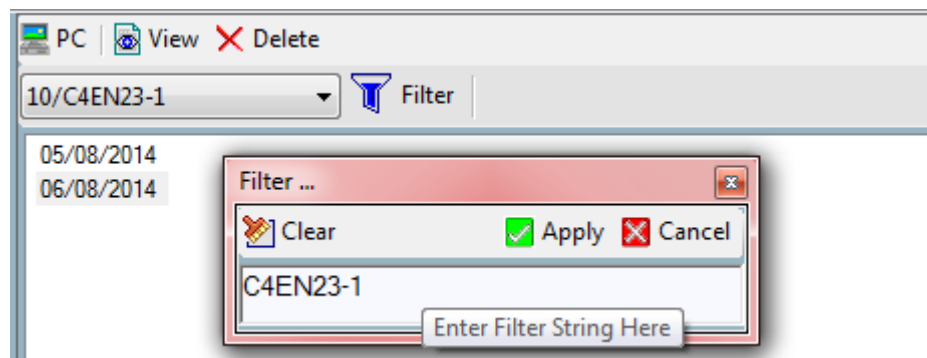
Delete

Deletes the items currently selected in the PC Window from the PC.

7.5 Filter on Serial Numbers

Operators can also filter serial numbers in the PC window by typing all or part of a serial number in the search box. Only those Serial Numbers which match will appear in the data window.

Note: When you select the **Transfer** options, the entire serial number of the connected unit appears in this window.



7.6 How to Transfer All Available Data Logs

Perform the following steps to upload data logs

1. Run the C.A.T Manager program
2. Connect a datalogging C.A.T4 via USB Cable
3. Select the Data Log tab
4. Press Transfer Button (alternatively select all then 'drag and drop')

7.7 How to Transfer Specific Data Logs

Perform the following steps to upload data logs

1. Run the C.A.T Manager program
2. Connect a datalogging C.A.T4 via USB Cable
3. Select the Data Log tab
4. Select the logs of interest in the C.A.T window
5. Press Transfer Button (alternatively select then 'drag and drop')

7.8 Enabling the Clear Function

To provide enhanced security of the locate data on a C.A.T4 this command will only become available to a specific user account if that account has been enhanced to enable this feature. To do this you will need to contact Radiodetection customer support with your C.A.T Manager account details (see section 3 for details), and accept the relevant terms and conditions. For contact details, see the back page of this instruction book.

7.9 How to Clear Data Logs From an eC.A.T4 or eC.A.T4+

Perform the following steps to clear data logs

1. Run the C.A.T Manager application
2. Sign In
3. Connect an eC.A.T4 or eC.A.T4+ via USB Cable
4. Select the Data Log tab
5. Press the Clear button

Note: Before attempting to clear data logs, you will need to contact Radiodetection Customer Support to have this feature enabled. See section 3.6.

8 My Account Screen

8.1 About the My Account Screen

This screen allows you to contact Radiodetection.

This screen is only available to users who are internet enabled and who have registered for a C.A.T4 user account via C.A.T Manager.

8.2 Screen

Welcome	A N Other
Username (e-mail address)	led.jones@spx.com
Password	*****
eCert Credits	49
Company	Radiodetection Ltd
Address	Western Drive Whitchurch Bristol Bristol BS14 0AZ
Telephone	
Mobile	
Advanced Account	Yes
Notifications	Yes
Marketing Notifications	Yes

8.3 My Account Screen Commands

Edit User Details

Updates your registration details including password and address

Privacy Statement

Opens the Radiodetection Privacy Statement (A PDF reader is required).

Contact Us Here

Click here to find online contact details for our staff worldwide.

Delete my account

Click here to delete a user account.

9 C.A.T Manager Data Collector

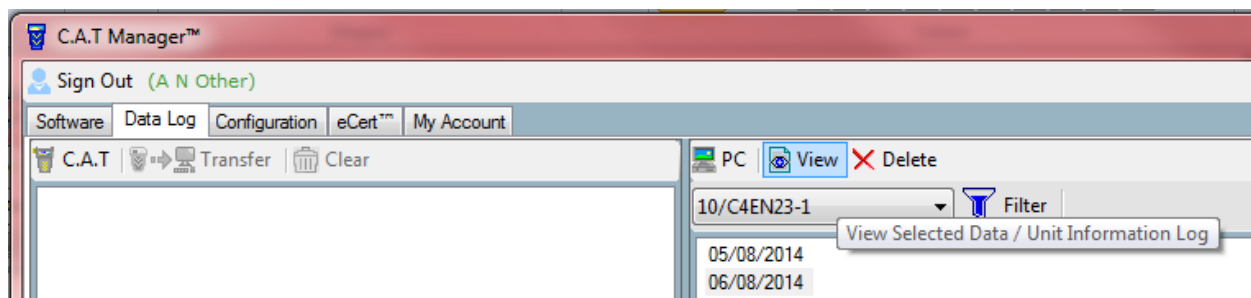
9.1 About Data Collector

Each time the trigger is pressed on a C.A.T4, a “session” log is created on the unit which can be uploaded via C.A.T Manager and stored on a PC.

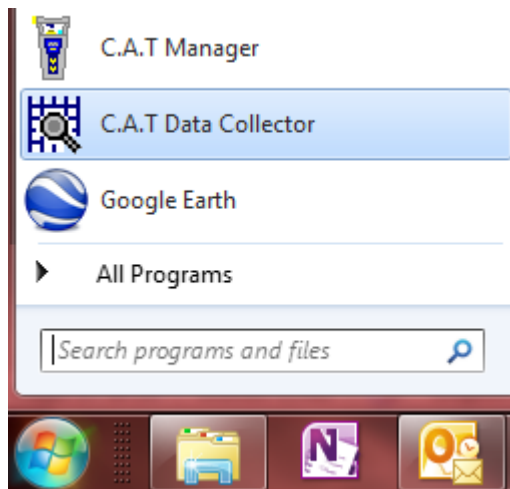
The C.A.T Manager Data Collector collates all session logs together for all C.A.Ts from which data has been transferred to a PC, and can be used to provide detailed usage analysis of one or all C.A.Ts, and to select specific parameters (‘fields’) for customised analysis in any order of your choosing.

The collated data can be filtered and stored in a single file ready for analysis in a spreadsheet application (e.g. Microsoft® Excel®).

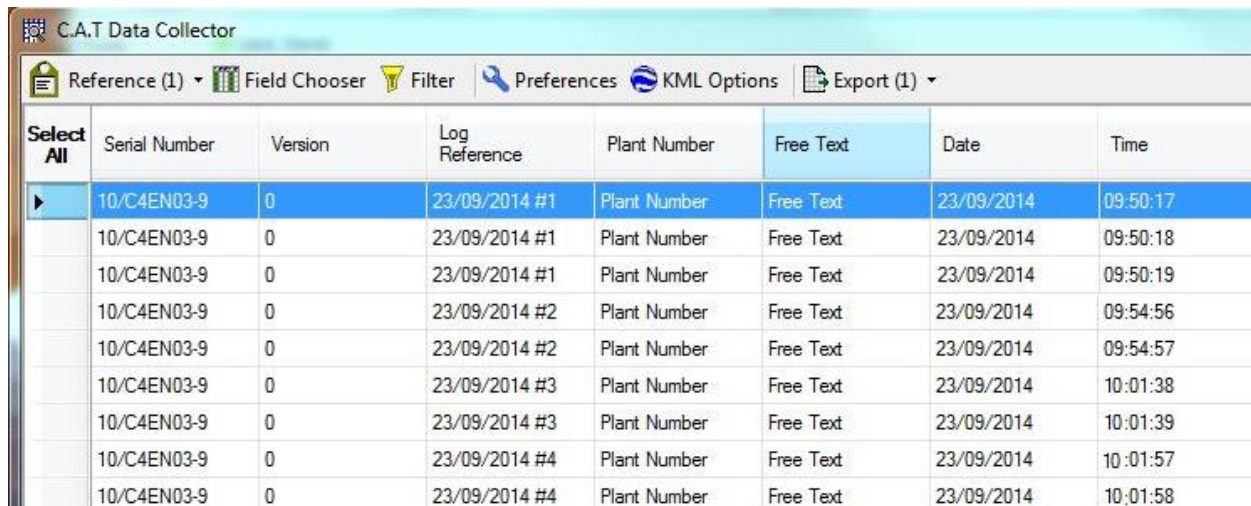
C.A.T Manager Data Collector can be accessed either from the data log tab, by pressing the View icon on a suitable PC log:



Or via the Window start menu:



9.2 Screen



The screenshot shows the 'C.A.T Data Collector' application window. The title bar includes icons for Reference (1), Field Chooser, Filter, Preferences, KML Options, and Export (1). The main area is a table with the following columns: Select All, Serial Number, Version, Log Reference, Plant Number, Free Text, Date, and Time. The first row is highlighted in blue.

Select All	Serial Number	Version	Log Reference	Plant Number	Free Text	Date	Time
<input checked="" type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #1	Plant Number	Free Text	23/09/2014	09:50:17
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #1	Plant Number	Free Text	23/09/2014	09:50:18
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #1	Plant Number	Free Text	23/09/2014	09:50:19
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #2	Plant Number	Free Text	23/09/2014	09:54:56
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #2	Plant Number	Free Text	23/09/2014	09:54:57
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #3	Plant Number	Free Text	23/09/2014	10:01:38
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #3	Plant Number	Free Text	23/09/2014	10:01:39
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #4	Plant Number	Free Text	23/09/2014	10:01:57
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #4	Plant Number	Free Text	23/09/2014	10:01:58

The log reference field can be edited, but will automatically store the date and session ID.

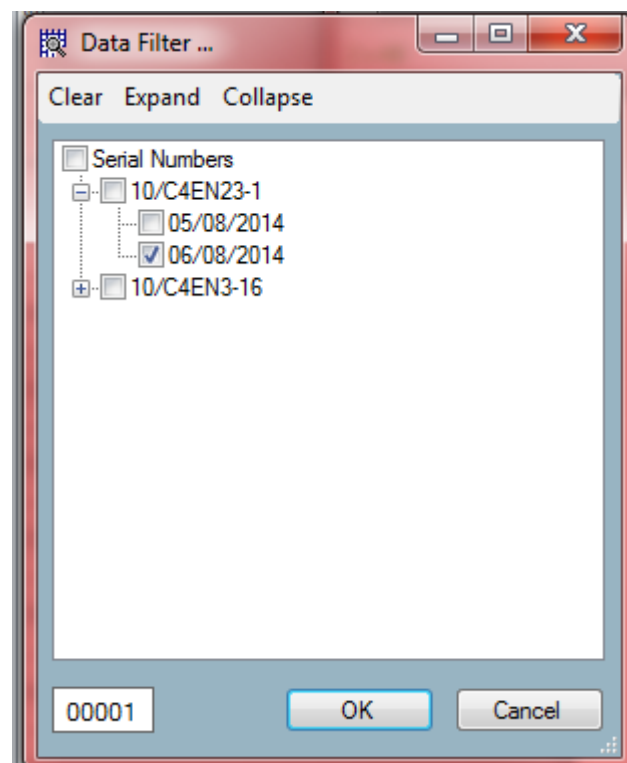
9.3 Commands

The following commands are available for the C.A.T Manager Data Collector.

Filter (Apply & Reset)

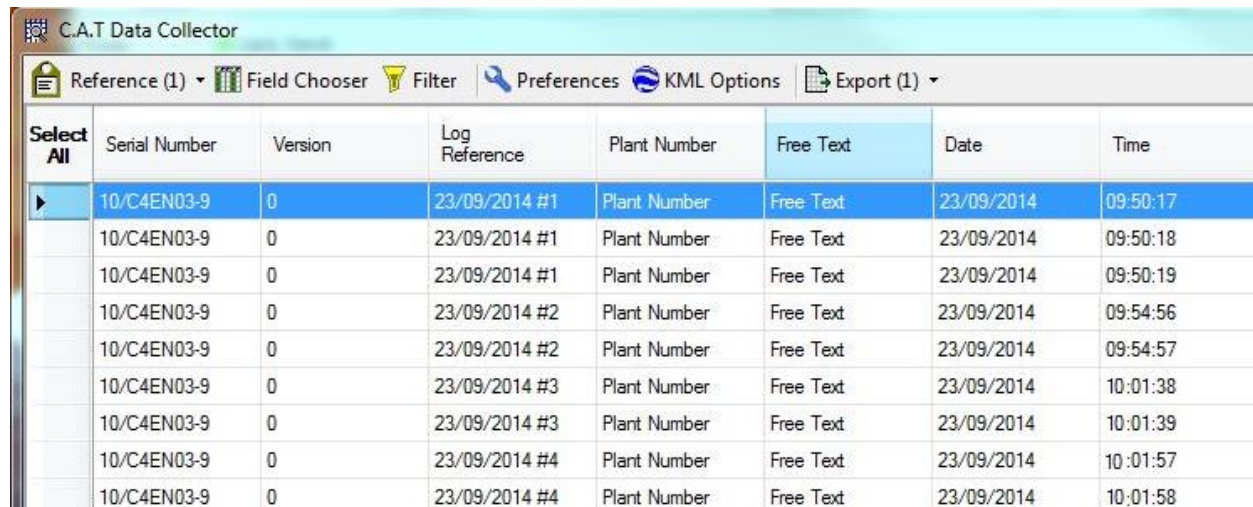
Chooses the displayed data according to the following filter criteria:

- Date Range
- Unit Serial Number



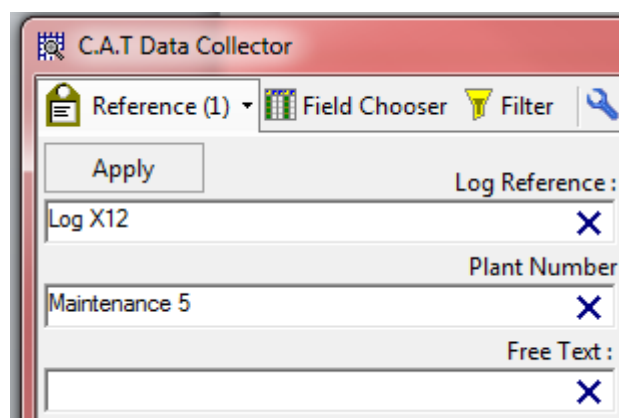
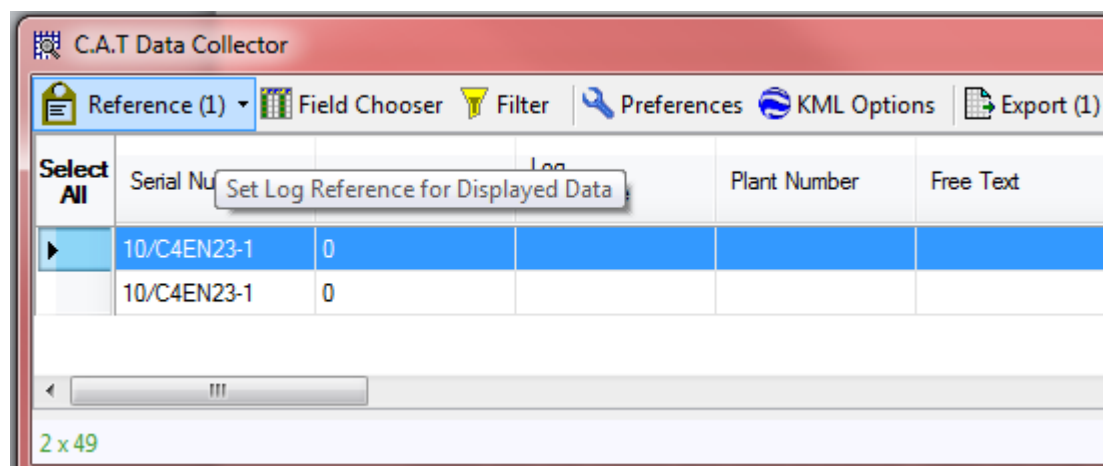
Log Reference

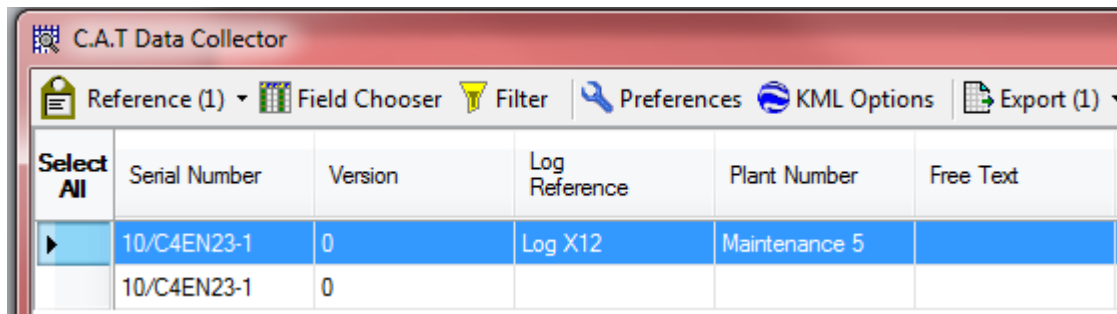
By default, the Log Reference field will contain the date and session ID of the survey. For example, the locator below was first activated at 09:50:17 and becomes 23/09/2014 #1. It was then powered up on the same day at 09:54:56 and this becomes 23/09/2014 #2.



Select All	Serial Number	Version	Log Reference	Plant Number	Free Text	Date	Time
<input checked="" type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #1	Plant Number	Free Text	23/09/2014	09:50:17
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #1	Plant Number	Free Text	23/09/2014	09:50:18
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #1	Plant Number	Free Text	23/09/2014	09:50:19
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #2	Plant Number	Free Text	23/09/2014	09:54:56
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #2	Plant Number	Free Text	23/09/2014	09:54:57
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #3	Plant Number	Free Text	23/09/2014	10:01:38
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #3	Plant Number	Free Text	23/09/2014	10:01:39
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #4	Plant Number	Free Text	23/09/2014	10:01:57
<input type="checkbox"/>	10/C4EN03-9	0	23/09/2014 #4	Plant Number	Free Text	23/09/2014	10:01:58

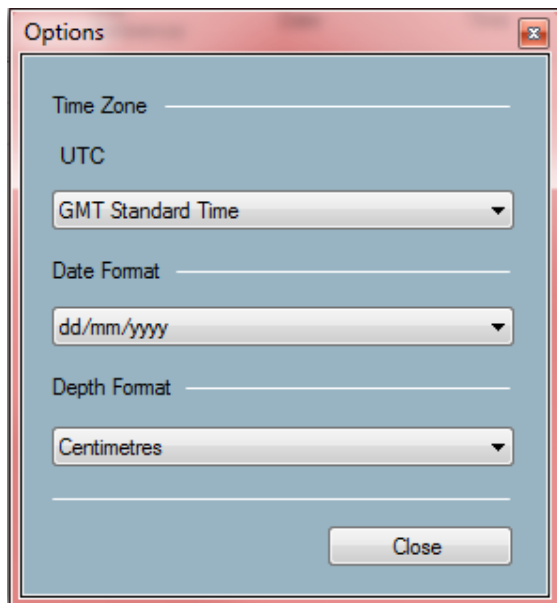
To change the job reference field, for example to highlight a particular survey with a reference ID, select the row(s) with the mouse and click reference. Input the Log reference, Plant Number or enter Free Text and this will now appear in the relevant columns:





Preferences

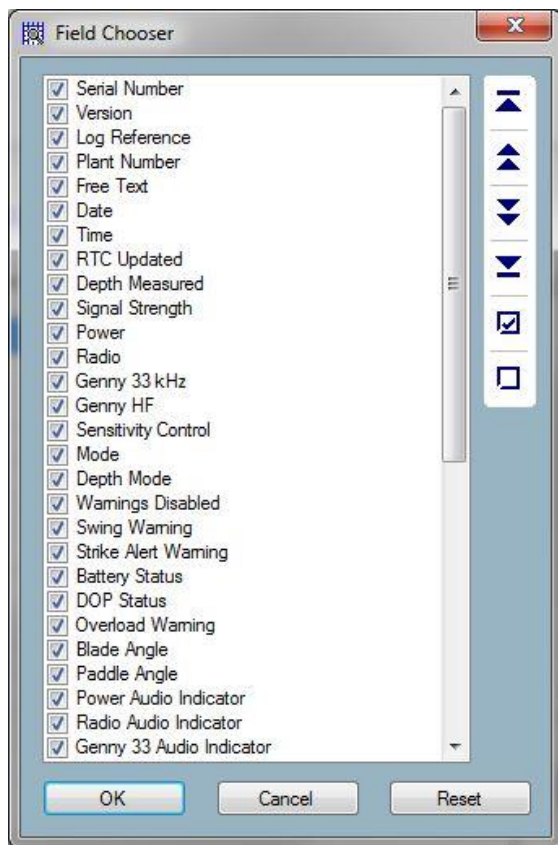
Select the format required for Time Zone, Date format and Depth format.



Field Chooser

Selects which columns of data are displayed and which order they are displayed in.

Note: Once a selection and order is set-up, it is retained, and does not need to be re-created each time that Data Collector is run.



KML Options

KML is a type of file used to map geographic information within 2D and 3D maps, initially developed for use with Google Earth. Only C.A.T4 models with GPS features are with Geomapping functionality.

KML Options provides the ability to select what datalog information is exported to the Map and how it is presented.

Data tab - Untick a box if the user does not need this information to be presented on Google Earth pin points.

Tag tab Change the tag between Plain text and HTML, with HTML colour selections.

Icons tab Change the appearance of the geotag icons.

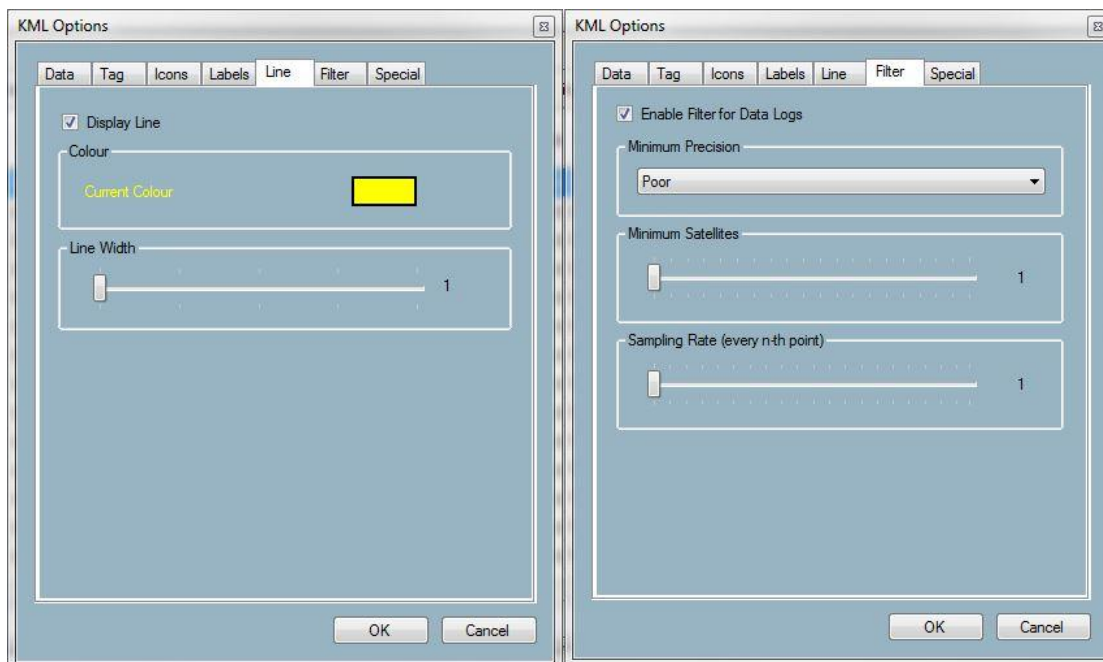
Labels tab Change the appearance of geotag labels.

Line tab Change the appearance of the line following the operators GPS path.

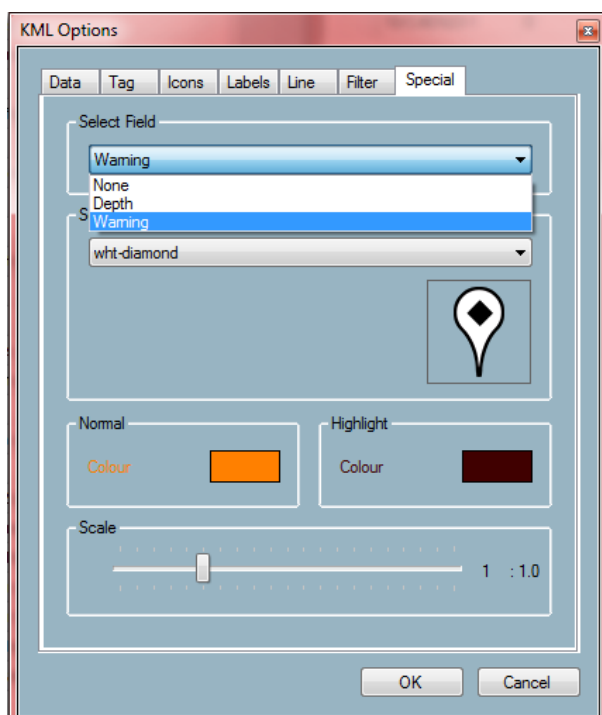
Filter tab Set minimum standards for GPS satellite signal integrity and sampling requirements.

Special tab Highlight specific areas of interest





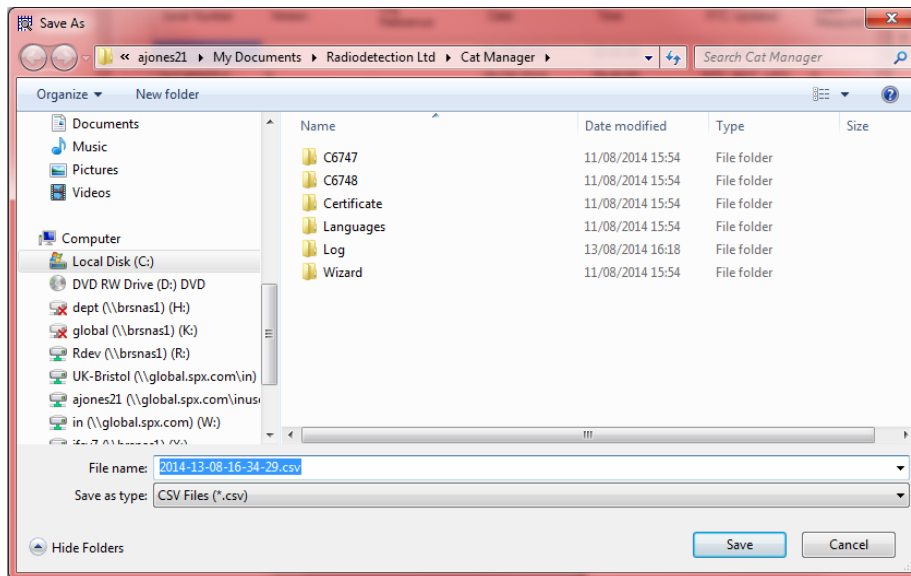
The Special tab allows the user to highlight important events, such as crucial depth and Strike Alert warning locations. Allowing the user to distinguish between general locate information and areas of interest. Select 'None', 'Depth' or 'Warning' to activate the geo tags on maps.



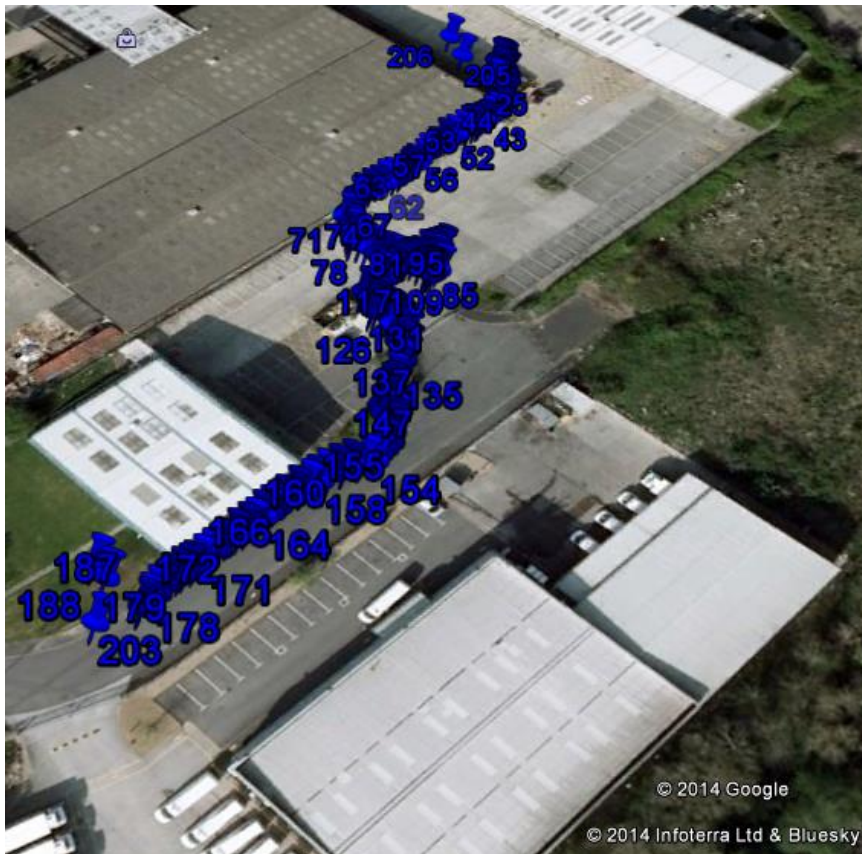
Export ...

Exports the displayed data to a .CSV (comma separated values), .XLS or .XLSX(Microsoft Excel) file, and displays the exported file in the user's spread sheet application (commonly Microsoft Excel).

Press **Save** to save the file in a suitable folder. If GPS data is available, the option to export to KML will be available. If no GPS information is available it will grey out and it will not be possible to export to KML (Google Earth data file).



KML files will open directly into Google Earth, plotting the path of the route taken with pins. When these pins are clicked you will be able to see all the selected readings and measurements from the locator on the map for reviewing. These readings of course can include time, date, mode, operation and display information. It is also possible to remove pins from display



To view KML files it is necessary to install Google Earth. Visit <https://www.google.com/earth/> for download information, system requirements and operator instructions.

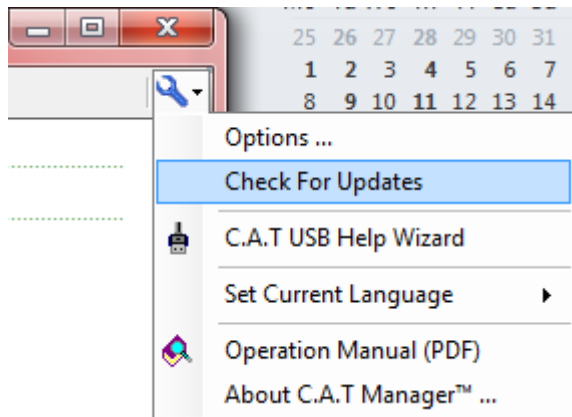
The use of the special tab in KML options (previous page) may assist in removing clutter on the above image, in some scenarios it may be more useful to view strike alert warnings and depth readings only to see potential utilities rather than a usage log of all activity.

10C.A.T Software Manager

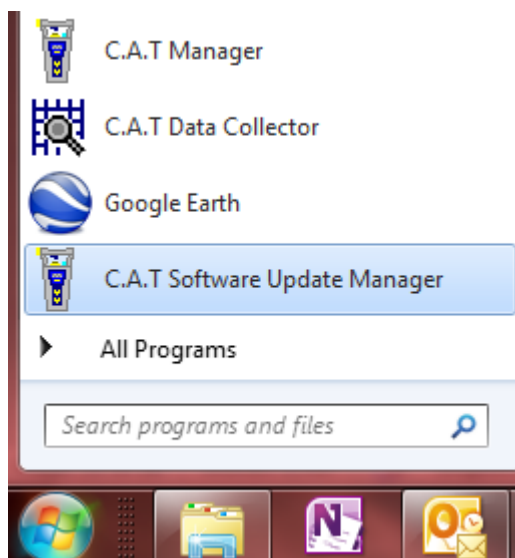
10.1 About Software Manager

The C.A.T Software Manager provides access to the latest PC and Unit Software upgrades.

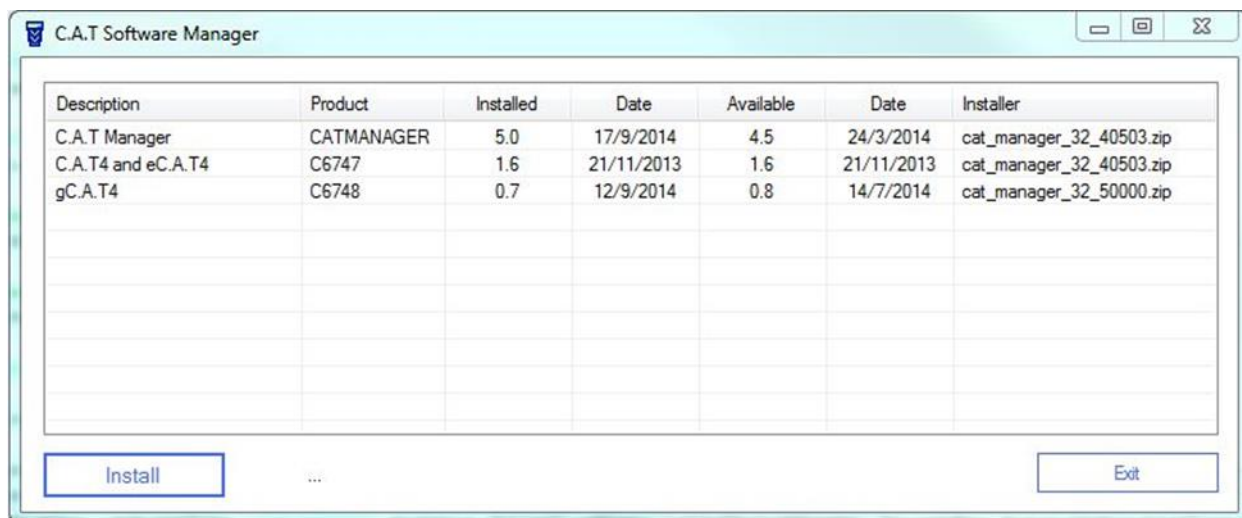
It can be accessed via the settings menu on the top right hand side of the screen:



Or via the Windows Start menu program list:



10.2 Screen



If software updates are available a DOWNLOAD button will appear in the bottom left of the screen.

If no software update is available this box will not be available.

10.3 Commands

The following commands are available for the C.A.T4 Software Manager.

Exit

Closes the C.A.T4 Software Manager window.

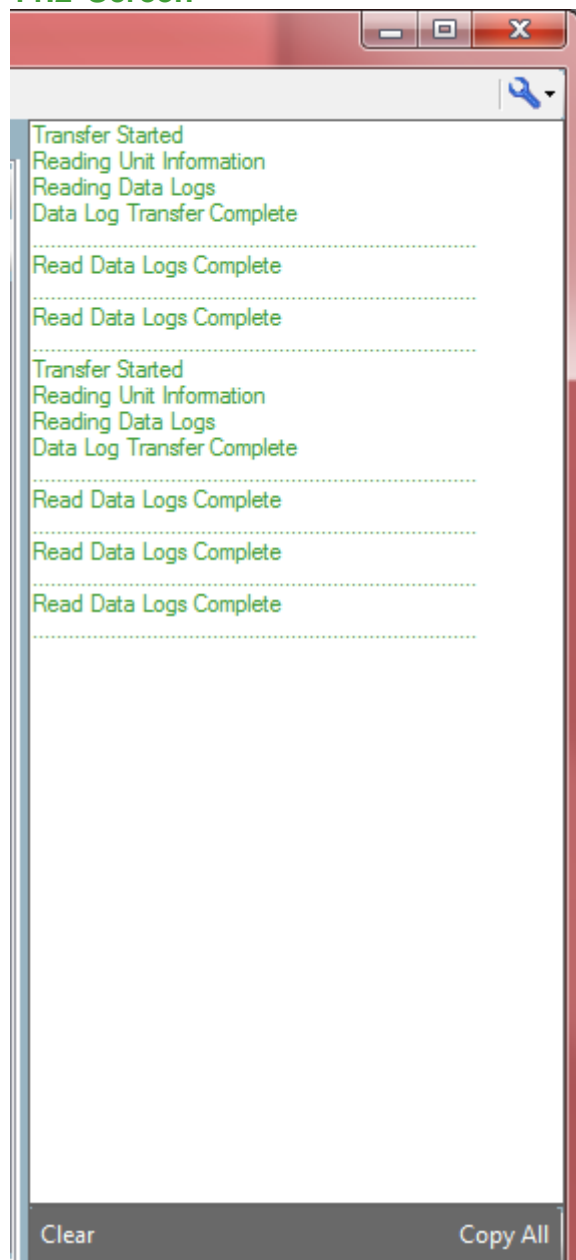
Once downloaded, C.A.T software can be updated to individual C.A.T4's using the C.A.T Manager Configuration Screen

11 Message Pad

11.1 About the Message Pad

This window provides a log of all actions carried out by C.A.T Manager, and can be used to check for correct operation of the software. In addition the window has the functions of a simple text editor.

11.2 Screen



11.3 Commands

Clear

Clears the entire contents of the Message pad window.

Copy All

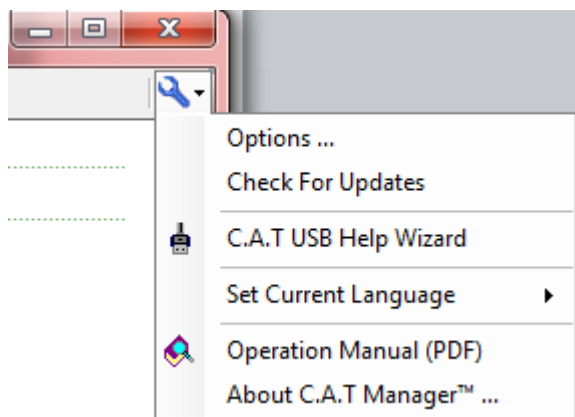
Copies all the system message text to the clipboard for easy pasting into documents or e-mails.

12C.A.T Manager Program Options

12.1 About

The C.A.T Manager program options allow access to various options for the PC installed software. It is accessed via the Settings Spanner icon in the top right hand side of the screen and selecting 'Options'.

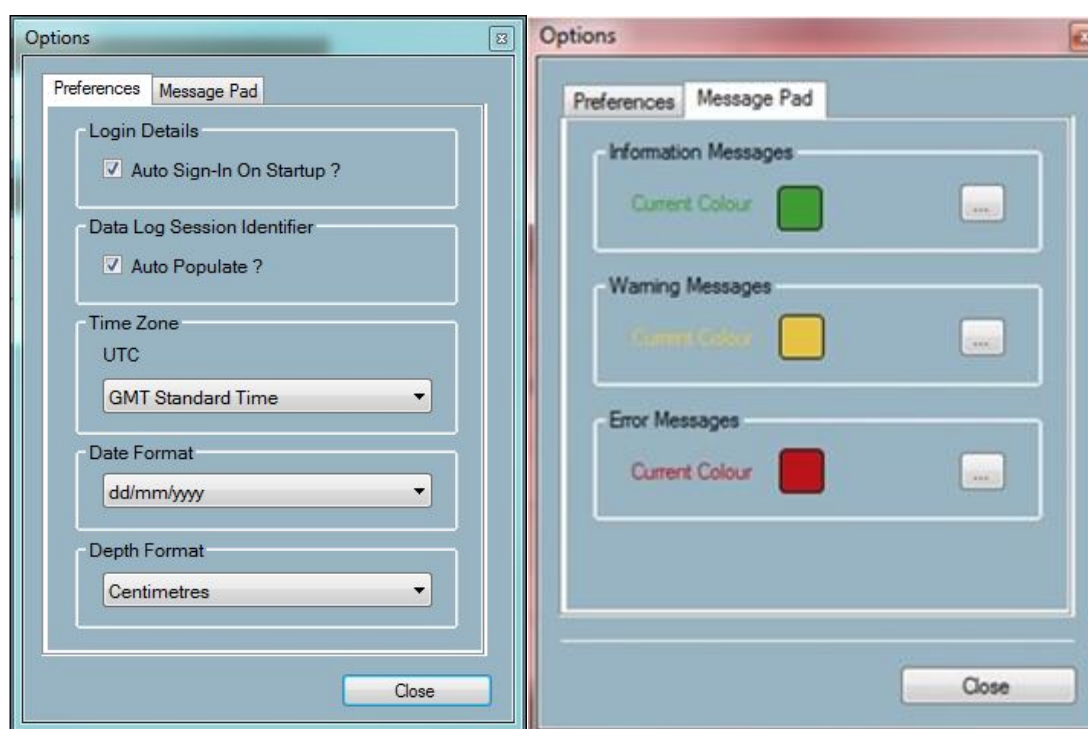
12.2 Screen



12.3 Commands

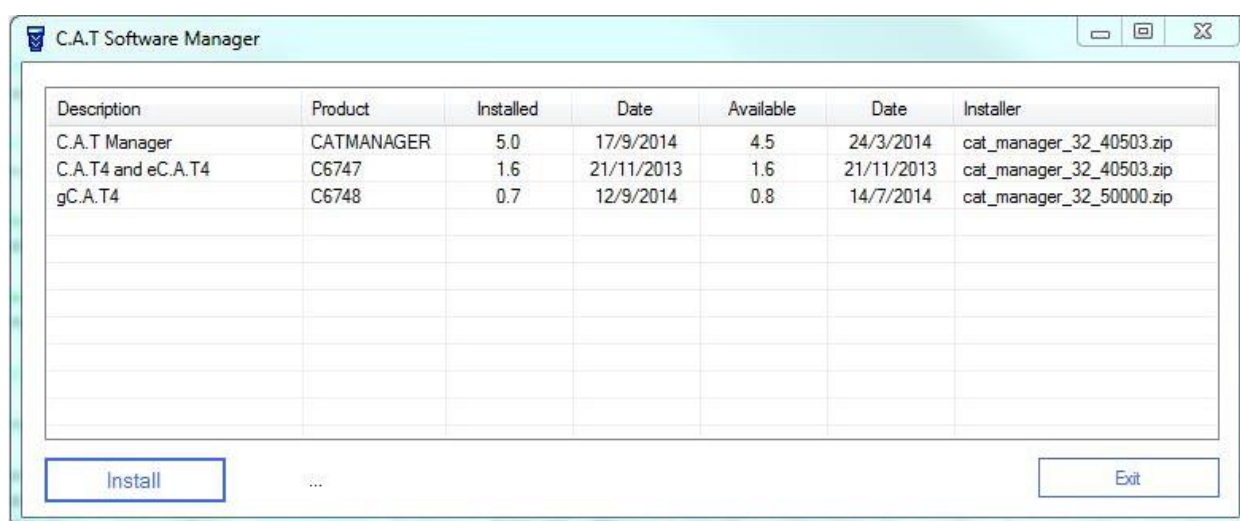
The following commands are available for the C.A.T Help Wizard.

Options

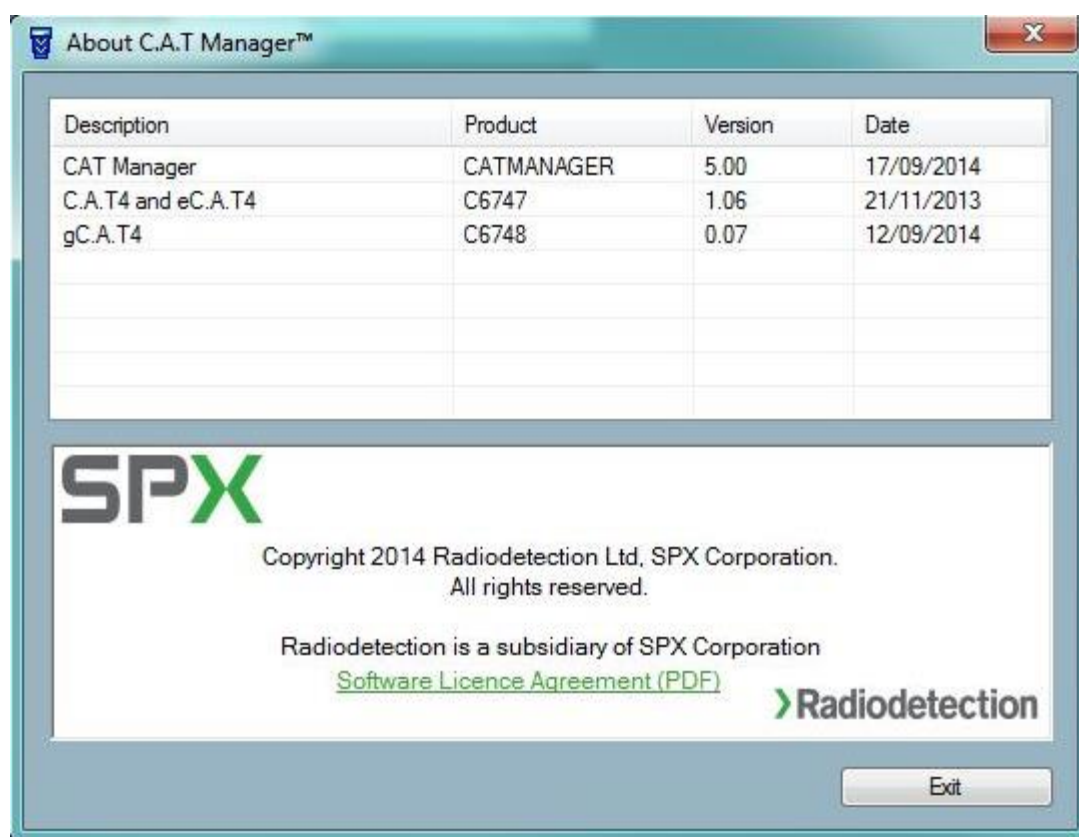


Auto Sign-in On Startup	Automatically logs into this account when the program is opened.
Data Log Session Identifier	Automatically populates the Job Reference field with daily session IDs
Time Zone	Date stored in UTC format but can be displayed in any time zone
Date Format	Select date format for display
Depth Format	Choose display depth format
Information Messages	Change font colour of Information messages in the message window.
Warning Messages	Change font colour of Warning messages in the message window.
Error Messages	Change font colour of Error messages in the message window.

Check for updates – Provides a link to the C.A.T Software Manager



C.A.T USB Help Wizard	An interactive tool for diagnosis of USB connection issues.
Set current language	Select a language more suitable for your location.
Operation Manual	Provides a link to a PDF copy of the Operation Manual for the product.
About C.A.T Manager	Provides information about the installed software and a link to the Software License Agreement.





C.A.T[™] Manager

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THE C.A.T4 CABLE AVOIDANCE
TOOL RANGE

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