

Highways Agency
Temple Quay House
2 The Square
Temple Quay
Bristol
BS1 6HA
UK



Roadside Fault Display User Guide

<http://www.rccstatus.org.uk>

May 2007

Mott MacDonald
1 Atlantic Quay
Broomielaw
Glasgow
G2 8JB
UK
Tel: 44 (0)141 222 4500
Fax: 44 (0)141 221 8083



Roadside Fault Display User Guide

<http://www.rccstatus.org.uk>

Approvals

Signature

Author	Craig Morrison	Date
--------	----------------	------

Signature

Checker	Claire Airth	Date
---------	--------------	------

Signature

Approver	Les Lyman	Date
----------	-----------	------

This document has been prepared for the titled project or named part thereof and should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authority of Mott MacDonald being obtained. Mott MacDonald accepts no responsibility or liability for the consequence of this document being used for a purpose other than the purposes for which it was commissioned. Any person using or relying on the document for such other purpose agrees, and will by such use or reliance be taken to confirm his agreement to indemnify Mott MacDonald for all loss or damage resulting therefrom. Mott MacDonald accepts no responsibility or liability for this document to any party other than the person by whom it was commissioned.

To the extent that this report is based on information supplied by other parties, Mott MacDonald accepts no liability for any loss or damage suffered by the client, whether contractual or tortious, stemming from any conclusions based on data supplied by parties other than Mott MacDonald and used by Mott MacDonald in preparing this report.



Roadside Fault Display User Guide

<http://www.rccstatus.org.uk>

Issue and Revision Record

Revision	Date	Author	Description
F	18-05-2005	Scott Wheeler	Introduced PDA images.
G	29-11-2005	Grant McIntosh	Display fault history for RES, TPR and LCC equipment types
H	03-07-2006	Claire Airth	Added Device Status page and PCO filter for Equipment Types
I	18-08-2006	Scott Wheeler	Document updates for new examples.
J	08-05-2007	Craig Morrison	County Area page, logging system status page and column sorting

List of Contents	Page
Chapters and Appendices	
1	Introduction 1-1
1.1	Overview 1-1
1.2	Document Structure 1-1
1.3	Glossary 1-1
2	How to become a Roadside Fault Display User 2-1
2.1	Contact the Help Desk 2-1
2.2	What information do I have to provide? 2-1
2.3	Are there any approvals required? 2-1
2.4	What software is required? 2-1
3	A Quick Guide to the Roadside Fault Display 3-1
3.1	How do I access the Roadside Fault Display? 3-1
3.2	How do I identify a Control Office and view its logging status? 3-2
3.3	How do I identify an RMC Area 3-3
3.4	How do I review the current status of all transponders of a logging system? 3-5
3.5	What is a significant fault? 3-6
3.6	How do I identify the significant faults of a Control Office or RMC Area? 3-7
3.7	How do I view the current status of a listed equipment item? 3-9
3.8	How do I view the fault history including repeat faults? 3-11
3.9	I have an equipment reference, how can I view the current status? 3-11
3.10	I have a CO fault identifier, how can I view the current status? 3-13
4	Operation of the Roadside Fault Display 4-1
4.1	Accessing the Roadside Fault Display 4-1
4.2	Control Office and Logging Systems 4-2
4.3	Logging System overview 4-5
4.4	RMC Area 4-6
4.5	Identifying outstanding equipment and telephone faults 4-8
4.6	Current significant faults display 4-10
4.7	Equipment status display 4-11
4.8	Fault history search options 4-13
4.9	Fault history display 4-14
5	Contacts 5-1

Figures and Tables

Figure 1 : Roadside Fault Display web address	3-1
Figure 2 : Roadside Fault Display password access.....	3-1
Figure 3 : Available Control Offices	3-2
Figure 4 : Control Office logging system status.....	3-3
Figure 5 : Available RMC Areas.....	3-4
Figure 6 : RMC Area Detail	3-5
Figure 7 : “Status Of” hyperlinks	3-6
Figure 8 : Equipment status for all TPR devices	3-6
Figure 9 : Significant fault filter options	3-7
Figure 10 : Significant time periods	3-7
Figure 11 : Significant equipment type	3-8
Figure 12 : Significant fault type.....	3-8
Figure 13 : Significant road section.....	3-8
Figure 14 : Display Faults button	3-9
Figure 15 : Significant fault list.....	3-9
Figure 16 : Select current status	3-10
Figure 17 : Equipment status	3-11
Figure 18 : Fault log history link.....	3-11
Figure 19 : Equipment reference search	3-12
Figure 20 : Equipment reference search button.....	3-12
Figure 21 : Equipment status link.....	3-13
Figure 22 : Fault ID search.....	3-14
Figure 23 : Fault ID search button.....	3-14
Figure 24 : Equipment status link.....	3-15
Figure 25 : Roadside Fault Display login.....	4-1
Figure 26 : Control Office list	4-3
Figure 27 : CO status page	4-4
Figure 28 : Status hyperlinks	4-5
Figure 29 : Logging System overview display	4-5
Figure 30 : View by RMC Area links	4-6
Figure 31 : RMC Area list.....	4-7
Figure 32 : RMC Area Detail	4-8
Figure 33 : Significant fault options	4-9
Figure 34 : Outstanding faults display.....	4-10
Figure 35 : Equipment status display	4-12
Figure 36 : Fault history search options	4-14
Figure 37 : Fault history display.....	4-15

Summary

This document has been produced for the users of the **Roadside Fault Display** and describes the functionality and operation of the system.

1 Introduction

1.1 Overview

The Halogen Roadside Fault Display is a simple light-weight web site (www.rccstatus.org.uk) that allows an RMC to quickly and easily:

- Identify the most recent equipment and telephone fault logs for a Control Office or RMC Area.
- Determine the current status of an equipment item.
- View the fault log history of the equipment identified in the fault logs.

The information displayed is derived from the fault and status logs stored within Halogen. These logs are obtained from the Control Office logging subsystems.

All displays generated by the Roadside Fault Display are kept basic and minimal to allow engineers working roadside to access the information using laptops and PDAs over very low-bandwidth Internet connections.

It is assumed that the reader is familiar with basic Internet browser concepts and can connect to the Internet.

1.2 Document Structure

Chapter 2 describes how to become a Roadside Fault Display user.

Chapter 3 is a quick start guide to the Roadside Fault Display illustrating by example some of the key features. This will equip users with a basic familiarity required to immediately use the Roadside Fault Display.

Chapter 4 provides a more in-depth description of the usage and functionality of the Roadside Fault Display.

Chapter 5 documents the contact information for the Halogen Help Desk.

1.3 Glossary

CO	Control Office
RMC	Regional Maintenance Contractor

2 How to become a Roadside Fault Display User

2.1 Contact the Help Desk

You must register with the Halogen Help Desk to become a user of the Roadside Fault Display. The Halogen Help Desk contact details are documented in section 5.

2.2 What information do I have to provide?

When contacting the Halogen Help Desk, you will be asked to provide:

- Your name and contact details.
- The reason why you require access to the Roadside Fault Display.

2.3 Are there any approvals required?

The Highways Agency will approve all Roadside Fault Display users.

After your registration has been approved, you will be issued with a user-name and password.

2.4 What software is required?

The Roadside Fault Display is a web site. The only software required is an Internet browser capable of connecting to the World Wide Web.

Microsoft's Internet Explorer 6 is currently the most commonly available of the Internet browsers. The examples in this document are shown using Internet Explorer 6 and Pocket Internet Explorer

Whilst not supported, it is possible to access the Roadside Fault Display using other Internet browsers.

3 A Quick Guide to the Roadside Fault Display

The intention of this section is to provide a quick start guide to the Roadside Fault Display, describing by example how to perform key operations.

A detailed description of the Roadside Fault Display functionality can be found in section 4.

3.1 How do I access the Roadside Fault Display?

- Start your web browser.
- Enter the web address www.rccstatus.org.uk in the Address field of your web browser.

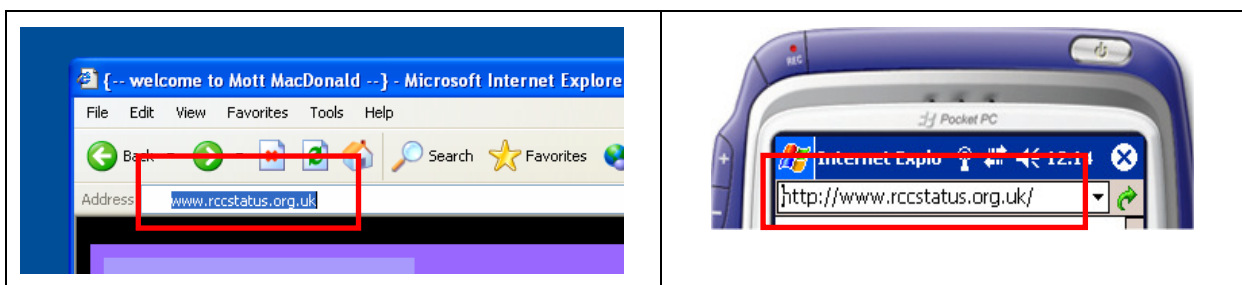


Figure 1 : Roadside Fault Display web address

- After a short delay, you will be prompted for your Roadside Fault Display access credentials.
- Enter your user-name and password as supplied by the Halogen Help Desk. Note that the user-name and password fields are case-sensitive.
- Click the **Login** button.

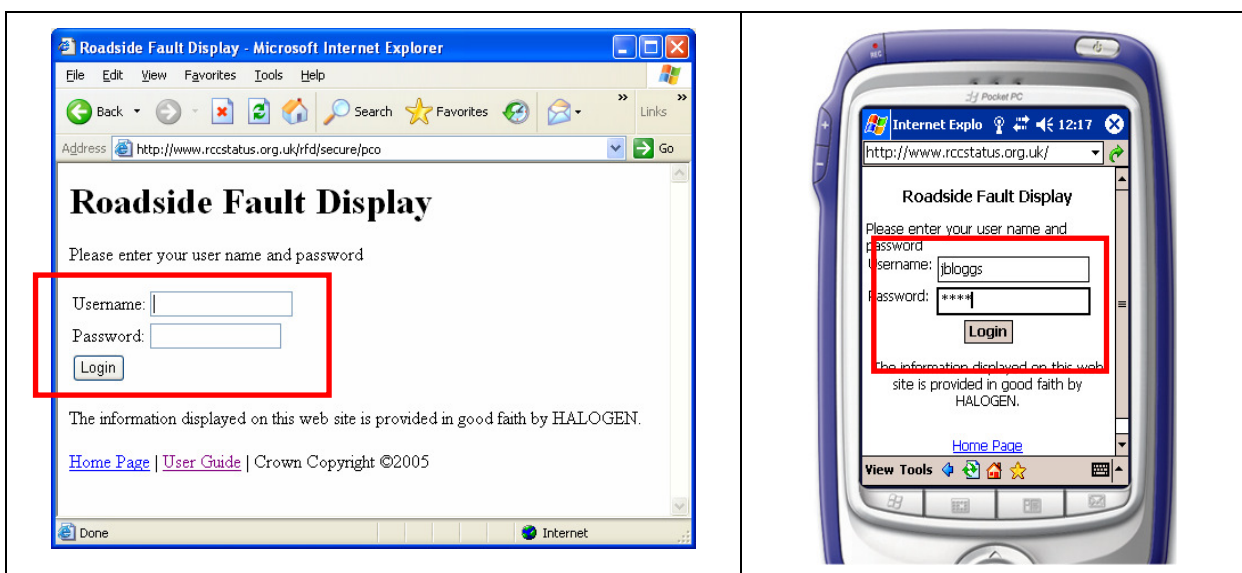


Figure 2 : Roadside Fault Display password access

- The Roadside Fault Display will display the list of available Control Offices (see Figure 3).

3.2 How do I identify a Control Office and view its logging status?

- The Roadside Fault Display will list the available Control Offices after you have successfully logged in. The Control Office names are the shortened form as stored in Halogen.
- The Logging Systems for each Control Office and their status is also displayed on this page.
- To view a Control Office, click on its name, for example **NE RCC** – the North East RCC.

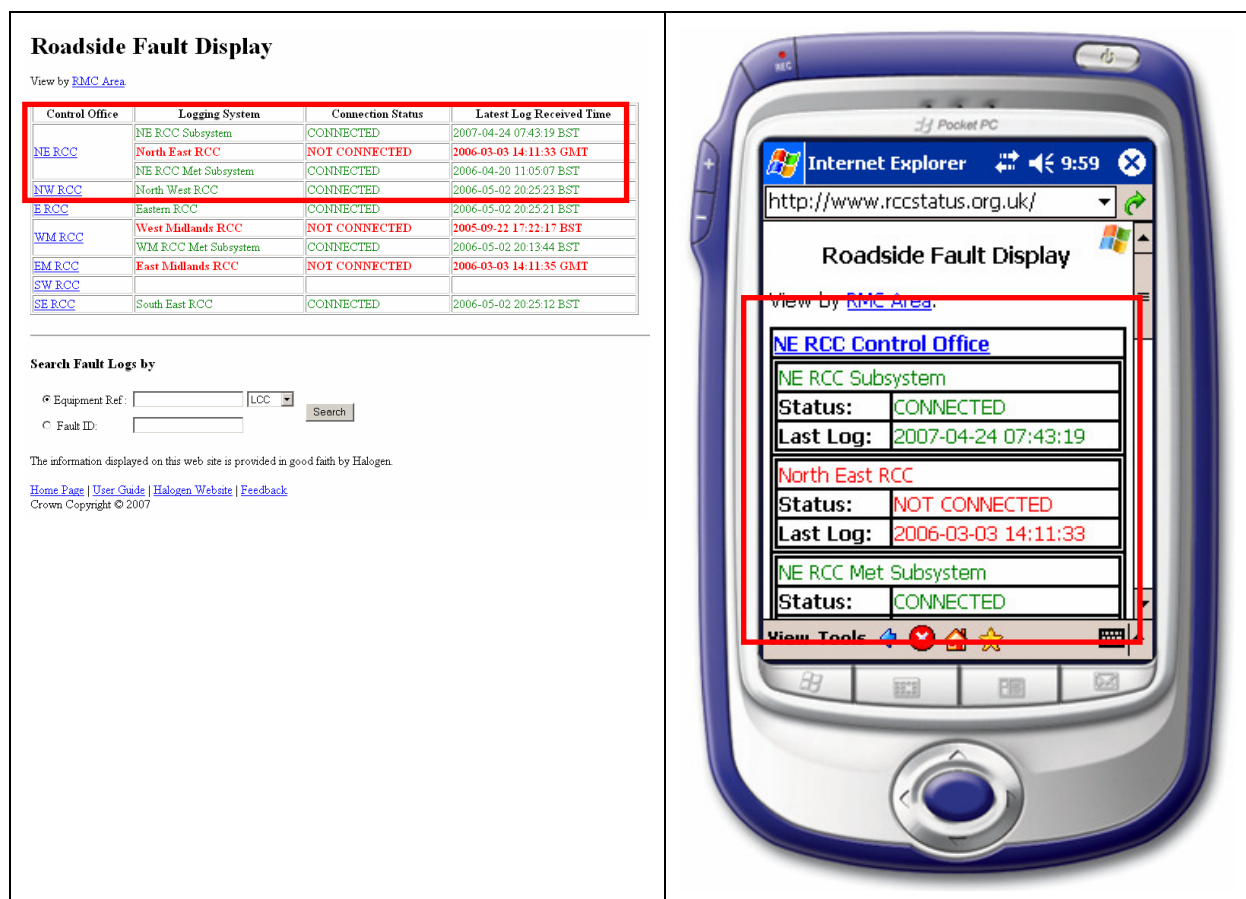


Figure 3 : Available Control Offices

- The Roadside Fault Display will display the status of all the logging systems within the Control Office. In this example, the logging systems of the North East RCC are displayed along with
 - The Halogen connection status of the logging system. “Connected” logging systems will be displayed in green and “Not Connected” logging systems will be displayed in red.
 - The time the last log was received from the logging system.

For a Control Office with multiple logging systems, all logging system connection statuses and times of the last log received will be displayed.

NE RCC Control Office

Logging Systems Status

Logging System Name	Connection Status	Latest Log Received Time	Status Of
NE RCC Subsystem	CONNECTED	2007-04-24 07:43:19 BST	TPR RES LCC SIG MSS TEL
North East RCC	NOT CONNECTED	2006-03-03 14:11:33 GMT	TPR RES LCC SIG MSS TEL
NE RCC Met Subsystem	CONNECTED	2006-04-20 11:05:07 BST	TPR RES LCC SIG MSS TEL

Display Current Significant Faults with :

Duration Over :

Equipment Type:

Fault Type:

Road Section:

to

[Back](#) to previous page.

Search Control Office Fault Logs by

☐ Equipment Ref:

☐ Fault ID:

The information displayed on this web site is provided in good faith by Halogen.

[Home Page](#) | [User Guide](#) | [Halogen Website](#) | [Feedback](#)

Crown Copyright © 2007

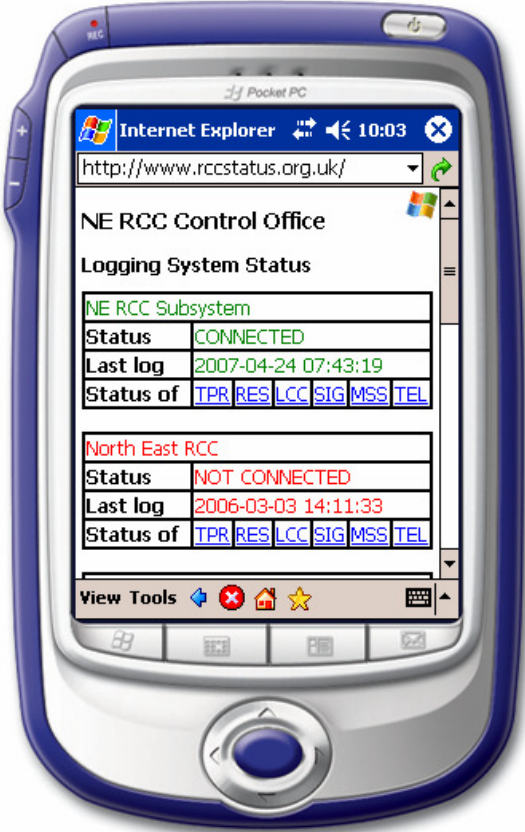


Figure 4 : Control Office logging system status

3.3 How do I identify an RMC Area

- The Roadside Fault Display will list the available Control Offices after you have successfully logged in.
- To view all RMC Areas, click on the [View by RMC Area](#) link.
- The Roadside Fault Display will list the available RMC Areas.
- To view an RMC Area, click on its name, for example [MAC 12 \(N/S Yorks, Hull\)](#).

Roadside Fault Display

View by [RCC](#).

[Avon and Somerset \(CO91\)](#)
[Bedford \(CO65\)](#)
[Cambridge \(CO66\)](#)
[Cumbria \(CO23\)](#)
[Darrington 2 Dishforth](#)
[Dartford River Crossing](#)
[Devon and Cornwall \(CO96\)](#)
[Durham](#)
[East Midlands](#)
[Greater Manchester \(CO21\)](#)
[Heston \(CO82\)](#)
[Humberside \(CO32\)](#)
[Kent \(CO73\)](#)
[Kidlington \(CO 74\)](#)
[Lancashire \(CO24\)](#)
[Leicestershire \(CO55\)](#)
[MAC 12 \(N/S Yorks, Hull\)](#)
[MAC 14 \(Durham\)](#)
[Merseyside \(CO25\)](#)
[Netley \(CO72\)](#)
[North East](#)
[North West](#)



Figure 5 : Available RMC Areas

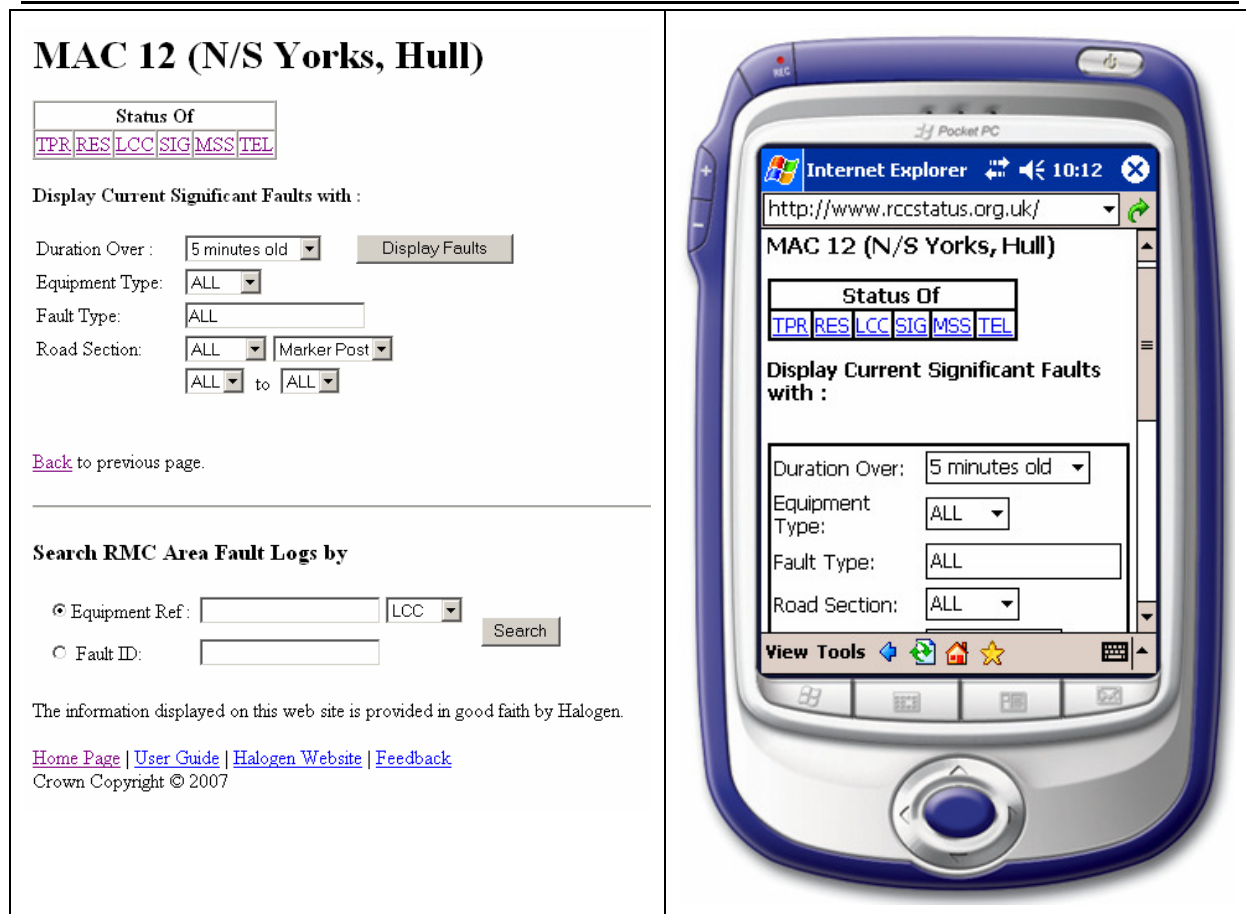


Figure 6 : RMC Area Detail

3.4 How do I review the current status of all transponders of a logging system?

- When viewing the status of a Control Office's logging systems, the Roadside Fault Display will present six hyperlinks for each logging system
 - [TPR](#) - Transponders
 - [RES](#) - Responders
 - [LCC](#) - Local Communication Controllers.
 - [SIG](#) - Signals Settings.
 - [MSS](#) - Message Sign Settings.
 - [TEL](#) - Telephones
- To view the status of all transponders of the identified logging system, click on the [TPR](#) link.

Latest Log Received Time	Status Of					
2005-09-22 17:22:17 BST	TPR	RES	LCC	SIG	MSS	TEL
2006-05-02 20:13:44 BST	TPR	RES	LCC	SIG	MSS	TEL

NE RCC Subsystem	
Status	CONNECTED
Last log	2007-04-24 07:43:19
Status of	TPR RES LCC SIG MSS TEL

Figure 7 : “Status Of” hyperlinks

- The Roadside Fault Display will display a list of all the TPR devices for the selected logging system along with the status of each TPR device. Devices which are “OK” will be displayed in green, devices with an error status will be displayed in red.
- You can sort the list by clicking on the column heading (Internet Explorer) or by selecting the sort criteria and direction from the drop-down lists and clicking **Go** (Pocket Internet Explorer).

NE RCC Subsystem - Transponders		
Equipment	Status	Date
(012/6/110/000) M62/2080B	UNOBTAINABLE	2007-04-25 13:51:28 BST
(050/6/117/000) M40/9663B	UNOBTAINABLE	2007-04-25 09:42:22 BST
(106/6/110/000) M25/4703A	OK	2007-04-24 15:17:03 BST
(012/7/114/000) M1/4676A	OK	2007-04-24 15:12:34 BST
(024/7/112/000) M6/6897B	OK	2007-04-24 15:05:39 BST
(036/7/231/000) M40/8417B	UNOBTAINABLE	2007-04-24 15:04:51 BST
(036/7/227/000) M40/8667A	OK	2007-04-24 15:03:39 BST
(106/6/114/000) M25/4511J	OK	2007-04-24 15:01:29 BST
(050/6/127/000) M42/6149A	OK	2007-04-24 14:55:06 BST
(012/7/325/000) M1/4423B	OK	2007-04-24 14:52:26 BST
(106/6/113/000) M25/4455A	OK	2007-04-24 14:52:25 BST
(106/7/114/000) A2/8285B	OK	2007-04-24 14:51:50 BST
(012/7/115/000) M1/4560K	OK	2007-04-24 14:33:33 BST
(036/7/130/000) M40/8973B	OK	2007-04-24 14:33:29 BST
(012/7/111/000) M1/4617A	OK	2007-04-24 14:26:37 BST
(024/6/116/000) M60/9012A	OK	2007-04-24 14:22:13 BST
(067/4/110/000)	OK	2007-04-24 14:19:32 BST
(106/3/315/000) M2/8497A	OK	2007-04-24 14:19:10 BST
(050/6/014/000) M6/5915B	OK	2007-03-27 10:36:28 BST
(012/7/011/000)	UNOBTAINABLE	2007-03-27 10:19:58 BST
(036/7/226/000) M40/8775B	OK	2007-02-10 22:32:23 GMT
(070/7/210/000)	OK	2007-02-10 22:08:09 GMT
(070/7/211/000)	OK	2007-02-10 22:07:44 GMT



Figure 8 : Equipment status for all TPR devices

3.5 What is a significant fault?

- A significant fault is defined as:

“An equipment or telephone fault log that has lasted more than X minutes without a corresponding CLEAR being received”

3.6 How do I identify the significant faults of a Control Office or RMC Area?

- When viewing the status of a Control Office's logging systems, the Roadside Fault Display will present a number of options allowing the user to filter on that Control Office's significant faults.
- When viewing a selected RMC Area, the Roadside Fault Display will present a number of options allowing the user to filter on that RMC Area's significant faults.

Display Current Significant Faults with : Duration Over : 5 minutes old Display Faults Equipment Type: ALL Fault Type: ALL Road Section: ALL Marker Post ALL to ALL	Display Current Significant Faults with : Duration Over: 5 minutes old Equipment Type: ALL Fault Type: ALL Road Section: ALL Marker Post to Display Faults
--	--

Figure 9 : Significant fault filter options

The filter options for Significant Faults are:

- Specify the minimum length of time a fault should be outstanding before being displayed.

Click the **Duration Over** drop-down list and select a time, for example **30 minutes old**.

Duration Over : 5 minutes old Equipment Type: 5 minutes old Fault Type: 30 minutes old Road Section: 1 hour old	Duration Over: 5 minutes old Equipment Type: 5 minutes old Fault Type: 30 minutes old Road Section: 1 hour old
---	--

Figure 10 : Significant time periods

- Specify the type of equipment that you want to look at.

Click the **Equipment Type** drop-down list and select an equipment type, for example **MSS**. The default selection is **ALL** and will return faults for all equipment items.

Equipment Type: MSS Fault Type: ALL Road Section: MSS Back to previous page	Equipment Type: ALL Fault Type: LCC Road Section: MSS
---	--

Figure 11 : Significant equipment type

- Specify the **Fault Type** text which the fault should contain. The default value is **ALL** and will return all faults irrespective of Fault Type text.

Fault Type: ALL Road Section: ALL Marker Post ALL to ALL	Duration Over: 30 minutes old Equipment Type: MSS Fault Type: ALL Road Section: ALL Marker Post to Display Faults
---	---

Figure 12 : Significant fault type

- Specify the **Road Section** that you want to look at.

Click on the Marker Post / Junction drop down list and select which type. Then use the drop down lists below to select the section of the road of interest.

Road Section: ALL Marker Post ALL to ALL	Road Section: ALL Marker Post to
--	---

Figure 13 : Significant road section

- Click the **Display Faults** button.

Display Current Significant Faults with :

Duration Over : Display Faults

Equipment Type:

Fault Type:

Road Section: to

Display Current Significant Faults with :

Duration Over:

Equipment Type:

Fault Type:

Road Section: to

Display Faults

Figure 14 : Display Faults button

- The Roadside Fault Display will display a list of the most recent significant faults for the selected logging system (see Figure 15).

In our example, the Roadside Fault Display will list the most recent **MSS faults** of the **North East RCC** that have been **outstanding for 30 minutes or more**.

Current Significant Faults for NE RCC Control Office

Logging Systems Status

Logging System Name	Connection Status	Latest Log Received Time	Status Of
NE RCC Subsystem	CONNECTED	2007-04-24 07:43:19 BST	TPR RES LCC SIG MSS TEL
North East RCC	NOT CONNECTED	2006-03-03 14:11:33 GMT	TPR RES LCC SIG MSS TEL
NE RCC Met Subsystem	CONNECTED	2006-04-20 11:05:07 BST	TPR RES LCC SIG MSS TEL

Latest Faults

Logging System	Date Generated	Equipment	Fault Id	Fault Type	Fault Status	Fault Text
NE RCC Subsystem	2007-04-25 13:51:28	M62/2370B MSS	21267	UNOBTAINABLE	HARD	
NE RCC Subsystem	2007-04-25 09:42:20	M6/5913A MSS	30759	TEST RESULT - POWER SUPPLY FAIL	HARD	
NE RCC Subsystem	2007-04-25 09:42:20	M6/5913A MSS	30251	STATUS REPLY - CRC INCORRECT	HARD	""QUEUE"" CAUTION""
NE RCC Subsystem	2007-04-25 09:42:20	M5/7005B MSS	30250	STATUS REPLY - CRC INCORRECT	HARD	""QUEUE"" CAUTION""
NE RCC Subsystem	2007-04-24 15:18:46	M1/3589B MSS	4837	TEST RESULT - LUMINANCE FAULT	HARD	
NE RCC Subsystem	2007-04-24 15:16:16	M42/6516B M42/6515B MSS	23651	TEST RESULT - FIBRE OPTIC MATRIX FAIL	HARD	
NE RCC Subsystem	2007-04-24 15:14:25	M27/9340B MSS	27006	STATUS REPLY - LAMP OR LED FAIL	HARD	
NE RCC Subsystem	2007-04-24 15:12:47	M42/6516B M42/6515B MSS	23639	STATUS REPLY - LAMP OR LED FAIL	HARD	
NE RCC Subsystem	2007-04-24 15:09:58	M6/5893B MSS	23618	TEST RESULT - LUMINANCE FAULT	HARD	
NE RCC Subsystem	2007-04-24 15:08:52	M56/5102B MSS	26137	TEST RESULT - HEATER CIRCUIT FAIL	HARD	

Figure 15 : Significant fault list

3.7 How do I view the current status of a listed equipment item?

- When viewing the list of current significant faults for a logging system, click on the equipment reference number. For example **M6/5913A**



- ### Note

3-10

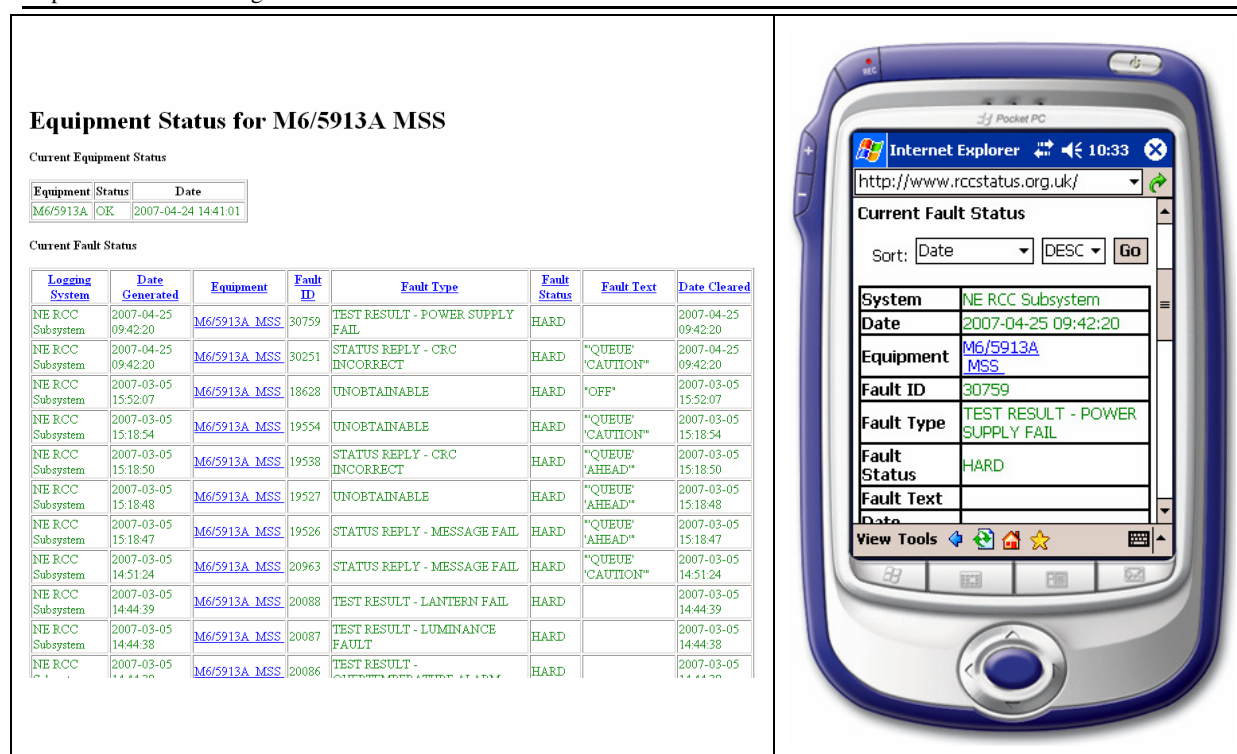


Figure 17 : Equipment status

3.8 How do I view the fault history including repeat faults?

- When viewing the current status of an equipment item it is possible to view up to the last 30 fault logs, including repeat faults by clicking the [View fault log history](#) link at the bottom of the page.

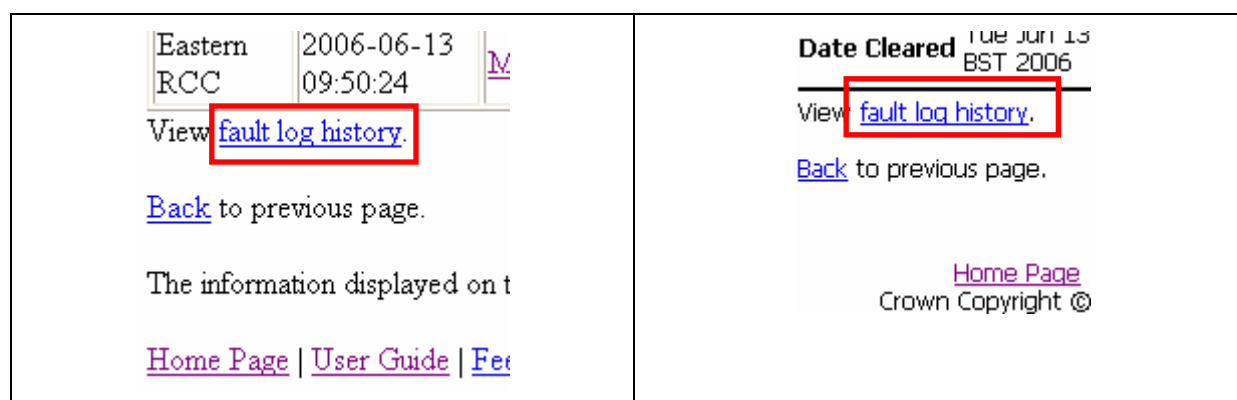


Figure 18 : Fault log history link

3.9 I have an equipment reference, how can I view the current status?

- Navigate to the Control Office, for example [E RCC](#) which contains the equipment or return to the [Home Page](#).

The search options are located at the bottom of the page.

Search Control Office Fault Logs by

☒ Equipment Ref: LCC

☐ Fault ID:

Search Control Office Fault Logs by

☒ Ref: LCC

☐ Fault ID:

Figure 19 : Equipment reference search

- Ensure the **Equipment Ref** option is selected by clicking the radio button.
- Enter the equipment reference, for example **M6/5988B**. It is possible to enter a partial equipment reference, for example **M6/%**
- Specify the equipment type by selecting the appropriate type from the drop-down list, for example **MSS**.
- Click the **Search** button.

Search Control Office Fault Logs by

☒ Equipment Ref: M6/5988B MSS

☐ Fault ID:

Search Control Office Fault Logs by

☒ Ref: M6/5988B MSS

☐ Fault ID:

Figure 20 : Equipment reference search button

- The Roadside Fault Display will display up to the last 30 faults with an equipment reference matching the entered partial reference.

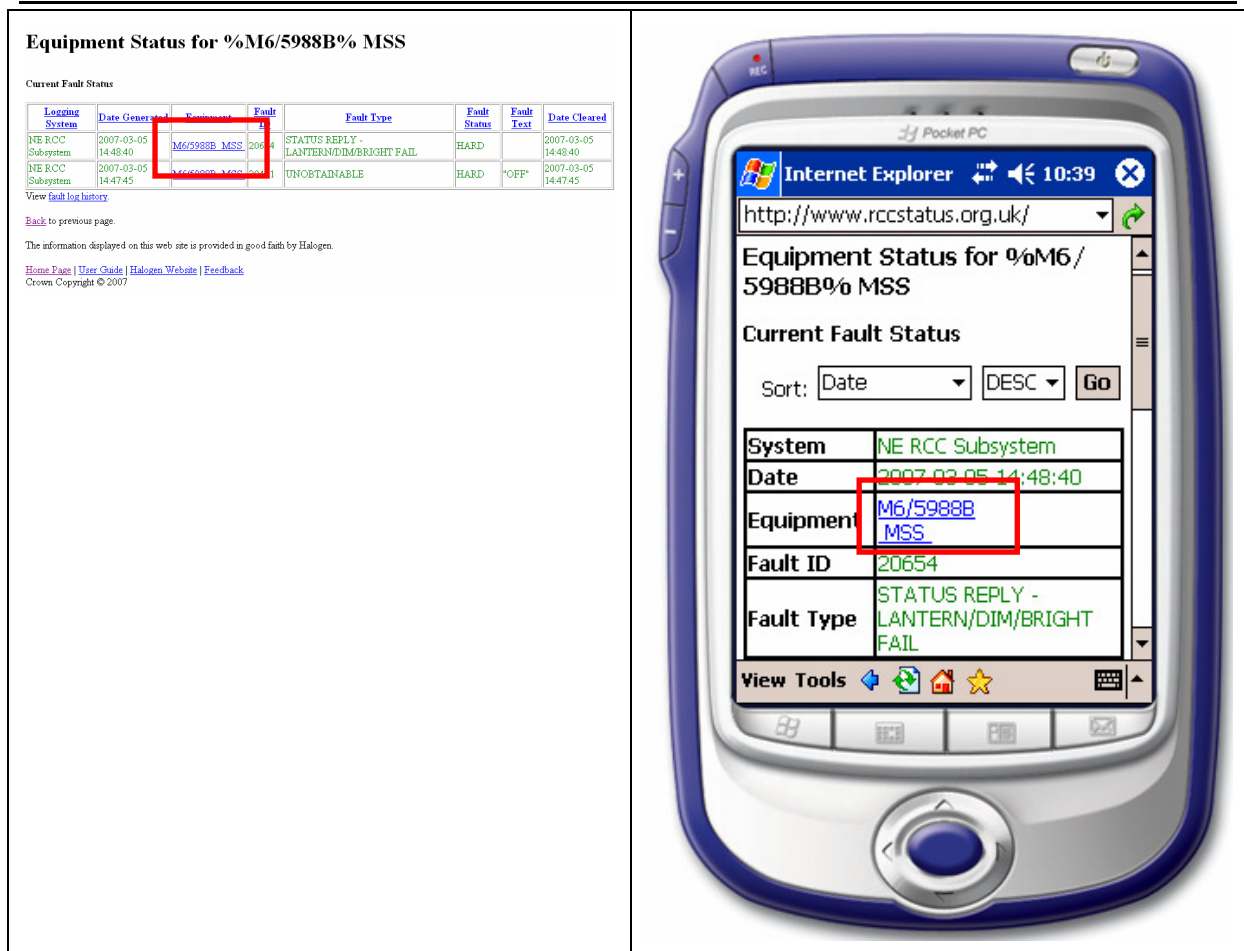


Figure 21 : Equipment status link

- Click on the equipment reference of one of the listed faults to view the current status of the equipment, for example [M5/5988B MSS](#).

3.10 I have a CO fault identifier, how can I view the current status?

- Navigate to the Control Office, for example [NE RCC](#) which logged the fault or return to the [Home Page](#).

The search options are located at the bottom of the page.

Search Fault Logs by ☐ Equipment Ref: Search ☒ Fault ID:	Search Fault Logs by ☐ Ref: LCC Search ☒ Fault ID:
---	---

Figure 22 : Fault ID search

- Ensure the **Fault Id** option is selected by clicking the radio button.
- Enter the fault identifier, for example **21267**.
- Click the **Search** button.

Search Control Office Fault Logs by ☐ Equipment Ref: Search ☒ Fault ID: 21267	Search Control Office Fault Logs by ☐ Ref: LCC Search ☒ Fault ID: 21267
--	--

Figure 23 : Fault ID search button

- The Roadside Fault Display will display up to the last 30 faults which have been assigned this Control Office fault identifier.

Equipment Status for Fault 21267

Current Fault Status

Logging System	Date Generate	Equipment	Fault ID	Fault Type	Fault Status	Fault Text	Date Cleared
NE RCC Subsystem	2007-04-25 13:51:28	M62/2370B	21267	UNOBTAINABLE	HARD		2007-04-25 13:51:28
NE RCC Subsystem	2007-04-25 13:51:28	M62/1785A	21267	UNOBTAINABLE	HARD		2007-04-25 13:51:28
NE RCC Subsystem	2007-04-25 13:51:26	M62/2054A	21267	UNOBTAINABLE	HARD		2007-04-25 13:51:26
NE RCC Subsystem	2007-02-09 05:57:15	M20/6965B	21267	FAULT LINE 1	HARD		2007-02-09 08:00:33

View [fault log history](#).

[Back](#) to previous page.

The information displayed on this web site is provided in good faith by Halogen.

[Home Page](#) | [User Guide](#) | [Halogen Website](#) | [Feedback](#)

Crown Copyright © 2007



Figure 24 : Equipment status link

- Click on the equipment reference of one of the listed faults to view the current status of the equipment, for example [M62/2370B MSS](#).

4 Operation of the Roadside Fault Display

4.1 Accessing the Roadside Fault Display

The Roadside Fault Display is an Internet web site that can be accessed using a standard Internet browser and the web address www.rccstatus.org.uk.

On your first visit, the Roadside Fault Display will prompt for a user-name and password. It will only allow users with an authorised user-name and password to gain access. Both the user-name and password are case-sensitive.

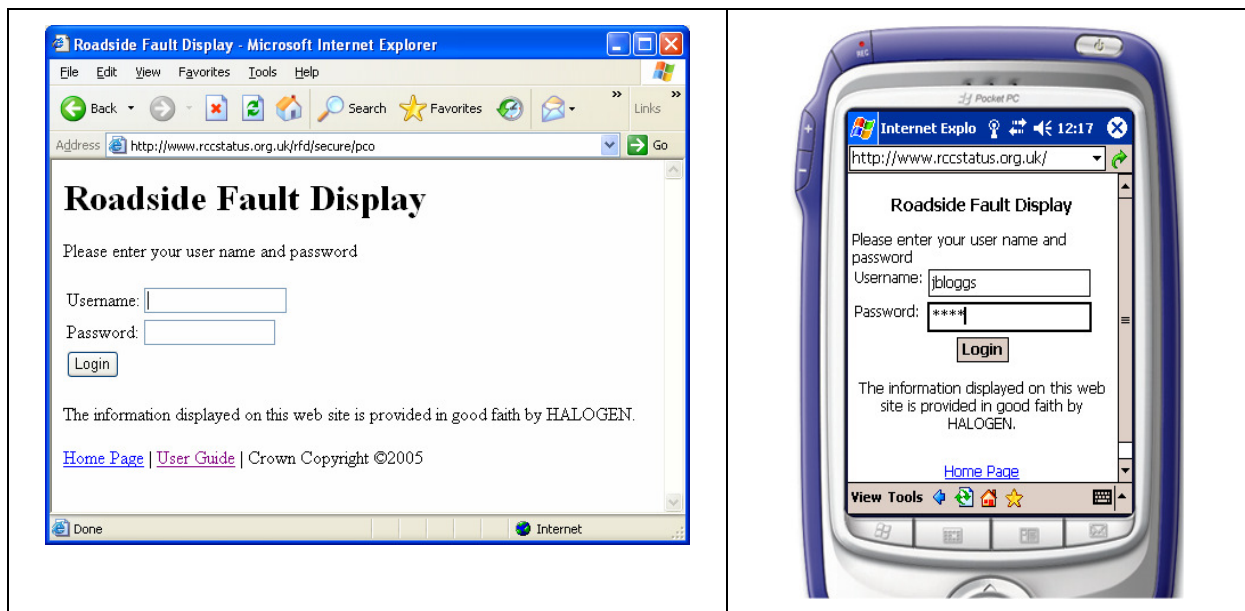


Figure 25 : Roadside Fault Display login

On subsequent visits, for a period of approximately 1 month, it will not be necessary to re-enter your user-name and password. Your browser will automatically submit your access credentials to the Roadside Fault Display.

The Roadside Fault Display will prompt you after 1 month and will be necessary to re-enter your user-name and password.

Tip

Your username and password will be initially supplied by the Halogen Helpdesk.

You can change your password by visiting the Halogen User Administration web site at <https://useradmin.halogenonline.co.uk>. This is a central point for managing your Halogen account used to login to all Halogen tools.

This automatic submission of login details will not occur if you:

- Use a different machine; or
- Disable the cookie and/or JavaScript functionality of your web browser; or
- Delete the stored cookies of your web browser between visits.

A cookie is a small piece of information stored by a web site on your machine. Some users disable cookies from within their browser for privacy reasons.

If they have been disabled on your machine, then you will still be able to use the Roadside Fault Display however you will be prompted for your user-name and password on each visit.

Please consult your browser documentation and IT support for more information.

4.2 Control Office and Logging Systems

After successfully validating your credentials, the Roadside Fault Display will display a list of Control Offices, along with the details of their logging systems. The Control Office names are the shortened form as stored in Halogen.

This page is classified as the [Home Page](#).

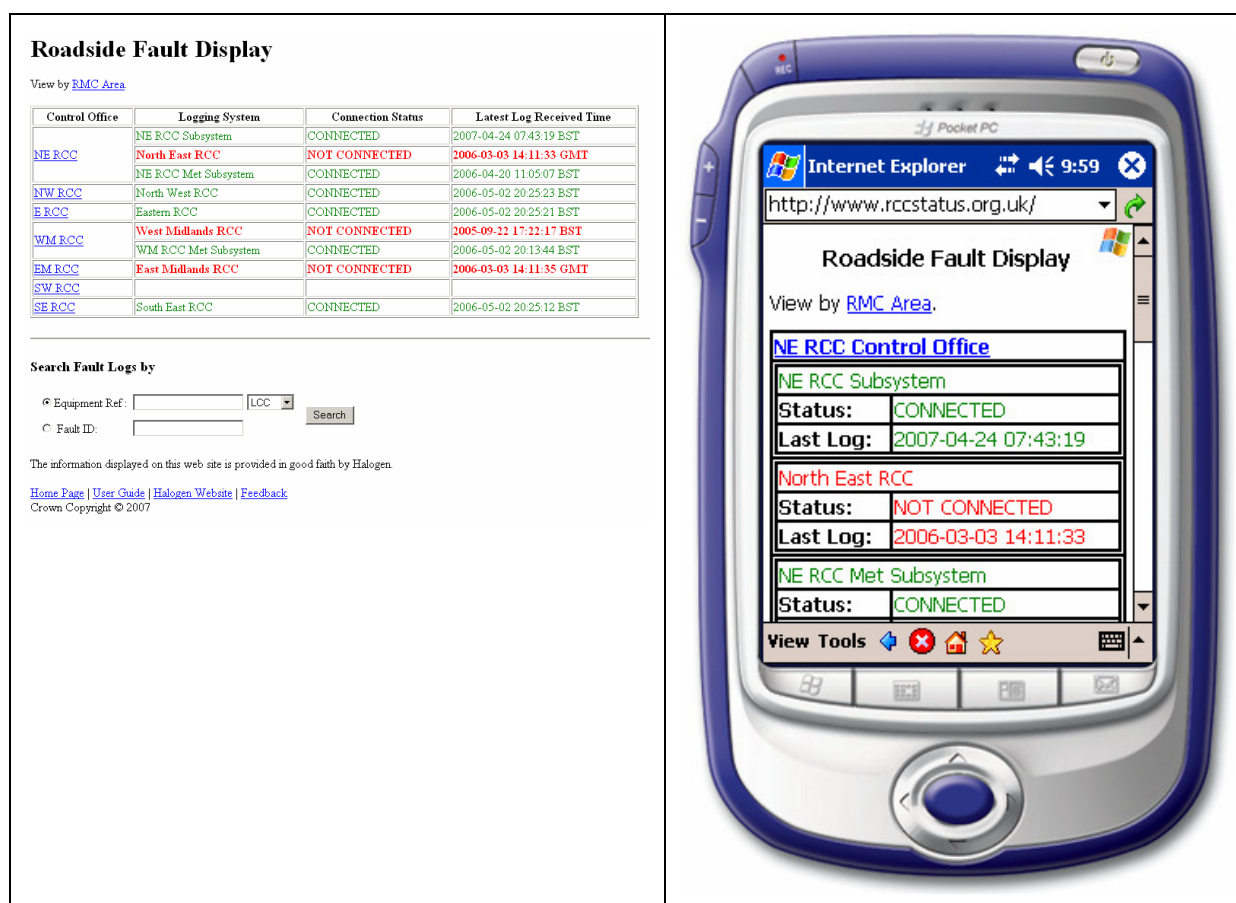


Figure 26 : Control Office list

Tip

A **Home Page** link is available at the bottom of every page. Clicking this link will return to the list of Control Office names.

Click a Control Office name to display the Control Office status page (Figure 27). This presents the status of the Control Office's logging systems and provides options to access the status of equipment and significant fault logs.

NE RCC Control Office

Logging Systems Status

Logging System Name	Connection Status	Latest Log Received Time	Status Of
NE RCC Subsystem	CONNECTED	2007-04-24 07:43:19 BST	TPR RES LCC SIG MSS TEL
North East RCC	NOT CONNECTED	2006-03-03 14:11:33 GMT	TPR RES LCC SIG MSS TEL
NE RCC Met Subsystem	CONNECTED	2006-04-20 11:05:07 BST	TPR RES LCC SIG MSS TEL

Display Current Significant Faults with :

Duration Over :

Equipment Type:

Fault Type:

Road Section:

to

[Back](#) to previous page.

Search Control Office Fault Logs by

☐ Equipment Ref:

☐ Fault ID:

The information displayed on this web site is provided in good faith by Halogen.

[Home Page](#) | [User Guide](#) | [Halogen Website](#) | [Feedback](#)

Crown Copyright © 2007

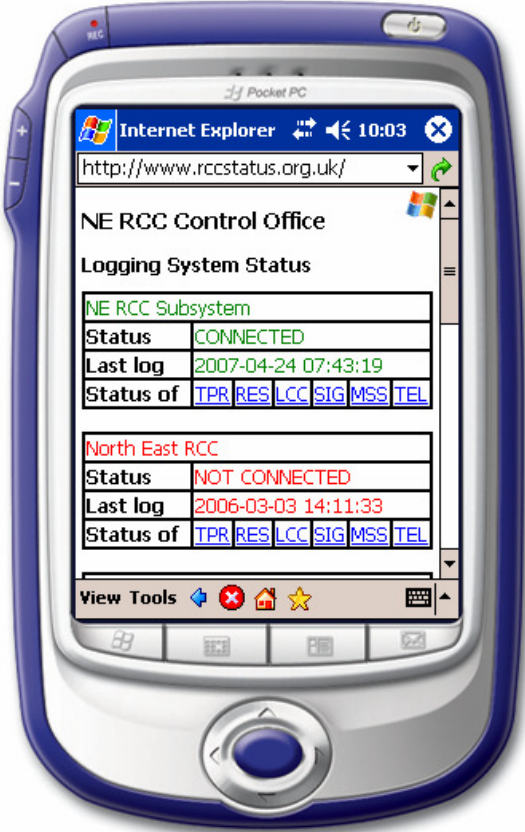


Figure 27 : CO status page

The following information is available for each logging system of the Control Office:

- **Logging System Name**

The logging system name, for example NE RCC Subsystem, North East RCC, and NE RCC Met Subsystem.

- **Connection Status**

The Halogen connection status of the logging system. This will be CONNECTED or NOT CONNECTED.

- **Latest Log Received Time**

The date and time of when the last log was received from the logging system.

Tip

Bookmark the Control Office status pages that you visit often. This provides a quick way to navigate about the site.

4.3 Logging System overview

The Control Office status page provides hyperlinks to view the summary status of all the transponders (**TPR**), responders (**RES**), local communication controllers (**LCC**), signals (**SIG**), message sign settings (**MSS**) or telephones (**TEL**) of each of the logging systems within a Control Office.

Latest Log Received Time	Status Of					
2005-09-22 17:22:17 BST	TPR	RES	LCC	SIG	MSS	TEL
2006-05-02 20:13:44 BST	TPR	RES	LCC	SIG	MSS	TEL

NE RCC Subsystem	
Status	CONNECTED
Last log	2007-04-24 07:43:19
Status of	TPR RES LCC SIG MSS TEL

Figure 28 : Status hyperlinks

Select a **Status Of** hyperlink (**TPR**, **RES**, **LCC**, **SIG**, **MSS** or **TEL**) to display the latest status of all transponders, responders, local communication controller, signals, message sign settings or telephones of the Control Office logging system. This information is derived from the latest status (STAT) logs received by Halogen.

NE RCC Subsystem - Transponders		
Equipment	Status	Date
(012/6/110/000) M62/2080B	UNOBTAINABLE	2007-04-25 13:51:28 BST
(050/6/117/000) M40/9663B	UNOBTAINABLE	2007-04-25 09:42:22 BST
(106/6/110/000) M25/4703A	OK	2007-04-24 15:17:03 BST
(012/7/114/000) M1/4676A	OK	2007-04-24 15:12:34 BST
(024/7/112/000) M6/6897B	OK	2007-04-24 15:05:39 BST
(036/7/231/000) M40/8417B	UNOBTAINABLE	2007-04-24 15:04:51 BST
(036/7/227/000) M40/8667A	OK	2007-04-24 15:03:39 BST
(106/6/114/000) M25/4511J	OK	2007-04-24 15:01:29 BST
(050/6/127/000) M42/6149A	OK	2007-04-24 14:55:06 BST
(012/7/325/000) M1/4423B	OK	2007-04-24 14:52:26 BST
(106/6/113/000) M25/4455A	OK	2007-04-24 14:52:25 BST
(106/7/114/000) A2/8285B	OK	2007-04-24 14:51:50 BST
(012/7/115/000) M1/4560K	OK	2007-04-24 14:33:33 BST
(036/7/130/000) M40/8973B	OK	2007-04-24 14:33:29 BST
(012/7/111/000) M1/4617A	OK	2007-04-24 14:26:37 BST
(024/6/116/000) M60/9012A	OK	2007-04-24 14:22:13 BST
(067/4/110/000)	OK	2007-04-24 14:19:32 BST
(106/3/315/000) M2/8497A	OK	2007-04-24 14:19:10 BST
(050/6/014/000) M6/5915B	OK	2007-03-27 10:36:28 BST
(012/7/011/000)	UNOBTAINABLE	2007-03-27 10:19:58 BST
(036/7/226/000) M40/8775B	OK	2007-02-10 22:32:23 GMT
(070/7/210/000)	OK	2007-02-10 22:08:09 GMT
(070/7/211/000)	OK	2007-02-10 22:07:44 GMT



Figure 29 : Logging System overview display

For each equipment item listed, the following information is available

- **Equipment**

The reference of the equipment for which the status log was received

- **Status**

The latest status of the equipment as specified by the status log.

- **Date**

The date and time the status log was generated.

Click the equipment reference hyperlink to display the current fault status of the equipment item. See section 4.7.

4.4 RMC Area

You can view the Roadside Fault Display by RMC Area. Clicking the **View by RMC Area** link on the homepage, will display a list of RMC Areas in alphabetical order. You can return to the Control Office view by clicking the **View by RCC** link.

Roadside Fault Display View by RMC Area .	Roadside Fault Display View by RMC Area .
---	---

Figure 30 : View by RMC Area links

Roadside Fault Display

View by [RCC](#).

[Avon and Somerset \(CO91\)](#)
[Bedford \(CO65\)](#)
[Cambridge \(CO66\)](#)
[Cumbria \(CO23\)](#)
[Darrington 2 Dishforth](#)
[Dartford River Crossing](#)
[Devon and Cornwall \(CO96\)](#)
[Durham](#)
[East Midlands](#)
[Greater Manchester \(CO21\)](#)
[Heston \(CO82\)](#)
[Humberside \(CO32\)](#)
[Kent \(CO73\)](#)
[Kidlington \(CO 74\)](#)
[Lancashire \(CO24\)](#)
[Leicestershire \(CO55\)](#)
[MAC 12 \(N/S Yorks, Hull\)](#)
[MAC 14 \(Durham\)](#)
[Merseyside \(CO25\)](#)
[Netley \(CO72\)](#)
[North East](#)
[North West](#)



Figure 31 : RMC Area list

Click an RMC Area name to display the RMC Area status page (Figure 32). This provides options to access the status of equipment and significant fault logs.

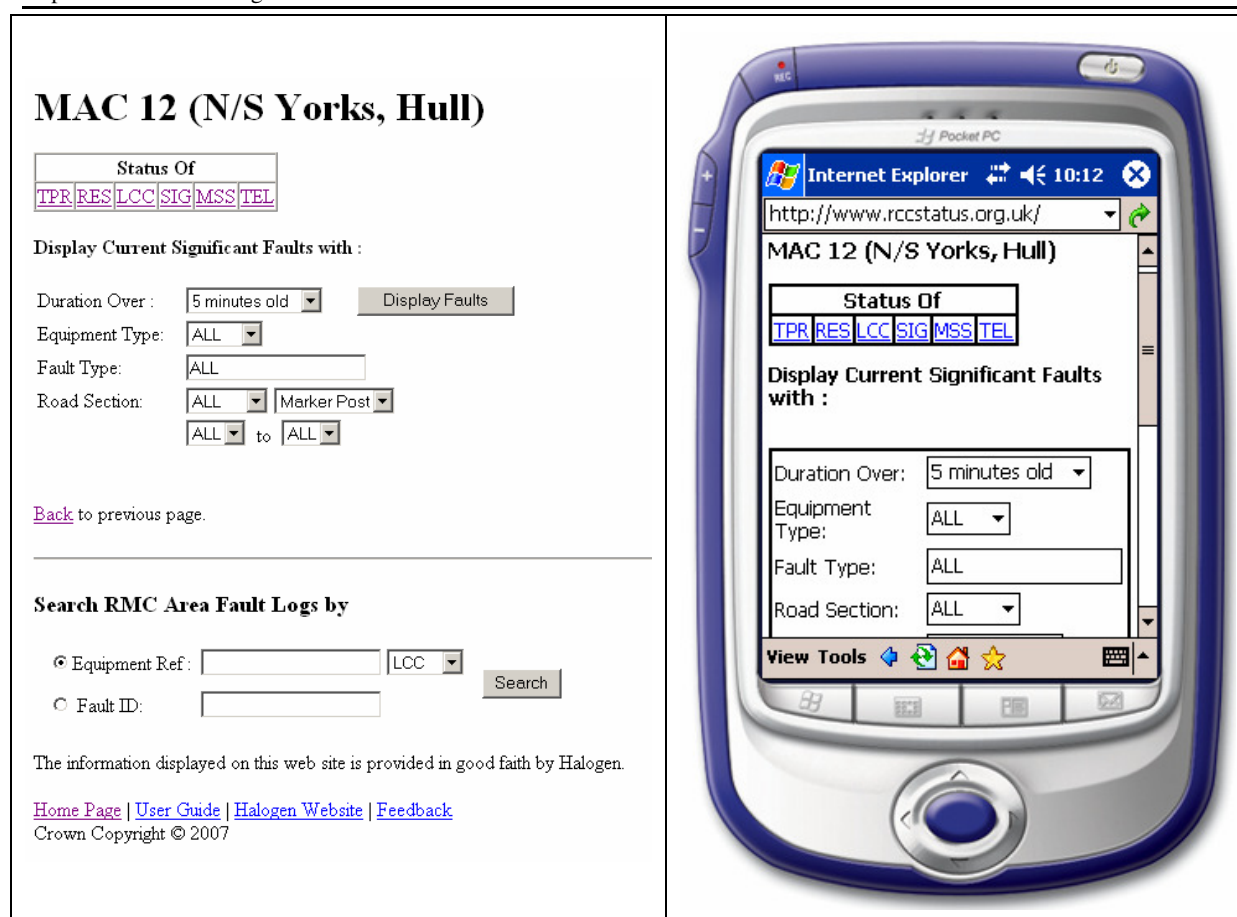


Figure 32 : RMC Area Detail

4.5 Identifying outstanding equipment and telephone faults

The Control Office web page provides filter options that allow you to identify the most recent significant equipment and telephone fault logs.

A significant fault is defined as:

“An equipment or telephone fault log that has lasted more than X minutes without a corresponding CLEAR being received”

Display Current Significant Faults with : Duration Over : 5 minutes old Display Faults Equipment Type: ALL Fault Type: ALL Road Section: ALL Marker Post ALL to ALL	Display Current Significant Faults with : Duration Over: 5 minutes old Equipment Type: ALL Fault Type: ALL Road Section: ALL Marker Post to Display Faults
---	--

Figure 33 : Significant fault options

The following options can be used to identify the significant faults

- **Duration Over**

You can specify the length of time a fault must be outstanding before it is displayed. The available values are 5 minutes, 30 minutes, 1 hour or half a day.

- **Equipment Type**

You can restrict the fault logs displayed to a single type of equipment, for example MSS by selecting the equipment type from the drop-down list. The special type of ALL will select fault logs for all equipment types.

- **Fault Type**

You can restrict the fault logs displayed to those which contain specific text within the fault type field. The special value of ALL will select fault logs for all fault type text.

- **Road Section**

You can limit the fault logs to those occurring on a particular road. You can select the road, and optionally the subsection of that road either by marker post numbers or junction numbers.

Click the **Display Faults** button to list all of the significant faults matching the entered criteria. This display is described in section 4.6.

Tip

The Roadside Fault Display displays a limited number of outstanding faults for each logging system. This list is continuously being updated as new faults are logged. After a period of time, it is possible that an equipment fault will no longer be visible having moved down the outstanding list.

Apply the various filter options to obtain the list of faults of interest to you.

4.6 Current significant faults display

The Current Significant Faults page displays the most significant fault logs for a selected Control Office. The fault logs are ordered in reverse chronological order. Only the latest 30 significant faults matching the filter criteria are displayed.

All faults displayed on this page are outstanding and have not been cleared.

Current Significant Faults for NE RCC Control Office

Logging Systems Status

Logging System Name	Connection Status	Latest Log Received Time	Status Of
NE RCC Subsystem	CONNECTED	2007-04-24 07:43:19 BST	TPR RES LCC SIG MSS TEL
North East RCC	NOT CONNECTED	2006-03-03 14:11:33 GMT	TPR RES LCC SIG MSS TEL
NE RCC Met Subsystem	CONNECTED	2006-04-20 11:05:07 BST	TPR RES LCC SIG MSS TEL

Latest Faults

Logging System	Date Generated	Equipment	Fault Id	Fault Type	Fault Status	Fault Text
NE RCC Subsystem	2007-04-25 13:51:28	M62/2370B MSS	21267	UNOBTAINABLE	HARD	
NE RCC Subsystem	2007-04-25 09:42:20	M6/5913A MSS	30759	TEST RESULT - POWER SUPPLY FAIL	HARD	
NE RCC Subsystem	2007-04-25 09:42:20	M6/5913A MSS	30251	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE" "CAUTION"
NE RCC Subsystem	2007-04-25 09:42:20	M5/7005B MSS	30250	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE" "CAUTION"
NE RCC Subsystem	2007-04-24 15:18:46	M1/3589B MSS	4837	TEST RESULT - LUMINANCE FAULT	HARD	
NE RCC Subsystem	2007-04-24 15:16:16	M42/6516B M42/6515B MSS	23651	TEST RESULT - FIBRE OPTIC MATRIX FAIL	HARD	
NE RCC Subsystem	2007-04-24 15:14:25	M27/9340B MSS	27006	STATUS REPLY - LAMP OR LED FAIL	HARD	
NE RCC Subsystem	2007-04-24 15:12:47	M42/6516B M42/6515B MSS	23639	STATUS REPLY - LAMP OR LED FAIL	HARD	
NE RCC Subsystem	2007-04-24 15:09:58	M6/5893B MSS	23618	TEST RESULT - LUMINANCE FAULT	HARD	
NE RCC Subsystem	2007-04-24 15:08:52	M56/5102B MSS	26137	TEST RESULT - HEATER CIRCUIT FAIL	HARD	

Last Refreshed: 2007-05-03 10:20:26 BST

Figure 34 : Outstanding faults display

The following information is available for each logging system of the Control Office:

- Logging System Name**

The logging system name, for example Eastern RCC, West Midlands RCC, and WM RCC Met Subsystem.

- Connection Status**

The Halogen connection status of the logging system. This will be CONNECTED or NOT CONNECTED.

- Latest Log Received Time**

The date and time of when the last log was received from the logging system.

For each identified significant fault log, the following details are displayed:

- **Logging System**

The name of the logging system that generated the fault log.

- **Date Generated**

The time when the fault log was generated. This time is assigned by the logging system.

- **Equipment**

The equipment reference and type that generate the fault log.

- **Fault ID**

The fault ID attached by the logging system to the fault log.

- **Fault Type**

The textual description of the type of fault.

- **Fault Status**

The status of the fault. Values include HARD and INTERMITTENT

- **Fault Text**

The fault text.

Click the **Equipment** reference to display the latest status and fault information of the selected equipment item. Section 4.7 describes this display.

Tip

In some situations the Equipment can have the value of **(blank)**. This is a valid value and indicates that the fault has not been associated with a specific item of equipment but rather is associated with the logging system and/or Control Office.

Clicking on a **(blank)** equipment reference will list equipment fault logs that have not been associated with a specific item of equipment.

4.7 Equipment status display

The Equipment Status page displays the current equipment and fault status, including cleared and uncleared faults, of a device. This is derived from the status and fault logs contained within Halogen.

This page is accessed by selecting an equipment reference hyperlink from

- The Current Significant Fault display (section 4.6)

- The Logging System overview page of transponders, responder or local communication controllers (section 4.3).
- The fault log search results (section 4.8).

Equipment Status for M6/5913A MSS

Current Equipment Status

Equipment	Status	Date
M6/5913A	OK	2007-04-24 14:41:01

Current Fault Status

Logging System	Date Generated	Equipment	Fault ID	Fault Type	Fault Status	Fault Text	Date Cleared
NE RCC Subsystem	2007-04-25 09:42:20	M6/5913A MSS	30759	TEST RESULT - POWER SUPPLY FAIL	HARD		2007-04-25 09:42:20
NE RCC Subsystem	2007-04-25 09:42:20	M6/5913A MSS	30251	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE" "CAUTION"	2007-04-25 09:42:20
NE RCC Subsystem	2007-03-05 15:52:07	M6/5913A MSS	18628	UNOBTAINABLE	HARD	"OFF"	2007-03-05 15:52:07
NE RCC Subsystem	2007-03-05 15:18:54	M6/5913A MSS	19554	UNOBTAINABLE	HARD	"QUEUE" "CAUTION"	2007-03-05 15:18:54
NE RCC Subsystem	2007-03-05 15:18:50	M6/5913A MSS	19538	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE" "AHEAD"	2007-03-05 15:18:50
NE RCC Subsystem	2007-03-05 15:18:48	M6/5913A MSS	19527	UNOBTAINABLE	HARD	"QUEUE" "AHEAD"	2007-03-05 15:18:48
NE RCC Subsystem	2007-03-05 15:18:47	M6/5913A MSS	19526	STATUS REPLY - MESSAGE FAIL	HARD	"QUEUE" "AHEAD"	2007-03-05 15:18:47
NE RCC Subsystem	2007-03-05 14:51:24	M6/5913A MSS	20963	STATUS REPLY - MESSAGE FAIL	HARD	"QUEUE" "CAUTION"	2007-03-05 14:51:24
NE RCC Subsystem	2007-03-05 14:44:39	M6/5913A MSS	20088	TEST RESULT - LANTERN FAIL	HARD		2007-03-05 14:44:39
NE RCC Subsystem	2007-03-05 14:44:38	M6/5913A MSS	20087	TEST RESULT - LUMINANCE FAULT	HARD		2007-03-05 14:44:38
NE RCC Subsystem	2007-03-05 14:44:30	M6/5913A MSS	20086	TEST RESULT -	HARD		2007-03-05 14:44:30

Figure 35 : Equipment status display

The latest status log for the equipment item is displayed at the top of the page. The following information is shown

- **Equipment**

The reference of the equipment for which the status log was received

- **Status**

The latest status of the equipment as specified by the status log.

- **Date**

The date and time the status log was generated.

All *unique faults* that have been logged for the equipment are listed. A unique fault has a distinct fault type, fault status and fault text. When a repeat fault occurs, only the last instance will be displayed.

Both outstanding and cleared faults are listed. Cleared faults will have a date and time value indicating when the fault was cleared.

This collection of fault logs is called the **Current Fault Status** of the equipment item. The faults are listed in reverse chronological order using the date and time when they were generated.

Tip

You can view the fault logs of repeat faults by clicking the [View Fault History](#) link at the bottom of the page.

For each equipment fault log, the following information is available

- **Logging System**

The name of the logging system that generated the fault log.

- **Date Generated**

The date and time when the fault log was generated. This time is assigned by the logging system.

- **Equipment**

The equipment reference and type that generate the fault log.

- **Fault ID**

The fault ID attached by the logging system to the fault log.

- **Fault Type**

The textual description of the type of fault.

- **Fault Status**

The status of the fault. Values include HARD and INTERMITENT

- **Fault Text**

The fault text.

- **Date Cleared**

The date and time when the fault log was cleared. For outstanding faults, this field will be blank.

Click the [View Fault History](#) hyperlink to list the latest fault history, including repeat faults, of the equipment item.

4.8 Fault history search options

The Roadside Fault Display provides the ability to search for fault logs by

- equipment reference, or
- logging system fault ID

Search options are available at the bottom of most pages.

Search Fault Logs by

☐ Equipment Ref:

☒ Fault ID:

Search Fault Logs by

☒ Ref:

☐ Fault ID:

Figure 36 : Fault history search options

To search by equipment reference

- Click the **Equipment Ref** option.
- Enter an equipment reference in the adjacent field. A partial reference can be entered.
- Select the type of equipment to search from the drop-down list.
- Click the **Search** button.

To search by the logging system fault ID

- Click the Fault ID option
- Enter the fault ID in the adjacent field. The complete fault ID should be entered.
- Click the **Search** button.

The Roadside Fault Display will list the faults matching the specified criteria. These faults can potentially be from multiple logging systems. A maximum of 30 faults will be displayed.

Tip

To search the fault logs of a single Control Office, first select the Control Office from the Home Page, and then perform the search from the Control Office status page. Only fault logs belonging to the Control Office's logging systems will be returned.

From the found fault logs, click **Equipment** reference to display the latest status and fault information of the selected equipment item. Section 4.7 describes this display.

4.9 Fault history display

The Halogen data warehouse maintains all historical fault log data.

It is possible to view the history of a specific equipment item by clicking the **View Fault History** hyperlink from the equipment status page. See section 4.7. This will include repeat faults logs.

Please note that the data warehouse is updated approximately every hour with fault log information. This can have the side effect that fault logs you can see in the current significant faults and equipment

status pages may not be immediately visible in the fault history display. This is an unavoidable consequence of having the power to access to historical information.

Equipment Fault Log History for M62/2370B MSS							
Logging System	Date Generated	Equipment	Fault ID	Fault Type	Fault Status	Fault Text	Date Cleared
Simulator for FEP01	2007-04-25 13:51:28	M62/2370B MSS	21267	UNOBTAINABLE	HARD		
Simulator for FEP01	2007-04-25 09:42:45	M62/2370B MSS	21267	UNOBTAINABLE	HARD		
Simulator for FEP01	2007-04-25 09:23:27	M62/2370B MSS	21267	UNOBTAINABLE	HARD		
North East RCC	2006-08-09 18:20:10	M62/2370B MSS	277	UNOBTAINABLE	HARD	"OFF"	
North East RCC	2006-08-09 16:16:37	M62/2370B MSS	290	UNOBTAINABLE	HARD	"OFF"	2006-08-10 02:21:58
North East RCC	2006-08-09 13:51:01	M62/2370B MSS	261	UNOBTAINABLE	HARD	"OFF"	2006-08-10 02:21:58
North East RCC	2006-08-02 11:07:21	M62/2370B MSS	173	UNOBTAINABLE	HARD	"OFF"	2006-08-10 02:21:58
North East RCC	2006-07-31 12:37:41	M62/2370B MSS	187	UNOBTAINABLE	HARD	"OFF"	2006-07-31 13:28:48
North East RCC	2006-07-20 23:10:42	M62/2370B MSS	205	UNOBTAINABLE	HARD	"OFF"	2006-08-01 09:26:12
North East RCC	2006-07-20 10:48:02	M62/2370B MSS	163	UNOBTAINABLE	HARD	"OFF"	2006-07-20 23:07:20
North East RCC	2006-07-19 05:15:23	M62/2370B MSS	28832	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE AFTER 'NEXT JCT'"	2006-07-19 05:19:22
North East RCC	2006-07-19 04:52:35	M62/2370B MSS	28767	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE AFTER 'NEXT JCT'"	2006-07-19 04:56:33
North East RCC	2006-07-18 23:08:56	M62/2370B MSS	28512	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE AFTER 'NEXT JCT'"	2006-07-18 23:12:56
North East RCC	2006-07-18 21:38:02	M62/2370B MSS	28331	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE AFTER 'NEXT JCT'"	2006-07-18 21:42:04
North East RCC	2006-07-18 19:29:00	M62/2370B MSS	28122	STATUS REPLY - CRC INCORRECT	HARD	"QUEUE AFTER 'NEXT JCT'"	2006-07-18 19:42:02



Figure 37 : Fault history display

Only the last 30 fault logs for the equipment are displayed. The fault logs, irrespective of whether they have been cleared or not, are listed in reverse chronological order of their date generated.

For each equipment fault log, the following information is available

- Logging System**

The name of the logging system that generated the fault log.

- Date Generated**

The date and time when the fault log was generated. This time is assigned by the logging system.

- **Equipment**

The equipment reference and type that generate the fault log.

- **Fault ID**

The fault ID attached by the logging system to the fault log.

- **Fault Type**

The textual description of the type of fault.

- **Fault Status**

The status of the fault. Values include HARD and INTERMITENT

- **Fault Text**

The fault text.

- **Date Cleared**

The date and time when the fault log was cleared. For outstanding faults, this field will be blank.

5 Contacts

5.1 Halogen Help Desk

Mott MacDonald operates a Help Desk for the Halogen system. The Help Desk is staffed during normal working hours.

Monday-Friday 0700-1900

Telephone: 0141 222 4666

Fax: 0141 222 4667

Email: helpdesk.itg@mottmac.com