ASAS Version 14.03 AQWA Version 5.6A FEMGV Version 7.0-04

Installation Guide

August 2005

ASAS Support Manager Century Dynamics Limited Dynamics House, 86 Hurst Road Horsham, West Sussex, England, RH12 2DT

Telephone +44 (0) 1403 270066 Fax +44 (0) 1403 27099 E-mail <u>all@centdyn.demon.co.uk</u>

URL www.century-dynamics.com

Century Dynamics is a subsidiary of ANSYS, Inc www.ansys.com

Century Dynamics Limited has taken all reasonable care in compiling this documentation. Century Dynamics Limited will not be held responsible for any errors or omissions that may be found herein. Any such errors should be notified to the ASAS Support Manager for correction.

© Copyright in this document belongs to Century Dynamics Limited, and the contents must not be reproduced in part or as a whole without its prior written consent.

Contents

1. INTRODUCTION	5
1.1 OBJECTIVES OF THE GUIDE	5
1.2 DISTRIBUTION OF THE SOFTWARE	5
1.3 NEW INSTALLATION FEATURES IN THIS RELEASE	5
1.4 CONVENTIONS.	6
2. INSTALLING THE SOFTWARE	7
2.1 RUNNING THE SETUP FILES	7
2.2 INSTALLATION DIRECTORIES	7
2.3 UPGRADING PREVIOUS RELEASES OF THE SOFTWARE	8
2.4 INSTALLING AQWA 5.6A APPLICATIONS SOFTWARE	. 10
2.5 INSTALLING AQWA 5.6A SECURITY SOFTWARE	. 10
2.6 INSTALLING ASAS 14.03 APPLICATIONS SOFTWARE	. 11
2.7 INSTALLING ASAS 14.03 SECURITY SOFTWARE	. 11
2.8 INSTALLING FEMGV 7.0-04 APPLICATIONS SOFTWARE	. 12
2.9 INSTALLING FEMGV 7.0-04 SECURITY SOFTWARE	. 12
2.10 POST-INSTALLATION	. 13
3. CONFIGURING THE SECURITY SOFTWARE	. 15
3.1 INSTALLING ASAS, AQWA AND FEMGV SECURITY FILES	. 15
3.2 INSTALLING ASAS AND AQWA DONGLE LICENSING	. 15
3.3 INSTALLING FEMGV DONGLE LICENSING	. 16
3.4 INSTALLING NETWORK LICENSING.	. 16
4. INSTALLING ENVIRONMENT VARIABLES	. 19
4.1 INSTALLING ENVIRONMENT VARIABLES IN WINDOWS-95/98	. 19
4.2 INSTALLING ENVIRONMENT VARIABLES IN WINDOWS-2000	. 19
4.3 INSTALLING ENVIRONMENT VARIABLES IN WINDOWS-NT	. 20
4.4 INSTALLING ON A NETWORK IN WINDOWS-95/98	. 21

4.5 INSTALLING ON A NETWORK IN WINDOWS-2000	. 21
4.6 INSTALLING ON A NETWORK IN WINDOWS-NT	. 22
4.7 TESTING THE ENVIRONMENT VARIABLES	. 23
5. TESTING THE INSTALLED PROGRAMS	. 25
5.1 TESTING THE ASAS INSTALLATION	. 25
5.2 TESTING THE AQWA INSTALLATION	. 26
5.3 TESTING THE FEMGV INSTALL ATION	26

FEMGV is a registered trademark of Femsys Limited

FLEXIm is a registered trademark of Macrovision Corporation (Globetrotter Software)

GINO is a registered trademark of Bradly Associates Ltd

Sentinel is a registered trademark of Rainbow Technologies Inc.

Softlok is a registered trademark of Softlok International Ltd

1. Introduction.

1.1. Objectives of the guide.

This guide will help you to install the Release 14.03 of the ASAS-AQWA software. It also contains information to help you administer the software.

1.2. Distribution of the software.

The ASAS, AQWA and FEMGV programs are installed from installation setup files, which can be either downloaded from the Century Dynamics Limited web site (www.centurydynamics.co.uk) or supplied on CD by your ASAS-AQWA supplier. There are six installation setup files in all:

setup_aqwa_56a.exe
 Installs AQWA Version 5.6A applications

setup_aqwa_56a_sec.exe - Installs AQWA Version 5.6A security

setup_asas_1403.exe
 Installs ASAS Version 14.03 applications

setup_asas_1403_sec.exe
 Installs ASAS Version 14.03 security

setup_femgv_7004.exe
 Installs FEMGV Version 7.0-04 applications

setup femgy 7004 sec.exe
 Installs FEMGV Version 7.0-04 security

For any of the three programs, AQWA, ASAS and FEMGV, both the applications and the security software must be installed. The exception to this is that if you are installing both ASAS and AQWA on the same system, then you will only need to install one set of security software. In this situation, it is recommended that you install the ASAS Version 14.03 security only (setup_asas_1403_sec.exe). When installing FEMGV, FEMGV Version 7.0-04 security must always be installed.

1.3. New installation features in this release.

Release 14.03 of the ASAS-AQWA software includes changes to the dongle and FLEXIm network licensing software, together with the release of FEMGV 7.0-04. If you are an existing user of any of these packages, please read this section in order to familiarise yourself with any implications these changes may have for your installation.

· Default installation directories.

\asas\demo

At Version 14.03, the default ASAS structure is:

\asas\asas1403\bin - Program executables and associated files.

\asas\asas1403\document - Program documentation files.

\asas\authfiles - Authorisation files and dongle and FLEXIm drivers.

\asas\config - Version independent configuration files.

- Installation test files.

At Version 5.6A, the default AQWA structure is:

\aqwa\authfiles - Authorisation files and dongle and FLEXIm drivers.
\aqwa\demo - AGS demonstration files.

\aqwa\doc - Program documentation files.

\aqwa\test - Installation test files.
\aqwa\training - Training files.
\aqwa\utils - Utility batch files.

\aqwa\v56a - Program executables and associated files.

At Version 7.0-04, the default FEMGV structure is:

\Program Files\FGV7004\bin - Program executables and associated files.

\Program Files\FGV7004\Cadrepair - Cadrepair utility. \Program Files\FGV7004\custom - Configuration files. \Program Files\FGV7004\KEYFILE - Authorisation files

\Program Files\FGV7004\lib - Program library and associated files.

\Program Files\FGV7004\share\demo - Training files.

\Program Files\FGV7004\share\documentation - Program documentation files.

Dongle licensing.

The contents of the ASAS and AQWA authorisation files have changed with the new release. For the general release of ASAS Version 14.03 and AQWA Version 5.6A new authorisation files will be issued to all existing users. Where users have combined ASAS and AQWA installations, the authorisation files are issued as ASAS authorisation files, and should be installed in the ASAS authfiles directory.

Dongle licensing for ASAS Version 14.03 and AQWA Version 5.6A will now support both parallel and USB dongles. The new versions of the ASAS and AQWA software will continue to use the current driver files, windrvr.sys for Windows 2000/NT and windrvr.vxd for Windows 95/98. Once the new files have been installed, you should be able to run new and previous versions of the ASAS and AQWA software concurrently.

· FLEXIm network licensing.

The contents of the ASAS and AQWA authorisation files have changed with the new release. For the general release of ASAS Version 14.03 and AQWA Version 5.6A new authorisation files will be issued to all existing users. Where users have combined ASAS and AQWA installations, the authorisation files are issued as ASAS authorisation files, and should be installed in the ASAS authfiles directory. There have been no changes to the FLEXIm authorisation file for the new release, but, for completeness, new authorisation files will be issued to all existing users.

Release 14.03 of the ASAS and AQWA software uses Version 9.5 of the FLEXIm licence manager; previous releases used Version 7.2 or earlier. There is backwards compatibility between Version 9.5 of the FLEXIm licence manager and previous versions, and this should allow you to run both new and previous versions of the ASAS and AQWA software concurrently. In order to do this you must install Version 9.5 of the FLEXIm licence manager. Paragraphs 2.3, 2.5, 2.7, 2.9 and 3.4 of this guide will show you how to install Version 9.5 of the FLEXIm licence manager.

• FEMGV Version 7.0-04.

The name and location of the FEMGV authorisation file have changed with the new release. For the general release of FEMGV 7.0-04 new authorisation files will be issued to all existing users.

Version 7.0-04 of the FEMGV software is installed into its own version-independent structure, which is separate from that for previous versions, and this should allow you to run both new and previous versions of the FEMGV software concurrently. Please note, however, that Version 14.03 of the ASAS software has been built specifically to interface with FEMGV 7.0-04. If you want to run an earlier version of FEMGV then you must retain the corresponding version of the ASAS software.

If you have any queries regarding the above issues, please contact your ASAS-AQWA supplier.

1.4. Conventions.

The following typeface conventions are used in this guide:

- Italic

 To be input by you, either from the keyboard, or by using the mouse.
- Typewriter Prompts or other information displayed on the screen.

2. Installing the software.

2.1. Running the installation setup files.

To run the installation setup files, proceed as follows -

Web installation.

- Download the installation setup file(s) from the Century Dynamics web site.
- Open Explorer and browse to the downloaded file.
 For example,

C:\temp\setup_asas_1403.exe (For the ASAS Version 14.03 applications)

• Double-click on this file to start the installation procedure.

CD installation.

- Insert the CD in the drive.
- Open Explorer and browse to the required file.
 For example,

```
<a href="https://drive-letter>:setup_asas_1403.exe">drive-letter>:setup_asas_1403.exe</a> (For the ASAS Version 14.03 applications) where <a href="https://drive.letter>">drive-letter></a> is the letter of your CD drive.
```

• Double-click on this file to start the installation procedure.

However, before you run the installation setup files, please read the rest of this section, as it contains information that you will need during the course of the installation.

Please note that it is recommended that you remove any dongles from the system when running any of the security installation setup files.

2.2. Installation directories.

During the installation procedures for ASAS, AQWA and FEMGV, you will be asked for the "Destination Location". This is the directory in which you want that software to be installed. If you do not specify a directory, then the software will be installed in the default directory for that program.

Throughout this guide, the following convention will be used to refer to the directory in which you have installed each program:

AQWA applications	<aqwapp></aqwapp>	(Default C:∖aqwa)
AQWA security	<aqwasec></aqwasec>	(Default C:\aqwa)
ASAS applications	<asasapp></asasapp>	(Default C:\asas)
ASAS security	<asassec></asassec>	(Default C:\asas)
FEMGV applications	<fgvapp></fgvapp>	(Default C:\Program Files\Femsys\FGV7004)
FEMGV security	<fgvsec></fgvsec>	(Default C:\Program Files\Femsys)

These names must include the full path name to the directory. For example, if you have installed ASAS in the \asas directory on drive D:, then <asasapp> must represent "D:\asas", not "\asas".

In practice, the applications and security software for each program are usually installed in the same directory structure, so, for example, <asasapp> and <asassec> will represent the same directory.

2.3. Upgrading previous releases of the software.

If you are going to upgrade a previous release of the ASAS-AQWA software, there are certain issues you need to be aware of:

· Directories and paths.

Prior to Release 14.02, ASAS and AQWA were installed with most of their files under a single directory, \asash for ASAS and \aqwa for AQWA. One consequence of this was that users either had to install a new release on top of the previous one, or rename the previous release before installing the new one. From ASAS Version 14.02 and AQWA Version 5.5A onwards, the installation directories have become more version specific (See Paragraphs 1.3 and 2.2 above), but there are still some common directories, such as <asassec>\authfiles. It is recommended that before you upgrade your installation, you take a backup of the following directories:

```
<aqwapp>\demo, <aqwapp>\test, <aqwapp>\training, <aqwapp>\utils,
```

<aqwasec>\authfiles

<asasapp>\config, <asasapp>\demo

<asassec>\authfiles

C:\Program Files\Femsys\custom, C:\Program Files\Femsys \keyfile

C:\Program Files\Femsys \ FGV6401z

C:\flexIm

C:\qino

C:\iview2

It is further recommended that before upgrading you rename the following directories used by the old versions:

<aqwasec>\authfiles

<asassec>\authfiles

C:\Program Files\Femsys \custom

C:\Program Files\Femsys \keyfile

Before renaming directory C:\flexIm or switching over to the new version of the FLEXIm licence manager, you must stop the FLEXIm licence manager. See the next paragraph for information on how to do this.

Finally, remove the names of the ASAS, ASAS Visualiser and FEMGV directories from the system PATH. The current default values for these are C:\asas\asas1402\bin,

C:\asas\asas1402\bin\asas_vis\runtime\bin\pc and C:\Program Files\Femsys. They will be replaced with new values by the installation procedures for ASAS Release 14.03.

Network licensing.

If you are upgrading any of the AQWA, ASAS or FEMGV network security software to Release 14.03 from Release 14.02 or earlier, then **you must stop the licence manager.** This is to allow you to replace the FLEXIm authorisation file with the new Version 9.5 compatible file, and to change over to the FLEXIm Version 9.5 licence manager.

◆ To stop the FLEXIm Version 6.1 licence manager from the desktop:

Click on the FLEXIm (6.1) icon.

In the "Control" menu, click on "Stop".

The licence manager will stop.

◆ To stop the FLEXIm Version 7.2 or Version 9.5 licence manager from the desktop :

Either click on the Lmtools (7.2) or Lmtools (9.5) icon or

open Explorer, browse to <asassec>\authfiles and double click on Imtools.exe

In the "Service/License File" menu, click on "Configuration using Services".

In the "Start/Stop/Reread" menu, click on "Stop Server".

The licence manager will stop.

 To stop either version of the FLEXIm licence manager from a DOS Command Prompt: cd <asassec>\authfiles

*Imutil Imdown –c <asassec>\authfiles\asas.lic*The licence manager will stop.

♦ Save the FLEXIm authorisation file <asassec>\authfiles\asas.lic, or <aqwasec>\authfiles\aqwa.lic, under another name, for example asas72.lic

This will allow you to run new and previous versions of the ASAS and AQWA software concurrently.

2.4. Installing AQWA Version 5.6A applications software.

During the course of this procedure, you will be prompted for the following:

• Select Components.

Select those parts of the AQWA suite you wish to install. You may install all of the AQWA software if you wish but you will only be able to run those programs for which you are licensed.

• Choose Destination Location.

The AQWA software will, by default, be installed in directory C:\aqwa. If you wish to specify another location, use the browser to select the installation directory.

• Backup Replaced Files.

The installation procedure can create backup copies of all files replaced during the installation. These files will be used if the software is uninstalled and a rollback is requested. If backup copies are not requested, you will only be able to uninstall the software, and not roll back to a previous version. The default location of the backup destination directory is C:\aqwa\BACKUP. If you wish to specify another location, use the browser to select the required directory.

The installation procedure will then continue to its finish.

2.5. Installing AQWA Version 5.6A security software.

During the course of this procedure, you will be prompted for the following:

• Select Components.

The AQWA software can be secured either by a hardware dongle, or by a network licensing system, using the FLEXIm licence manager software. Select which type of security you will be using.

• Choose Destination Location.

The AQWA software will, by default, be installed in directory C:\aqwa. If you wish to specify another location, use the browser to select the installation directory.

Backup Replaced Files.

The installation procedure can create backup copies of all files replaced during the installation. These files will be used if the software is uninstalled and a rollback is requested. If backup copies are not requested, you will only be able to uninstall the software, and not roll back to a previous version. The default location of the backup destination directory is C:\aqwa\BACKUP. If you wish to specify another location, use the browser to select the required directory.

• Licence Manager.

If you selected "Network Security" in response to the "Select Components" prompt, you will be asked whether your system is the FLEXIm host or is a slave system.

If your system is the one on which the FLEXIm licence manager will be running, select "Host". If your system is not the one on which the FLEXIm licence server will be running, select "Slave".

The installation procedure will then continue to its finish.

If you are running across a local or wide area network, you will need to set up your client systems to know where your applications and security systems are located. See Chapter 4 for details on setting up environment variables

2.6. Installing ASAS Version 14.03 applications software.

During the course of this procedure, you will be prompted for the following:

• Select Components.

Select those parts of the ASAS suite you wish to install. You may install all of the ASAS software if you wish but you will only be able to run those programs for which you are licensed.

Add Components to the Desktop.

Select those components for which you want to have desktop icons.

• Choose Destination Location.

The ASAS software will, by default, be installed in directory C:\asas. If you wish to specify another location, use the browser to select the installation directory.

• Backup Replaced Files.

The installation procedure can create backup copies of all files replaced during the installation. These files will be used if the software is uninstalled and a rollback is requested. If backup copies are not requested, you will only be able to uninstall the software, and not roll back to a previous version. The default location of the backup destination directory is C:\asas\BACKUP. If you wish to specify another location, use the browser to select the required directory.

The installation procedure will then continue to its finish.

2.7. Installing ASAS Version 14.03 security software.

During the course of this procedure, you will be prompted for the following:

• Select Components.

The ASAS software can be secured either by a hardware dongle, or by a network licensing system, using the FLEXIm licence manager software. Select which type of security you will be using.

Choose Destination Location.

The ASAS security software will, by default, be installed in directory C:\asas\authfiles. If you wish to specify another location, use the browser to select the installation directory.

Backup Replaced Files.

The installation procedure can create backup copies of all files replaced during the installation. These files will be used if the software is uninstalled and a rollback is requested. If backup copies are not requested, you will only be able to uninstall the software, and not roll back to a previous version. The default location of the backup destination directory is C:\asas\BACKUP. If you wish to specify another location, use the browser to select the required directory.

Licence Manager.

If you selected "Network Security" in response to the "Select Components" prompt, you will be asked whether your system is the FLEXIm host or is a slave system.

If your system is the one on which the FLEXIm licence manager will be running, select "Host". If your system is not the one on which the FLEXIm licence server will be running, select "Slave".

The installation procedure will then continue to its finish.

If you are running across a local or wide area network, you will need to set up your client systems to know where your applications and security systems are located. See Chapter 4 for details on setting up environment variables

2.8. Installing FEMGV Version 7.0-04 applications software.

During the course of this procedure, you will be prompted for the following:

• Select components.

Select those parts of the FEMGV suite you wish to install.

• Add Components to the Desktop.

Select those components for which you want to have desktop icons.

• Choose Destination Location.

The FEMGV software will, by default, be installed in directory C:\Program Files\Femsys\FGV7004. If you wish to specify another location, use the browser to select the installation directory.

• Choose Default Working Directory.

The FEMGV software will set directory C:\fgv-work as its default working directory. If you wish to specify another location, use the browser to select the default working directory.

• Backup Replaced Files.

The installation procedure can create backup copies of all files replaced during the installation. These files will be used if the software is uninstalled and a rollback is requested. If backup copies are not requested, you will only be able to uninstall the software, and not roll back to a previous version. The default location of the backup destination directory is C:\Program Files\Femsys\FGV7004\BACKUP. If you wish to specify another location, use the browser to select the required directory.

The installation procedure will then continue to its finish.

2.9. Installing FEMGV Version 7.0-04 security software.

During the course of this procedure, you will be prompted for the following:

• Select components.

The FEMGV software can be secured either by a hardware dongle, or by a network licensing system, using the FLEXIm licence manager software. Select which type of security you will be using.

• Choose Destination Location.

The FEMGV security software will, by default, be installed in directory C:\Program Files\Femsys. If you wish to specify another location, use the browser to select the installation directory.

• Backup Replaced Files.

The installation procedure can create backup copies of all files replaced during the installation. These files will be used if the software is uninstalled and a rollback is requested. If backup copies are not requested, you will only be able to uninstall the software, and not roll back to a previous version. The default location of the backup destination directory is C:\Program Files\Femsys\FGV7004\BACKUP. If you wish to specify another location, use the browser to select the required directory.

• Sentinel System Driver - InstallShield Wizard.

If you selected "Dongle Security" in response to the "Select Components" prompt, you will now be invited to install the Sentinel driver for dongle security.

Version 7.0-04 of the FEMGV software uses Version 5.39.2 of the Rainbow Technologies' Sentinel Device Driver. This version of the driver will work with all existing Sentinel configurations, so there should be no compatibility issues following the installation of the driver.

The driver has its own setup file. When you run the FEMGV security setup file, the Sentinel setup file is installed in the specified Destination Location. The default directory for this is C:\Program Files\Femsys\Sentinel. The FEMGV security setup file then runs Sentinel's own setup file, which installs

the driver in C:\Program Files\Rainbow Technologies\Sentinel System Driver. This location is fixed and cannot be changed by the user.

◆ Licence Agreement - Accept the agreement.

Setup Type (Complete/Custom) - Select "Complete".

• Licence Manager.

If you selected "Network Security" in response to the "Select Components" prompt, you will be asked whether your system is the FLEXIm host or is a slave system.

If your system is the one on which the FLEXIm licence manager will be running, select "Host". If your system is not the one on which the FLEXIm licence server will be running, select "Slave".

The installation procedure will then continue to its finish.

If you are running across a local or wide area network, you will need to set up your client systems to know where your applications and security systems are located. See Chapter 4 for details on setting up environment variables

2.10. Post-installation.

AMC (The ASAS/Mathcad interface)

If you will be using program AMC (the ASAS/Mathcad interface), you will need to copy certain files from the <asasapp>\asas1403\bin directory to the MATHCAD directory structure, typically C:\program Files\Mathcad 2001 Professional, but you must check for the actual location on your own system. The files and their destination MATHCAD directories are:

File amc.chm Directory doc

File amc.xml Directory doc\funcdoc
File amc32.dll Directory userefi
File ASAS worksheet.mct Directory template

AQL (The AQWA/Excel interface)

If you will be using program AQL (the AQWA/Excel interface), you will need to install aql32.xla, the AQL XLA file.

Copy file aql32.xla from the <aqwaapp>\utils directory to the Excel Library directory, typically C:\Program Files\Microsoft Office\Cibrary, but you must check for the actual location on your own system. You should also delete or rename all other copies of \Program Files\Microsoft Office\...\aql32.xla for safety.

Once you have installed the new version of aql32.xla, you will need to set up the new location:

Start up Excel

In the "Tools / Add-Ins" menu, click on "AQL32". Browse to the location of aql32.xla Click on "OK" to exit Browse. Click on "OK" to exit Add-Ins.

In the "Edit/Links" menu, click on aql32.xla. Click on 'Change Source'.
Browse to the location of aql32.xla
Click on "OK" to exit Browse.
Click on "OK" to exit Links.

Exit from Excel

The AQWA/Excel interface is now enabled.

AXL (The ASAS/Excel interface)

If you will be using program AXL (the ASAS/Excel interface), you will need to install axl32.xla, the AXL XLA file.

Two versions of axl32.xla are distributed with Release 14.03, one for Excel 2000 and one for Excel 2002. These are to ensure that the Help works with both versions of Excel. Copy the required version from the <asasapp>\asas1403\bin directory to the Excel Library directory (typically C:\Program Files\Microsoft Office\Library, but you must check for the actual location on your own system), and rename it as axl32.xla. You should also delete or rename all other copies of \Program Files\Microsoft Office\...\axl32.xla for safety.

Once you have installed the new version of axl32.xla, you will need to set up the new location:

Start up Excel

In the "Tools / Add-Ins" menu, click on "AXL32". Browse to the location of axl32.xla Click on "OK" to exit Browse. Click on "OK" to exit Add-Ins.

In the "Edit/Links" menu, click on axl32.xla. Click on 'Change Source'.
Browse to the location of axl32.xla
Click on "OK" to exit Browse.
Click on "OK" to exit Links.

Exit from Excel

The ASAS/Excel interface is now enabled.

Path for ASAS Visualiser.

The default directory for the installation of the ASAS Visualiser is C:\asas\asas1403\bin\asas_vis. In order to run, the Visualiser needs a path to the asas_vis subdirectory runtime\bin\pc. In a local installation, the setup file will add this directory to the system path. In a network installation, you will need to update the path yourself. Please see Chapter 4 (Installing Environment Variables) for full details.

3. Configuring the security software.

The installation procedures for the security software, described in Section 2 above, will have installed the dongle and network licence drivers in their correct directories. There still remain a few steps to be performed to complete the configuration of the security system.

3.1. Installing ASAS, AQWA and FEMGV authorisation files.

Users are licensed to use the ASAS-AQWA software through a series of authorisation files, one for each program. Authorisation files are released separately from the program setup files. Usually, they will either be included on a floppy disk as part of the ASAS-AQWA distribution kit that has been sent to you, or they will be emailed to you by your ASAS-AQWA supplier. The standard file names are:

AQWA aqwa.sec
ASAS asas.sec
FEMGV fgvkey.k70
FLEXIm asas.lic

Install the AQWA authorisation file as <agwasec>\authfiles\agwa.sec

Install the ASAS authorisation file as <asassec>\authfiles\asas.sec

Install the FEMGV authorisation file as <fgvsec>\FGV7004\keyfile\fgvkey.k70

Install the FLEXIm authorisation file as <asassec>\authfiles\asas.lic (ASAS-only or FEMGV-only installation)

Install the FLEXIm authorisation file as <agwasec>\authfiles\asas.lic (AQWA-only installation)

Systems that are running combinations of ASAS and AQWA will usually have combined authorisation files, typically <asassec>\authfiles\asas.sec

Systems that are running combinations of ASAS, AQWA and FEMGV will usually have combined FLEXIm authorisation files, typically <asassec>\authfiles\asas.lic.

The FEMGV authorization file, fgvkey.k70, is always separate.

3.2. Installing ASAS and AQWA dongle licensing.

Multiple parallel dongles (for example, one for ASAS and/or AQWA and one for FEMGV) may be plugged into each other.

During the installation of the ASAS security software, the files drvinst.exe, sl2inst.exe, windrvr.sys and windrvr.vxd will have been copied to the <asassec>\authfiles directory. The installation procedure will then automatically install either windrvr.sys (the Windows-2000/NT driver) or windrvr.vxd (the Windows-95/98 driver) according to the operating system.

If you need to install the driver manually, follow one these procedures:

To run the Softlok 2 driver install utility from the desktop:
 Open Explorer, browse to <asassec>\authfiles and double click on sl2inst.exe
 Click on "Install".

The driver will be installed and the registry updated.

 To run the Softlok 2 driver install utility from a DOS Command Prompt: cd <asassec>\authfiles drvinst install

The driver will be installed and the registry updated.

The driver can also be un-installed manually, following one these procedures:

To run the Softlok 2 driver un-install utility from the desktop:
 Open Explorer, browse to <asassec>lauthfiles and double click on sl2inst.exe
 Click on "Uninstall".

The driver and registry entries will be removed.

 To run the Softlok 2 driver un-install utility from a DOS Command Prompt: cd <asassec>\authfiles drvinst uninstall The driver and registry entries will be removed.

There is no need to re-boot the computer after any of these operations.

If you have installed AQWA instead of ASAS, then substitute <aqwasec> for <asassec> in this section.

3.3. Installing FEMGV dongle licensing.

During the installation of the FEMGV security software, the file RainbowSSD5.39.2.exe will have been copied to the <fgvsec>\Sentinel directory. The installation procedure will then automatically run this file to install the Sentinel device driver.

If you need to install the driver manually, follow this procedure:

- Open Explorer, browse to the directory <fgvsec>\Sentinel and click on "RainbowSSD5.39.2.exe".
 A window with the title bar "Sentinel System Driver InstallShield Wizard" is displayed. Reply to the prompts as follows:
 - ♦ Licence Agreement

- Accept the agreement.
- ♦ Setup Type (Complete/Custom)
- Select "Complete".

The driver will be installed in directory C:\Program Files\Rainbow Technologies\Sentinel System Driver.

The computer must be rebooted for these changes to take effect.

3.4. Installing network licensing.

When installing network licensing, you must be logged in to the FLEXIm licence server. **Do not try to install or configure FLEXIm remotely.**

If you are using network licensing on your system, there will be an authorisation file for FLEXIm. The standard name for this file is asas.lic

Network licensing requires a unique identifier for the computer that is to act as your FLEXIm licence server. This must be communicated to your ASAS-AQWA supplier who will prepare the FLEXIm authorisation file, which must then be installed in the <asassec>\authfiles directory.

The unique identifier is one of the following:

Host Name Ethernet Address IP Address Disk Volume ID

The Host Name, Ethernet Address and IP Address may be obtained using the DOS command:

winipcfg /all (In Windows-95/98 the addresses are reported as Adapter Address and IP Address) ipconfig /all (In Windows-2000/NT the addresses are reported as Physical Address and IP Address)

The Disk Volume ID may be obtained using the DOS command

vol

on the disk on which the software is installed. This is the same for all versions of Windows.

If you already have the FLEXIm licence manager running on your system, you must stop it before installing your new FLEXIm authorisation file.

• To stop the FLEXIm Version 6.1 licence manager from the desktop:

Click on the FLEXIm (6.1) icon.

In the "Control" menu, click on "Stop".

The licence manager will stop.

• To stop the FLEXIm Version 7.2 or Version 9.5 licence manager from the desktop:

Either click on the Lmtools (7.2) or Lmtools (9.5) icon or

open Explorer, browse to <asassec>lauthfiles and double click on Imtools.exe

In the "Service/License File" menu, click on "Configuration using Services".

In the "Start/Stop/Reread" menu, click on "Stop Server".

The licence manager will stop.

To stop either version of the FLEXIm licence manager from a DOS Command Prompt:

cd <asassec>\authfiles

Imutil Imdown -c <asassec>\authfiles\asas.lic

The licence manager will stop.

Now install the FLEXIm Version 9.5 authorisation file as <asassec>\authfiles\asas.lic

During the installation of the ASAS security software, the procedure will set up a desktop icon for Imtools.exe, the FLEXIm licence manager graphical interface.

Once you have installed your FLEXIm authorisation file, asas.lic, in the <asassec>\authfiles directory, start the licence manager.

• To start the FLEXIm Version 9.5 licence manager from the desktop:

Either click on the Lmtools (9.5) icon or

open Explorer, browse to <asassec>lauthfiles and double click on Imtools.exe

In the "Service/License File" menu, click on "Configuration Using Services".

In the "Configure Services" menu:

Check that the path to Imgrd.exe points to "<asassec>\authfiles\Imgrd.exe"

Check that the path to the licence file points to "<asassec>\authfiles\asas.lic"

Check that the path to the debug log file points to "<asassec>\authfiles\debug.log"

Click on "Save Service".

Also, click on "Start server at power up".

In the "Start/Stop/Reread" menu, click on "Start Server".

The licence manager will start.

• To start the FLEXIm licence manager from a DOS Command Prompt:

cd <asassec>\authfiles

Imgrd -c <asassec>\authfiles\asas.lic -l <asassec>\authfiles\debug.log

The licence manager will start.

Once the FLEXIm licence manager is up and running, its status can be checked.

• To check the FLEXIm licence manager status from the desktop:

Either click on the Lmtools (9.5) icon or

open Explorer, browse to <asassec>\authfiles and double click on Imtools.exe

In the "Service/License File" menu, click on "Configuration Using Services".

In the "Server Status" menu:

Click on "Perform Status Enquiry".

The licence manager status will be displayed.

• To check the licence manager status from a DOS Command Prompt:

cd <asassec>\authfiles

Imutil Imstat -A -c <asassec>\authfiles\asas.lic

The licence manager status will be displayed.

The FLEXIm licence manager can also be stopped if required.

To stop the FLEXIm licence manager from the desktop:

Either click on the Lmtools (9.5) icon or

open Explorer, browse to <asassec>lauthfiles and double click on Imtools.exe

In the "Service/License File" menu, click on "Configuration Using Services".

In the "Start/Stop/Reread" menu, click on "Stop Server".

The licence manager will stop.

To stop the FLEXIm licence manager from a DOS Command Prompt:

cd <asassec>\authfiles

Imutil Imdown -c <asassec>\authfiles\asas.lic

The licence manager will stop.

It will be necessary to reset the FLEXIm licence manager path.

To reset the FLEXIm licence manager path from the desktop:

Either click on the Lmtools (9.5) icon or

open Explorer, browse to <asassec>\authfiles and double click on Imtools.exe

In the "Utilities" menu:

Type 'asaslm' as the Vendor Name.

In Path, browse to <asassec>\authfiles\asas.lic

Click on "Override Path".

The FLEXIm licence manager path will be reset.

To reset the FLEXIm licence manager path from a DOS Command Prompt:

cd <asassec>\authfiles

Imutil Impath -override asasIm <asassec>\authfiles\asas.lic

The FLEXIm licence manager path will be reset.

To ensure that all the steps are carried out, here is a summary checklist:

- Stop the old FLEXIm licence manager.
- Delete the files lm*.*, asaslm.exe, debug.log and flexlm.cpl in the <asassec>\authfiles directory
- Save the FLEXIm authorisation file <asassec>\authfiles\asas.lic, or <aqwasec>\authfiles\aqwa.lic, under another name, for example asas72.lic
- Run the new setup_asas_1403_sec.exe or setup_aqwa_56a_sec.exe installation file as required.
- Install the new FLEXIm authorisation file in the <asassec>\authfiles directory.
- Start the new FLEXIm network manager using the Imtools icon, "Configuration using Services" tab and "Start" button.
- · Reset the FLEXIm licence manager path.

4. Installing environment variables.

At this point in the installation process, if you are installing the ASAS-AQWA software on your local machine, and if you have used the default settings for installation directories, etc, you will be able to start running the software.

If, however, your installation is non-standard in some way, perhaps because you have installed the software in non-default directories, or are running across a local or wide area network, you will need to tell the system where your applications and security systems are located.

4.1. Installing environment variables in Windows-95/98.

The installation procedure for the ASAS, AQWA and FEMGV applications software will have added the names of the ASAS, ASAS Visualiser and FEMGV directories to the PATH command in the file C:\autoexec.bat.

If the security software has been installed in non-standard directories, then you must also set up environment variables to point to the security system. Adding the commands in the following format to the file C:\autoexec.bat does this:

- ASAS SET ASAS_AUTH_FILE=<asassec>\authfiles\asas.sec
 For example, SET ASAS_AUTH_FILE=D:\asas\authfiles\asas.sec
- AQWA SET AQWA_AUTH_FILE=<aqwasec>\authfiles\aqwa.sec
 For example, SET AQWA_AUTH_FILE=D:\aqwa\authfiles\aqwa.sec
- FEMGV SET FGVKEY=<fgvsec>\FGV7004\keyfile
 For example, SET FGVKEY=D:\Program Files\Femsys\FGV7004\keyfile
- FLEXIm SET LM_LICENSE_FILE=<asassec>\authfiles\asas.lic For example, SET LM_LICENSE_FILE=D:\asas\authfiles\asas.lic

Note that FGVKEY points to a directory, whereas ASAS_AUTH_FILE, AQWA_AUTH_FILE and LM_LICENSE_FILE all point to files. Also, FGVKEY must point to a directory, not just to a drive.

The computer must be rebooted for these changes to take effect.

4.2. Installing environment variables in Windows-2000.

The installation procedure for the ASAS, AQWA and FEMGV applications software will have added the names of the ASAS, ASAS Visualiser and FEMGV directories to the system PATH.

If the security software has been installed in non-standard directories, then you must also set up environment variables to point to the security system. This is done as follows:

- As the PC administrator, browse to "Control Panel", "System", "Advanced" and "Environment Variables".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "ASAS_AUTH_FILE".
- In the "Variable Value" box, type the full path name of the ASAS authorisation file, for example "D:\asas\authfiles\asas.sec".
- Click "OK".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "AQWA_AUTH_FILE".
- In the "Variable Value" box, type the full path name of the AQWA authorisation file, for example "D:\asas\authfiles\agwa.sec".
- Click "OK".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "FGVKEY".

- In the "Variable Value" box, type the true value of the FEMGV keyfile directory, for example "D:\Program Files\FemsysFGV7004\\keyfile".
- Click "OK".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "LM LICENSE FILE".
- In the "Variable Value" box, type the full pathname of the FLEXIm authorisation file, for example "D:\asas\authfiles\asas.lic".
- Click "OK".
- Exit from the System tool.

Note that FGVKEY points to a directory, whereas ASAS_AUTH_FILE, AQWA_AUTH_FILE and LM_LICENSE_FILE all point to files. Also, FGVKEY must point to a directory, not just to a drive.

The new environment variables will now be applied to the system.

4.3. Installing environment variables in Windows-NT.

The installation procedure for the ASAS, AQWA and FEMGV applications software will have added the names of the ASAS, ASAS Visualiser and FEMGV directories to the system PATH.

If the security software has been installed in non-standard directories, then you must also set up environment variables to point to the security system. This is done as follows:

- As the PC administrator, browse to "Control Panel", "System" and "Environment".
- Click in the "System Variables" window.
- In the "Variable" box, type "ASAS_AUTH_FILE".
- In the "Value" box, type the full path name of the ASAS authorisation file, for example "D:\asas\authfiles\asas.sec".
- Click "Set".
- Click in the "System Variables" window.
- In the "Variable" box, type "AQWA AUTH FILE".
- In the "Value" box, type the full path name of the AQWA authorisation file, for example "D:\asas\authfiles\aqwa.sec".
- Click "Set".
- Click in the "System Variables" window.
- In the "Variable" box, type "FGVKEY".
- In the "Value" box, type the true value of the FEMGV keyfile directory, for example "D:\Program Files\Femsys\FGV7004\keyfile".
- Click "Set".
- Click in the "System Variables" window.
- In the "Variable" box, type "LM_LICENSE_FILE".
- In the "Value" box, type the full path name of the FLEXIm authorisation file, for example "D:\asas\authfiles\asas.lic".
- Click "Set".
- Click "Apply" to exit.

Note that FGVKEY points to a directory, whereas ASAS_AUTH_FILE, AQWA_AUTH_FILE and LM_LICENSE_FILE all point to files. Also, FGVKEY must point to a directory, not just to a drive.

The new environment variables will now be applied to the system.

4.4. Installing on a network in Windows-95/98.

If you are running across a local or wide area network, you will also need to set up your client systems to know where your applications and security systems are located.

First, add the names of the ASAS, ASAS Visualiser, AQWA and FEMGV directories on the host system to the system PATH on the client system. Do this by adding a line of the following form to file C:\autoexec.bat.

SET PATH=%PATH%;<asasapp>;<asasapp>\asas_vis\runtime\bin\pc;<agwapp>;<fgvapp>

Here, the names must include the full shared path name to the installation directory on the host. For example,

SET PATH=%PATH%;\\server1\server1d\asas\asas1403\bin

;\lserver1\server1d\asas\asas1403\bin\asas_vis\runtime\bin\pc

;\\server1\\server1d\\Program Files\\Femsys\\FGV7004

If you are running on a wide area network, then you may have to use the IP address instead of the host name.

For example,

SET PATH=%PATH%;\\31.10.19.44\server1d\asas\asas1403\bin

:\\31.10.19.44\server1d\asas\asas1403\bin\asas vis\runtime\bin\pc

;\\31.10.19.44\server1d\Program Files\Femsys\FGV7004

Similarly, you must also set up environment variables to point to the security system. Adding the commands in the following format to the file C:\autoexec.bat does this:

- ASAS SET ASAS_AUTH_FILE=<asassec>
 For example, SET ASAS_AUTH_FILE=\\server1\\server1\\server1\\asas\\authfiles\\asas.sec
 SET ASAS_AUTH_FILE=\\31.10.19.44\\server1\d\\asas\\authfiles\\asas.sec
- AQWA SET AQWA_AUTH_FILE=<aqwasec>
 For example, SET AQWA_AUTH_FILE=\\server1\\server1\\server1\d\\aqwa\\authfiles\\aqwa.sec
 SET AQWA_AUTH_FILE=\\\31.10.19.44\\server1\d\\aqwa\\authfiles\\aqwa.sec
- FEMGV SET FGVKEY=<fgvsec>\FGV7004\keyfile
 For example, SET FGVKEY=\\server1\\server1\\Program Files\\Femsys\\FGV7004\keyfile
 SETFGVKEY=\\31.10.19.44\\server1d\\Program Files\\Femsys\\FGV7004\keyfile
- FLEXIm SET LM_LICENSE_FILE=<asassec>\asas.lic
 For example, SET LM_LICENSE_FILE=\\server1\\server1d\\asas\\authfiles\\asas.lic
 SET LM_LICENSE_FILE=\\31.10.19.44\\server1d\\asas\\authfiles\\asas.lic

Note that FGVKEY points to a directory, whereas ASAS_AUTH_FILE, AQWA_AUTH_FILE and LM_LICENSE_FILE all point to files. Also, FGVKEY must point to a directory, not just to a drive.

The computer must be rebooted for these changes to take effect.

4.5. Installing on a network in Windows-2000.

If you are running across a local or wide area network, you will need to set up your client systems to know where your applications and security systems are located.

First, add the names of the ASAS, ASAS Visualiser, AQWA and FEMGV directories on the host system to the system PATH on the client system. This is done as follows:

- As the PC administrator, browse to "Control Panel", "System", "Advanced" and "Environment Variables".
- Click on the "Path" variable in the "System Variables" window.
- Click on "Edit".

In the "Variable Value" area, add ",<asasapp>;<asasapp>lasas_vis\runtime\bin\pc;<aqwapp>;<fgvapp>" to the end of the path.

For example, ;\\server1\\server1d\\asas\asas1403\\bin

; \lserver1\server1d\asas\asas1403\bin\asas_vis\runtime\bin\pc

;\\server1\server1d\Program Files\Femsys\FGV7004

If you are running on a wide area network, then you may have to use the IP address instead of the host name.

For example, ;\\31.10.19.44\server1d\asas\asas1403\bin

;\\31.10.19.44\server1d\asas\asas1403\bin\asas_vis\runtime\bin\pc

:\\31.10.19.44\server1d\Program Files\ Femsys\FGV7004

Click "OK".

• Exit from the System tool.

The updated path will now be applied to the system.

If the security software has been installed in non-standard directories, then you must also set up environment variables to point to the security system. This is done as follows:

- As the PC administrator, browse to "Control Panel", "System", "Advanced" and "Environment Variables".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "ASAS_AUTH_FILE".
- In the "Variable Value" box, type the full path name of the ASAS authorisation file, for example "D:\asas\authfiles\asas.sec".
- Click "OK".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "AQWA_AUTH_FILE".
- In the "Variable Value" box, type the full path name of the AQWA authorisation file, for example "D:\asas\authfiles\agwa.sec".
- Click "OK".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "FGVKEY".
- In the "Variable Value" box, type the true value of the FEMGV keyfile directory, for example "D:\Program Files\Femsys\FGV7004\keyfile".
- Click "OK".
- In the "System Variables" window, click on "New".
- In the "Variable Name" box, type "LM_LICENSE_FILE".
- In the "Variable Value" box, type the full path name of the FLEXIm authorisation file, for example "D:\asas\authfiles\asas.lic".
- Click "OK".
- Exit from the System tool.

Note that FGVKEY points to a directory, whereas ASAS_AUTH_FILE, AQWA_AUTH_FILE and LM_LICENSE_FILE all point to files. Also, FGVKEY must point to a directory, not just to a drive.

The new environment variables will now be applied to the system.

4.6. Installing on a network in Windows-NT.

If you are running across a local or wide area network, you will need to set up your client systems to know where your applications and security systems are located.

First, add the names of the ASAS, ASAS Visualiser, AQWA and FEMGV directories on the host system to the system PATH on the client system. This is done as follows:

- As the PC administrator, browse to "Control Panel", "System", and "Environment".
- Click on the "Path" variable in the "System Variables" window.
- In the "Value" area, add ";<asasapp>;<asasapp>lasas_vis\runtime\bin\pc;<aqwapp>;<fgvapp>" to the end of the path.

For example, ;\lserver1\server1d\asas\asas1403\bin

;\\server1\server1d\asas\asas1403\bin\asas_vis\runtime\bin\pc

;\\server1\server1d\Program Files\Femsys\FGV7004

If you are running on a wide area network, then you may have to use the IP address instead of the host name.

For example, ;\\31.10.19.44\server1d\asas\asas1403\bin

;\\31.10.19.44\server1d\Program Files\Femsys\FGV7004

Click "Apply" to exit.

The updated path will now be applied to the system.

If the security software has been installed in non-standard directories, then you must also set up environment variables to point to the security system. This is done as follows:

- As the PC administrator, browse to "Control Panel", "System", and "Environment".
- Click in the "System Variables" window.
- In the "Variable" box, type "ASAS_AUTH_FILE".
- In the "Value" box, type the full path name of the ASAS authorisation file, for example "D:\asas\authfiles\asas.sec".
- Click "Set".
- Click in the "System Variables" window.
- In the "Variable" box, type "AQWA_AUTH_FILE".
- In the "Value" box, type the full path name of the AQWA authorisation file, for example "D:\asas\authfiles\aqwa.sec".
- Click "Set".
- Click in the "System Variables" window.
- In the "Variable" box, type "FGVKEY".
- In the "Value" box, type the true value of the FEMGV keyfile directory, for example "D:\Program Files\Femsys\FGV7004\keyfile".
- Click "Set".
- Click in the "System Variables" window.
- In the "Variable" box, type "LM LICENSE FILE".
- In the "Value" box, type the full path name of the FLEXIm authorisation file, for example "D:\asas\authfiles\asas.lic".
- · Click "Set".
- Click "Apply" to exit.

Note that FGVKEY points to a directory, whereas ASAS_AUTH_FILE, AQWA_AUTH_FILE and LM_LICENSE_FILE all point to files. Also, FGVKEY must point to a directory, not just to a drive.

The new environment variables will now be applied to the system.

4.7. Testing the environment variables.

Having set the environment variables, they can be tested simply, without the need to run any of the ASAS, AQWA or FEMGV programs.

From a DOS Command Prompt:

Type 'dir %AQWA AUTH FILE%'

You should see a listing of the <aqwasec>\authfiles directory, but displaying only aqwa.sec, the AQWA authorisation file.

Type 'dir %ASAS AUTH FILE%'

You should see a listing of the <asassec>\authfiles directory, but displaying only asas.sec, the ASAS authorisation file.

Type 'dir %FGVKEY%'

You should see a listing of the entire <fgvsec>\FGV7004\keyfile directory, including fgvkey.k70, the FEMGV authorisation file.

• Type 'dir %LM_LICENSE_FILE%'

You should see a listing of the <asassec>\authfiles directory, but displaying only asas.lic, the FLEXIm authorisation file.

If the output does not correspond to the above, then you should review the settings of your environment variables.

5. Testing the installed programs.

5.1. Testing the ASAS installation.

The installation procedure will have created a set of test directories under the <asasapp> directory. Only run the tests for those packages for which you are licensed; if you try to run the tests for packages for which you are not licensed, you will get error messages of the form 'You are not licensed to run this program'.

- To run the installation tests from the desktop:
 - ♦ To perform the tests on the CONCRETE programs:

Browse to the *<asasapp>\demo\testconc* directory.

Double click on the Testall.bat file.

♦ To perform the tests on the LINEAR programs:

Browse to the <asasapp>\demo\testlin directory.

Double click on the Testall.bat file.

♦ To perform the tests on the NONLINEAR programs:

Browse to the <asasapp>\demo\testnl directory.

Double click on the Testall.bat file.

♦ To perform the tests on the OFFSHORE programs:

Browse to the <asasapp>\demo\testos directory.

Double click on the Testall.bat file.

♦ To perform the tests on the PANEL programs:

Browse to the <asasapp>\demo\testpanl directory.

Double click on the Testall.bat file.

♦ To perform the tests on the SUPERPACK programs:

Browse to the <asasapp>\demo\testsup directory.

Double click on the Testall.bat file.

- To run the installation tests from a DOS Command Prompt:
 - ♦ cd <asasapp>\demo
 - ♦ Type one of the following:

test all To perform all tests

test concrete
test linear
test linear
test nonlinear
test offshore
test panel
test superpack
To perform the tests on the LINEAR programs
To perform the tests on the NONLINEAR programs
To perform the tests on the OFFSHORE programs
To perform the tests on the PANEL programs
To perform the tests on the SUPERPACK programs

• On completion of each test, a series of *.dif files will have been created in the corresponding test directory. These are the results of comparisons between the results just produced and a set of standard results supplied with the installation. Examine these difference files to ensure that the tests have run satisfactorily.

If your ASAS system is licensed to run with the high speed solver, the only differences should be the dates and times of execution.

If your ASAS system is licensed to run with the slow speed solver, the output from the tests for the LINEAR, NONLINEAR, OFFSHORE and SUPERPACK tests will show additional differences. The output from the standard results for the ASAS program will have been created with the 'OPTIMISED FRONTAL SOLUTION OPERATING', whereas the output from your own run will have been created with the 'INCORE SOLUTION OPERATING'. There will then be additional minor differences between the two sets of results for the ASAS program, and for the results from the post-processing programs.

5.2. Testing the AQWA installation.

The installation procedure will have created a test directory under the <aqwapp> directory. Run the installation test from a DOS Command Prompt:

- ♦ cd <aqwapp>\utils
- ▲ tost
- Wait until the output display is complete, and then close the message window.
 You will now be in the test directory.

This will run and verify the test, and will produce a series of *.dif files in the <aqwapp>\test directory. These are the results of comparisons between the results just produced and a set of standard results supplied with the installation. Examine these difference files to ensure that the tests have run satisfactorily; the only differences should be the dates and times of execution.

5.3. Testing the FEMGV installation.

The installation procedure will have created a set of demonstration directories in the <fgvapp> directory and an FEMGV icon on the desktop. To run the installation tests:

- Double click on the FEMGV icon.
- Click on "File" and then "Select Working Directory".
- Browse to the directory <fgvapp>\share\demo, and click "OK".
- Type "@welcome" at the "FGV>" prompt.
- Follow the instructions to run the FEMGV demonstration.