



NetOpacs 5.4 Installation Guide

Version 5.4

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WELCOME

Welcome to the *NetOpacs 5.4* Installation Guide.

Details on installing other components (such as the *Amlib Client, ZServer* and *DIY Self Issues*) are available in separate module specific Installation Guides.

OVERVIEW

The installation of the *NetOpacs* involves the following steps:

- 1. Install the Amlib NetOpacs 5.4 application
- 2. Configure the Amlib NetOpacs connection settings
- 3. Configure the NetOpacs WebConsole
- 4. Install the *FireDaemon Service Manager*
- 5. Configure the FireDaemon Service Manager
- 6. Start the Amlib NetOpacs as a Service

BEFORE YOU BEGIN THE INSTALLATION...

Read the Installation Notes First

Please carefully read the entire installation guide prior to commencing the actual *NetOpacs* release update.

If you have any questions please log a support call on TOPdesk at <u>https://servicedesk.oclc.org/tas/public/index.jsp</u>. If you do not know your TOPdesk login please email <u>support-amlib@oclc.org</u> and we will send it to you.

Serial Numbers Required for Installation of Amlib Modules

The *Amlib NetOpacs 5.4* installation requires a serial number. If you did not receive a serial key for the modules that your library has purchased you should contact <u>OCLC (UK) Limited</u> before commencing the installation.

Frequently Asked Questions

Question: How much space do I need to have on my server?

• This will vary from library to library. Generally libraries should ensure they have at least 5 Gb free space on their database server

Question: Do I need to install IIS?

• Yes. Windows must be installed with full IIS (see <u>Appendices</u> for more details)

Question: Do I need to have a completed backup of my system before proceeding? (Server Migrations Only)

• Yes. OCLC (UK) Ltd recommends that the library verify that you backup your Amlib NetOpacs folder (for example: C:\Netopacs)

Question: Do all users need to be logged out of Amlib? (Server Migrations Only)

- Yes. All users should be completely logged out from all Amlib client modules
- The NetOpacs WebConsole should also be shutdown

Question: Can OCLC (UK) Ltd install Amlib NetOpacs for me?

• Yes. OCLC (UK) Ltd can arrange for the remote installation for a small fee

Question: How do I know whether Amlib is loaded locally on my NetOpacs server?

- Right-click on the *Amlib* icon on your desktop and select **Properties** the <u>Amlib Toolbar</u> <u>Properties</u> window will display
- The <u>Target</u> field will show you where your *Amlib* is installed:
 - a. If it has something like **C:\Amlib** (or **D:\Amlib**, **E:\Amlib** depending on the hard drives in your computer) then it is installed locally

Amlib Toolbar Properties				
Security	Details	Previous Versions		
General	Shortcut	Compatibility		
Amlib Toolbar				
Target type: Application				
Target location: Amlib				
Target: C	:\Amlib\Amlibtop.exe	;		

- b. If it starts with two back slashes (\\) and then a name or IP address, it is installed on a server:
- If you are having trouble identifying where Amlib is installed please contact your IT department or Amlib Support for assistance

Amlib Toolbar Properties					
Security Details Previous Versions					
General	General Shortcut Compatibility				
Amlib	Toolbar plication lib amlibserv\Amlib\Am	libtop exe			

AMLIB SUPPORTED OPERATING SYSTEMS & SYSTEM REQUIREMENTS

Operating System	 Windows 2000, 2003, 2008
	• Linux (and Unix)
RDBMS	• Microsoft SQL Server 2000, 2005, 2008 R2
	• Oracle 9i, 10g
Memory (RAM)	 Depends on operating system, volume & RDBMS selected
	Minimum 2GB RAM for SQL Server
	Minimum 2GB RAM for <i>Oracle</i>
Hard Disk	Depends on volume. Using multiple Fast SCSI-3 Disk Drives (for
	example: more SCSI drives provides better performance)
Backup	• Removable backup device (for example: 4mm DAT Tape Drive)

Database Server

NetOpacs (Web Opac) Application Web Server

Operating System	• Windows 2000, 2003, 2008 with I/S pre-installed
Memory (RAM)	 Depends on operating system and volume Minimum 2GB RAM for <i>Windows 2003/2008</i>

Please Note: Although NetOpacs can operate on the same Amlib Database Server, it is recommended that medium to large libraries should implement a dedicated NetOpacs Server for maximum performance & security.

PC Client (for Client Server Modules including Offline)

Operating System	• Windows XP, 2000, Vista, Windows 7
Memory (RAM)	Minimum 256 Mb for <i>Windows XP</i>
	Minimum 256 Mb for <i>Windows 2000</i>
	Minimum 1GB for <i>Windows 7</i>
	Minimum 1GB for Windows Vista
Display	• SVGA (800x600) minimum
Web Browser	Internet Explorer 7 and above (will also work with other JAVA enabled
	browsers)

• Important Note: the above requirements are provided as a general guideline only

IIS Requirements

The following features/service roles will be required prior to NetOpacs installation:

- IIS Management Compatibility (IIS 6 Compatibility) and all sub items
- ISAPI Extensions

SECTION 1: NETOPACS CLIENT INSTALLATION

Please Note: This process is only for libraries that have purchased this optional module.

Depending on the library configuration the *Amlib NetOpacs* module will either be installed on the library database server (generally most school libraries) OR will be installed on a separate web server (generally public and all other libraries).

The advantages of installing on a separate web server rather than on the database server are:

- increased security by preventing external access to the database server
- increased performance with separate server dedicated to handle *NetOpacs* processing requirements

Before installing *NetOpacs* on your server you will need to ensure that *Microsoft IIS* components (*Internet Information Services*) have been installed within your *Windows* server environment.

For most *Windows* operating systems *IIS* is not installed by default. To check whether *IIS* has been installed on your server, see: <u>Appendix A: Install IIS on Windows 7 or Vista</u>.

Default Installation Folders

To assist with email support we highly recommend that the default installation folders suggested in the following notes are retained.

For example:

• Amlib NetOpacs software: C:\Netopacs (or D:\Netopacs, E:\Netopacs)

Step 1: Shutdown the Old NetOpacs (Server Migrations Only)

It is important that before installing the new *NetOpacs* release software that the *NetOpacs* WebConsole is shutdown (including all *NetOpacs* processes). Alternatively, if you may be running your *NetOpacs* as a Service or using a Service Manager to run your *NetOpacs* (for example: *FireDaemon*) then you should stop your *NetOpac* processes in the Manager.

To shut down your NetOpacs (run via the WebConsole)

1. On your *NetOpacs* server, right-click on the *NetOpacs* WebConsole "traffic lights" in your Windows system tray at the bottom-right of the screen and select **Exit**:



2. The "traffic lights" and all *NetOpacs* icons on the Windows taskbar will disappear once *NetOpacs* has successfully shutdown

To shut down your NetOpacs (run as a service)

If your server has the *Amlib* Web Monitor icon (icon is a PC with "cog") in your Windows "tray it means that *NetOpacs* has been installed as a service.

1. On your *NetOpacs* server, stop the *NetOpacs* service either by a right-clicking on the *Amlib* Web Monitor and choosing **Stop**, or via the Windows Services screen:



To shut down your NetOpacs (run via a Service Manager – for example: FireDaemon)

If your web server has neither the "traffic light" nor "cog icon" in the system tray, the *NetOpacs* may be running as a *FireDaemon* service.

 On your NetOpacs server, go to Start > All Programs > FireDaemon OEM > FireDaemon Service Manager – the <u>FireDaemon OEM Service Manager</u> screen will display:

😧 FireDaemon OEM Service Manager v1.9 GA					
<u>File Service Help</u>					
12 27 × × → ■ → → ■	2 🔽	₽			
Service	Status	Process	Startup Type	User	
FireDaemon Service: AmlibNetOpac	Running	Running	Automatic	LocalSystem	
~		_			

2. Highlight the *Amlib NetOpacs* service and click the **Stop** button



Step 2: Install the NetOpacs 5.4 Client

IMPORTANT: Please ensure that you have **full read/write** access to the **\NetOpacs** folder on your server (for example: **C:\NetOpacs**) and that you are logged in with <u>Administrative Privileges</u>.

- The NetOpacs 5.4 installer is available on the OCLC Website, under <u>Setup</u> <u>Programs>NetOpacs</u>: <u>https://www.oclc.org/support/services/amlib/downloads-software-updates/version5-4/setup-programs.en.html</u> (contact Amlib support if you require a login to this website)
- 2. Download the NetOpacs54Setup.exe and save it on your Amlib NetOpacs server
- 3. Double-click the **NetOpacs54Setup.exe** to launch the installation Wizard the <u>Setup Amlib</u> <u>NetOpacs</u> screen will open displaying the **Welcome** message
- 3. Click the **Next** button the <u>Serial</u> screen will display, prompting you for valid <u>Serial</u> Number:

📴 Setup - Amlib NetOpacs	- • ×
Serial This product requires a valid Serial Number from OCLC (UK) Limited before installation can continue.	õ
Please enter the Serial Number supplied by OCLC (UK) Limited, then click N continue. Serial numbers are case-sensitive.	ext to
<u>S</u> erial:	
•••••	
< <u>B</u> ack Next >	Cancel

- 4. Enter the Serial Key supplied by OCLC (UK) Limited (case sensitive!) then
- 5. Click the **Next** button the <u>Installation Location</u> screen will display
- 6. Enter the drive/folder location where you would like to install the *Amlib NetOpacs* we recommend that the *Amlib NetOpacs* be installed in **C:\Netopacs** (or **D:\Netopacs**, etc)

😼 Setup - Amlib NetOpacs	- • •
Select the Installation Location Where is Amlib NetOpacs to be installed?	õ
Setup will search for the existing folder where Amlib NetOpacs is installed. (If it is unable to find the existing folder a default folder v displayed)	currently vill be
To continue, click Next. If you would like to select a different folder, click I C:\Netopacs	Browse
At least 0.8 MB of free disk space is required.	
< Back Next >	Cancel

7. Click the **Next** button – the <u>Select Components</u> screen will display:

Setup - Amlib NetOpacs	
Select Components Which components should be installed?	õ
Select the components you want to install; clear the components you do no install. Click Next when you are ready to continue.	ot want to
 Select Modules To Install Amlib NetOpacs Module and Program Files Select Web Server Tasks Create NetOpacs Virtual Directory in IIS (amlibweb) 	
Current selection requires at least 46.8 MB of disk space.	
< <u>B</u> ack Next >	Cancel

- 8. <u>Choose</u> which components should be installed:
 - a. <u>Select Modules To Install</u>:
 - Amlib NetOpacs Module and Program Files
 - b. <u>Select Web Server Tasks</u>:
 - Create NetOpacs Virtual Directory in IIS (amlibweb)

 (DO NOT select this option if you are reinstalling the NetOpacs Client and the Amlibweb virtual folder already exists)

 Please Note: see Appendix B: IIS Virtual Folder Configuration if you would like to manually configure the virtual folder (or would like to create an additional virtual folder)
- 9. Select ALL options and click the **Next** button the <u>Database Relation Management System</u> (RDBMS) screen will display:

🔂 Setup - Amlib NetOpacs		- • 💌			
Database Relational Managem Select the Database Relational M	ent System lanagement System for Amlib	O			
Please select the Relational Database Management System					
Microsoft SQL Server	It is very important to select the correct Relational Database Management System.				
Oracle	Selecting the incorrect implementation of the Relational Database Management System cause incorrect operation of Amlib and possible data loss.	e will			
	If you are unsure of the Relational Databas Management System in use at your Organisation please contact your systems administrator or OCLC (UK) Limited before continuing.	e			
	< <u>B</u> ack <u>Next</u> >	Cancel			

Please Note: Gupta SQLBase is not supported by Amlib version 5.4.

- 10. Please select the RDBMS you are using:
 - a. If your library is using *Microsoft SQL Server* for *Amlib*:
 - i. Select the Microsoft SQL Server radio button
 - ii. Click the **Next** button the <u>Configure the SQL ini file</u> screen will display prompting you for additional information:

📳 Setup - Amlib NetOpacs	- • -
Configure the SQL ini file Enter the details required to configure the sql.ini file	Ì
Please enter the database server name	
SERVERNAME	
For Microsoft SQL Server the name will be the machine network name.	
Please enter the database server IP address	
127.0.0.1	
Please enter the SQL Server ODBC driver name	
SQL Server	
To accept the defaults click Next	
< <u>B</u> ack <u>N</u> ext >	Cancel

(The **SQL.ini** file is configuration file containing the pathway information which allows the *Amlib NetOpacs Client* to connect with the *Amlib* databases)

- <u>Please enter the (SQL Server) database server name</u> default display is current local machine name (for example: **tardis**)
- <u>Please enter the database server IP address</u>- default display is current local machine IP address (for example: **127.0.0.1** for localhost)
- <u>Please enter the SQL Server ODBC driver name</u> the driver name is normally SQL Server so there is no need to change this field
- iii. Enter options and click the Next button
- b. If your library is using *Oracle* for *Amlib*:
 - i. Select the Oracle radio button
 - ii. Click the Next button

11. The <u>Select Start Menu Folder</u> screen will display:

📴 Setup - Amlib NetOpacs	
Select Start Menu Folder Where should Setup place the program's shortcuts?	T
Setup will create the program's shortcuts in the following Start M	enu folder.
To continue, click Next. If you would like to select a different folder, click	Browse.
Amlib NetOpacs Module	B <u>r</u> owse
< <u>B</u> ack Next >	Cancel

12. To accept the default name (for most customers), click the Next button – the <u>Select</u> <u>Additional Tasks</u> screen will display, prompting if you wish to install a desktop icon for the *Amlib Client*:

Betup - Amlib NetOpacs	- • •
Select Additional Tasks Which additional tasks should be performed?	õ
Select the additional tasks you would like Setup to perform while installing NetOpacs, then click Next.	Amlib
Install Desktop Icons	
Install desktop icons for selected Components	
< <u>B</u> ack Next >	Cancel

13. (You can unselect <u>Install desktop icons for selected Components</u> if you do not wish to install the *Amlib* icons on the desktop)

14. Click the **Next** button to continue – the <u>Ready to Install</u> screen will display with a summary of the installation tasks to be performed:

🔂 Setup - Amlib NetOpacs	- • •
Ready to Install Setup is now ready to begin installing Amlib NetOpacs on your computer.	S
Click Install to continue with the installation, or click Back if you want to rev change any settings.	iew or
Destination location: C:\Netopacs	^
Setup type: Select Items To Install	E
Selected components: Select Modules To Install Amlib NetOpacs Module and Program Files Select Web Server Tasks Create NetOpacs Virtual Directory in IIS (amlibweb)	
Start Menu folder:	Ŧ
4	4
< <u>B</u> ack Install	Cancel

- 15. Click the **Install** button the <u>Installing</u> screen will display:
- 16. Once the installation is complete, click the **Finish** button
- 17. The setup Wizard will close

Installation of the Amlib 5.4 NetOpacs is now complete.

Notes (Server Migrations Only)

For libraries who have configured their web server with multiple *NetOpacs* installation folders on the one server (for example: have *NetOpacs* installed in **c:\Netopacs** and **c:\Netopacs2**) will need to repeat the installation steps 3 – 15 for each additional *NetOpacs* folder, remembering to change the name of the Installation Location at step 6.

SECTION 2: NETOPACS CONNECTION SETTINGS CONFIGURATION

Step 1: NetOpacs Amlib.ini Settings

1. On the *NetOpacs* server, navigate to your **Netopacs** folder and open up the **Amlib.ini** file in *Notepad*:

G → My Computer → OS (C:) → Netopacs →		✓ Search Netopac	ع ک	
Organize 🔻 🔛 Open 💌 Print Burn New folder			i≡ - 1 0	
🔶 Favorites	Name Mamcalendar.js	Date modified	Type Size Size	
E Desktop	AMGMem.dll	25/07/2003 1:40 PM	DLL File	
Downloads	Amlib.ini	24/11/2011 7:27 PM	Notepad++ Docu	
Recent Places	AmlibNetSecurity.xml	22/02/2011 1:50 PM	Notepad++ Docu	
	AMMarc.dll	22/10/2003 1:42 PM	DLL File	
Cal Libraries	amnetopacs.js	22/02/2011 1:50 PM	Notepad++ Docu	
Documents	AMShell.dll	14/03/2003 1:17 PM	DLL File	
Music	AMWPics.dll	25/07/2003 11:26	DLL File	
Pictures	📄 atl71.dll	4/08/2005 3:36 AM	DLL File	
- Videos	Base64.dll	10/10/2003 12:22	DLL File	

- 2. Under the heading [NetOpacs] the following settings will need to be verified:
 - a. SQL Databases: this should match the name of the Live (or production) databases set up in *SQL Server* (these databases utilise a default **AM** prefix):
 - DatabaseLib=Amlib
 - DatabaseCat=Amcat
 - DatabaseLocal=Amlocal
 - DatabaseStats=Amstats

DatabaseWeb=Amweb



<u>Please Note</u>: Most *Amlib* customers prior to 2007 will need to configure this as **DatabaseWeb=Amcat** if they do not have an **AMWEB** database.

 SQL Databases Login: this should utilise the NETOPACS Login previously setup in your SQL Server – this Login MUST be mapped to ALL the Amlib SQL databases with db_owner role membership (see <u>Appendix C: Setup SQL Server User Security</u> for more information):

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- DatabaseUser =NETOPACS
- DatabasePw=NETOPACS

Please Note: It is possible to utilise the **SYSADM** Login in place of the **NETOPACS** Login, or the user can define (and use) their own SQL Server Login.

c. Location: this should utilise the **WEB** Location previously setup in your *Amlib* client (see <u>Appendix E: Configure a WEB Location in Amlib</u> for more information):

Second States - STAFF at	Chelsea Library			
<u>M</u> ain LibraryMenu				
F1 New F2 Insert	F3 Save F4 Delet	e F5 Query F6 Print F7 NetWk F8 Plans F9 Hours		
Library Group Code	D Locn Code	Location Description		
LIBRARY	BELMONT	Belmont Library		
LIBRARY	CHELSEA	Chelsea Library		
LIBRARY	HASTINGS	Hastings Library		
LIBRARY	HOME	Home Library Service		
LIBRARY	PROCESSING	Library Processing		
LIBRARY	STACK	Stack		
LIBRARY	WEB	Web		
MOBILE	MOBILE	Mobile Library		

• Location=WEB

Please Note: It is possible to utilise a different (branch) Location in place of the **WEB** Location (for example: **LIB** or **CHELSEA**). The use of a separate **WEB** Location is so that a unique set of loan rules can be configured for *NetOpac* users.

d. Hostname={name or TCP/IP address of webserver}/amlibweb

For example:	Hostname=localhost/amlibweb
or	Hostname=tardis/amlibweb
or	Hostname=203.192.150.3/amlibweb

🗎 An	lini
10	[NetOpacs]
11	; Amlib Database Names & NetOpac Login Information
12	DatabaseLib=Amlib
13	DatabaseCat=Amcat
14	DatabaseLocal=Amlocal
15	DatabaseStats=Amstats
16	DatabaseWeb=Amweb
17	DatabaseUser=NETOPACS
18	DatabasePw=NETOPACS
19	Location=WEB
20	SqlIniFile=C:\Netopacs
21	Hostname=SERVERNAME/amlibweb
22	FullHost=/amlibweb/webquery.dll?
2.2	· disconnect often no patimity from detabase

Step 2: NetOpacs SQL.ini Settings

 On the *NetOpacs* server, navigate to your **Netopacs** folder and open up the **SQL.ini** file in *Notepad*:

Search Netopacs					
Organize 🔻 🔛 Open 💌 Print Burn New fo	lder			•== •	0
☆ Favorites	^	Name	Date modified	Туре	Siz(🔦
Desktop		readme sharing.txt	27/09/2000 4:08 PM	Notepad++ Docu	
Downloads	Ξ	readme.txt	10/06/1999 3:02 PM	Notepad++ Docu	
📃 Recent Places		🛋 snumi41.dll	4/08/2005 4:30 AM	DLL File	
		SQL.ini	24/11/2011 7:27 PM	Notepad++ Docu	
词 Libraries		📄 sqlbapw.dll	4/08/2005 3:24 AM	DLL File	
Documents		SQLBASEOLEDB.dll	4/08/2005 3:24 AM	DLL File	

- 2. Under the heading [win32client.dll] ensure that the correct database connector is being used:
 - a. SQL Server: comdll=sqlodb32
 - b. Oracle: comdll=sqlora32
 - c. SQL Base (no longer in use in Amlib 5.4): comdll=sqlws32

SQL Server Users

Under the heading [Odbcrtr] enter in the SQL Server file paths for the Live databases:

- REMOTEDBNAME=**AMCAT**, DRIVER=SQL Server; SERVER=**SERVERNAME****INSTANCENAME**; DATABASE=**AMCAT**
- REMOTEDBNAME=AMLIB,DRIVER=SQL Server;SERVER=SERVERNAME\INSTANCENAME;DATABASE=AMLIB
- REMOTEDBNAME=AMLOCAL, DRIVER=SQL Server; SERVER=SERVERNAME\INSTANCENAME; DATABASE=AMLOCAL
- REMOTEDBNAME=AMSTATS, DRIVER=SQL Server; SERVER=SERVERNAME\INSTANCENAME; DATABASE=AMSTATS
- REMOTEDBNAME=AMWEB,DRIVER=SQL Server;SERVER=SERVERNAME\INSTANCENAME;DATABASE=AMWEB

If there is ";NETWORK=dbmssocn;ADDRESS=ipaddress" on the end of each line please remove it

Replace **SERVERNAME** with the actual *SQL Server* name and **INSTANCENAME** with the actual instance (the default instance name is usually **SQLEXPRESS**).

These can be seen when you log into SQL Server:

🗄 🚞 Server Objects

🗄 🚞 Replication

🗄 🚞 Management

66	[Odbertr]
67	; The following is for the ODBC / SQLServer router. The DSN keyword will
68	; be the same as the System Data Source setup in the ODBC32 setup
69	; in Control Panel
70	longbuffer=20000
71	REMOTEDBNAME=AMCAT,DRIVER=SQL Server;SERVER=SERVERNAME\SQLEXPRESS;DATABASE=AMCAT
72	REMOTEDBNAME=AMLIB,DRIVER=SQL Server;SERVER=TARDIS\SQLEXPRESS;DATABASE=AMLIB
73	REMOTEDBNAME=AMLOCAL, DRIVER=SQL Server; SERVER=TABDIS\SQLEXPRESS; DATABASE=AMLOCAL
74	REMOTEDBNAME=AMSTATS,DRIVER=SQL Server;SERVER=TARDIS\SQLEXPRESS;DATABASE=AMSTATS
75	REMOTEDBNAME_AMWEB,DRIVER=SQL Server;SERVER=TARDISSQLEXPRESS;DATABASE=AMWEB
	🌆 Microsoft SQL Server Management Studio
	File Edit View Debug Tools Wingtow Community Help
	Object Explorer - 4 × Object Explorer De
	Connect - 🔜 🛃 - 🝸 🛃 🚳 🚳 🖄 🤿 🖄
	TARDIS\SQLEXPRESS QL Server 10.50.1617 -
	+ Detabases
	🗉 🦢 Security 💦 Name

🚞 Databases

Server Objects

Security

HINT: It is possible to open the **Amlib** folder **SQL.ini** file in *Notepad* and copy (and paste) the same settings from within that file.

Oracle Users

If *Oracle* was selected (**commdll=sqlora32**) was selected in the [**win32client.dll**] section then this section is used to determine the *Oracle* database alias used within the *Oracle SQL*Net* (also known as *Net8 Client*).

Under the heading [ORAGTWY] enter in the Oracle file path(s) for the Live database(s):

- REMOTEDBNAME=AMLIB,@AMLIB
- REMOTEDBNAME=TELIB,@TELIB
- SUBSTITUTE=SYSSQL.,
- SUBSTITUTE=syssql.,
- longbuffer=900000
- MAPERROR=OFF
- fetchrow=100

37

The format of this keyword is remotedbname={[database name],@[SQL*Net database alias]}.

38 🗧	[ORAGTWY]
39	;
40	; This section is for Oracle Router. The REMOTEDBNAME maps the application's
41	; database name to the Oracle SQL*Net connect string. The SUBSTITUTE
42	; keyword replaces the first parameter with the second parameter. It is mainly
43	; used to replace the user id in a Catalog Command Query. This's only needed
44	; when you run Quest against Oracle v7, when you run Quest against Oracle6
45	;you must remove or comment this line out.
46	;
47	REMOTEDBNAME=AMLIB, @AMLIB
48	REMOTEDBNAME=TELIB, @TELIB
49	SUBSTITUTE=SYSSQL.,
50	SUBSTITUTE=syssql.,
51	longbuffer=900000
52	MAPERROR=OFF
53	fetchrow=100
54	

SECTION 3: WEBCONSOLE CONFIGURATION

After installation, the *NetOpacs WebConsole* requires some additional configuration via the *WebConsole* application interface.

1. Install *FireDaemon* which can be located within the *NetOpacs* installation directory:

Drive:\Netopacs\Utility\ firedmn_setup.exe – for example: C:\Netopacs\ Utility\ firedmn_setup.exe

- 2. Continue the installation with all default settings. Also answer **Yes** to the two prompts during the installation. After the installation is complete, if possible restart the server.
- 3. From the *Start* menu, select the **Run...** command (or type **run** in the <u>Search programs and</u> <u>files</u> box and press <enter>) the <u>Run</u> prompt will display:

🖅 Run	
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	c:\Netopacs\webcon.exe /configure 👻
	This task will be created with administrative privileges.
	OK Cancel <u>B</u> rowse

4. Type in the path to open the WebConsole in the following format:

Drive:\Netopacs\webcon.exe /configure – for example: C:\Netopacs\webcon.exe /configure

5. The <u>Amlib WebConfigure</u> screen will display with:



6. From the menu, select Service > Configure

7. The <u>Service – Configure</u> screen will display:

Service - Configure
Options WebQuery
Application
netopacs.exe Browse
Instance Options
Display Name Amlib WebConsole
Application Instances 3
Service Instances 3
- IIS Options
Virtual Directory amlibweb
Script Name webquery.dll
OK Cancel

- 8. Ensure the following field settings are selected:
 - a. Application: netopacs.exe
 - Display Name: Amlib WebConsole this can be changed to be something more appropriate – for example: Senior Library NetOpacs
 - <u>Application Instances</u>: number of instances when running the *NetOpacs* as an application (multiple instances allows for multiple simultaneous transactions public libraries should change the number to **5** or more; libraries with only one *NetOpacs* terminal can change to **1**; Recommended **3**)
 - d. <u>Service Instances</u>: number of instances when running the *NetOpacs* as a service
 - e. <u>Virtual Directory</u>: **amlibweb** (this is the default *IIS* virtual directory name) it is possible to setup the *IIS* virtual directory as part of the *NetOpacs* installation see <u>Section 1: Step 2.8</u>)
 - f. <u>Script Name</u>: webquery.dll
- 9. Now select the **WebQuery** tab the <u>WebQuery</u> screen will display:

Service - Add
Options WebQuery
Error Template
C:\Netopacs\Error.htm Browse
Options
TimeOut (sec) 60
If more than one Web Application is loaded use:
C One Application more than any other
OK Cancel

- 10. Ensure the parameters settings are correct with the following field settings:
 - a. <u>Error Template</u>: C:\Netopacs\Error.htm (if the NetOpacs have been installed anywhere other than the default location, you may need to click the Browse button and navigate to the location where the Error.htm is held and select it)
 - b. <u>TimeOut</u>: default = **60** seconds. This can changed to a higher value if necessary.
 - c. If more than one Web Application is loaded use: select All Applications evenly
- 11. Click the **OK** button a prompt with the following message will display:

The changes you have made will not take effect until 'Amlib WebConsole' is restarted. Do you want to restart 'Amlib WebConsole'?



12. Click the Yes button

Configure NetOpacs as a FireDaemon Service

We recommend that *NetOpacs* is configured as a *FireDaemon* Service. This is covered in **Section 6.**

SECTION 4: SETUP NETOPAC PAGES

Location of NetOpac Pages

Most libraries will be running one (or more) set(s) of *customised NetOpacs* pages. These pages (and the associated image, *CSS* and *JavaScript* files) are usually located in the **Netopacs/Samples** folder on the *NetOpacs* server – for example:

- C:\Netopacs\Samples\A99_NewStyle or
- C:\Netopacs\Samples\oclcweb

Some libraries may have their *NetOpacs* pages located in an entirely separate folder – for example:

• C:\Netopacs\Live\oclcweb

A typical *NetOpac* web older will contain a set of pages (and folders) as follows:

- **css** folder
- Icons folder
- Javascript folder
- Webpics folder
- .htm files (web pages)
- .ini configuration file

G ↓ My Computer → OS (C:) → Netopacs → Sample	s ▶ 51_EasyTabs ▶	▼ 4 Search 51_Eas	yTabs	P
Organize 👻 Include in library 👻 Share with 💌 Burn	New folder		:≡ ▼ 🚺	0
A	Name	Date modified	Туре	Siz 📤
My Computer	\mu css	24/11/2011 7:26 PM	File folder	
🖀 OS (C:)	퉬 Icons	24/11/2011 7:26 PM	File folder	
	퉬 Javascript	24/11/2011 7:26 PM	File folder	=
	AllFieldsKeyword.htm	25/10/2006 8:44 AM	HTM File	-
	AuthList.htm	4/05/2006 12:14 PM	HTM File	
	AuthorKeyword.htm	25/10/2006 8:45 AM	HTM File	
	BorChangeAddress.htm	4/05/2006 12:14 PM	HTM File	
E	BorInterests.htm	4/05/2006 12:14 PM	HTM File	
	BorRequest.htm	4/05/2006 12:14 PM	HTM File	
	Borrower.htm	4/05/2006 12:14 PM	HTM File	
	BorShow.htm	4/05/2006 12:14 PM	HTM File	
	CatalogueList.htm	4/05/2006 12:14 PM	HTM File	
	HotTopics.htm	4/05/2006 12:14 PM	HTM File	
	HotTopicsItemList.htm	4/05/2006 12:14 PM	HTM File	-
T	•			•

Step 1: Copy the NetOpac Web Pages

- 1. On the (old) *NetOpacs* server, navigate to the folder containing your current *NetOpacs* pages and make a copy of the folder (and its contents) [*Server Migrations Only*]
- 2. On the (new) *NetOpacs* server, paste in the folder containing your *NetOpac* pages (and its contents) into the **NetOpacs/Samples** folder

Step 2: Amlibweb Virtual Directory Files

As part of the *NetOpacs* client installation, an **Amlibweb** virtual directory folder will installed in the **NetOpacs** folder (for example: **C:/Netopacs/Amlibweb**). This is the folder that *IIS* uses foundation of the *NetOpacs* web site. As such, it needs to contain a copy of any files being referred to by these pages. The **Amlibweb** folder also contains the **webquery.dll** file, which essentially "powers" many of the *NetOpac* operations and is called by the **netopacs.exe** to execute certain operations.

 Navigate to the Amlibweb virtual folder on your NetOpac server (for example: C:/Netopacs/Amlibweb)

					- • ×
· · · · · · · · · · · · · · · · · · ·	Amlibw	eb 🕨	- - i j	Search Amlibweb	٩
Organize 🔻 😭 Open Burn New folder				:== -	· 🔟 🔞
	*	Name		Date modified	Туре
My Computer		길 css		25/11/2011 10:05 PM	File folder
📸 OS (C:)		퉬 Icons		25/11/2011 10:05 PM	File folder
		퉬 images		25/11/2011 10:05 PM	File folder
		퉬 Javascript		25/11/2011 10:05 PM	File folder
		퉬 Other		25/11/2011 10:05 PM	File folder
		🌗 Webpics		25/11/2011 10:05 PM	File folder
		📄 kiosk.htm		22/12/2000 3:13 PM	HTM File
	=	📄 kiosk_menu.htm		27/12/2000 7:51 AM	HTM File
		Library_Info.htm		20/12/2000 10:33 AM	HTM File
		🚇 next.gif		12/05/2005 11:00 PM	GIF File
		🚇 prev.gif		12/05/2005 11:00 PM	GIF File
		🖄 web.config		25/11/2011 7:01 PM	XML Conf
		webquery.dll		20/12/2010 10:33 AM	DLL File

- 2. Highlight all existing files (EXCEPT the **webquery.dll** and the **web.config** files) and DELETE them
- 3. Navigate to the folder containing your *NetOpac* pages (and its contents) in the **NetOpacs/Samples** folder (for example: **C:/Netopacs/Samples/A99_NewStyle**)

				×
🕞 🔍 🛛 📕 🕨 My Computer 🔸 OS (C:) 🔸 Netopacs 🔸 Samples	▶ A99_NewStyle ▶	Search A99_NewStyle		Q
Organize 🔻 🥽 Open E-mail Burn New folder			≡ - □	0
A	Name	Date modified	Туре	<u>^</u>
I My Computer	\mu css	25/11/2011 9:21 PM	File folder	E
📸 03 (C:)	\mu Icons	25/11/2011 9:21 PM	File folder	
	🌗 JavaScript	25/11/2011 9:21 PM	File folder	
	\mu webpics	25/11/2011 9:21 PM	File folder	
	a1.htm	1/09/2011 2:47 PM	HTM File	
	a2C.htm	1/09/2011 2:47 PM	HTM File	
	a2D.htm	1/09/2011 2:47 PM	HTM File	
E	a2G.htm	1/09/2011 2:47 PM	HTM File	
	🧃 a2I.htm	1/09/2011 2:47 PM	HTM File	
	🧃 a2J.htm	1/09/2011 2:47 PM	HTM File	
	🧃 a2K.htm	1/09/2011 2:47 PM	HTM File	
	a2M.htm	1/09/2011 2:47 PM	HTM File	
	a3C.htm	1/09/2011 2:47 PM	HTM File	
	a3D.htm	1/09/2011 2:47 PM	HTM File	-
· · ·				•

4. Copy all folders and any non .htm file (excepting the .ini configuration file)

5. Navigate back to the Amlibweb virtual directory folder

G V V Komputer V OS (C:) V Netopacs V Aml	ibwe	b • • • • •	Search Amlibweb	٩
Organize 🔻 😭 Open 🛛 Burn New folder			·== •	
1 McComputer	*	Name	Date modified	Туре
		\mu css	25/11/2011 10:35 PM	File folder
📸 03 (C:)		\mu Icons	25/11/2011 10:35 PM	File folder
		\mu JavaScript	25/11/2011 10:35 PM	File folder
		uebpics	25/11/2011 10:35 PM	File folder
		📸 web.config	25/11/2011 7:01 PM	XML Conf
	III	i webquery.dll	20/12/2010 10:33 AM	DLL File

6. Paste in the previously copied folders (and files) from the NetOpac pages folder

The *NetOpac* pages are now ready to be compiled.

SECTION 5: COMPILE THE NETOPAC PAGES

Step 1: Compile the NetOpac Pages

Before starting the *Amlib NetOpacs* module you will need to load (compile) a set of *NetOpac* web pages (search screens, result lists, etc.).

If the *NetOpacs* have been setup on a separate server to the *Amlib* client application files, then access to the *Amlib* client will need to be setup and configured by running the **IconSetup.exe** – see <u>Appendix D: Running the Amlib Icon Setup Facility</u>). Alternatively, the *Amlib* client application can be installed (and configured) locally on the *NetOpacs* server (see separate *Amlib* client installation instructions).

WARNING: Do not attempt to compile the *NetOpac* pages from the *Amlib* application server (if installed separately) or from a client PC, as the filepaths of the compiled pages will be incorrect.

- 1. On the *NetOpacs* server, launch the *Amlib* client
- 2. Go to Main > Supervisor > WebParams the Web Opacs Parameters screen will display
- 3. From the menu, select Html Parameters > Compile

	Web	Op	acs	Parame	ters -	STAFF at Chelse	ea Library									
F	1 Nev	N	F	2 Inser	l	New Open	F5 Query	F6	Print	F7 TextCol F8 Past	eR			_		
	Ne	o u n	Sc			C ompile ExportHtm ExportSqI	text c	Are B E P A	Sequ	Paste Background Image for screen ie authbg.gif	Hr TT LH D(Link	Link Code Out	Link Code In	Wet Stat Cod	^
۱ŀ	N	a	1	C:\Net	pacs	Samples\A99_	_New Style\MainMer	в	5		т		1	1		
	N	a	2	C:\Net	opacs	Samples\A99	NewStyle\AuthorB	В	5		Т		3C	2C	502	
	N	a	2	C:\Net	opacs	Samples\A99	NewStyle\AuthorK	В	5		Т		3D	2D	503	
	N	a	2	C:\Net	opacs	Samples\A99	_NewStyle\SeriesBi	В	5		Т		3G	2G	506	
	N	a	2	C:\Net	pacs	Samples\A99	NewStyle\SubjectE	в	5		Т		31	21	508	

- The <u>Net Opacs Compile</u> screen will display navigate to the folder containing your *NetOpacs* pages (this folder is usually contained in the **Netopacs/Samples** folder on the *NetOpacs* server– for example: C:\Netopacs\Samples\A99_NewStyle)
- You will find an .ini configuration file. Most recent *NetOpac* installations will have .ini file called Item_Result.ini if this is the case, then select that. Alternative names include ReserveOn.ini and ReserveOff.ini. Then click on the Open button.

r.					
🔢 NetOpacs Compile					×
🚫 🖓 🚽 🐝 Net	opacs)	Samples + A99_NewStyle +	•	✓ Search A99_N	ewStyle 🔎
Organize 🔻 Nev	folder				
🚺 Downloads	*	Name		Date modified	Туре
🖳 Recent Places		퉬 css		1/09/2011 2:59 PM	File folder
Calibration		Icons		1/09/2011 2:59 PM	File folder
	=	퉬 JavaScript		1/09/2011 2:59 PM	File folder
Documents		webpics		1/09/2011 2:59 PM	File folder
J Music		ReserveOn.ini		14/09/2011 4:40 PM	Configuration sett
Videos					
👰 My Computer					
🏭 OS (C:)					
😡 Common (\\BB	^{ES)} +				۱.
	File <u>n</u> am	e: ReserveOn.ini		▼ NetOpac Confi Open ▼	guration File (*.i 👻

You will then be asked to type in a <u>Web User Code</u>. This code denotes your *NetOpac* instance. If you are running more than one set of NetOpac pages (for example: a *junior* and *senior* set of pages) then you will be using more than one code. Typically, the first instance is designated **a** and the second **b** and so on. If you have only one set of pages, then just type in **a**.

١	NetOpacs Compile - ReserveOn.ini
	Please type the User Code in the space provided, then press DK. Warning: All the current data for the User Code will be deleted. Web User Code a
	OK Cancel

- 7. Click on the **OK** button
- 8. *Amlib* will now compile these pages (and the **amlib.ini** file) once complete, a prompt with the following message will display: **All the Web Parameters have been created.**

Step 2: Restart the NetOpac WebConsole (Non-Service Installations Only)

Once the compile is complete, you will need to restart the *NetOpac WebConsole*.

To restart the WebConsole:

- 1. Now the <u>WebConsole</u> is probably already running, so maximise the <u>WebConsole</u> window
- You will then need to reload it using the code you entered at step 6. So in the <u>Style</u> box, type the code you used at step 6 (leave as 'a' if you compiled as 'a') and then press the orange **ReLoad** button. That will take a few seconds and then it will be ready to test.
- 3. The WebConsole has now been restarted

SECTION 6: FIREDAEMON OEM SERVICE MANAGER INSTALLATION

IMPORTANT: Please ensure that you have **full read/write** access to the **\Program Files** folder on your server (for example: **C:\ Program Files**) and that you are logged in with <u>Administrative</u> <u>Privileges</u>.

Please ensure that you have the latest version of the *.NET Framework* installed prior to beginning installation of *FireDaemon* – see: <u>Appendix F: Install .NET Framework</u> for more information

- The *FireDaemon* installer can be found in the **NetOpacs/Utility** folder for example: C:\Netopacs\Utility
- 2. Double-click the **firedmn_setup.exe** to launch the installation Wizard the <u>Setup –</u> <u>FireDaemon OEM Service Manager</u> screen will open displaying the **Welcome** message
- 3. Click the **Next** button the <u>Installation Location</u> screen will display:

12 Setup - FireDaemon OEM Service Manager	- • •
Select the installation Location Where is the FireDaemon OEM Service Manager to be installed?	õ
Select the folder where FireDaemon OEM Service Manager will b	e installed.
To use the default folder displayed, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\FireDaemon OEM	Browse
At least 0.7 MB of free disk space is required. FireDaemon 0EM Setup	Cancel

- Enter the drive/folder location where you would like to install *FireDaemon* we recommend that the *FireDaemon* be installed in C:\Program Files\FireDaemon OEMB and click the Next button
- 5. The <u>Select Components</u> screen will display:

Setup - FireDaemon OEM Service Manager	
Which components should be installed?	\bigcirc
Select the components you want to install; clear the components yo install. Click Next when you are ready to continue.	u do not want to
Install FireDaemon	
Modify Registry Values	
O Set Registry Values	
Restore Registry Values PanelDaemon Web Services Manager (see readme for regulirer	ments)
Install PanelDaemon Web Services Manager	non to y
Install PanelDaemon ReadMe	
Current selection requires at least 3.2 MB of disk space.	
FireDaemon OEM Setup	

- 6. <u>Choose</u> which components should be installed:
 - a. Install FireDaemon
 - b. Modify Registry Values:
 - Set Registry Values
 - c. PanelDaemon Web Services Manager:
 - Install PanelDaemon Web Services Manager
 - Install PanelDaemon ReadMe
- Select ALL options and click the Next button the <u>Select Start Menu Folder</u> screen will display
- 8. To accept the default name (for most customers), click the Next button
- 9. The <u>Ready to Install</u> screen will display with a summary of the installation tasks to be performed:



10. Click the Install button – two Setup prompts may display:



11. Click the **Yes** button both times – the <u>Installing</u> screen will display

12. If the latest version of the .NET Framework is not installed, a prompt with the following message will display: This setup requires the .NET Framework 1.1.4322. Please install the .NET Framework and run this script again. The .NET Framework can be obtained from the web. Would you like to do this now?



- 13. Click the Yes button
- 14. Once the installation is complete, you will be prompted to restart the computer select the **Yes, restart the computer now** option and click the **Finish** button



- 15. To complete the installation of *FireDaemon*, the machine will have to be restarted select the **Yes**, restart the computer now option and click the **Finish** button NB: A restart it not always required but is recommended.
- 16. The setup Wizard will close and the machine will restart

Installation of the *FireDaemon* application is now complete.

SECTION 7: FIREDAEMON OEM SERVICE MANAGER CONFIGURATION

Step 1: Create the NetOpacs Service Instance

 From the *Start* menu, select the **Run...** command (or type **run** in the <u>Search programs and</u> <u>files</u> box and press <enter>) – the <u>Run</u> prompt will display:



- Type in the path to open the WebConsole in the following format:
 Drive:\Netopacs\webcon.exe /configure for example: C:\Netopacs\webcon.exe /configure
- 3. The <u>Amlib WebConfigure</u> screen will display with:



4. From the menu, select **Options** > **Startup...** – the <u>Startup Options</u> screen will display:

Startup Options	×
Application Startup	
Install All	Install 'Amlib WebConsole' to automatically load when logged into Windows as any user.
Install User	Install 'Amlib WebConsole' to automatically load when logged into Windows as the current user only.
Uninstall	Remove 'Amlib WebConsole' from loading automatically.
-FireDaemon Servic	e Startup
Install	Add WebConsole to the list of FireDaemon services.
Uninstall	Remove WebConsole from the list of FireDaemon services.
Service Startup-	
Install	Add the 'Amlib WebConsole' Service to the list of Services in Control Panel.
Uninstall	Remove the existing 'Amlib WebConsole' Service.
L	

5. In the <u>FireDaemon Service Startup</u> section, click the **Install** button – the <u>Service Settings</u> screen will display:

Service Settings		×
Options		
Create service		
Short Name:	AmlibNetOpacs	
Display Name:	Amlib NetOpacs	
Description:	Amlib NetOpacs	
🗖 Desktop Interact		
Create monitor sho	ortout	
	OK Cance	:

- 6. Enter the following settings:
 - a. <u>Create service</u> = ticked
 - b. <u>Short Name</u> for example: AmlibNetOpacs
 - c. Display Name for example: Amlib NetOpacs or Senior Library NetOpacs, etc
 - d. <u>Description</u>: enter a description
 - e. **Untick** the <u>Desktop Interact</u> option this will allow the service to run without opening the *WebConsole* (as it does when running as an application)
 - f. **Untick** the <u>Create monitor shortcut</u> there should already be a shortcut on the desktop
- 7. Click the OK button the NetOpacs will be installed as a service in the FireDaemon OEM
- 8. Once completed, a prompt will display with the following message: **The service has been installed.**
- 9. Click the **OK** button

Step 2: Start the NetOpacs as a Service

1. Open the Service manager from your Programs listing:

🕝 Fi	reDaemon	OEM Se	ervice	Mana	ger v1	.9 GA	1				
<u>F</u> ile	Service	<u>H</u> elp									
睝	🖻 🗙	×	•		•	۲		2 🔽] ₽		
Servi	се							Status	Process	Startup Type	User
© Fi	reDaemon S	ervice: A	Amlib N	etOpa	iCS			Running	Running	Automatic	LocalSystem

- 2. Select the Net Opacs WebConsole, click on the start button
- 3. The service has now been started

Step 3: Test Access to NetOpacs "Pages" via Browser

To access the *NetOpacs* <u>Main Menu</u> using a web browser use the address stored in the **Fullhost** field within **\Netopacs\amlib.ini** configuration file.

For example:

• http://localhost/amlibweb/WebQuery.dll?

Or if the default document of **webquery.dll** has been defined in the previous section you will only need to enter:

• http://localhost/amlibweb

Step 4: Check Communications to Database Server

Before starting the *NetOpacs WebConsole* or *FireDaemon Service* you may wish to confirm that the *NetOpacs* server can communicate to the *Amlib* database server. To test the communications to the Amlib database server you can try:

- Windows "Ping" command. At the NT command (DOS) prompt type: ping {server address} for example: ping 10.0.0.10
 Please Note: your firewall settings may prevent ping commands
- Simply perform a search using the *NetOpacs*!

SECTION 8: TROUBLESHOOTING TIPS

The first step in troubleshooting problems that you may be experiencing with *Amlib* (*Client* or *NetOpacs*) connecting to the database is to first check the following:

- Can you connect to the Amlib database using the Amlib Client on the server?
- Can you connect to the Amlib database using the Amlib Client from another workstation?

The next step is to try and isolate the problem and ensure that the problem is not due to the hardware, network or firewall.

Step 1: Check Communication to Database Server using Microsoft Port Query

Microsoft Port Query is an easy to use tool that enables you to test whether you can connect from a Workstation (or Web Server) to the database server, and whether the RDBMS is listening for connection requests.

- 1. Launch the *Microsoft Port Query* program which will be located:
 - *NetOpacs*: c:\netopacs\utility\PortQryUI**portqueryui.exe**

(**Please Note**: Replace **c:\amlib** or **c:\netopacs** with the actual path where the applications have been installed)

	t Query	
ile	Help	
Enter	destination IP or FQDN to query: tardis	
Que	у Туре	
С	Query predefined service:	
	Service to query: SQL Server	
ſ	Manually input query ports:	
	Ports to query: 1433 Protocol: TCP 💌	
	Enter port number and/or port ranges separated by commas. For example: 80,53,1024-1350	
	Query Cancel Exit	
Query	Result:	
		_
=== Star	ting portqry.exe -n tardis -e 1433 -p TCP	
Star Quer	ting portqry.exe -n tardis -е 1433 -р ТСР ying target system called:	
Star Quer	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s	
Star Quer tard Atter	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s npting to resolve name to IP address	
Star Quer tard Atter Name	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s npting to resolve name to IP address e resolved to 10.161.10.138	
Star Quer tard Atter Name quer	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s npting to resolve name to IP address e resolved to 10.161.10.138 ying	
Star Quer tard Atter Name quer	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s npting to resolve name to IP address : resolved to 10.161.10.138 /ing port 1433 (ms-sql-s service): NOT LISTENING iry.exe -n tardis -e 1433 -p TCP exits with return code 0x00000001.	
Star Quer tard Atter Name quer TCP	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s npting to resolve name to IP address : resolved to 10.161.10.138 <i>r</i> ing port 1433 (ms-sql-s service): NOT LISTENING ry.exe -n tardis -e 1433 -p TCP exits with return code 0x00000001.	
Star Quer tard Atter Name quer TCP (porto	ting portqry.exe -n tardis -e 1433 -p TCP ying target system called: s npting to resolve name to IP address : resolved to 10.161.10.138 /ing port 1433 (ms-sql-s service): NOT LISTENING ry.exe -n tardis -e 1433 -p TCP exits with return code 0x00000001.	

2. Enter the <u>Destination IP</u> address of database server used when installing *Amlib* (for example: tardis, 127.0.0.1, localhost, etc.)

- 3. Select the Manually input query ports option
- 4. Ports to query:
 - If using Microsoft SQL Server enter: 1433
 - If using Oracle enter 1521 (older versions of Oracle may be using 1525)
- 5. <u>Protocol</u>: **TCP**
- 6. Then click the Query button to start the search

Query Results

- 1. If the Query result is **LISTENING** (for example: **TCP port 1433 (ms-sql-s service): LISTENING**) then this indicates:
 - The Workstation (or Web Server) can communicate to the database server **OK**
 - You will need to proceed to the next level of *Amlib* troubleshooting to identify the problem you are experiencing
- 2. If the Query result is **NOT LISTENING** (for example: **TCP port 1433 (ms-sql-s service): NOT LISTENING**) then this indicates:
 - The Workstation (or Web Server) is unable to communicate to the RDBMS on the database server

You should refer this problem to your organisation's database or network administrator to follow up.

Possible reasons why it is unable to communicate to the RDBMS on the database server:

- The database server is not running
- The database server is disconnected from the network
- The workstation (or web server) is disconnected from the network
- There is a problem with the network (for example: switch is faulty, DHCP is not running, etc.) or network configuration
- The RDBMS is not running on the database server (check in Windows Services whether the RDBMS (*Microsoft SQL Server* or *Oracle*) is running
- The enterprise firewall is preventing connectivity via this Port
- The workstation firewall (for example: *Windows XP Service 2* firewall) is preventing connectivity via this Port
- There a problem with hardware (for example: network card in either database server, workstation or web server)
- 3. If the Query result is FILTERED (for example: TCP port 1433 (ms-sql-s service): FILTERED)

then this indicates:

- the enterprise firewall is preventing connectivity via this Port
- the workstation/server firewall (for example: *Windows XP Service 2* firewall) is preventing connectivity via this Port

You should refer this problem to your organisation's database or network administrator to follow up.

Step 2: Next Level of Amlib Troubleshooting

Message Unable to connect to database

Connect		×
8	Cannot connect to the remote Amlib database. The following error has occured: Error No: 20035 Error Text: 4060[Microsoft][ODBC SQL Server Driver][SQL Server]Cannot open database "UMLIBa" requested by the login. The login failed. Check to ensure that: 1. Your PC is connected to the network. 2. The database server is running. 3. This program is the most up to date version.	
	[Cance	1

A message "Cannot connect to database" is displayed if the PC is unable to connect via the WAN (or if SQL.ini is not correctly configured).

The following steps can be used to track down the problem:

- Review the RDBMS error message displayed on the "cannot connect" screen for example in the above example refers to Error No. 20016...SQL Server does not exist.... is a SQL Server error and should be following up with your database administrator (the error number is not an *Amlib* error number)
- 2. Can the PC connect to the database server?
 - Refer to the previous section: <u>Check Communication to Database Server using</u> <u>Microsoft Port Query</u>
- 3. If step 2) above is OK, then ensure that you DO NOT have any ODBC Data Sources with the same name as the database (for example: make sure there is NOT an ODBC data source called **AMCAT**, **AMLIB**, **AMLOCAL** or **AMSTATS**)
 - In Windows: Go to Control Panel > Administrative Tools > Data Sources (ODBC), and check within the <u>User DSN</u>, <u>System DSN</u> or <u>File DSN</u> tabs
- 4. If step 3) above is **OK**, then identify whether the **SQL.ini** is correctly configured or whether there is a connection error:
 - To test start the **\amlib\upgrade.exe** SQL interface program:
a) From the menu, select File > Advanced Login – the <u>Advanced Login</u> prompt will display:

Advanced Login	×				
Please choose the connection method and the database to connect to, then press OK.					
Connection Method: © Windows NT authentication This method only works if the client is part of					
a Windows NT Ďomain, has been validated as a Windows NT User and is a DBA.					
 Database authentication 					
Login name: NETOPACS					
Password:					
Connect To:					
Database: AMLIB					
OK Cancel					

- b) Enter the login of **NETOPACS**, the password (usually **NETOPACS**) and database **AMLIB** and click the **OK** button
- c) If Upgrade is able to connect OK to the selected database and will return to the main Upgrade screen and display the username and database
- d) For *SQL Server* RDBMS repeat the above Advanced Login step for each other database (**AMCAT**, **AMLOCAL** and **AMSTATS**) to see whether the problem is due to being unable to connect to only 1 of the databases

If Upgrade is unable to connect to the selected database then take a detailed copy of the displayed error message (for example: press [**PrtScn**] on your keyboard and paste into a *Word* document) and contact *Amlib Support* for further assistance.

Login Error 🛛 🕅						
Cannot Connect to SQLServer An unexpected error has occured connecting to the AMCAT database.						
Error: 20035 Reason: :4060[Microsoft][ODBC SQL Server Driver][SQL Server]Cannot open database requested in login 'AMCAT'. Login fails.						

It is also suggested that you take a note of the Error number and research with the RDBMS vendor the explanation and resolution for the Error number:

- For Microsoft SQL Server
 go to http://support.microsoft.com
- For Oracle go to http://www.oracle.com/support/index.html

Some of the reasons that the Upgrade.exe is unable to connect to the selected database:

- The database does not exist within the RDBMS (for example: if an administrator had deleted the **AMLIB** database)
- The administrator had moved the *Amlib* databases to another server
- The database server has insufficient disk space
- The Amlib SQL.ini configuration file (located in the c:\netopacs for the NetOpacs module) is not correctly configured – see: <u>NetOpacs SQL.ini Settings</u> for more information
- For libraries using *Oracle* RDBMS the *Oracle Net8* (*SQL*Net*) Client is not correctly configured (using the *Oracle* TNSPING utility on the Workstation to test)
- For libraries using *Microsoft SQL Server* an old version of the *Windows* MDAC (ODBC) drivers are installed
- If step 4) above is OK, then perhaps the *Amlib* database connection settings held in \{windows}\amlib.ini are incorrect (these are different to the *DIY* DefaultUser and Login settings)

APPENDICES

Appendix A: Install IIS on Windows 7 or Vista

Before installing your NetOpacs, you will need to ensure that the *NetOpacs* server is running *Internet Information Services* (*IIS*).

1. From the Start menu, select Control Panel – the Control Panel screen will display:



2. Select the Programs link – the Programs screen will display:



3. Select the Turn Windows features on or off link

4. The Turn Windows Features On or Off screen will display:



- 5. If you expand the <u>Internet Information Services</u> tree node, you can see that there are a lot of options beneath it:
 - a. In the <u>Web Management Tools</u> section, ensure **IIS Management Compatibility** is **checked**, including ALL its sub items
 - b. In the <u>World Wide Web Services/Application Development Features</u> section, ensure **ISAPI Extensions** is **checked**

Windows Features						
Turn Windows features on or off						
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.						
🖃 🗷 📔 Web Management Tools						
🛛 🔽 🍐 IIS 6 Management Compatibility						
IIS 6 Management Console						
IS 6 Scripting Tools						
🛛 📔 IIS 6 WMI Compatibility 🗉						
IS Metabase and IS 6 configuration compatibility						
🗹 🎍 IIS Management Console						
IS Management Scripts and Tools						
IS Management Service						
🖃 🔽 📙 World Wide Web Services						
Image:						
.NET Extensibility						
ASP						
ASP.NET						
CGI						
ISAPI Extensions						
ISAPI Filters						
🛛]> Server-Side Includes 🚽 👻						
OK Cancel						

- 6. Once complete, click the **OK** button *IIS* will then be installed
- 7. Once complete, a prompt will display with the following message: You must restart the computer to apply these changes

Microsoft Windows
You must restart your computer to apply these changes
Before restarting, save any open files and close all programs.
Restart Now Restart Later

8. Click the Restart Now button

Once restarted, when you navigate in your browser to localhost, you'll see the new default page:

Note on Configuring NetOpacs on 64-bit Windows Machine

If a site is using the 64-bit version of *Windows 2003* or above you will need to implement some additional configuration changes within *Windows* to support running 32-bit applications (the *NetOpacs* are a 32-bit application) on 64-bit *Windows* machine.

The following information is from the *Microsoft TechNet* article located at:

<u>http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/0aafb9a0-1b1c-4a39-ac9a-994adc902485.mspx</u>

Windows Server 2003TM, Service Pack 1 enables *IIS 6.0* to run 32-bit web applications on 64-bit *Windows* using the Windows-32-on-Windows-64 (WOW64) compatibility layer. *IIS 6.0* using WOW64 is intended to run 32-bit personal productivity applications needed by software developers and administrators, including 32-bit *Internet Information Services (IIS)* Web applications. On 64-bit *Windows*, 32-bit processes cannot load 64-bit DLLs, and 64-bit processes cannot load 32-bit DLLs. If you plan to run 32-bit applications on 64-bit *Windows*, you must configure *IIS* to create 32-bit worker processes. Once you have configured *IIS* to create 32-bit worker processes, you can run the following types of *IIS* applications on 64-bit *Windows*:

- Internet Server API (ISAPI) extensions
- ISAPI filters
- Active Server Page (ASP) applications
- ASP.NET applications

IIS can, by default, launch *Common Gateway Interface (CGI)* applications on 64-bit *Windows*, because *CGI* applications run in a separate process.

Configuring IIS to run 32-bit Web applications on 64-bit Windows:

Before you configure *IIS* to run 32-bit applications on 64-bit *Windows*, note the following:

- *IIS* only supports 32bit worker processes in Worker Process Isolation mode on 64-bit *Windows*
- On 64-bit *Windows*, the *World Wide Web Publishing* service can run 32-bit and 64-bit worker processes. Other *IIS* services like the *IIS* Admin service, the SMTP service, the NNTP service, and the FTP service run 64-bit processes only
- On 64-bit *Windows*, the *World Wide Web Publishing* service does not support running 32-bit and 64-bit worker processes concurrently on the same server

To enable IIS to run the NetOpacs on a 64-bit Windows Machine:

- From the Start menu, select Administrative Tools >Internet Information Services (IIS) Manager or type iis in the Search programs and files box and press <enter> and select Internet Information Services (IIS) Manager
- 2. Expand the server listing > click on Application Pools



3. Click on the site's application pool to select it. The default pool for NetOpacs is **DefaultAppPool**

Classic .NET Ap	Started	v2.0	Classic	ApplicationPoolId	0
📴 DefaultAppPool	Started	v2.0	Integrated	ApplicationPoolId	8

- 4.
- 5. In the right hand column, click on Edit Application Pool > Advanced Settings...



6. In the popup, go to General> Enable 32 bit Applications > change to "True"

Ap	plication Pool Defaults	2 X					
E	∃ (General)	<u> </u>					
	NET Framework Version	v2.0					
	Enable 32-Bit Applications	True 🔹 💽					
	Managed Pipeline Mode	Integrated					
	Queue Length	1000					
	Start Automatically	True					
E	3 CPU						
	Limit	0					
	Limit Action	NoAction					
	Limit Interval (minutes)	5					
	Processor Affinity Enabled	False					
	Processor Affinity Mask	4294967295 👻					
	Enable 32-Bit Applications [enable32BitAppOnWin64] If set to true for an application pool on a 64-bit operating system, the worker process(es) serving the applicati						
		OK Cancel					

- 7. Click **OK**
- 8. In the right hand column, click on Application Pool Tasks > Recycle... (or you can stop and start the app pool, if you prefer)



Appendix B: IIS Virtual Directory Configuration

<u>IIS 6.0</u>

Please Note: This example uses **Amlibweb3** where normally it would be **Amlibweb2** (if creating a *second* (**b**) instance). **Amlibweb3** would be used to create a *third* (**c**) instance, etc.

Creating the Virtual Directory

- From the Start menu, select Administrative Tools >Internet Information Services (IIS) Manager or type iis in the Search programs and files box and press <enter> and select Internet Information Services (IIS) Manager
- 2. Expand the [Server] > Sites > [Web Site] tree, where [Server] and [Web Site] refer to the appropriate server name and web site name
- Right-click the appropriate web site (for example: Default Web Site) and choose New > Virtual Directory...



- 4. The Virtual Directory Creation Wizard screen will display
- 5. Click the **Next** button to continue

6. The <u>Virtual Directory Alias</u> screen will display:

Virtual Directory Creation Wizard 🛛 🔀					
Virtual Directory Alias You must give the virtual directory a short name, or alias, for quick reference.					
Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.					
Alias: Amlibweb3					
<pre></pre>					

- 7. Enter the following:
 - <u>Alias</u>: which will be the same as the name given to your virtual directory folder created at step 1 (usually **Amlibweb2**, although in this example, **Amlibweb3**)
- 8. Click the Next button the Web Site Content Directory screen will display:

Virtual Directory Creation Wizard	
Web Site Content Directory Where is the content you want to publish on the Web site?	Browse For Folder
Enter the path to the directory that contains the content. Directory: Browse	Netopacs Amlibweb Amlibweb2 Amlibweb3 KioskLaunch OracleBackupDLL Previous Scripts Uninstall Make New Folder OK Cancel
< <u>Back</u> Next > Canc	

- 9. Enter the following:
 - <u>Directory</u>: click on the **Browse**... button and navigate to the **Netopacs** folder, select the folder created at step 1 (usually **Amlibweb2**, although in this example **Amlibweb3**) and click the **OK** button
- 10. Click the Next button

11. The Access Permissions screen will display:



- 12. Ensure the Read and Run scripts (such as ASP) options are selected and click the Next button
- 13. Click the **Finish** button

Adjusting the Settings

1. Right-click on the virtual directory you have set up (usually **Amlibweb2**, although in this example **Amlibweb3**) and select **Properties**:



2. The Properties screen will display:

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	Conton Enors	ASE.NET
Virtual Directory	Documents	Directory Security
When connecting to (o this resource, the content should co A directory located on this compute	me from: r
ć	A redirection to a URL	
Lo <u>c</u> al Path: Scrip <u>t</u> source aco <u>R</u> ead <u>W</u> rite	C:\Netopacs\Amlibweb3 cess V Log visits V Index this re	Br <u>o</u> wse
Logal Path: Script source act Read Urite Directory browsir Application Settings Application name:	C:\Netopacs\Amlibweb3 cess v Log visits v Index this re	Browse source
Logal Path: Script source acc Bead Write Directory <u>b</u> rowsin Application Settings Application na <u>m</u> e: Starting point:	C: \Netopacs\Amlibweb3 cess Log visits Index this re Index this re Amlibweb3 <default td="" w\amlibweb3<=""><td>source</td></default>	source
Logal Path: Script source act Mate Directory browsin Application Settings Application name: Starting point: Execute Permissions	C:\Netopacs\Amlibweb3 cess Log visits Index this re g Amlibweb3 <default <="" and="" executables<="" scripts="" td="" w\amlibweb3=""><td>Browse source Remove Configuration</td></default>	Browse source Remove Configuration

- 3. On the <u>Virtual Directory</u> tab:
 - a. <u>When connecting to this resource, the content should come from</u>: ensure **A** directory located on this computer is selected
 - b. Execute Permissions: ensure Scripts and Executables is selected
 - c. <u>Local Path</u>: this should match the pathway to the virtual directory folder created earlier (for example: C:/Netopacs/Amlibweb2, although in this example
 C:/Netopacs/Amlibweb3)
 - d. The Read, Log visits and index this resource settings should also be selected
- 4. Select the <u>Documents</u> tab:
 - a. Click the Add... button the <u>Add Default Document</u> prompt will display: type in WebQuery.dll and click the OK button

HTTP Headers	Custom Errors	ASP.NET
Virtual Directory	Documents	Directory Securi
Enable Default Document		
tDefault.htmDefault.aspindex.htmisstart.asp		Add Remove
		_
Defaul WebC	t Document Name: luery.dll	Cancel

b. To help save time and system resources, use the arrows at the side to move
 WebQuery.dll to the top of the list:

niir neaueis	Custom Errors	ASP.NET
Virtual Directory	Documents	Directory Securit
Enable Default Do <u>c</u> umer	nt	
Default.htm Default.asp index.htm jisstart.asp		<u>Aga</u> <u>R</u> emove
		Browse

5. Click the **OK** button when complete

Creation and configuration of the virtual directory is now complete.

<u>IIS 7.0</u>

Creating the Application

- From the Start menu, select Administrative Tools >Internet Information Services (IIS) Manager or type iis in the Search programs and files box and press <enter> and select Internet Information Services (IIS) Manager
- 2. Expand the [Server] > Sites > [Web Site] tree, where [Server] and [Web Site] refer to the appropriate server name and web site name:



3. Right-click the appropriate web site (for example: **Default Web Site**) and choose **Add Application...**



4. The <u>Add Application</u> screen will display:

Add Application		? 🔀
Site name: Default Web Site Path: /		
<u>A</u> lias:	Application pool:	
amlibweb	DefaultAppPool	S <u>e</u> lect
Example: sales		
Physical path:		
C:\Netopacs\Amlibweb		
Pass-through authentication		
<u>C</u> onnect as Test Settings.		
	ОК	Cancel

- 5. Enter the following settings:
 - Alias: amlibweb (if setting up a second NetOpacs instance, then this will be • Amlibweb2)
 - Physical path: click the ... button and navigate to the Netopacs virtual directory • folder containing the **webguery.dll** file (this will typically be the **Amlibweb** folder – for example: C: Netopacs\Amlibweb)

If setting up a second *NetOpacs* instance, then this will be the **Amlibweb2** folder.

6. Select the newly created application (for example: amlibweb) and double-click the Handler Mappings icon



The Handler Mappings screen will display: 7.

Handler Mappings						
Use this feature to s	specify the reso	ources, such as DLLs a	nd managed code	, that handle respo	nses for specific request types.	
Group by: State	-					
Name		Path	State	Path Type	Handler	Entry Type
пиркетонидная	iulerractory	.soap	Enabled	unspecified	Isapiiviodule	innenteu
HttpRemotingHan	dlerFactory	*.soap	Enabled	Unspecified	IsapiModule	Inherited
ISAPI-dll	Add Manage		Enabled	File	IsapiModule	Inherited
OPTIONSVert	Add Manage	a nanuler	Enabled	Unspecified	ProtocolSupportModule	Inherited
PageHandlerl	Add Script IV	1ap	Enabled	Unspecified	System.Web.UI.PageHandlerF	Inherited
PageHandlerl	Add Wildcar	d Script Map	Enabled	Unspecified	System.Web.UI.PageHandlerF	Inherited
PageHandlerl	Add Module	Mapping	Enabled	Unspecified	IsapiModule	Inherited
PageHandlerl	Edit		Enabled	Unspecified	IsapiModule	Inherited
PageHandlerl 🗙	Remove		Enabled	Unspecified	IsapiModule	Inherited
rules-Integrat	Edit Feature	Permissions	Enabled	Unspecified	System.ServiceModel.Activati	Inherited
rules-ISAPI-4.			Enabled	Unspecified	IsapiModule	Inherited
rules-ISAPI-4.	Revert To Pa	rent	Enabled	Unspecified	IsapiModule	Inherited
ScriptHandler	View Ordere	d List	Enabled	Unspecified	System.Web.Script.Services.S	Inherited
ScriptResourc 🕢	Help		Enabled	Unspecified	System.Web.Handlers.ScriptR	Inherited
SecurityCertif	Online Help		Enabled	File	IsapiModule	Inherited

Right-click the ISAPI-dll item and select Edit Feature Permissions... 8.

9. The Edit Feature Permissions prompt will display:

Edit Feature Permissions	? 💌
Permissions:	
<u> </u>	
✓ Script	
✓ Execute	
ОК	Cancel

- 10. Check the Execute option (Read and Script should already be selected) and click the OK button
- 11. Re-select the application again and then double-click the Default Document icon



- 12. The <u>Default Document</u> screen will display
- Click the Add... action in the <u>Actions</u> column the <u>Add Default Document</u> prompt will display:

Add Default Document		? 💌
<u>N</u> ame:		
webquery.dll		
	ОК	Cancel

- 14. Type in **webquery.dll** and click the **OK** button
- 15. Select and remove all other items
- 16. If a message indicating the default document feature has been disabled appears in the <u>Actions</u> column, you can click the **Enable** action

	cument	Actions
	cument	Add
Jse this feature to specify	the default file(s) to return when a client does	🗙 Remove
not request a specific file.	Set default documents in order of priority.	🎓 Move Up
Name	Entry Type	Move Down
webquery.dll	Local	Disable
		Revert To Parent
		Help

Creating Web Service Extensions

1. Select the server that contains the dlls you want to allow (this will usually be the default server) and double-click the **ISAPI and CGI Restrictions** icon:



2. The ISAPI and CGI Restrictions screen will display:

Use this feature to Group by: No G	and CGI Restri	Ctions CGI extensions that can run on the Web server.	Actions Add Edit Feature Settings
Description Active Server P ASP.NET v2.0.5 ASP.NET v4.0.3 ASP.NET v4.0.3 WebDAV	Restriction Allowed Not Allowed Not Allowed Allowed	Path %windir%\system32\inetsrv\asp.dll %windir%\Microsoft.NET\Framework\v2.0.50727\a c:\Windows\Microsoft.NET\Framework\v4.0.30319 c:\Windows\Microsoft.NET\Framework64\v4.0.303 %windir%\system32\inetsrv\webdav.dll	Online Help

3. Click Add... in the Actions column – the Add ISAPI and CGI Restriction screen will display:

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_		
A	dd ISAPI or CGI Restriction	? ×
	ISAPI or CGI path:	
	C:\Netopacs\Amlibweb\webquery.dll	
	Description:	
	Amlibweb	
	✓ <u>A</u> llow extension path to execute	
	ОК	ancel

- 4. Enter the following settings:
 - a. <u>ISAP and CGI path</u>: Click the ... button and navigate to the **Netopacs** directory folder, open the virtual directory folder (this will typically be the **Amlibweb** folder for example: C: Netopacs\Amlibweb) and select the webquery.dll file
 - b. Description: Amlibweb (or Amlibweb2, etc)
 - c. Check the Allow extension path to execute option
- 5. Click the **OK** button when complete

The application has been created and is now able to be executed on the server. The last step is to configure the security settings for all related *NetOpacs* executables.

To run NetOpacs, you will have to run it as a service thru FireDaemon Service Manager.

Configuring UAC Security

- 1. For each of the following four files, please do the steps detailed below:
 - **Netopacs.exe** (located in the **C:\Netopacs** folder)
 - Webcon.exe (located in the C:\Netopacs folder)
 - FireDaemon.exe (located in the C:\Program Files\FireDaemon OEM folder)
 - FireDaemonUI.exe (located in the C:\Program Files\FireDaemon OEM folder)

2. Right-click on the file and select **Properties** – the Properties screen will display:

FireDaemon.exe Properties					
General Compatibility Security Details Previous Versions					
If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version.					
Help me choose the settings					
But this program in compatibility mode for:					
Windows XP (Service Pack 3)					
Settings					
Run in 256 colors					
Run in 640 x 480 screen resolution					
Disable visual themes					
Disable desktop composition					
Disable display scaling on high DPI settings					
Privilege Level					
Change settings for all users					
OK Cancel Apply					

- 3. Click on the Compatibility tab
- 4. **Check** the box <u>Run this program as an administrator</u> which is located in the <u>Privilege Level</u> section
- 5. Click the **OK** button when complete

Appendix C: Setup SQL Server User Security

The *NetOpacs* require the setup of a **NETOPACS** Login which will then be associated with the Live (production) SQL databases.

Clear User Schema

It may be necessary to clear the old user schema first.

- 1. Click the **New Query** button this will open up a new <u>SQL Query</u> screen
- 2. Type (or copy) in the following:

```
use AMCAT
drop schema NETOPACS
drop user NETOPACS
use AMLIB
drop schema NETOPACS
drop user NETOPACS
use AMLOCAL
drop schema NETOPACS
drop user NETOPACS
use AMSTATS
drop schema NETOPACS
drop user NETOPACS
use AMWEB
drop schema NETOPACS
drop user NETOPACS
     ClearUserSchema.sql - TARDIS...(52))* Object Explorer Details
       use AMCAT
       drop schema NETOPACS
       drop user NETOPACS
       use AMLIB
       drop schema NETOPACS
       drop user NETOPACS
       use AMLOCAL
       drop schema NETOPACS
       drop user NETOPACS
       use AMSTATS
       drop schema NETOPACS
       drop user NETOPACS
       use AMWEB
       drop schema NETOPACS
       drop user NETOPACS
```

3. Click the ! Execute button

Map User Schema

1. In the sidebar, expand the Security folder, right-click on Logins folder and select New Login...



2. The Login - New screen will display:

Login Properties - NETOPAC	S		- • ×
Select a page	🔄 Script 🔻 🛐 Help		
Image: General Server Roles Image: Server Roles	Login name: Windows authentication SUL Server authentication Password: Confirm password: Specify old password Old password: Efforce password policy Confirme password policy	NETOPACS	Search
	User must change passv	word at next login	
	Mapped to certificate		v
	Mapped to asymmetric key		*
Connection	Map to Credential		▼ Add
Server: TARDIS\SQLEXPRESS	Mapped Credentials	Credential Provider	
Connection: TARDIS\prenticj			
View connection properties			
Progress			Remove
Ready	Default database:	AMLOCAL	•
445	Default language:	English	•
		ОК	Cancel

- 3. On the <u>General</u> page (select from sidebar):
 - a. Select the **SQL Server authentication** radio button
 - b. Enter the following details:
 - i. Login name: NETOPACS
 - ii. <u>Password</u>: **NETOPACS**
 - iii. Confirm password: NETOPACS
 - c. Deselect the Enforce password policy tick box

4. On the <u>User Mapping</u> page (select from sidebar):

Login Properties - NETOPACS	;				- • ×
Select a page		👻 📑 Help			
General	<u> </u>				
User Mapping	Users ma	anned to this login:			
Securables	Map	Database	User	Default Schema	
😭 Status		AMCAT	NETOPACS	dbo	
		AMLIB	NETOPACS	dbo	
		AMLOCAL	NETOPACS	dbo	
		AMSTATS	NETOPACS	dbo	
		AMWEB	NETOPACS	dbo	
		master			
		model			
		msdb			
					-
	Guesi	t account enabled for:	AM54CAT		
Connection	Database	e <u>r</u> ole membership for:	AM54CAT		
Server	db_a	ccessadmin			
TARDIS\SQLEXPRESS	db_b	ackupoperator atareader			
Connection:	db_d	atawriter			
TARDIS\prenticj	db_d	dladmin			
View connection properties	d	enydatareader			
		enydatawnter			
Progress	db_d	curityadmin			
	🔽 publi				
Ready					
A ¹ A					
				ОК	Cancel

- 5. In the Map column tick the AMCAT database option
- 6. Then tick the **db_owner** option in the lower screen
- 7. Repeat steps 5 and 6 for the AMLIB, AMLOCAL, AMSTATS and AMWEB (where installed) databases
- 8. Click the **OK** button to exit out of this screen
- 9. When you are done, your **NETOPACS** login will show under **Security** > **Logins**:



Appendix D: Running the Amlib Icon Setup Facility

This is used to set up PC Icons, set the Database Login, and for installing Active X.

- Locate the Icon Setup application (IconSetup.exe) on your Amlib server or client PC in the Drive:\Amlib\Utility\Icons folder (for example: C:\Amlib\Utility\Icons and copy it onto your NetOpacs server
- 2. Double-click on the IconSetup.exe to open the Amlib Shared Client Installation Wizard:



3. Click the **Next** button – the <u>Setup</u> screen will display:



 Enter the filepath (for example: C:\Amlib or F:\Library\Amlib) to the folder containing the Amlib program files or click the Browse button and locate the folder (the Amlib program files will be located on either a mapped server drive or somewhere on the PC)

Amlib Application Files Location

When re-running **Iconsetup.exe** to install a new client, you need to be sure where you are accessing the *Amlib* programs, which will be one of the two following options:

- Access to Amlib programs from the Server or
- Install the programs locally and access from the new PC

If you are not sure where you currently access the Amlib program from you can find out by:

- 1. Right-click on the *Amlib* Icon of a different *Amlib Client* machine and select **Properties** the Amlib Toolbar Properties will display
- 2. On the <u>Shortcut</u> tab, locate the <u>Target</u> field and note the file path
- If the <u>Target</u> point to a different drive for example a library drive or **I:/ drive** etc then you are most likely accessing *Amlib* from a server: follow **Option 1**
- If the <u>Target</u> file path points to **C:/Amlib/Amlibtop.exe** then you are most likely accessing the program locally installed on the PC follow **Option 2**

🛃 Amlib Toolbai	Propertie	es			×
Security		etails	P	revious Versions	
General		Shortcut		Compatibility	
Am	lib Toolba	r			
Target type:	Applicatio	n			
Target location:	Amlib				
<u>T</u> arget:	C:\Amlib\	Amlibtop.exe			
<u>S</u> tart in:	C:\Amlib				
Shortcut key:	None				
<u>R</u> un:	Normal w	rindow			•
Comment:	Amlib Lib	rary System I	Login		
Open <u>Fi</u> le Lo	cation	Change l	con	A <u>d</u> vanced	
		ок	Cano	el <u>A</u> pp	ly

Option 1: Access the Programs from the Server

- 1. In the Amlib folder on the server, navigate to Amlib > Utilities > Icons > Iconsetup.exe
- 2. Copy the **Iconsetup.exe** file to the new PC and run the file on the PC as per the instructions above, browsing to the **Amlib folder on the server**

Option 2: Install the Amlib programs from the PC

- 1. Copy the Amlib folder from an **existing PC** that is running *Amlib* (or from the Server). This will ensure that the programs are the version suitable for the Database.
- 2. Run the **Amlib** > **Utilities** > **Icons** > **Iconsetup.exe file** on the PC and browse to the **Amlib** folder on the local PC where you have just saved it

NetOpacs 5.4 Installation Guide

Browse for Folder	×
Where are the Amlib Program Files installed?	
🔺 🌉 My Computer	
4 🌉 OS (C:)	
🔺 🚺 Amlib	=
Barcode Fonts	
Help	
Mmedia	
Previous	
Reports	
Scripts	
Sounds	-
<	P.
OK Can	cel

- 5. Highlight the folder and click the **OK** button
- 6. Click Next button the Select Components screen will display:
- 7. Select (tick) the following options:
 - Choose Module Icons & Functions to Install
 - Admin Tasks (to ensure the Database connection is correct in the *Amlib* configuration file)

Setup - Amlib Client (Shared)		×
Select Components Which components should be installed?	Č	Í
Select the components you want to install; clear the components you do ni install. Click Next when you are ready to continue. -	ot want to	
 ✓ Choose Module Icons & Functions To Install ✓ Antih Toolbar (Staff) and Offline ✓ Register Antih ActiveX Controls ✓ Antih Opac (Client Server) ✓ Admin Tasks 		
🖵 🖳 Modify Amlib Database (dba) Login Configuration		
Current selection requires at least 1.2 MB of disk space.		
About < Back Next >	Cancel	

8. Click the Next button – the <u>RDBMS Login to be used with Amlib</u> screen will display:

😽 Setup - Ar	nlib Client (Shared)				
RDBMS I Enter th (hidden	Login to be used with A e Database login and passv)	mlib vord to internally connect to the Amlib database	õ		
	Amlib Database (DBA)	Login			
	AmlibNet DBA User	[%d\xb;(6Rpv./\$/SWUXB(dV]_K*}NI]R>!kQSBf			
	AmlibNet DBA Password		•		
	Notes:				
	 This will be the RDBMS Login that Amlib will use as a "HIDDEN'* Connection to the Amlib database(s) 				
	2. An encrypted user and the Amlib nopasswd.ex	password can be entered (generated using e utility)			
	3. This will be stored within	the {windows}\amlib.ini configuration file			
	To accept the defaults	click Next			
Amlib IconSetu	p				
About		< <u>B</u> ack <u>N</u> ext > (Cancel		

- a. You will be prompted for a hidden <u>Amlib Database (DBA) Login</u> to connect the *Amlib* SQL database:
 - <u>AmlibNet DBA User</u>
 - <u>AmlibNet DBA Password</u>
- b. Please Note:
 - This will be the *RDBMS* Login that *Amlib* will use as a *HIDDEN* <u>Amlib</u> <u>Database (DBA) Login to connect the *Amlib Client* to the *Amlib* database</u>
 - An encrypted <u>User</u> and <u>Password</u> can be entered (generated using the *Amlib* **nopasswd.exe** utility)
 - This will be stored in within the Windows\amlib.ini configuration file
- c. To accept the *defaults*, click the **Next** button (this will be most customers)
- 17. The <u>Select Start Menu Folder</u> screen will display:

J물 Setup - Amlib Client (Shared)	- • ×
Select Start Menu Folder Where should Setup place the program's shortcuts?	õ
Setup will create the program's shortcuts in the following Start M	enu folder.
To continue, click Next. If you would like to select a different folder, click	Browse.
Amlib Library Management System	Browse
Amlib IconSetup	
About < Back Next >	Cancel

18. Enter a *Start* menu folder name (or leave as **Amlib Library Management System**) and click the **Next** button – the <u>Select Additional Tasks</u> screen will display:

13 Setup - Amlib Client (Shared)	
Select Additional Tasks Which additional tasks should be performed?	õ
Select the additional tasks you would like Setup to perform while installing (Shared), then click Next.	Amlib Client
Install Desktop Icons	
Install desktop icons for selected Components	
Amlib IconSetup	
About < Back Next >	Cancel

19. Ensure the Install desktop icons for selected Components is selected

20. Click the **Next** button – the <u>Ready to Install</u> screen will display with a summary of the installation tasks to be performed:



21. Click the **Install** button – the <u>Installing</u> screen will display:

弱 Setup - Amlib Client (Shared)	
Installing Please wait while Setup installs Amlib Client (Shared) on your computer.	õ
Registering Components	
Amlih IconSetun	
<u>About</u>	Cancel

22. When complete click the Finish button



23. The setup Wizard will close

Installation of the Amlib Client (Shared) is now complete.

Appendix E: Configure a WEB Location in Amlib

Setup a Web Location

- 1. Launch the *Amlib* client
- 2. Go to **Main > Supervisor > Locations –** the <u>Locations</u> screen will display:

Second Location	is - STAFF at aryMenu	Chelsea Libr	rary							
F1 New	F2 Insert	F3 Save	F4 Delete	F5 Query	F6 Print	F7 NetWk	F8 Plans	F9 Hours		
	ihaan Crow		Loop			Location			 	
'	Code	,	Code			Description	1			â
LIBRA	ARY	BELM	IONT	Belmont Lib	rary					
LIBRA	ARY	CHEL	SEA	Chelsea Lib	rary					
LIBRA	ARY	HAST	INGS	Hastings Lib	rary				 	
LIBRA	RY	HOM	E	Home Librar	y Service					
LIBRA	ARY	PROC	ESSING	Library Proc	essing				 	
LIBR/	ARY	STAC	:K	Stack					 	
		WEB		Web Mobile Libra	D /				 	
	LC	MODI	LC		i y				 	
1									NUN	1

3. Click the **F1 New** or **F2 Insert** button

- 4. Enter the following details:
 - a. <u>Library Group Code</u> = (enter a group code for example: **LIBRARY**)
 - b. Locn Code = WEB
 - c. Location Description = Web
- 5. Click the F3 Save button

Web Location Settings

- 1. Launch the *Amlib* client
- 2. Go to Main > Supervisor > Installation the Installation (DEFAULT) screen will display
- 3. From the menu, select Installation > Choose Location the Location prompt will display
- 4. Select the **WEB** location and click the **OK** button

- 5. The Installation (WEB) screen will display
- 6. Select the **Other** tab

🞇 Installation - STAFF at Chelsea Library	
Main LibraryMenu Installation	
F3 Save F5 Query	
<u>All</u> <u>B</u> orrower Catalogue <u>C</u> irculation <u>Stockitem</u>	System Other
Web	
Description	Value
Default to the last XXX days when displaying issues audit	
E-mail Attachment Path	
E-mail Maximum Attachment Size (kb)	
E-mails are sent using the following method: (M)API or (I)nternal or (S)MTP	
Location is Valid for Holdings	N
Location is Valid for OPAC Enquiries	Y
Location is Valid for Registrations & Circulation	N
Location's Base File Name ILLS Net Interface	
Location's Borrower Barcode for Memos	
Location's Depreciation Account No.	
Location's Depreciation Allocation	
Location's EAN for EDI	
Location's Help Files Ref Directory	C:\Amlib\Help\
Location's Picture Directory	c:\amlib\mmedia\images\testdb\
Location's SAN for EDI	
	I
	NUM

- 7. Scroll down and enter the following settings:
 - a. <u>Location is Valid for Holdings</u> = **N** (some installation may make this **Y**, so as to be able to associate this Location with online holdings)
 - b. Location is Valid for OPAC Enquiries = Y
 - c. Location is Valid for Registrations & Circulation = N
- 8. Click the F3 Save button
- 9. Exit the Amlib client for these settings to take effect

Appendix F: Install .NET Framework

- 1. Open Internet Explorer
- 2. Navigate to the following URL: <u>http://msdn.microsoft.com/en-us/netframework/default.aspx</u>



3. Select the **Download** .NET 4 link – the <u>Download Center</u> page will display:

Download Cent	er	
Windows Office Product dow	wnloads Download categories Security Res	ources
Microsoft Microsoft	NET Framework 4 (Web)	Installer) 🔊 Subscribe
Quick links	The Microsoft .NET Framework 4 web Framework components required to r Internet connection is required during run and develop applications to targe	installer package downloads and installs the .NET un on the target machine architecture and OS. An the installationNET Framework 4 is required to to the .NET Framework 4.
Additional information	Quick details Version: 4	Date Published: 2/21/2011
	Change Language: English	•
Comfice 365	File Name	Size
Introducing Microsoft Office 365.	dotNetFx40_Full_setup.exe	869 KB DOWNLOAD

4. Click the **Download** button – the following prompt will display:

Do you want to run or save dotNetFx40_Full_setup.exe (868 KB) from d	ownload.mic	rosoft.com?	×
	Run	<u>S</u> ave	<u>C</u> ancel

- 5. Click the Run button the .NET Framework 4 installer will open
- 6. Follow the remaining prompts to update/repair the .NET Framework
- 7. Click the Finish button when complete (and then restart the computer)

Appendix G: Install a Additional Instance of the NetOpacs

It is possible to install up to **26** sets (or instances) of *NetOpacs* pages. The following instructions show how to set up a *second* (**b**) instance. However, the same instructions can be used to create *third* (**c**), *fourth* (**d**), etc instances.

Some examples where this may be used:

Example One – Schools:

- Instance 1 (a) runs the Senior school NetOpacs
- Instance 2 (b) runs the Junior school NetOpacs

Example Two – Test Pages:

- Instance 1 (a) runs the public NetOpacs
- Instance 2 (b) runs the test NetOpacs

Example Three – Internal & External:

- Instance 1 (a) runs the internal NetOpacs
- Instance 2 (b) runs the external NetOpacs

The installation of a *second* (or *third*, etc) set of *NetOpacs* involves the following steps:

- 1. Create a virtual directory folder
- 2. Setup the *NetOpacs* folder files
- 3. Create and configure the virtual directory/application in IIS
- 4. Configure the *NetOpacs WebConsole*
- 5. Configure the *NetOpacs* Amlib.ini file
- 6. Compile the *NetOpacs* pages
- 7. Restart the *FireDaemon Service Manager*

Please see: NetOpacs 5.4 (Second Instance) Installation Guide for further information.

Appendix H: Enabling NetOpacs for Safari

A common error when attempting to access *NetOpacs* from a *Safari* web browser is that the browser attempts to download the **webquery.dll** file rather than open it.

This can be solved in *IIS*.

<u>IIS5.0/6.0</u>

Webquery.dll

1. Open your <u>Internet Information Services</u> and expand your folders to see the **Amlibweb** virtual directory:



2. Right-click on the **webquery.dll** file and select **Properties**



3. Select the HTTP Headers tab



 In the <u>Custom HTTP Headers</u> section, click on the Add button – the <u>Add/Edit Custom HTTP</u> <u>Header</u> screen will display:

Add/Edit Custom HTTP Header	X
Enter a custom name and value pair below which the server will append to all request responses in the HTTP Headers	
<u>C</u> ustom Header Name:	
content-type	
Custom Header Value:	
text/html	
OK Cancel <u>H</u> elp	

- 5. Enter the following settings:
 - a. Custom Header Name: content-type
 - b. <u>Custom Header Value</u>: text/html
- 6. Click the **OK** button
- 7. Click the Apply button
- 8. Click the **OK** button you should now be back at the main *IIS* screen

CSS

This will also need to be done to any CSS files you have, which are any files ending in **.css**. You may have some in the **amlibweb** folder, but more commonly you will have a **css** folder that you can open by double-clicking it.



1. As with the above steps, right-click on one of your css files and select Properties

Name		
🚞 imag	jes	
💿 cole	20.000	
🗿 libra	Open	
💽 prir	Browse	
🧕 scre	All Tasks 🔹 🕨	
	Delete	
	Rename	
	Refresh	
	Properties	
	Help	

2. Select the HTTP Headers tab

Content should: C Expire Immed	diately			
Expire after	1	Day(s)	~	
O Expire on	Monday ,	31 May	2010 🔽 at	12:00:00 AM
	adora			
Custom HTTP He X-Powered-By: A	SP.NET			Add
Custom HTTP He X-Powered-By: A	SP.NET			Add E dit

3. In the <u>Custom HTTP Headers</u> section, click on the **Add** button – the <u>Add/Edit Custom HTTP</u> <u>Header</u> screen will display:

Add/Edit Custom HTTP Header	X
Enter a custom name and value pair below which the server will append to all request responses in the HTTP Headers	
<u>C</u> ustom Header Name:	
content-type	
Custom Header Value:	
text/css	

- 4. Enter the following settings:
 - a. Custom Header Name: content-type
 - b. <u>Custom Header Value</u>: text/html
- 5. Click the **OK** button
- 6. Click the **Apply** button
- 7. Click the **OK** button

This will need to be repeated for any other CSS files you have. When you are done, you can exit *IIS* and your *NetOpacs* should now work correctly in *Safari*.

<u>IIS7.0</u>

Webquery.dll

1. Open your <u>Internet Information Services</u> and expand your folders to see the **Amlibweb** virtual directory:



2. Right-click on the amlibweb folder and select Switch to Content View



3. Right-click on the **webquery.dll** file and select **Switch to Features View**

/amlibweb Content				
Filter: Go - Go Show All Group by: No Grouping -				
Name	Туре			
🚞 css	File Folder			
Cons Cons	File Folder			
🚞 JavaScript	File Folder			
🚞 webpics	File Folder			
🚯 web.config	XML Configuration File			
webquery.dll	File			
Switch to Features View				
Browse				
Edit Permissions				

4. In the ISS section, double-click the HTTP Response Headers icon:



5. The <u>HTTP Response Headers</u> screen will display:

Vi Internet Information Services (IIS) Manager						
🚱 💿 📄 🕨 TARDIS 🔸 Sites 🔸 Default Web Site 🔸 amlibweb 🔸 webquery.dll						
<u>F</u> ile <u>V</u> iew <u>H</u> elp						
Connections	HTTP Response Headers Use this feature to configure HTTP headers that are added to responses from the Web server. Group by: No Grouping			Actions Add Set Common Headers Help Online Help		
a mlibweb	Name	Value	Entry Type			
 ▷ - CSS ▷ - I Cons ▷ - J AvaScript ▷ - webpics □ webquery.dll ▷ - → amlibweb2 	X-Powered-By	ASP.NET	Inherited			

6. In the <u>Actions</u> section, click on the **Add...** link – the <u>Add Custom HTTP Response Header</u> screen will display:

Add Custom HTTP Respons	e Header	? 🔀
<u>N</u> ame:		
content-type		
<u>V</u> alue:		
text/html		
	ОК	Cancel

7. Enter the following settings:

- a. <u>Name</u>: content-type
- b. Value: text/html
- 8. Click the OK button



CSS

This will also need to be done to any CSS files you have, which are any files ending in **.css**. You may have some in the **amlibweb** folder, but more commonly you will have a **css** folder.

- 1. Expand the amlibweb folder and select the css folder
- 2. Right-click on a .css file and select Switch to Content View



3. Right-click on a .css file and select Switch to Features View
| Filter: | 🝷 🔐 Go 👒 🥁 Show All Group by: No Grouping | • |
|---------------------------------------|--|---|
| Name | Туре | |
| default.css | cument | |
| iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | Browse Edit Permissions Refresh Help Online Help | |

4. In the <u>ISS</u> section, double-click the **HTTP Response Headers** icon:



5. The <u>HTTP Response Headers</u> screen will display:

HTTP Response Headers			Act	Add
Use this feature to configure HTTP headers that are added to responses from the Web server.		(?)	Set Common Headers Help	
Group by: No Group	oing -			Online Help
Name	Value	Entry Type		
X-Powered-By	ASP.NET	Inherited		

6. In the <u>Actions</u> section, click on the **Add...** link – the <u>Add Custom HTTP Response Header</u> screen will display:

Add Custom HTTP Respons	e Header 🔹 🔹
<u>N</u> ame:	
content-type	
<u>V</u> alue:	
text/html	
	OK Cancel

- 7. Enter the following settings:
 - c. <u>Name</u>: content-type
 - d. Value: text/html
- 8. Click the OK button

NetOpacs 5.4 Installation Guide



This will need to be repeated for any other CSS files you have. When you are done, you can exit *IIS* and your *NetOpacs* should now work correctly in *Safari*.

Appendix I: Edit Access Control

Due to the additional extra security measures on *Windows Server 2008, Windows 7* and *Vista,* you may need to edit the installation's access control list settings before being able to customise the **SQL.ini** (and **Amlib.ini**) files.

- 1. Locate the drive containing the Amlib Client for example C:\
- 2. Right-click on the Amlib folder and select Properties



- 3. The Amlib FinTransUpgrade Properties screen will display
- 4. Select the <u>Security</u> tab



- 5. Click the Edit... button the Permissions for Amlib FinTransUpgrade screen will display
- 6. In the Group or user names: pane, click on the Users entry

7. Then in the <u>Permissions for Users</u> pane, **check** the <u>Allow</u> checkbox for the <u>Modify</u> setting – this will give Users the necessary group permission to apply modifications to files and folders in the **FinTransUpgrade** folder:

길 Permissions for Amlib FinTran	sUpgrade	×				
Security						
Object name: C:\Program Files\	OCLC\Amlib FinTi	ransUpgrade				
<u>G</u> roup or user names:						
& CREATOR OWNER						
SYSTEM	& SYSTEM					
Administrators (TARDIS\Adm State	Administrators (TARDIS\Administrators)					
K TrustedInstaller	TrustedInstaller					
	A <u>d</u> d	<u>R</u> emove				
Permissions for Users	Allow	Deny				
Full control						
Modify						
Read & execute	1					
List folder contents	1					
Read	\checkmark	-				
Learn about access control and permissions						
ОК	Cancel	Apply				

8. This action will automatically **check** the <u>Allow</u> checkbox for the <u>Write</u> setting:

Permissions for Users	Allow	Deny			
Read & execute	V		*		
List folder contents	~				
Read	1		=		
Write	1				
Special permissions			-		
Learn about access control and permissions					
ОК	Cancel	<u>A</u> pp	oly		

9. Click on the **OK** button on the <u>Permissions for Amlib FinTransUpgrade</u> and the <u>Amlib</u> <u>FinTransUpgrade Properties</u> screens to complete the change of permissions