



**Amlib**

Library Management System

# **OpenOPAC Installation Guide**

**Version 6.1**

**Last Updated: 19 May 2015**

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# OpenOPAC Installation Guide

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## Support:

Australia: 1300 260 795 (Local call cost in Australia)

### Email:

[support-amlib@oclc.org](mailto:support-amlib@oclc.org)

### Amlib Help Desk (TOPDesk):

<https://servicedesk.oclc.org/tas/public/>

### OCLC Amlib Support Documentation:

<https://www.oclc.org/support/services/amlib.en.html>

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[www.oclc.org/en-AU](http://www.oclc.org/en-AU)

# OpenOPAC Installation Guide

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# OpenOPAC Installation Guide

## WELCOME

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Welcome to the *OpenOPAC 6.1* 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

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

1. Pre-requisites
2. Install the 5 required services
  - Apache Tomcat
  - Backend Services
  - Open Search Services
  - Open Frontend Services
  - Open CentralFrontend Services
3. Configure *OpenOPAC*
4. Configure styling and behaviour
5. It can be installed on the Amlib server, NetOpac server or a separate server depending whether it's to be for internal use or external use

## BEFORE YOU BEGIN THE INSTALLATION...

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*Before Installing **OpenOPAC** you **must have** upgraded to or installed **Amlib 6.1** your server.*

### Read the Installation Notes First

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

If you have any questions please log a support call on TOPdesk

<https://servicedesk.oclc.org/tas/public/index.jsp> .

If you do not know your TOPdesk login please email [support-amlib@oclc.org](mailto:support-amlib@oclc.org) and we will send it to you.

### Serial Numbers Required for Installation of Amlib Modules

The *OpenOPAC 6.1* installation requires a serial key. Your library is covered for installation & use of OpenOPAC by your Library's Amlib NetOpac licence. Please contact Amlib Support via Topdesk <https://servicedesk.oclc.org/tas/public/index.jsp> before commencing the installation to receive this serial key.

# OpenOPAC Installation Guide

## OPEN SUPPORTED OPERATING SYSTEMS & SYSTEM REQUIREMENTS

<b>Operating System</b>	<ul style="list-style-type: none"><li>• <i>Windows Server 2003, 2008, 2012</i></li><li>• <i>Windows 7</i></li></ul>
<b>.Net Framework</b>	<ul style="list-style-type: none"><li>• <i>4.0 or later including Web Server (IIS) Support and HTTP Activation</i></li></ul>
<b>IIS</b>	<ul style="list-style-type: none"><li>• 6.1 or later with ASP.net support installed</li></ul>
<b>Java runtime</b>	<ul style="list-style-type: none"><li>• 6.1 or later</li></ul>
<b>Memory (RAM)</b>	<ul style="list-style-type: none"><li>• Minimum 4GB</li></ul>
<b>Hard Disk</b>	<ul style="list-style-type: none"><li>• Minimum 40GB depending on the size of the catalogue (Only applies to Solr search server)</li></ul>
<b>Browser</b>	<ul style="list-style-type: none"><li>• IE 7 or higher</li><li>• Chrome, Firefox, Opera</li><li>• Safari 5.1.7 or higher</li></ul>
<b>JavaScript</b>	<ul style="list-style-type: none"><li>• Must be activated</li></ul>
<b>Cookies</b>	<ul style="list-style-type: none"><li>• Must be activated</li><li>• Automatic mobile device detection does not work without cookies. When cookies are disabled, the site can't store culture information [eg. the language that is selected, and the date settings] and the login information is stored in a way that is considered to be unsafe.</li></ul>

**## PLEASE NOTE:** If you have previously upgraded to **Amlib 6** and have already installed **OpenOpac** at this time – we recommend you to totally uninstall the OpenOPAC and start over, using this new installer as this new installation corrects issues that other sites were having.

# OpenOPAC Installation Guide

## SECTION 1: PRE REQUISITES

---

If not installed already you must first install **.NET Framework Full version 4.0 or later** and **Java runtime version 6.1 or later**.

**IIS with ASP.NET** support must also be installed. For information on how to complete this please see **Appendix A and B**.

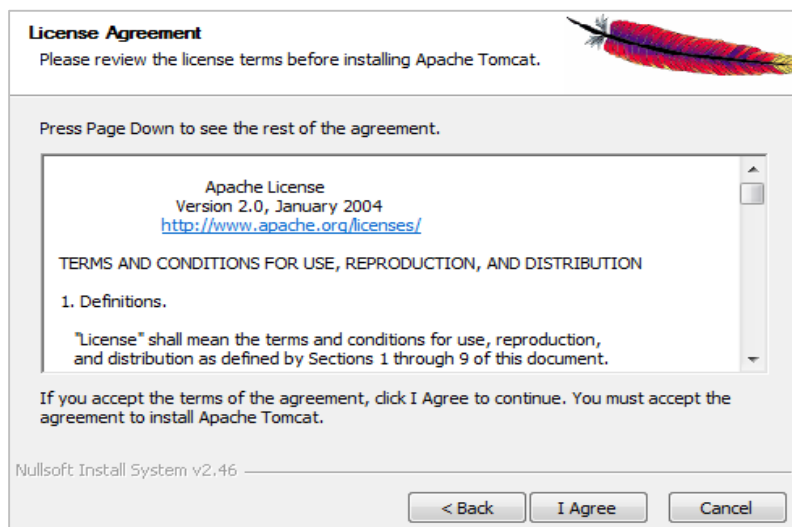
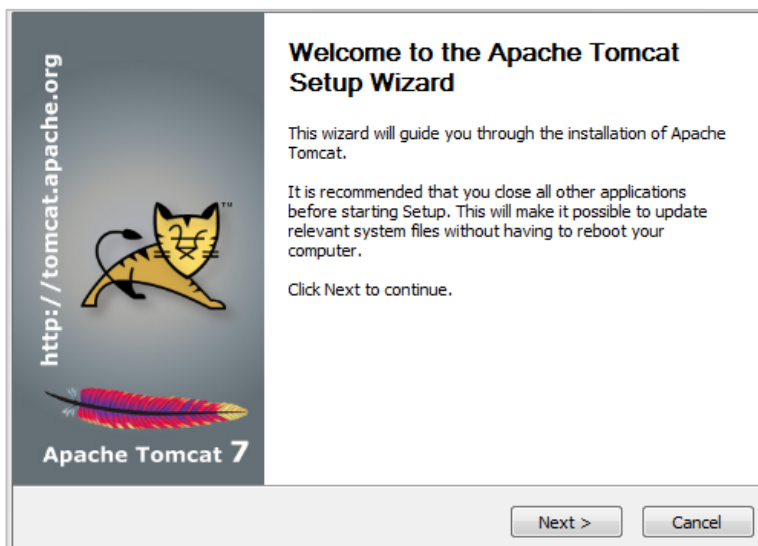
## SECTION 2: INSTALL THE 5 REQUIRED SERVICES

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OpenOPAC Software can all be found in the Version 6.1 folder, here under the '[Set up Programs](#)' tab in the Amlib support section on the OCLC.org website.

Install Service 1:          Install Apache Tomcat

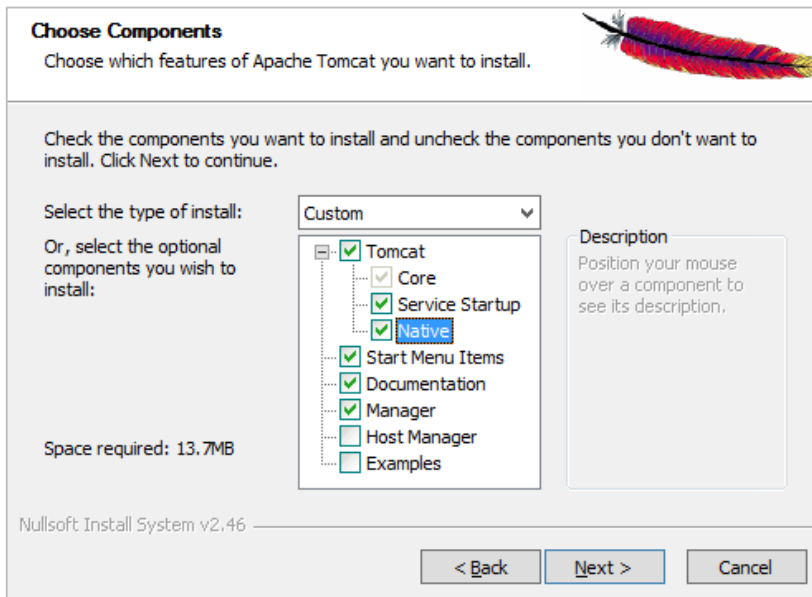
1. Run the installer [apache-tomcat-7.0.21.exe](#)
2. Select **Next**





# OpenOPAC Installation Guide

3. Select **I Agree**
4. Expand **Tomcat** in the tree and select **Service Startup** and **Native**, then Select **Next**



**Choose Components**  
Choose which features of Apache Tomcat you want to install.

Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.

Select the type of install: Custom

Or, select the optional components you wish to install:

- Tomcat
  - Core
  - Service Startup
  - Native
  - Start Menu Items
  - Documentation
  - Manager
  - Host Manager
  - Examples

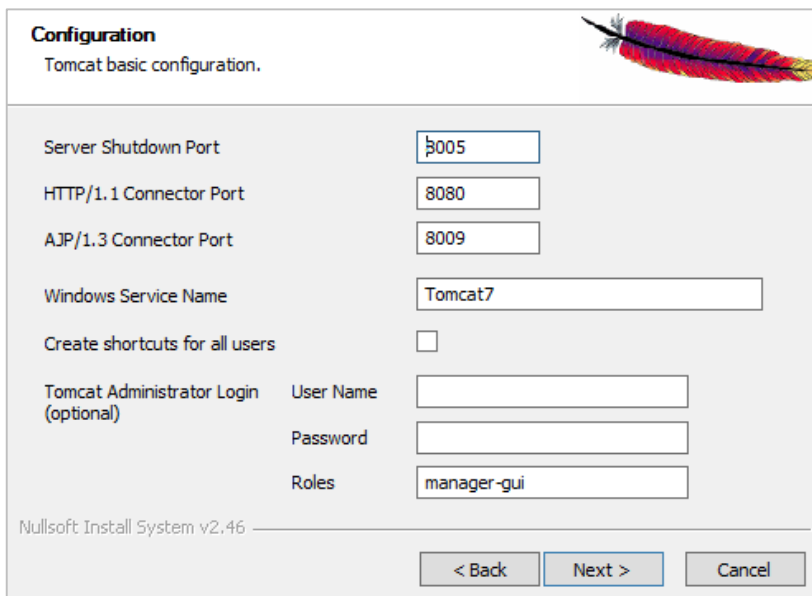
Space required: 13.7MB

Description  
Position your mouse over a component to see its description.

Nullsoft Install System v2.46

< Back Next > Cancel

5. The configuration options screen can be left at defaults, Select Next



**Configuration**  
Tomcat basic configuration.

Server Shutdown Port: 8005

HTTP/1.1 Connector Port: 8080

AJP/1.3 Connector Port: 8009

Windows Service Name: Tomcat7

Create shortcuts for all users:

Tomcat Administrator Login (optional)

User Name:

Password:

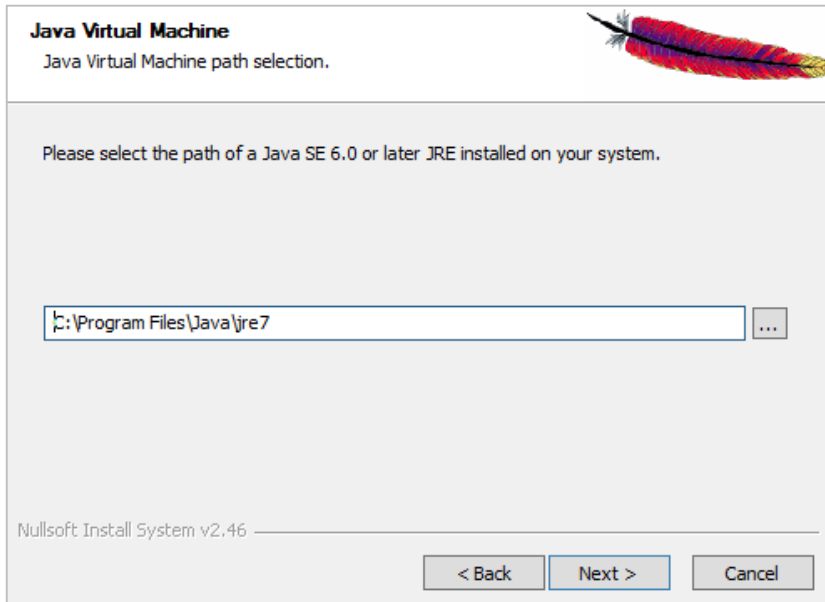
Roles: manager-gui

Nullsoft Install System v2.46

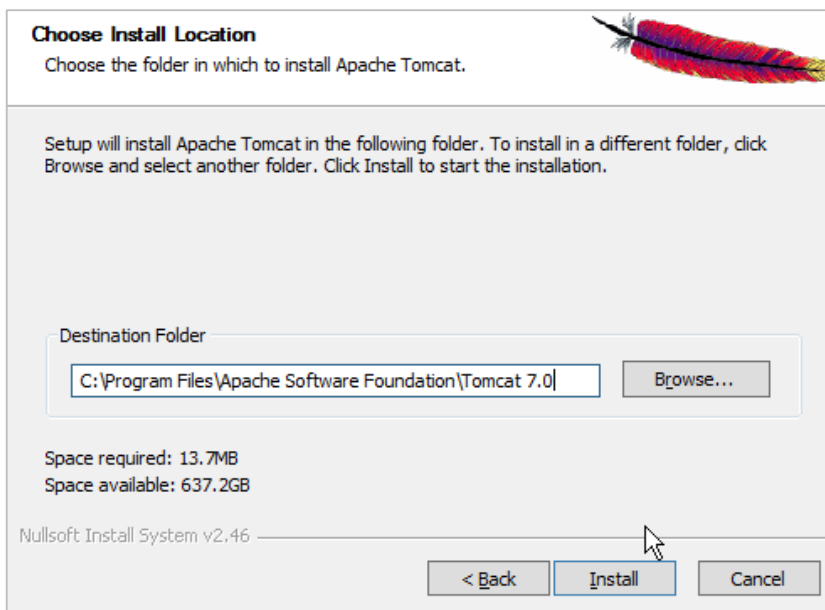
< Back Next > Cancel

6. The Tomcat installer will try and find the location of the Java installation on the system, if this is incorrect please correct it then Select Next

# OpenOPAC Installation Guide



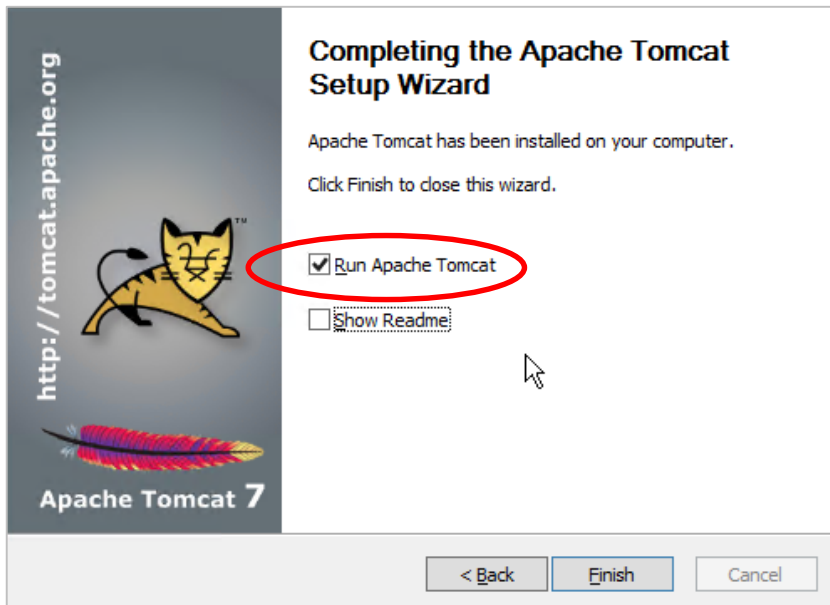
7. Select the folder that you would like Apache Tomcat to be installed to, we recommend the default location, then **Install**



8. Tomcat will be installed

# OpenOPAC Installation Guide

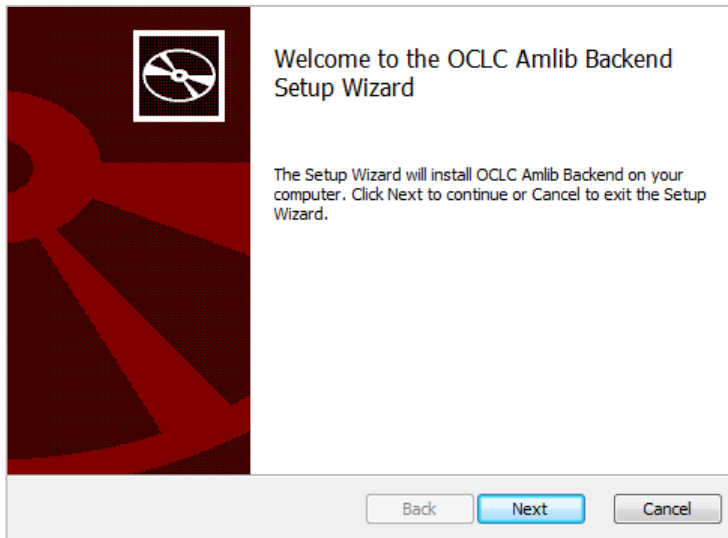
9. You can unselect Show Readme and then Select Finish. The service will then be started



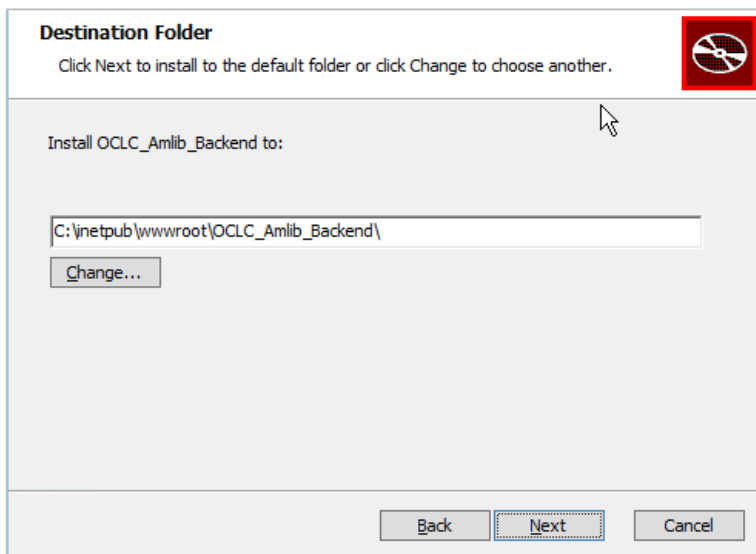
# OpenOPAC Installation Guide

## Install Service 2:    Install OCLC Amlib Backend Services

1. Run the installer [SetupOpenBackend.exe](#)
2. Select **Next**



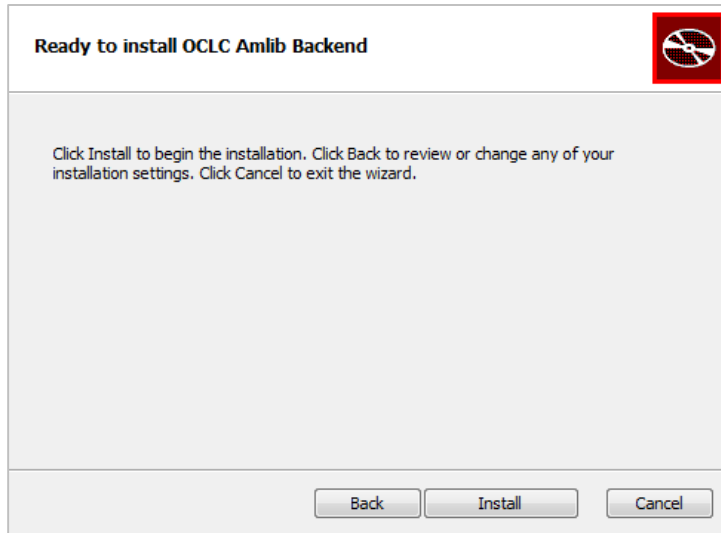
3. Select a **Directory to install** the Amlib Backend Service



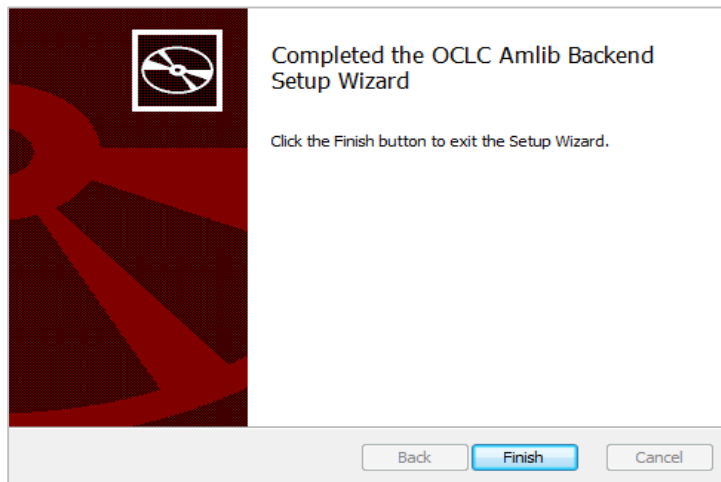
4. Select **Next**

# OpenOPAC Installation Guide

## 5. Select **Install**



## 6. Select **Finish** and the **Amlib Configuration Manager** should open automatically



## 7. The **AM** and **TE** databases will display as default

- **Please Note:** This configuration automatically has the **AM** [Live] and **TE** [Test] databases defined [but not set]

## 8. In the Amlib Systems tab, highlight the **Live** or **Test** database connector and Select the **Edit** button – the System Editor will open

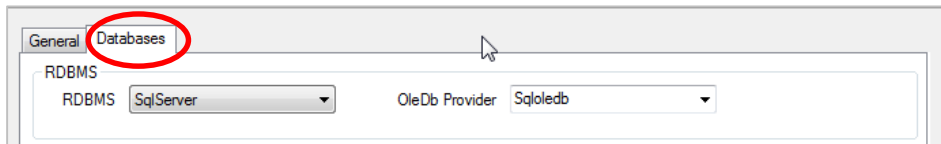
## 9. If your database prefix is not '**AM**' add a new connector by selecting the **New** button. On the General tab, enter the **Prefix** and a **Description** , otherwise continue with **step 6**



# OpenOPAC Installation Guide

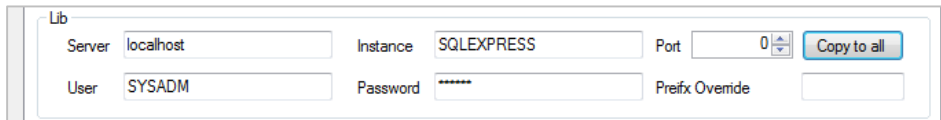
10. On the Databases tab, enter the following details:

- Choose the details for the **RDBMS** and **OleDbProvider** from the drop-down boxes



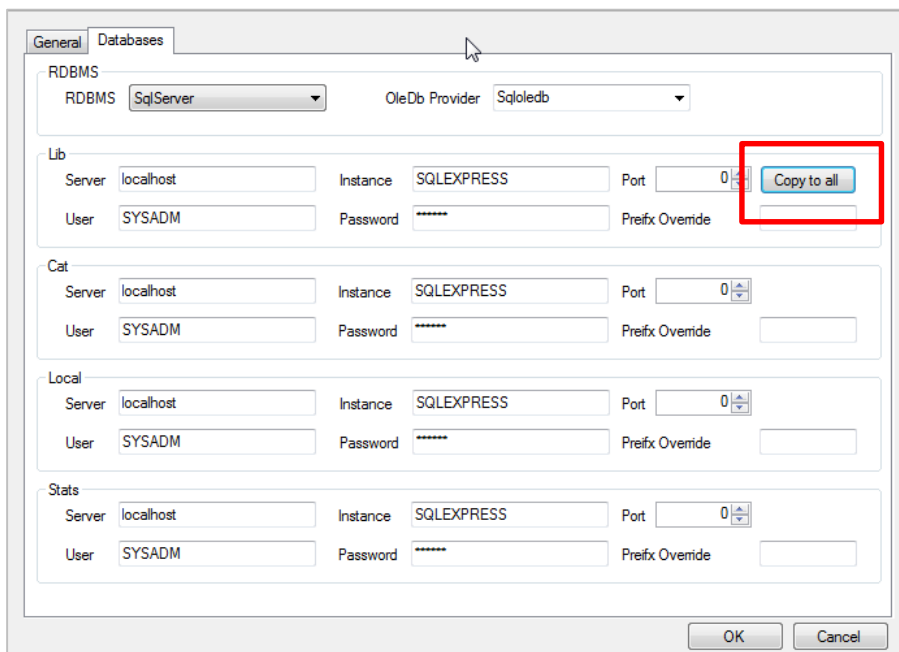
The screenshot shows the 'Databases' tab in a software interface. The 'RDBMS' dropdown menu is set to 'SqlServer' and the 'OleDb Provider' dropdown menu is set to 'Sqloledb'. A red circle highlights the 'Databases' tab label.

- Enter the details for the Lib database



The screenshot shows the 'Lib' database configuration section. It includes fields for 'Server' (localhost), 'Instance' (SQLEXPRESS), 'Port' (0), 'User' (SYSADM), and 'Password' (masked with asterisks). There is a 'Copy to all' button and a 'Prefix Override' field.

- Server – enter the name of the **Server** running your *Amlib* databases
- Instance – enter an **Instance** (only if required – otherwise leave as **Default**, an example would be SQLEXPRESS)
- Port – enter a **Port number** (if required – otherwise leave as **0** [for unused])
- User – enter the **Username** for the database connection
- Password – enter the **Password** for the database connection – the username and password should be the same as that the login for your other *Amlib* databases. **SYSADM/SYSADM** is the default login for most *Amlib* database setups.
- Select the **Copy to all** button to copy the details to the other database fields



The screenshot shows the 'Databases' tab with multiple configuration sections: 'RDBMS', 'Lib', 'Cat', 'Local', and 'Stats'. Each section has fields for 'Server', 'Instance', 'Port', 'User', and 'Password'. The 'Copy to all' button in the 'Lib' section is highlighted with a red box. 'OK' and 'Cancel' buttons are at the bottom.

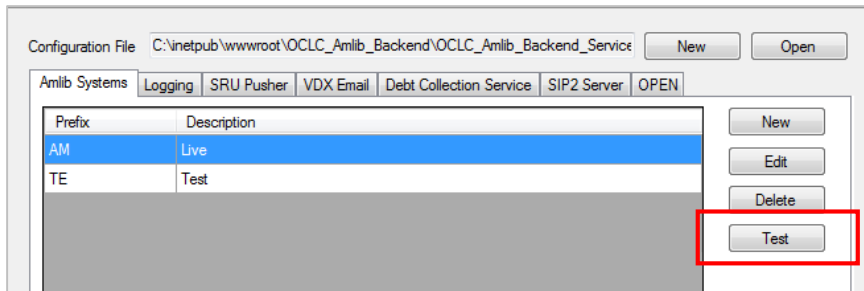
7. Select the **OK** button once complete – the System Editor window will close

# OpenOPAC Installation Guide

## Testing

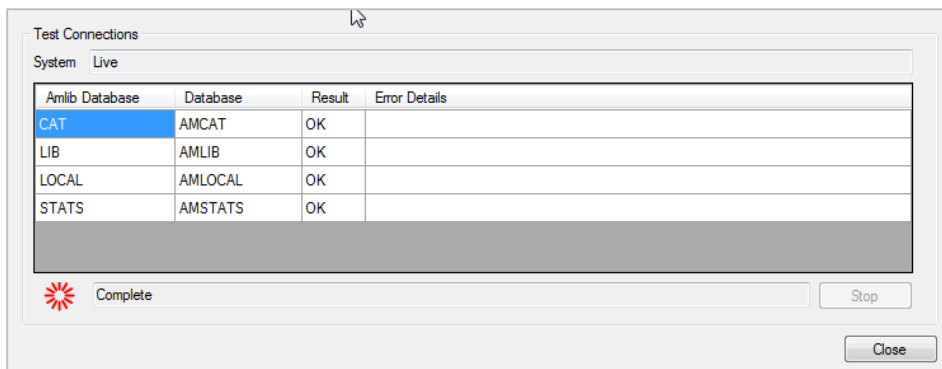
Once complete, the connection can be tested:

1. Highlight the relevant database – for example: **AM** – and Select the **Test** button

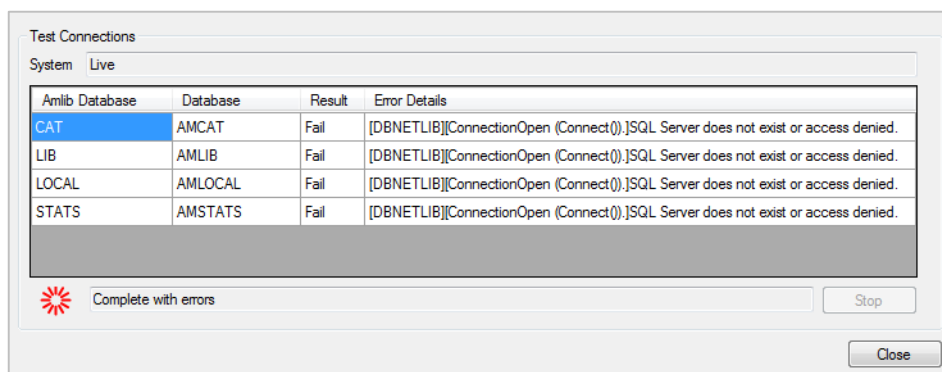


2. The Test Connections window will display with the result – if errors occur, the reason will display in the Error Details column:

- a. Test **successful** – all Results = **OK**:



Test **unsuccessful** – all Results = **Fail** with Error Details shown, Use the error details to guide you and go back and check your configuration:

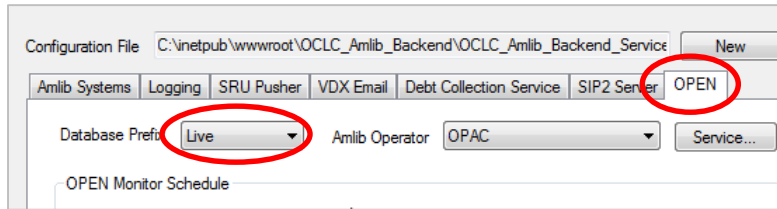


3. Select the **Close** button to close the **Test Connections** screen

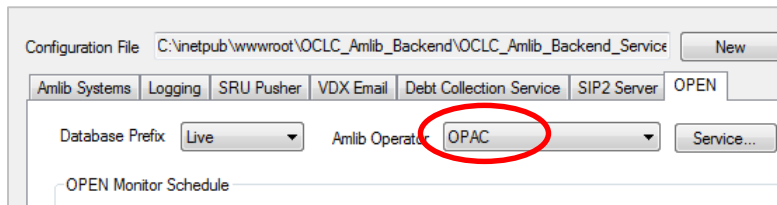
# OpenOPAC Installation Guide

## Configuring the connection for OPEN

1. Select the **OPEN** tab
2. Select the **Database prefix** for the one that has been configured



3. Select an **Amlib Operator** for example, **OPAC, STAFF** [depending on how it's been setup]



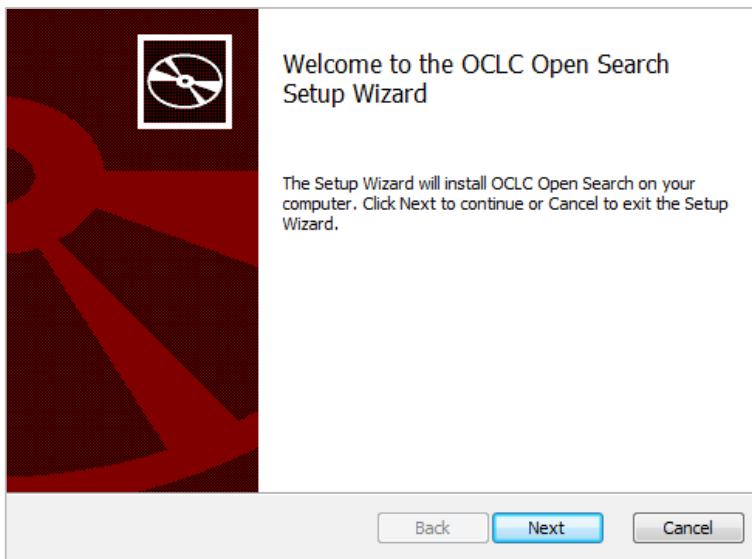
4. Select **Save**
5. Select **Exit**



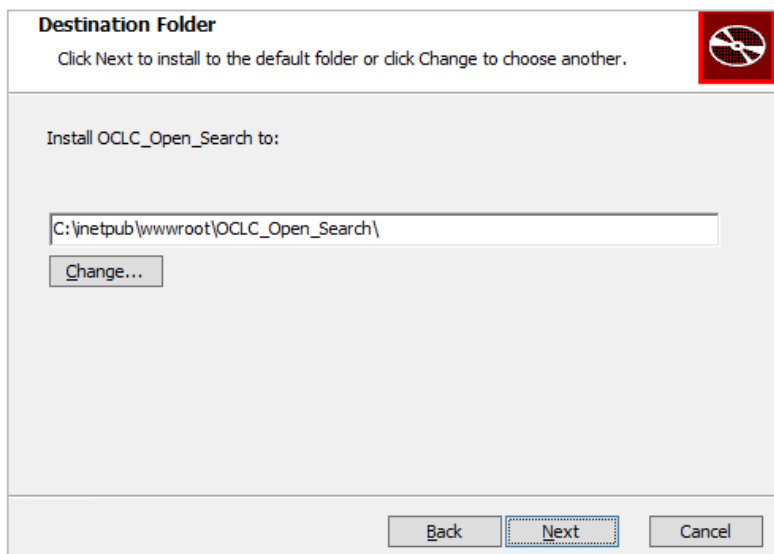
# OpenOPAC Installation Guide

## Install Service 3:    Install OCLC **Open Search Services**

1. Run installer [SetupOpenSearch.exe](#)
2. Select **Next**



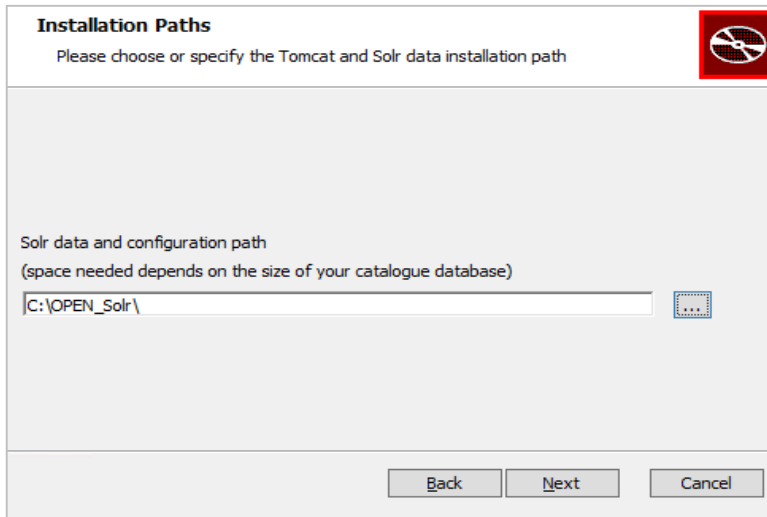
3. Select a **Directory to install** Open Search



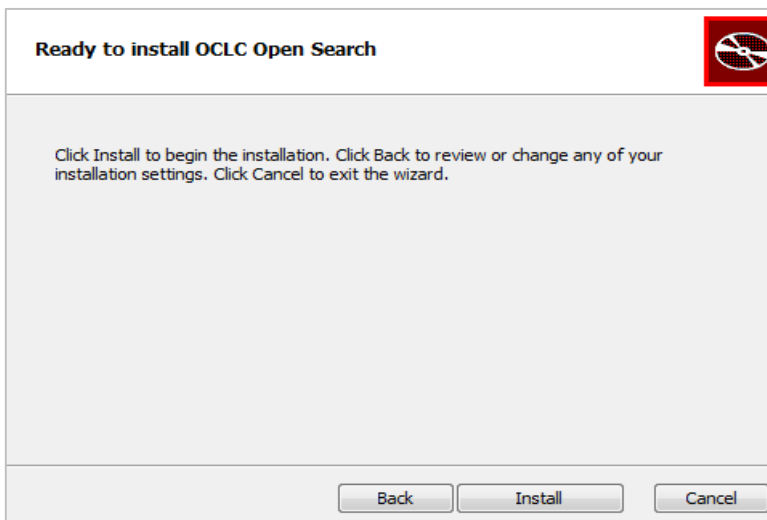
4. Select **Next**

# OpenOPAC Installation Guide

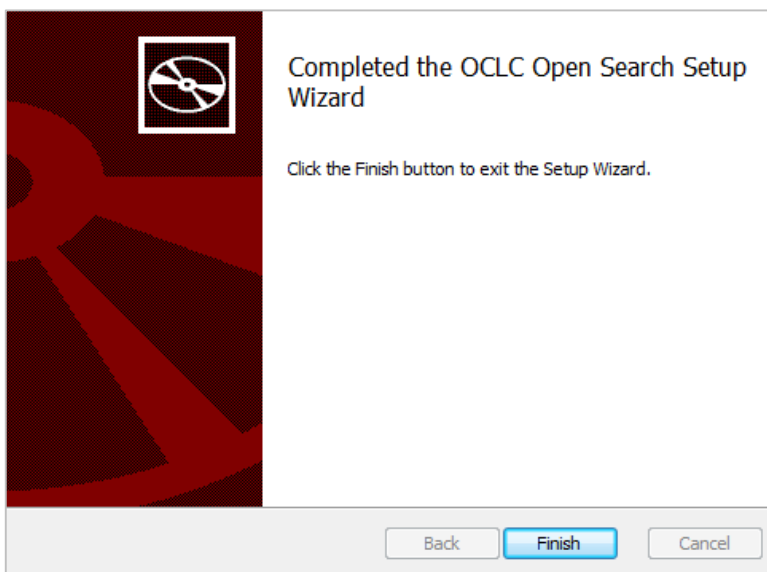
5. **Select a location** to install the Solr data and configuration, we suggest creating a folder for it



6. Select **Next**



7. Select **Install**

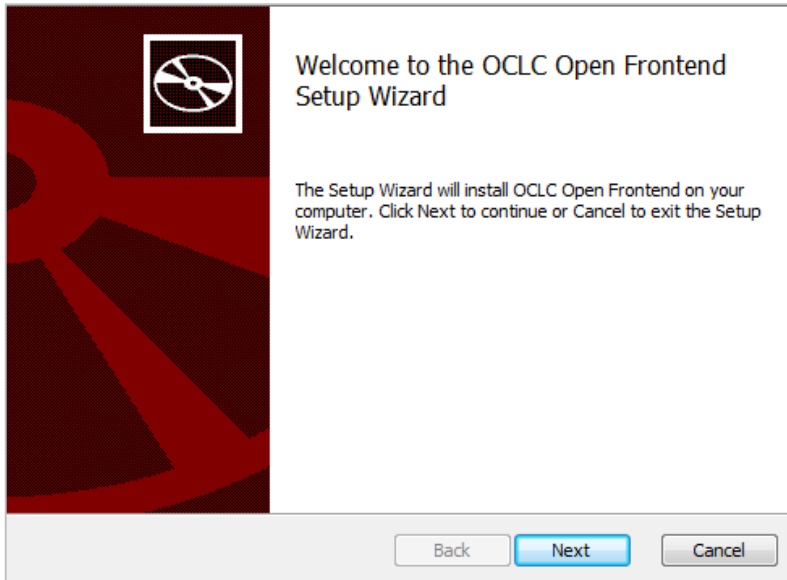


# OpenOPAC Installation Guide

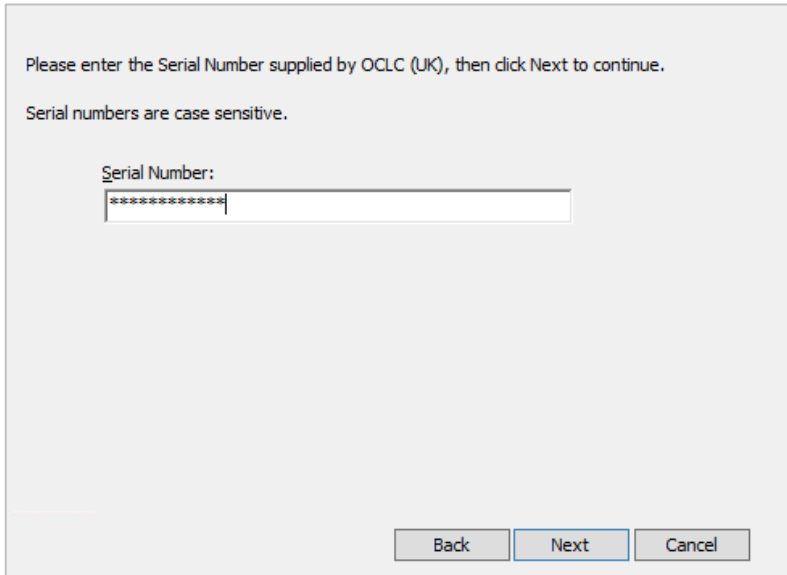
8. Select **Finish**

## Install Service 4:    Install OCLC Open Frontend Services

1. Run installer [SetupOpenFrontend.exe](#)
2. Select **Next**



3. Enter your **Serial Number** provided by OCLC

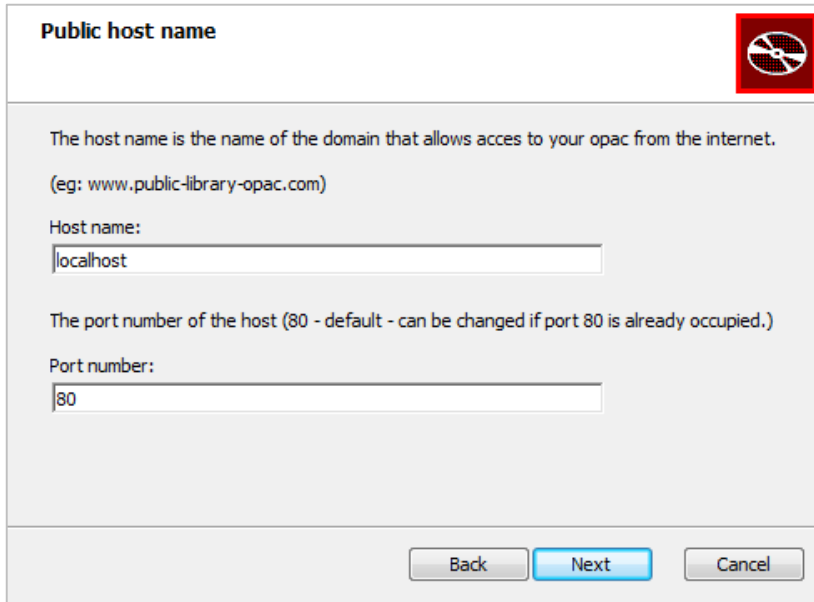


4. Enter the **host name**, this should be the host name of the server/computer or if it is only to be accessed via network or a public domain name eg: <http://library.yourinstitution.com>

# OpenOPAC Installation Guide

5. Enter the **port number**. This number should be the same as the port number your website runs off.

**Note:** In most instances this will port 80, however if you have NetOpac also installed on your server then you'll need to select a different port number such as Port 81 for OpenOPAC.



**Public host name**

The host name is the name of the domain that allows access to your opac from the internet.  
(eg: www.public-library-opac.com)

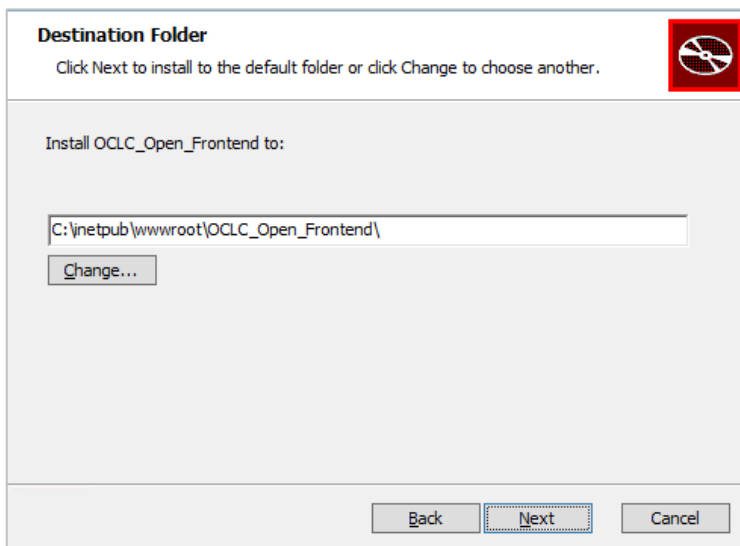
Host name:  
localhost

The port number of the host (80 - default - can be changed if port 80 is already occupied.)

Port number:  
80

Back Next Cancel

6. Select a **Directory to install** Open Frontend to



**Destination Folder**

Click Next to install to the default folder or click Change to choose another.

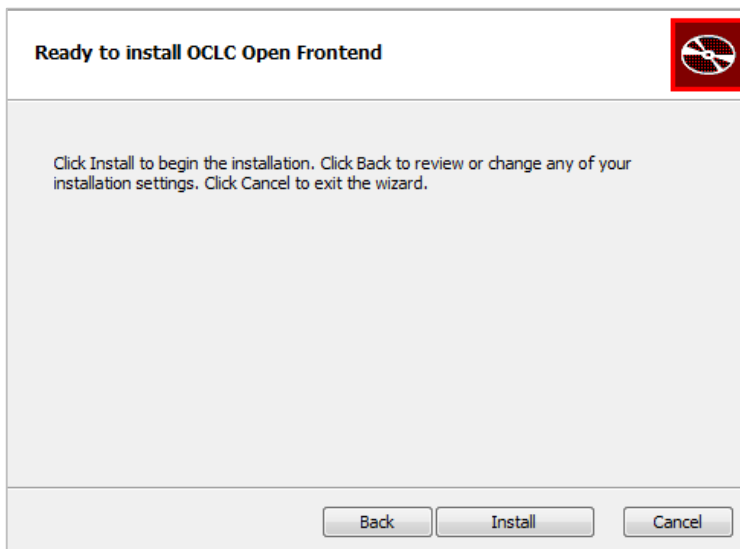
Install OCLC\_Open\_Frontend to:

C:\inetpub\wwwroot\OCLC\_Open\_Frontend\  
Change...

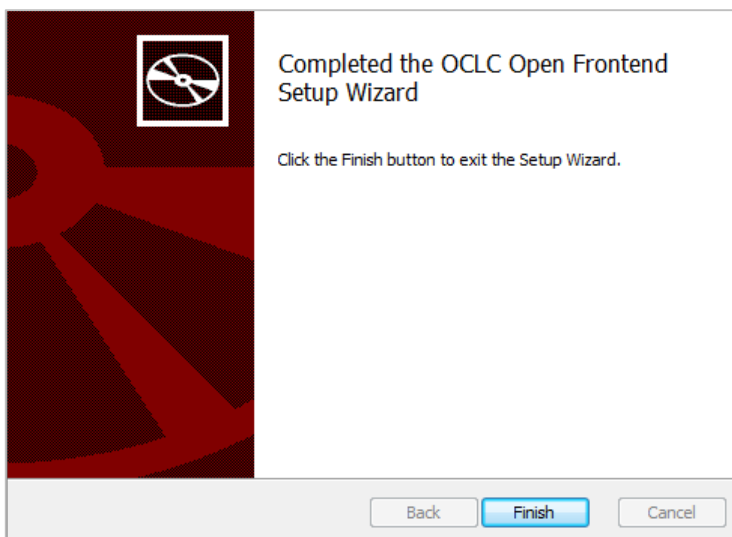
Back Next Cancel

7. Select **Next**

# OpenOPAC Installation Guide



## 8. Select **Install**

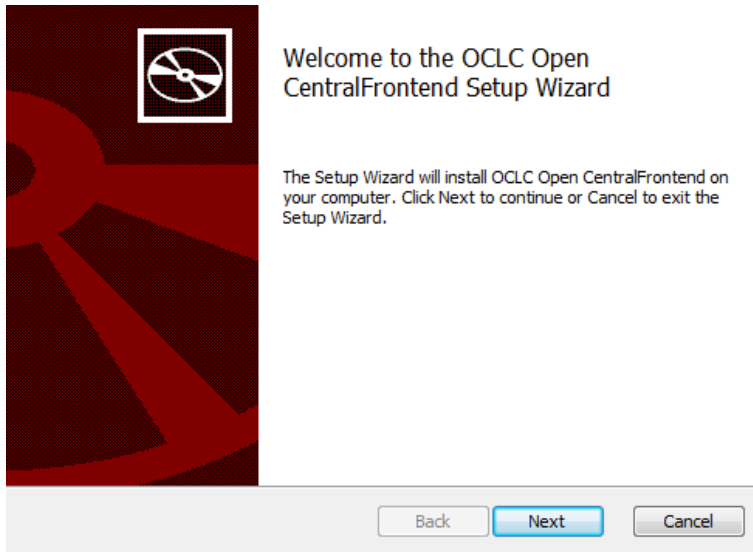


## 9. Select **Finish**

# OpenOPAC Installation Guide

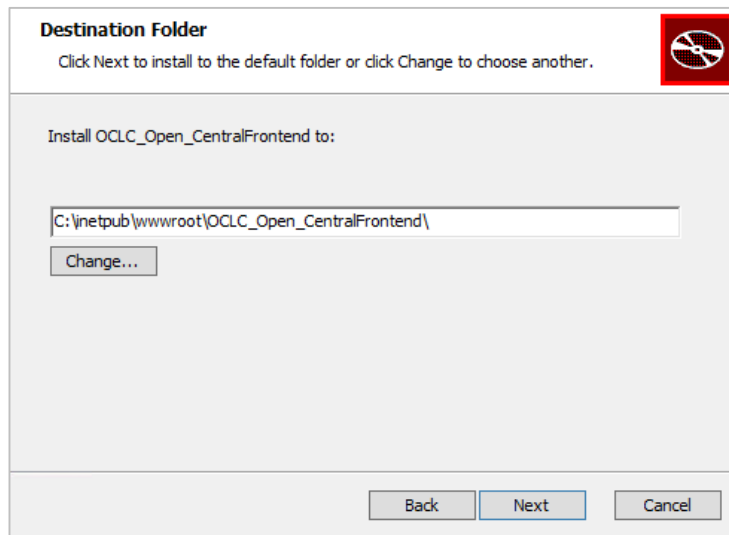
## Install Service 5:    Install OCLC Open\_CentralFrontend Services

1. Run installer **SetupOpenCentral.exe**



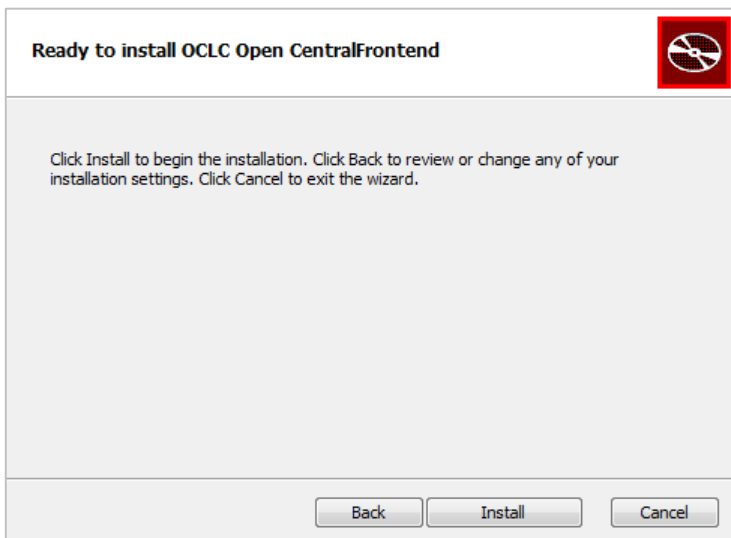
2. Select **Next**

3. Choose a **Directory to install** Open Central Frontend to

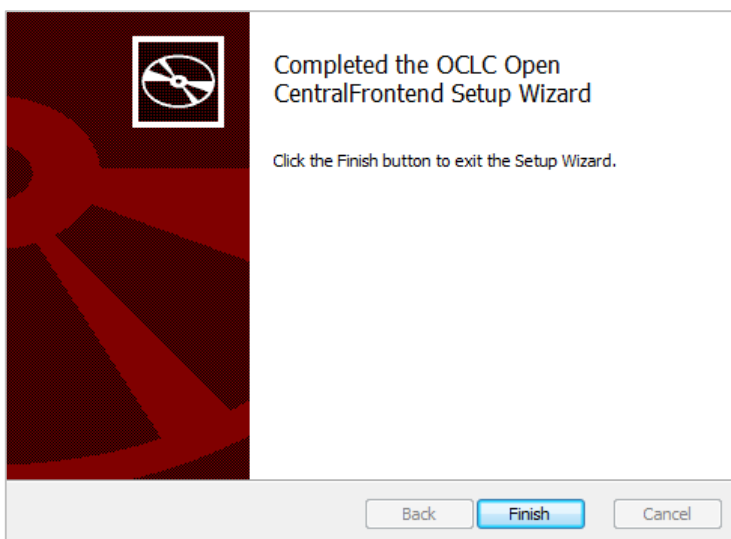


4. Select **Next**

# OpenOPAC Installation Guide



## 5. Select **Install**



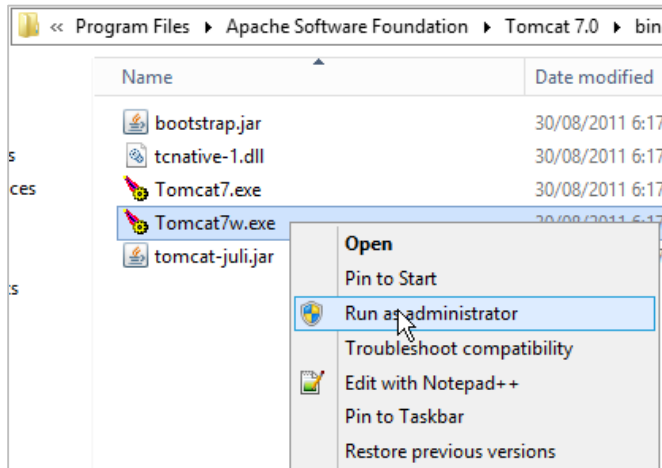
## 6. Select **Finish**

7. A browser window will load. **Minimise** it as it will be needed later.

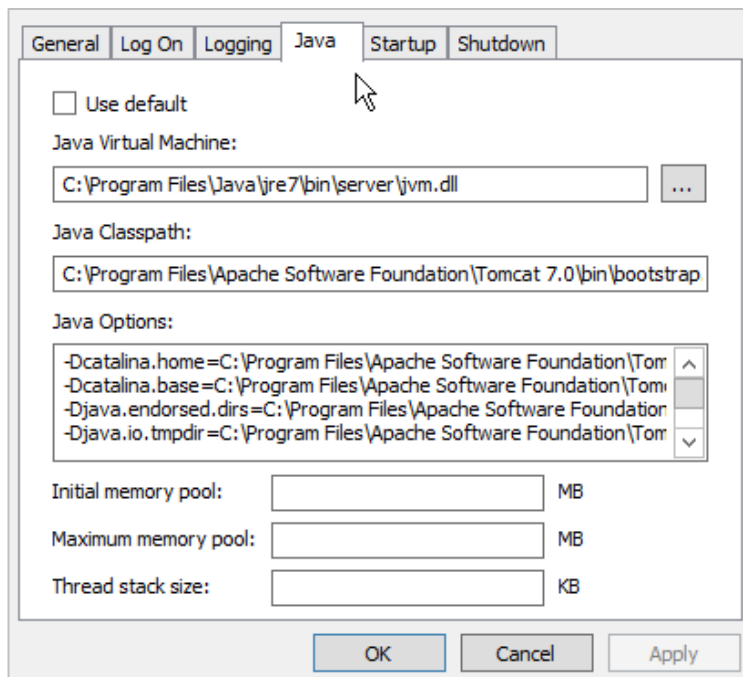
# OpenOPAC Installation Guide

## Configure Tomcat for Solr

1. Go to the bin folder of your Apache Tomcat Installation (Default: C:\Program Files\Apache Software Foundation\Tomcat 7.0\bin)
2. **Right Click** on **Tomcat7W.exe** and **Run as administrator**



3. Change to the **Java tab**

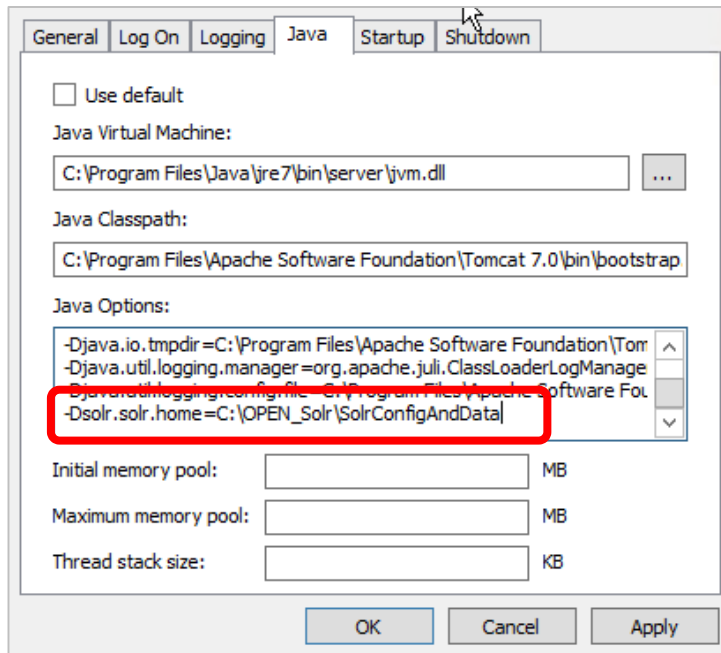


4. Under Java Options add the following line to the bottom of the list:  
**-Dsolr.solr.home=...\SolrConfigAndData**

**NOTE:** The dots must be replaced by the Solr folder specified during the installation of the Search setup (step 5 on page 13)

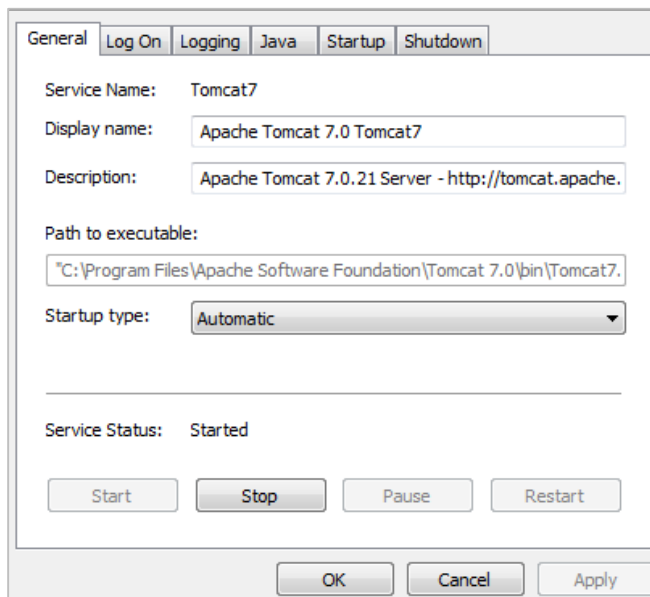


# OpenOPAC Installation Guide



5. Select **Apply**

6. Select on the **General tab**

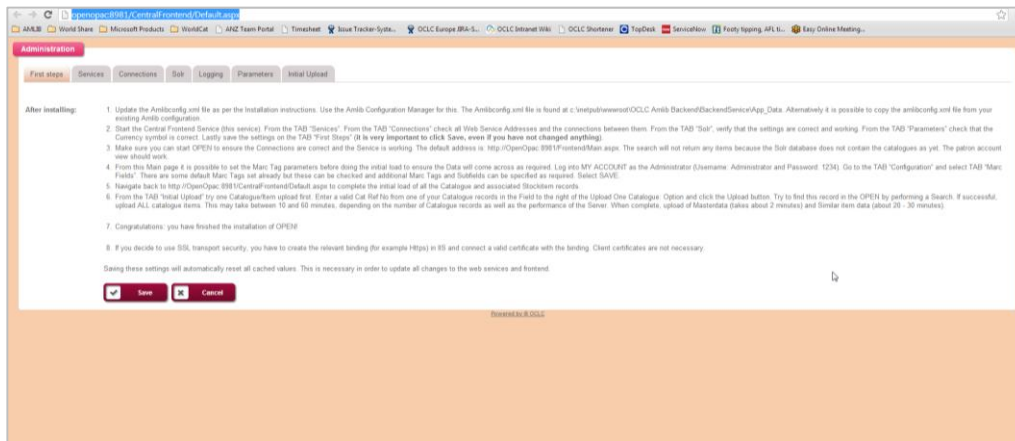


7. Select **Stop** then Select **Start** [to restart the service]

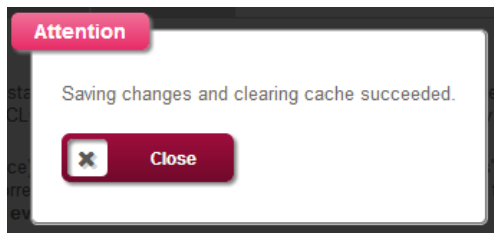
# OpenOPAC Installation Guide

## SECTION 4: CONFIGURE OPEN

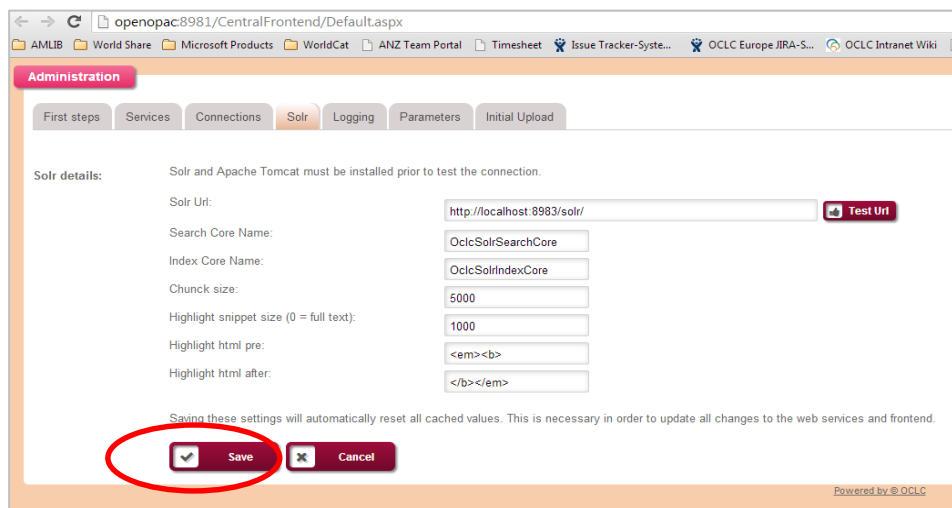
1. Open the browser window that you minimised before. It's URL will be <http://openopac:8981/CentralFrontend/Default.aspx>



2. If you plan to use the default configuration just Select save on this page and the system will notify you that it will recycle the app pools. If saving fails please contact customer support for assistance at [support-amlib@oclc.org](mailto:support-amlib@oclc.org) or call 1300 260 795

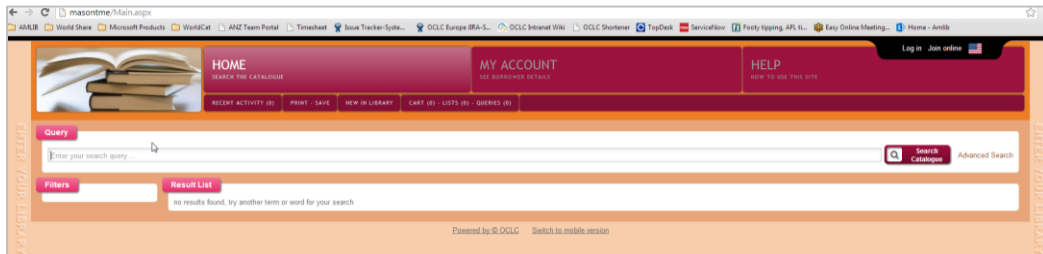


3. If you wish to have your own settings and not the default settings, then start the **Central Frontend Service** (this service). Check all web service addresses, and the desired connections between them (on the third tab – **'connections'**). Verify if the **Solr** settings on the **fourth tab** are correct and working.



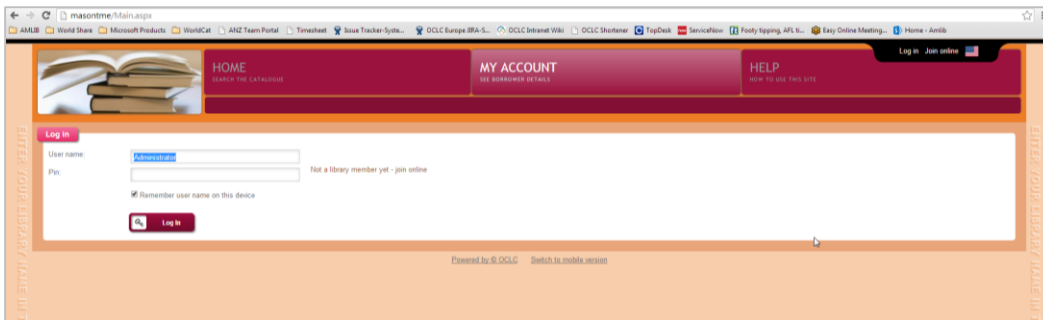
# OpenOPAC Installation Guide

4. Then save these settings (**it is very important to Select save, even if you have not changed anything**)
5. Now you can start the Opac Gui, the address will be <http://servername/Main.aspx> . The search will not return any items because the Solr database is not filled with catalogues yet. You can also test external or network access by navigating to the hostname entered in step 4 of page 14. eg <http://library.yourinstitution.com>



6. Before doing the initial load, there are some default Marc tags that are set to display in Open, Please Contact the Head Librarian to check these Marc tag settings before proceeding with install. As the librarian may wish to display specific tags in OpenOPAC. The Librarian will need to log in as the Administrator here <http://servername/Main.aspx> first, to set up these marc tags, before you can do the initial load.

7. To Log in as the administrator



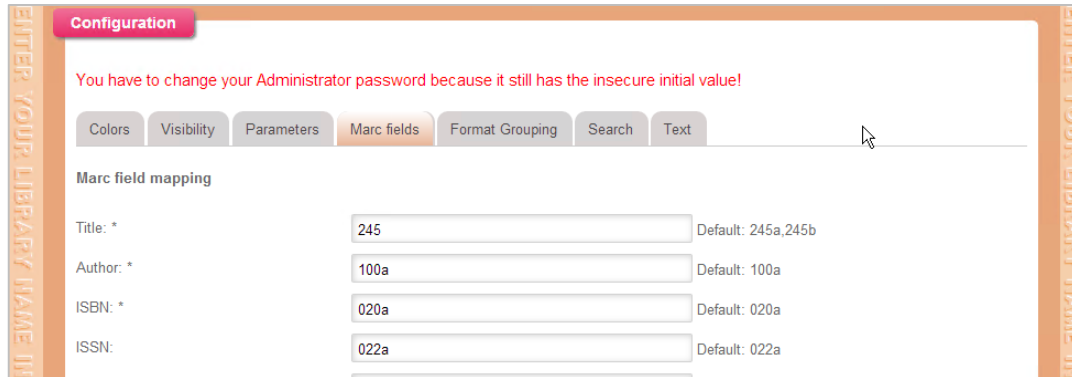
Select > **Log on** tab

**Username:** Administrator

**Password:** 1234 [ this is the default PIN, but we recommend the Librarian changes this PIN after installation is complete]

# OpenOPAC Installation Guide

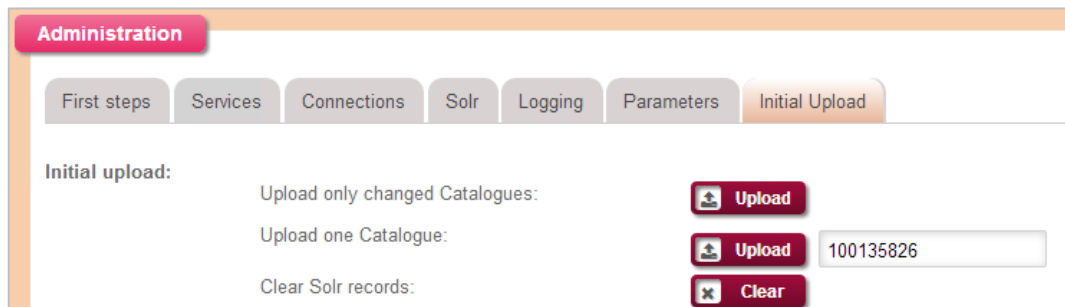
Go to the **Configuration tab** > select **Marc Fields** > then set them as you wish and select > **SAVE**



The screenshot shows the 'Configuration' page with the 'Marc fields' tab selected. A red message at the top states: 'You have to change your Administrator password because it still has the insecure initial value!'. Below this, there are tabs for 'Colors', 'Visibility', 'Parameters', 'Marc fields', 'Format Grouping', 'Search', and 'Text'. The 'Marc field mapping' section contains four rows of input fields with their respective default values:

Field	Value	Default
Title: *	245	245a,245b
Author: *	100a	100a
ISBN: *	020a	020a
ISSN:	022a	022a

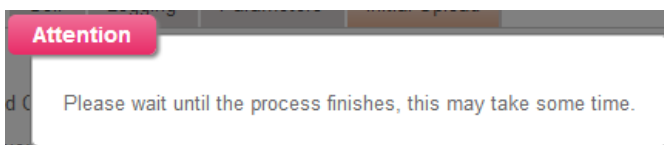
8. Navigate back to to <http://openopac:8981/CentralFrontend/Default.aspx> to complete your initial load of all your catalogue records.
9. Start the **Initial Upload** Data process. You can start them from the **Initial Upload Tab**. Try one Catalogue item upload first. Please specify a valid catalogue ID before you start the upload process. Please note that the stock item must be set to Opac? = Y and the catalogue must be set to Opac View Restriction = N. The Librarian will be able to assist with these settings.
10. Select on the **Initial Upload** tab and enter a valid catalogue reference number from Amlib and try uploading one catalogue [ must do this TEST first to ensure all is correct]



The screenshot shows the 'Administration' page with the 'Initial Upload' tab selected. The 'Initial upload:' section contains three rows of controls:

Upload only changed Catalogues:	<input type="button" value="Upload"/>
Upload one Catalogue:	<input type="button" value="Upload"/> <input type="text" value="100135826"/>
Clear Solr records:	<input type="button" value="Clear"/>

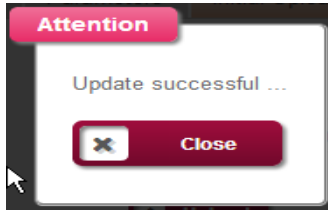
Please wait while the process executes



The screenshot shows an 'Attention' message box with the text: 'Please wait until the process finishes, this may take some time.'

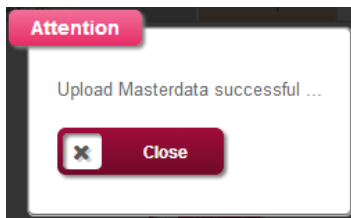
# OpenOPAC Installation Guide

The process will notify on success

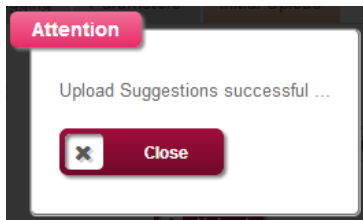


11. If everything completed successfully the process to upload all catalogue items can be started. This may take between 10 and 60 minutes, depending on the number of catalogue records and the performance of the server. *[If you cannot complete the 'Upload all Catalogues', because it stops or you get an error message before it completes, please take a screenshot of the error and contact [support-amlib@oclc.org](mailto:support-amlib@oclc.org) or call 1300 260 795 for advice on how this can be resolved.]*

12. Start the upload of **Master data** (takes about 2 minutes)



13. Start the upload of **Suggestions** (about 20 - 30 minutes)



14. Open is now configured and ready for use – with its default settings

15. Librarians will then need to log in as an **Administrator** on OpenOPAC and set up their own Configurations for Open, its theme colours, image, Library name, searches, the screen displays and all the settings required for their library. The [configuration guide](#) is available in the OCLC Downloads and Software Updates section, Version 6 to help you configure your OpenOPAC.

## Options:

16. If you decide to use SSL transport security, you have to create the according binding in IIS and connect a valid certificate with the binding. Client certificates are not necessary.

## OpenOPAC Installation Guide

17. If you want to use net.tcp as protocol for communication between the internal web services, you have to enable net.tcp on the virtual directory and enable net.tcp in the bindings of the web site (Not the virtual directory).
  
18. If this doesn't work check if net.tcp is installed with the windows version you are using (go to your installed Windows Features - in Control Panel / Programs and Features / turn Windows Features on or off) and check you have activated 'Windows Communication Foundation Non-HTTP Activation' (found under 'Microsoft .NET Framework 3.5 / 4.0 or higher')

# OpenOPAC Installation Guide

## SECTION 5: TROUBLESHOOTING

---

### *What services do I need to check if none of the pages from OpenOPAC can be accessed?*

- There are 2 potential areas that may need attention:
- **Tomcat:** This is most likely the issue. A better assumption can be made by inspecting the error being received.
- **IIS:** There may be an issue with IIS or its configuration. This is less likely and once again troubleshooting will depend on the error received.

### *Where are the services that I need to check when OpenOPAC is not working correctly?*

- There are four services that are application pools that can be accessed through IIS manager. These are:
- Apache Tomcat
- OCLC\_Amlib\_Backend
- OCLC\_Open\_CentralFrontend
- OCLC\_Open\_Frontend
- OCLC\_Open\_Search

### *How do I restart Tomcat if this stops working?*

- Find the Apache Tomcat Service inside Windows Services and restart it.

### *How do I restart the central front-end services?*

- This can be done by restarting IIS or recycling the application pools through IIS manager.

### *How do I restart Central services?*

- This can be done by restarting IIS or recycling the application pools through IIS manager.

### *When do I need to use the SAVE function?*

- As part of the initial configuration and when you have made supervisor/ parameter changes in the Amlib client, so the changes will be sent and updated to OpenOPAC.

### *If you cannot complete 'Upload all Catalogues' when doing the Initial Load, because it stops or you get an error message before it fully completes ...*

- There could be an issue with your tables or indexes in the database, please log a support call on TOPdesk and attach a screen shot of the error message. If you do not know your TOPdesk login please email support-amlib@oclc.org and we will send it to you.

### **Have I installed the 4 main services?**

- To check if you are unsure you have done all of them, before proceeding > go to C:\inetpub\wwwroot\ in this folder you will see 4 folders with the following names: Backend Services ; Open Search Services; Open Frontend Services; Open CentralFrontend Services

# OpenOPAC Installation Guide

## How do I check if a catalogue update/change has occurred in OPEN ?

- Go to Main > Supervisor > Supervisor > Library Menu > OpenTransactions – you can see what has been updated and is waiting to be transferred across to Open.
- Highlight the record in question: you can either select F4 Delete to delete an update or select F5Query to check whether it's been updated yet.
  - If it has, it will disappear from this table, when you select F5Query.
  - If you select F8Cat you will see what Catalogue record has been updated or is awaiting update in Open.

## How do I ensure parameter changes I make in Amlib are transferred to OpenOPAC [such as supervisor or loan parameter settings]?

- Go to the Open Central Frontend Gui  
<http://openopac:8981/CentralFrontend/Default.aspx>  
and select > First Steps tab > select SAVE

When you get this error: Content from the Website listed below is being blocked by IE enhanced Security Configuration when you go to

<http://openopac:8981/CentralFrontend/Default.aspx>



And see the page load incorrectly - where it appears to all be on the one page and Tabs do not open



# OpenOPAC Installation Guide

3. Make sure you can start OPEN to ensure the Connections are correct and the Service is working. The default should work.

4. From this Main page it is possible to set the Marc Tag parameters before doing the initial load to ensure the Fields". There are some default Marc Tags set already but these can be checked and additional Marc Tags added.

5. Navigate back to <http://OpenOpac:8981/CentralFrontend/Default.aspx> to complete the initial load of all the Catalogue items.

6. From the TAB "Initial Upload" try one Catalogue/Item upload first. Enter a valid Cat Ref No from one of your Catalogue items. This may take between 10 and 60 minutes, depending on the number of Catalogue items.

7. Congratulations: you have finished the installation of OPEN!

8. If you decide to use SSL transport security, you have to create the relevant binding (for example Https) in IIS.

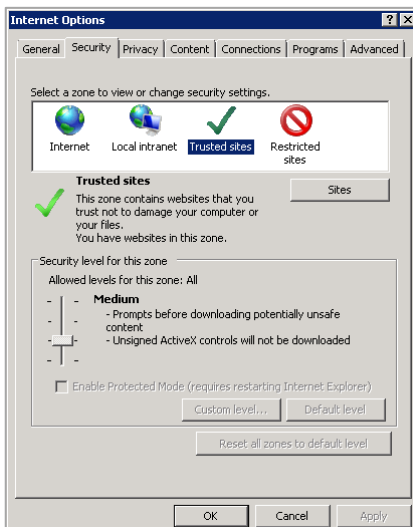
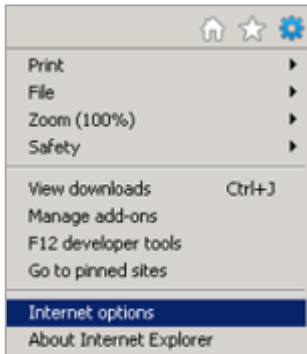
Please specify all protocols that are enabled in IIS. If the addresses specified here are invalid the Opac system will not work.

Lms Service Http:	<input type="text" value="http://OpenOpac:8981/BackendService/Services/LmsService.svc"/>	<input type="checkbox"/>	Test
Lms Service Https:	<input type="text" value="https://OpenOpac:8981/BackendService/Services/LmsService.svc"/>	<input type="checkbox"/>	Test
Search Service Http:	<input type="text" value="http://OpenOpac:8981/SearchService/Services/SearchService.svc"/>	<input type="checkbox"/>	Test
Search Service Https:	<input type="text" value="https://OpenOpac:8981/SearchService/Services/SearchService.svc"/>	<input type="checkbox"/>	Test
Central Service Http:	<input type="text" value="http://OpenOpac:8981/CentralFrontendService/CentralFrontendService.svc"/>	<input type="checkbox"/>	Test
Central Service Https:	<input type="text" value="https://OpenOpac:8981/CentralFrontendService/CentralFrontendService.svc"/>	<input type="checkbox"/>	Test
Frontend Service Http:	<input type="text" value="http://OpenOpac:8981/FrontendService/FrontendService.svc"/>	<input type="checkbox"/>	Test
Frontend Service Https:	<input type="text" value="https://OpenOpac:8981/FrontendService/FrontendService.svc"/>	<input type="checkbox"/>	Test

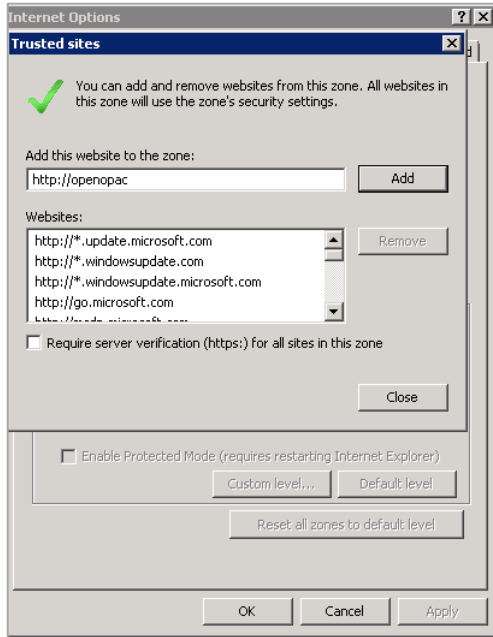
Please specify only protocols that are enabled in IIS. The connections specified here are to be used by the component.

Direction
FromAnyToCentralService
FromAnyToFrontend

Need to add this site as a trusted site



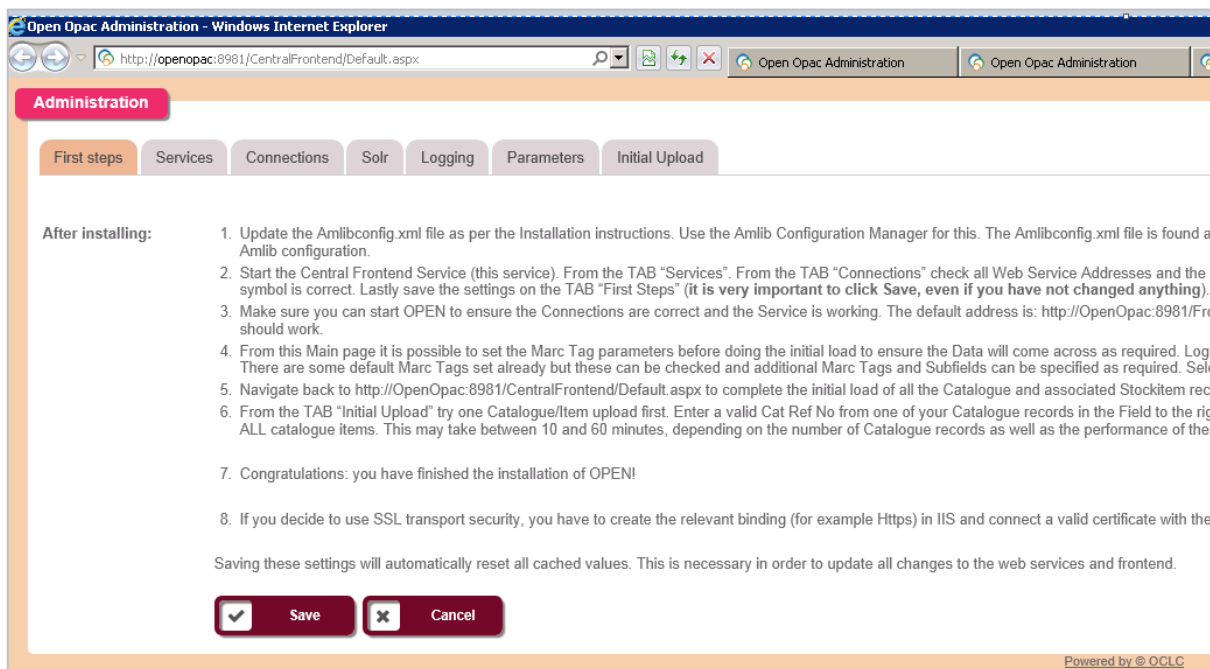
# OpenOPAC Installation Guide



Add <http://openopac> as a trusted site select **ADD** and **APPLY**

Close and refresh browser:

It will now open correctly



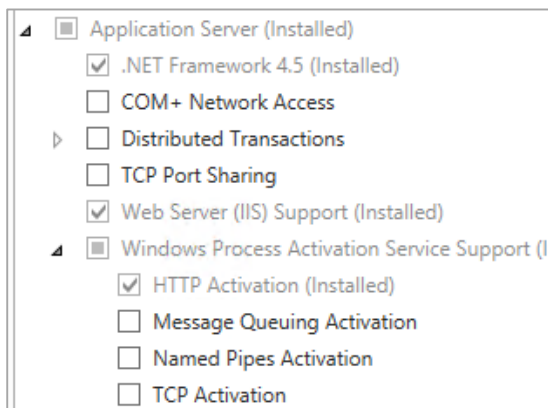
# OpenOPAC Installation Guide

## APPENDIX A: INSTALLATION OF REQUIRED .NET COMPONENTS

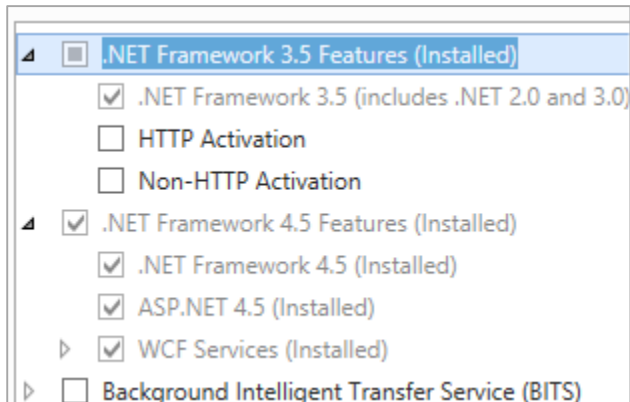
---

### Windows Server 2012

1. On the **Start** page, Select the **Server Manager** tile, and then Select **OK**.
2. In **Server Manager**, select **Dashboard**, and Select **Add roles and features**.
3. In the **Add Roles and Features Wizard**, on the **Before you begin** page, Select **Next**.
4. On the **Select installation type** page, select Role-based or feature-based installation, and Select **Next**.
5. On the **Select destination server** page, select a server from the server pool, select your server, and Select **Next**.
6. On the **Select server roles** page, expand **Application Server** and ensure the following is installed:



7. On the next page make sure the following are installed:



8. Confirm and finalise installation, please note that you may require the Windows Server 2012 installation media to complete this installation

### Windows Server 2008

Please run the .NET installer provided with the OpenOPAC installers.

### Install IIS with .NET support on Windows Server 2012

1. On the **Start** page, Select the **Server Manager** tile, and then Select **OK**.
2. In **Server Manager**, select **Dashboard**, and Select **Add roles and features**.
3. In the **Add Roles and Features Wizard**, on the **Before you begin** page, Select **Next**.
4. On the **Select installation type** page, select Role-based or feature-based installation, and Select **Next**.
5. On the **Select destination server** page, select **Select a server from the server pool**, select your server, and Select **Next**.
6. On the **Select server roles** page, select **Web Server (IIS)**, and Select **Next**.
7. On the **Select features** page, Select **Next**.
8. On the **Web Server Role (IIS)** page, Select **Next**.
9. On the **Select role services** page, note the preselected role services that are installed by default, expand the **Application Development** node, and then select **ASP.NET 4.5**. (If you installed **.NET 3.5**, select **ASP.NET 3.5** also.)
10. On the **Summary of Features to install** page, confirm your selections, and then Select **Install**.
11. In the **Add features that are required for ASP.NET 4.5?** box, Select **Add Features**.

- The following additional features are added:

12. **.NET Extensibility 4.5**
13. **ISAPI Extensions**
14. **ISAPI Filters**
15. **.NET Extensibility 3.5** (If **ASP.NET 3.5** was selected)
16. Select **Next**.
17. On the **Confirm installation selections** page, Select **Install**.
18. On the **Installation progress** page, confirm that your installation of the Web Server (IIS) role and required role services completed successfully, and then select **Close**.
19. To verify that IIS installed successfully, type the following into a web browser:  
**http://localhost**  
The default IIS Welcome page is displayed.

# OpenOPAC Installation Guide

## Install IIS with .NET support on Windows Server 2008 or 2008 R2

1. Select **Start**, point to **Administrative Tools**, and then Select **Server Manager**.
2. In **Roles Summary**, Select **Add Roles**.
3. Use the **Add Roles Wizard** to add the **Web server** role.
4. On the **Select Role Services** page, note the preselected role services that are installed by default, and then select the following additional role services:
  - **ASP.NET**
  - **.NET Extensibility**
  - **Request Filtering**
  - **ISAPI**
  - **ISAPI Extensions**
5. On the **Summary of Features to install** page, confirm your selections, and then Select **Install**.
6. On the **Installation Results** page, confirm that your installation of the Web Server (IIS) role and required role services completed successfully, and then select **Close**.
7. To verify that IIS installed successfully, type the following into a Web browser:  
**http://localhost**  
You should see the default IIS Welcome page.

## Install IIS with .NET support on Windows 7 and Windows Vista

1. Select **Start**, and then Select **Control Panel**.
2. In **Control Panel**, Select **Programs**, and then Select **Turn Windows features on or off**.
3. In the **Windows Features** dialog box, Select **Internet Information Services** to install the default features, and then select the following additional features:
  - **ASP.NET**
  - **.NET Extensibility**
  - **Request Filtering**
  - **ISAPI**
  - **ISAPI Extensions**
4. Select **OK** to close the **Windows Features** dialog box.
5. To verify that IIS installed successfully, type the following into a Web browser:  
**http://localhost**  
You should see the default IIS Welcome page.

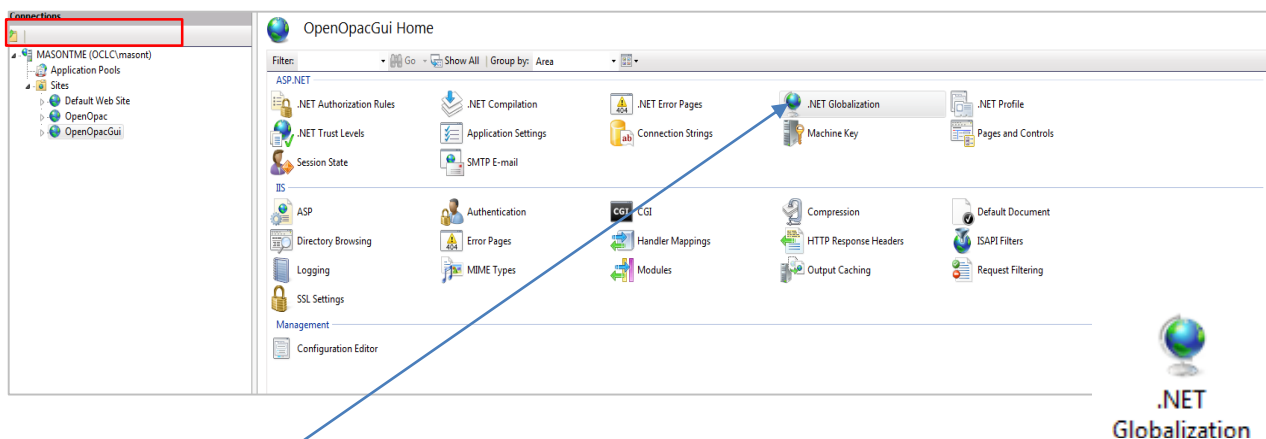
# OpenOPAC Installation Guide

## APPENDIX C: LANGUAGE AND DATE CONTROL OF BROWSERS VIA IIS SETTINGS]

To control the language setting of all your browsers in your institution /library who are accessing the OpenOPAC, you will need to change 2 settings in IIS [Internet Information Services manager]

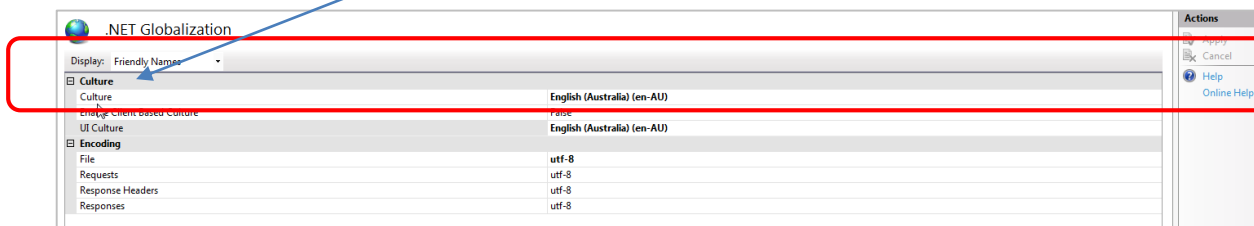
Open IIS7

Highlight **OpenOpacGui** in your sites folder on the left

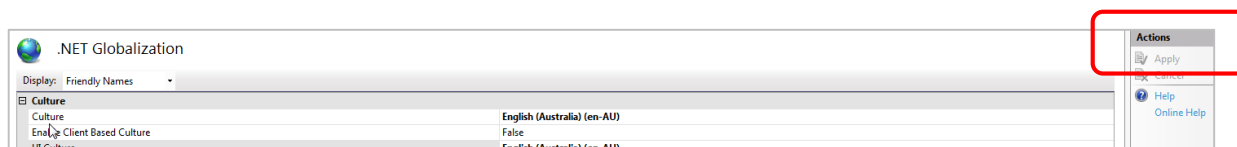


Select **Net.Globalisation** from the ASP.NET box under **OpenOpacGui** home Page

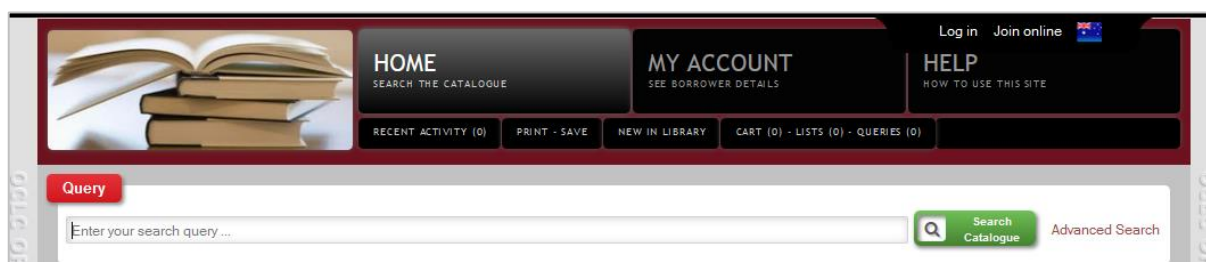
There will be a drop down menu besides **Culture** and **UI Culture**



Change both of these to **English (Australia) (en-AU)** and then select **Apply** in the top right hand corner.



This will ensure that the flag in the top right hand corner of your browser when you access the OpenOpac will always be the Australian flag. This setting appears to affect Chrome, Firefox and IE.



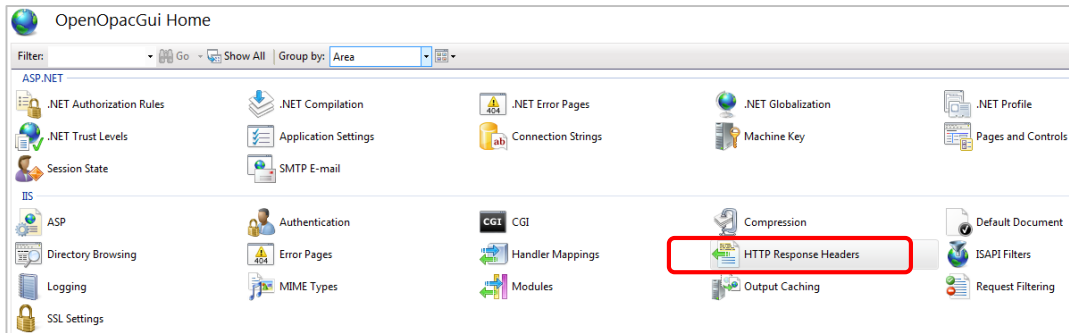
# OpenOPAC Installation Guide

## APPENDIX D: FORCING COMPATIBILITY MODE TO BE TURNED OFF IN IIS7

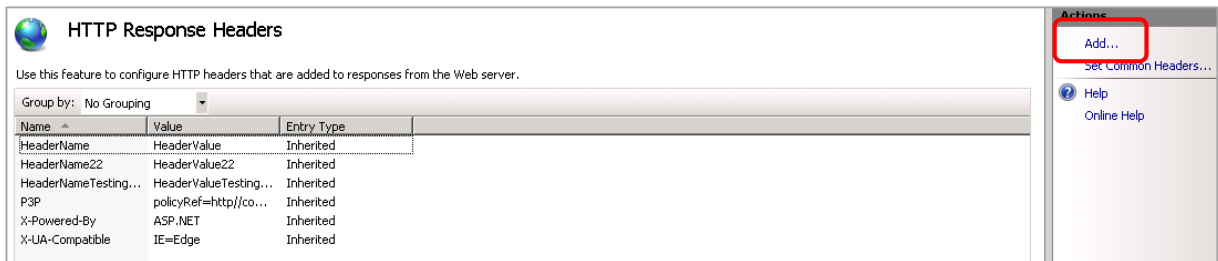
If OpenOPAC is opening in Compatibility Mode when using Internet Explorer it can be **turned off** via IIS. This is recommended if external users are accessing the website and having Compatibility Mode issues.

### IIS 7 and IE 7 -9

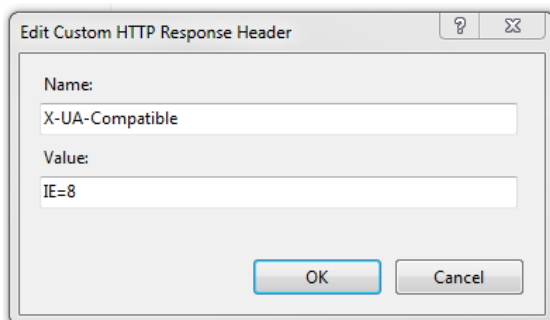
1. Open IIS [ Internet information Service Manager]
2. Highlight OpenOPACGui
3. Select HTTP Response Headers from under OpenOPACGui home page



4. Select **Add** on right –top hand side



5. A pop-up box labelled **Add Customer HTTP Response Header** will appear

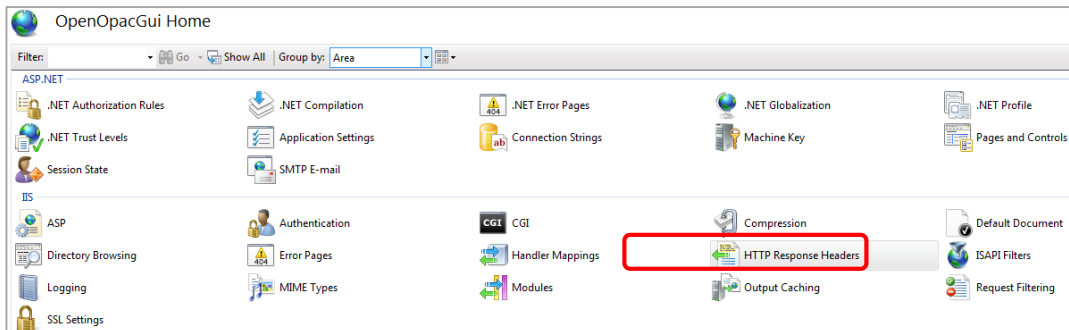


6. Type in **X-UA-Compatible** In the Name field
7. Type in **IE=8** Value field
8. Then select **OK**
9. This will cause **IIS** to open in Internet Explorer to display OpenOPAC as if it was Internet on Explorer 8.

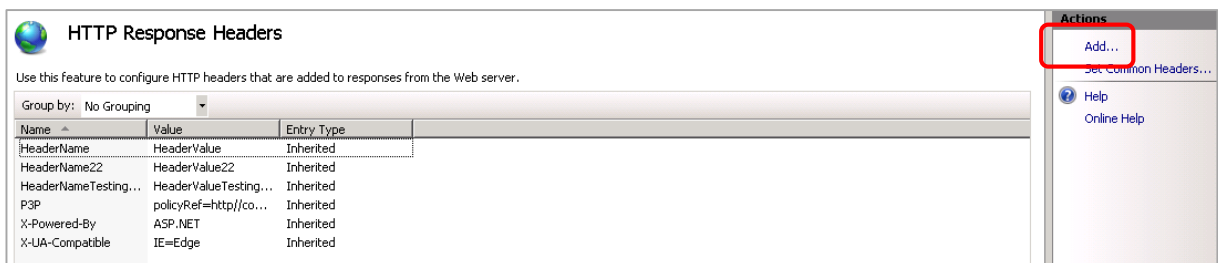
# OpenOPAC Installation Guide

## IIS 7 and IE 10 -11

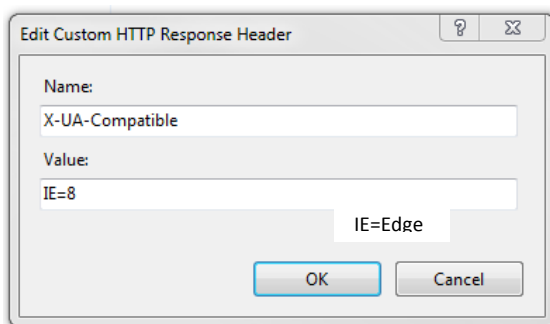
1. Open IIS [ Internet information Service Manager]
2. Highlight OpenOPACGui
3. Select HTTP Response Headers from under OpenOPACGui home page



4. Select **Add** on right –top hand side



5. A pop-up box labelled **Add Customer HTTP Response Header** will appear



6. Type in **X-UA-Compatible** In the Name field
7. Type in **IE=EDGE** Value field
8. Then select **OK**
9. This will cause **IIS** to open in Internet Explorer to display OpenOPAC with compatibility mode turned off [ Warning **Edge** is sometimes unstable and is considered the setting for non-production sites, if you have any issues using this setting, then try IE=8 as the value instead]



# OpenOPAC Installation Guide

## APPENDIX E: TO HAVE A PUBLIC [EXTERNAL] FACING OPENOPAC

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So that your OpenOPAC can be accessed from a webpage [publically] such as a council site or maybe a school website. There are two choices depending on how your network is set up, what is accessible and what is not and what your institutions preferences are.

OpenOPAC can be installed anywhere on your Network, it does not need to be installed on your Amlib server or even on an Internal server, as long as OpenOPAC has access to the Amlib databases that is all that is required for it to run. Some clients will install this program on a Web-Server or in a De-militarized zone [DMZ] so it can be accessed by all anywhere. While others prefer to have their own internal set up.

If it has been installed on an Internal Server that has other important resources on it that you don't want public to access, but is fine for library to use. Then we suggest you set up a second install of OpenOPAC on a Web-server that can be accessed by the public.

If you want to set up a second install Of OpenOPAC for this purpose, so they can be accessed publically on a council or school web-page – see point 2

### 1. If installing on a web-server or in a De-militarized zone (DMZ) only

1. Install OpenOPAC on a web server or in a De-militarized zone (DMZ)
2. Install it on a different port from the default HTML port 80 - such as port 81
3. Ensure you put in the correct Hostname for this webserver when installing for the Hostname
4. Ensure that port 1433 is open on the webserver [for two-way traffic] – so it can access the Amlib databases – this is the only access OpenOPAC needs (everything else can be locked down and not accessible)
5. If using an enrichment provider such as Amazon.com or Syndetics etc. You will need to ensure that this web-server allows access to these sites by either adding them as exceptions to the firewall rules or add them as trusted sites. Otherwise images and content will not appear.
6. Also either have pop-up blockers turned off or sites such as [www.amazon.com](http://www.amazon.com) or <http://www.syndetics.com/> enter them as exceptions to the pop-up blocker rule or add as trusted sites

# OpenOPAC Installation Guide

## 2. If this is a Second Install of OpenOPAC - You will need to do the following

1. Install another OpenOPAC on a web server or in a De-militarized zone (DMZ)
2. Install it on a different port 83 to your internal one
3. Ensure you put in the correct Hostname for this webserver when installing for the Hostname
4. Ensure that port 1433 is open on the webserver [for two-way traffic] – so it can access the Amlib databases – this is the only access OpenOPAC needs (everything else can be locked down and not accessible)
5. If Library is using an enrichment provider such as Amazon.com or Syndetics etc. You will need to ensure that this web-server allows access to these sites by either adding them as exceptions to the firewall rules or adding them as trusted sites. Otherwise images and content will not appear.
6. Also either have pop-up blockers turned off or sites such as [www.amazon.com](http://www.amazon.com) or <http://www.syndetics.com/> enter them as exceptions to the pop-up blocker rule or add as trusted sites
7. Then configure it the same as their internal one was configured
6. Load all catalogues etc.....
7. This **new URL** can put as a hyperlink on their council /library website that will go straight to OpenOPAC – giving them public access.