



AWLRS Product Installation and Upgrade Guide v1.1.6

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Issue: 1.3

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Document Version History

Issue	Owner	Update Source	Date	Description
1.1	Barbara ODriscoll		07-Feb-2019	Initial Draft (based on 1.0.1)
1.2	Barbara ODriscoll		08-Feb-2019	Removed NSG section
1.3	Mike Huitson		22-Feb-2019	Updated post install section Write Map Files.
For review:				For approval:
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Mike Huitson				

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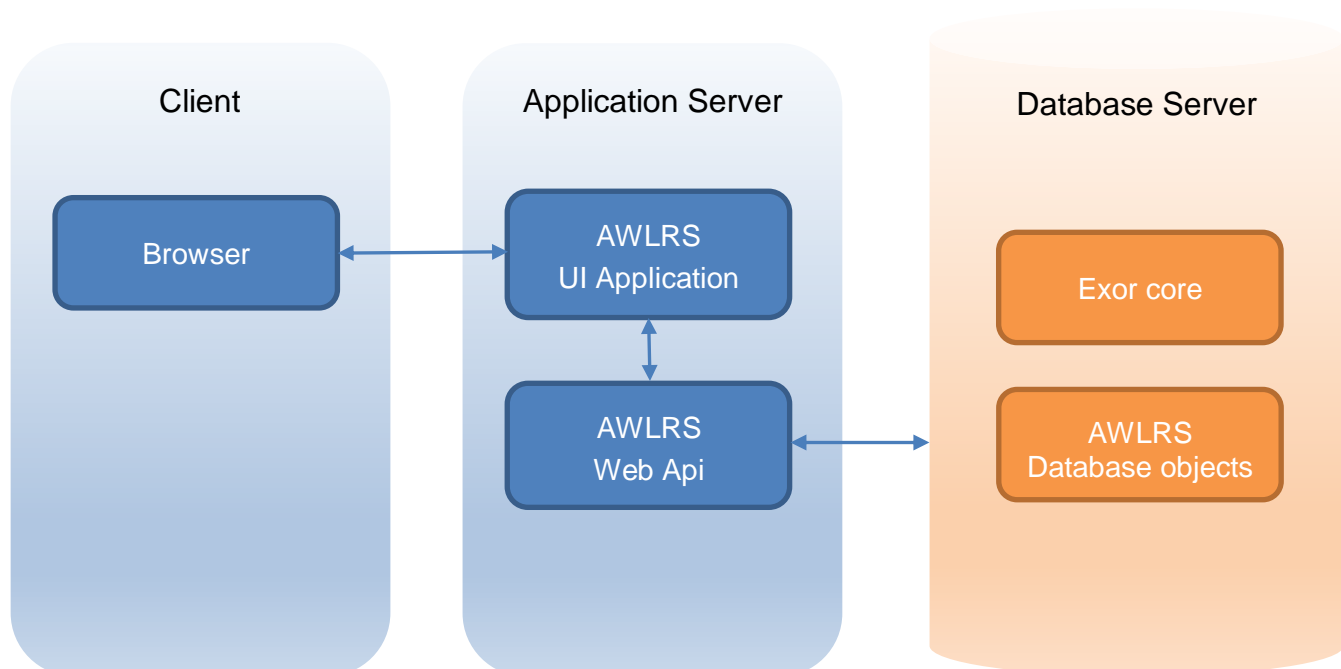
1 Introduction

This guide provides instructions for deploying the Bentley AWLRS product and is intended to be read either by customers or Bentley personnel carrying out an AWLRS deployment.

AWLRS is a web based application that is made up of 3 components that need to be installed or upgraded:

- Database Objects
- Web API
- UI application

The end user accesses the AWLRS application via a client browser. This client browser connects to the AWLRS UI application. The AWLRS UI application communicates directly with the AWLRS Web API. The AWLRS WebAPI in turn communicates with the Database.



NB. To upgrade an existing AWLRS deployment please follow the instructions given from section 3 onwards.

For a new installation of AWLRS please follow the instructions given from **section 4** onwards.

This document should be read in association with all supporting documentation, notably the Bentley Release Configuration available via [Be Communities](#) which details the versions of third-party client and server software supported for this release.

2 Prerequisites

2.1 Overview

AssetWise ALIM Linear Referencing Services (AWLRS) is an application that allows an organization to manage their linear referenced network and associated assets.

This document assumes that a copy of the AWLRS Release ZIP file, for example: **exawlrs01010601en.zip**, has been downloaded from the Bentley Select web site.

You will also need to have the appropriate infrastructure in place to support the deployment of the Bentley AWLRS product, namely:

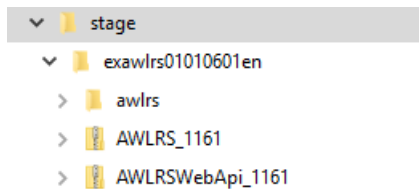
1. An Oracle Database Server with a suitable exor 4700 database and <exor_base> folder.
NB. As a minimum this exor database should include the exor Core product at version 4700 with all released fixes applied.
2. An application server to which the AWLRS web components will be deployed, with the following third-party products installed and correctly configured:
 - a. Microsoft IIS 8.5 Server
 - b. .NET 4.5.2
 - c. Oracle Client (a version appropriate to the application server operating system and database)
 - d. Oracle ODPNET4 Client (a version again appropriate to the application server operating system and database)
 - e. Oracle Map Builder
3. An application server with MapServer 7.0.4 installed and correctly configured. There is a dependency here on IIS being installed, so MapServer can either be installed on the same IIS server as the AWLRS web component as mentioned above or on its own dedicated IIS server. This decision is likely to be dependent upon predicted utilization and performance requirements.

Note: please refer to the Bentley Exor Release Configuration document available via [Be Communities](#) for the latest information on supported third-party components such as Oracle Database Server, Oracle WebLogic, browser/JRE combinations etc.

2.2 Staging

Before you start the installation, you should stage the files from the AWLRS Release Build to the correct locations on the relevant servers.

Unzip the AWLRS release to a staging folder, for example C:\stage\exawls01010601en



Inside the unzipped AWLRS folder structure file there will be a folder called 'awls' for example

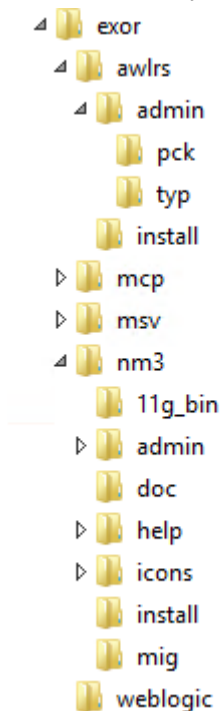
- C:\stage\exawls01010601en\awls

Copy this folder to the <exor_base> folder on your **database server**, for example c:\exor

NB: The <exor base> must also include the unzipped exor core (nm3) release folders.

NB2: If this is an upgrade then you will need to rename the existing <exor base>\awls folder before copying the new version in. This ensures that a copy is available for backup or reference purposes should any issues arise during the upgrade.

As a minimum, your <exor base> folder structure should now look something like this:



PREREQUISITES

Inside the unzipped AWLRS folder structure there will be 2 ZIP files called:

- **AWLRS_[revision].zip**
- **AWLRSWebAPI_[revision]**

for example:

- C:\stage\exawls01010601en\AWLRS_1161.zip
- C:\stage\exawls01010601en\AWLRSWebApi_1161.zip

Copy these zip files to a staging folder on the **application server**.

You are now ready to install the Bentley AWLRS product.

3 Upgrade

This section describes the steps necessary to upgrade AWLRS from a previous version. This includes the upgrade of the database objects and the AWLRS web applications.

If you are performing a new installation this section can be skipped.

3.1 Database

Change directory to <exor_base>\awlr\install

- Login to SQL*PLUS as the highways owner on the client PC
- Run the correct upgrade script dependent on current version and version required to upgrade to.

```
start awlrs<xxxx>_awlrs<yyyy>.sql
```

where <xxxx> refers to the current installed version of AWLRS and <yyyy> refers to the required version for upgrade. For example, an upgrade from 1.0.1.0 to 1.1.6.0 would require

```
start awlrs1010_awlrs1160.sql
```

- You will be prompted to enter the path of the location of your highways software. This should be name of the directory, including disk identifier and a trailing slash character, referred to as <exor_base>.

For example, if you unzipped your highways software in a directory called exor on your C drive, you would enter the following when prompted.

```
C:\exor\
```

NB. The path must include a trailing directory separator.

- When you have supplied this value, you will be prompted to confirm that it is correct and asked whether you wish to continue.

If the value specified is not correct or does not end with a slash character, you will be given an error message and the installation script will abort. You will then need to login to SQL*PLUS again and rerun the script.

- When the script has completed, all the AWLRS objects and data will have been upgraded.
- The following log files are produced in the working directory. At the end of the upgrade, they can be viewed to check for any errors that could have occurred during the upgrade process.

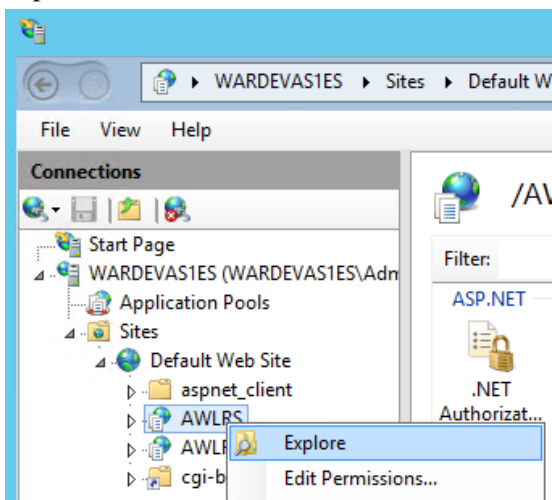
```
awlrs<xx>_awlrs<yy>_1_<date&time>.LOG
awlrs<xx>_awlrs<yy>_2_<date&time>.LOG
```

where <xx> refers to the original release number (i.e. 1010) and <yy> refers to the new release number (i.e. 1160)

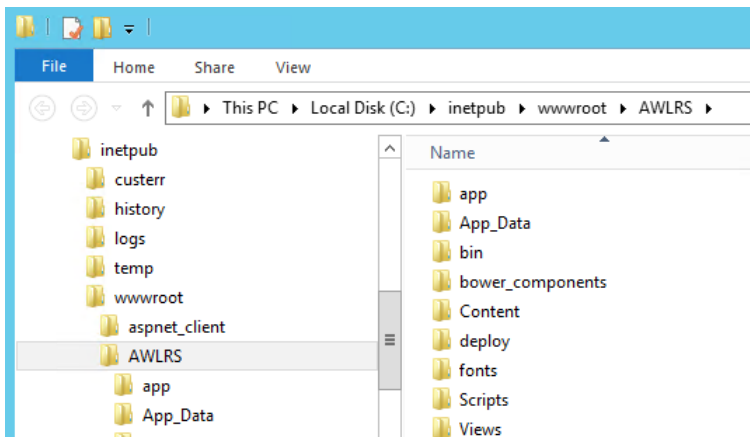
3.2 AWLRS and AWLRS Web API applications

Before deploying the new version of AWLRS Web API and AWLRS UI application you should make a copy of the existing deployments for reference.

To do this open IIS manager on the **application server** and select the AWLRS UI application (for example “AWLRS”), right click on it and select “Explore” from the context menu to open the deployment folder in windows explorer:



This will open the root folder of the application for example:



Copy the contents of this folder to a safe place as a backup.

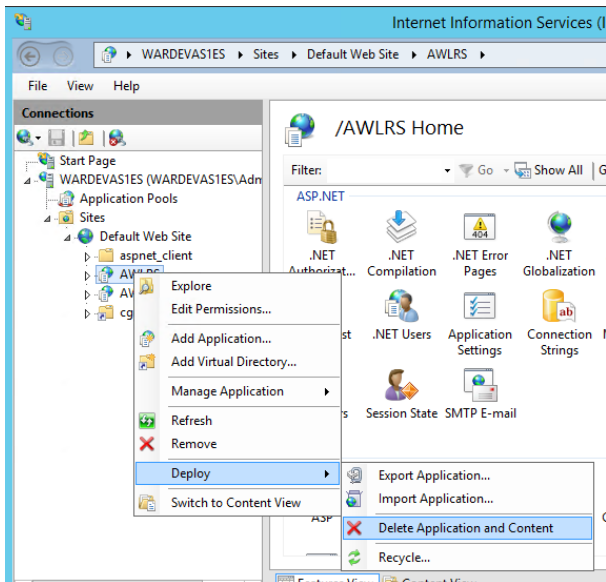
Repeat the above for the AWLRS Web Api.

UPGRADE

Before deploying the new versions, the previous deployments need to be removed.

In IIS manager select the AWLRS UI application (for example “AWLRS”), right click on it and select “Deploy” → “Delete Application and Content” from the context menu

NB: This is not reversible!



Repeat the above for the AWLRS Web Api.

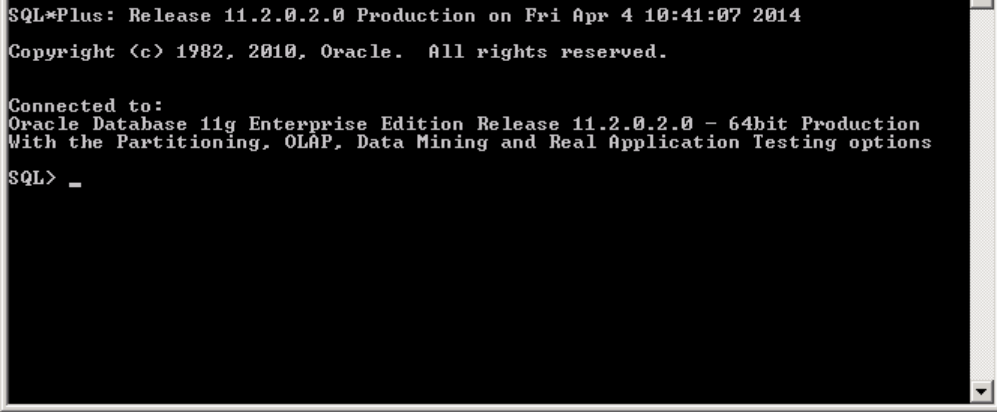
Once both components have been successfully removed then the new versions need to be deployed, to do this follow the instructions given from Section 4 (step 4.3) onwards.

4 Installation

4.1 Apply AWLRS Database Scripts

On your **database server**, start a command prompt in the <exor base>\awlrs\install folder.

Run SQL*Plus, logging in as the highways owner:



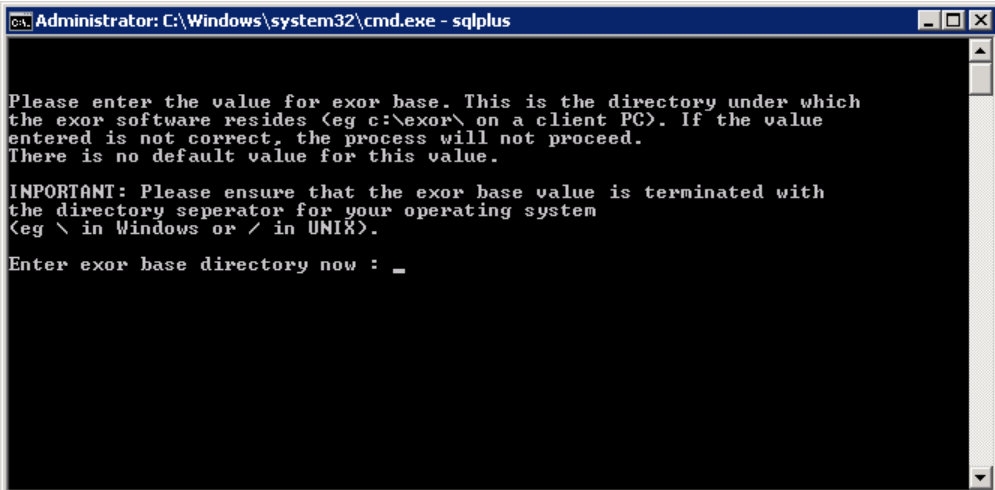
```
SQL*Plus: Release 11.2.0.2.0 Production on Fri Apr 4 10:41:07 2014
Copyright (c) 1982, 2010, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> _
```

Run the following script:

```
start awlrs_inst.sql
```

You will be prompted to enter the path to the <exor base> directory:



```
Administrator: C:\Windows\system32\cmd.exe - sqlplus

Please enter the value for exor base. This is the directory under which
the exor software resides (eg c:\exor\ on a client PC). If the value
entered is not correct, the process will not proceed.
There is no default value for this value.

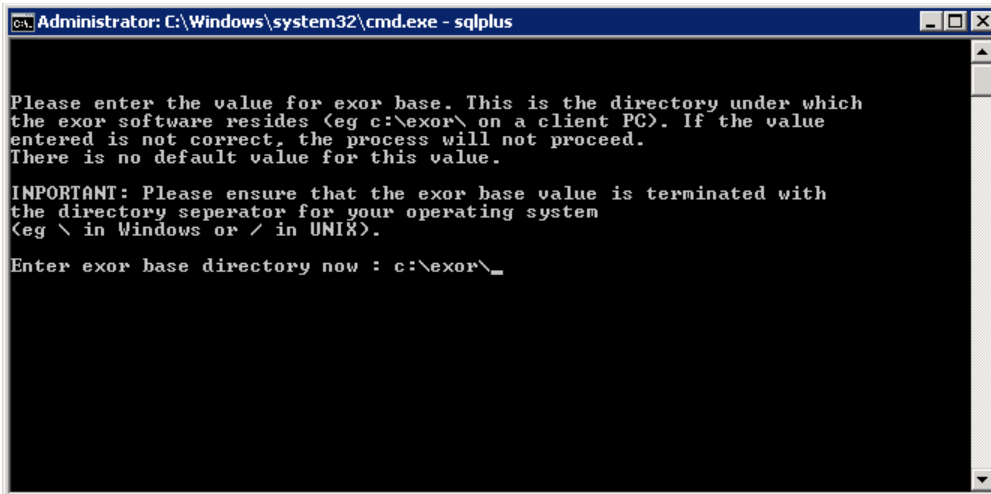
IMPORTANT: Please ensure that the exor base value is terminated with
the directory seperator for your operating system
(eg \ in Windows or / in UNIX).

Enter exor base directory now : _
```

INSTALLATION

Enter the path to the <exor base> directory where you unzipped the 'awlr' folder from the AWLRS Release Build ZIP (see the Prerequisites section):

NB. The path must include a trailing directory separator.



```
Administrator: C:\Windows\system32\cmd.exe - sqlplus

Please enter the value for exor base. This is the directory under which
the exor software resides (eg c:\exor\ on a client PC). If the value
entered is not correct, the process will not proceed.
There is no default value for this value.

IMPORTANT: Please ensure that the exor base value is terminated with
the directory separator for your operating system
(eg \ in Windows or / in UNIX).

Enter exor base directory now : c:\exor\'_
```

You should be prompted whether to continue, once accepted the installation will begin:

SQL*Plus will exit once the script has finished:

Check the log files for errors and take action to resolve any issues before continuing. Two log files are produced by the install script, both are created in the awlr\install folder and their file names are in the following format:

- awlr_install_1_[date in the format DDMMYYYY_HHmmSS].LOG
- awlr_install_2_[date in the format DDMMYYYY_HHmmSS].LOG

For example:

- awlr_install_1_31JAN2019_145212.LOG
- awlr_install_2_31JAN2019_145212.LOG

4.2 Apply Map Builder Configuration

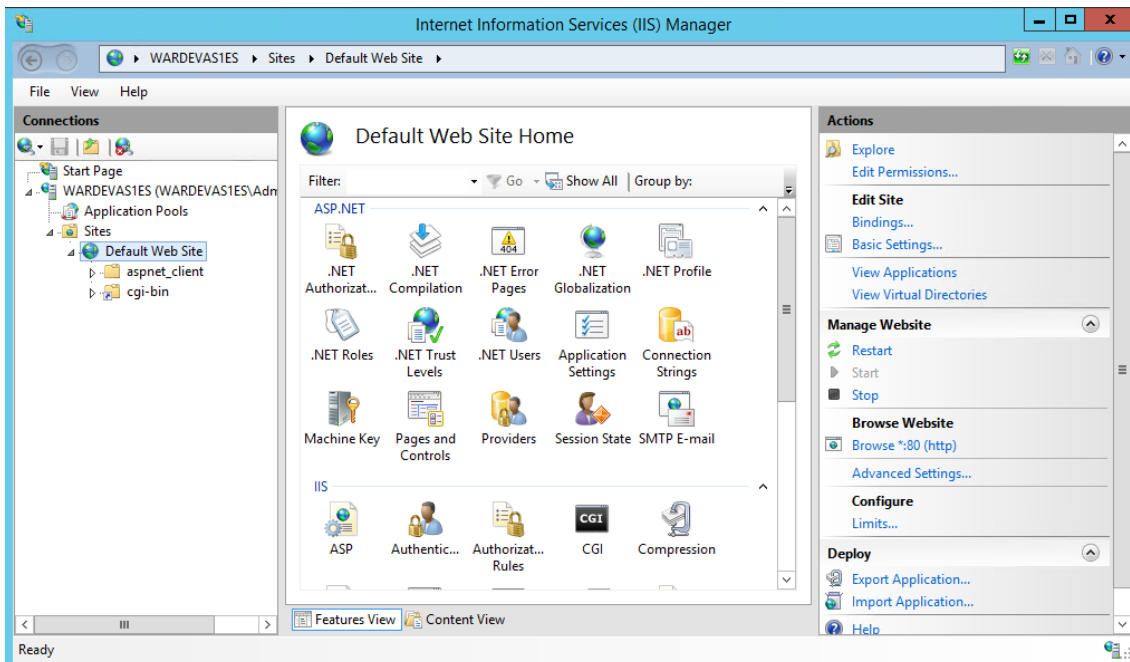
Please refer to the appropriate version of the "AWLRS Administration Guide" and the exor core document "Spatial Server Admin" for details on how to use Oracle Map Builder to configure a Base Map for AWLRS.

AWLRS allows shape files to be displayed as layers in the map, please refer to the AWLRS Admin Guide for details of how to implement this functionality.

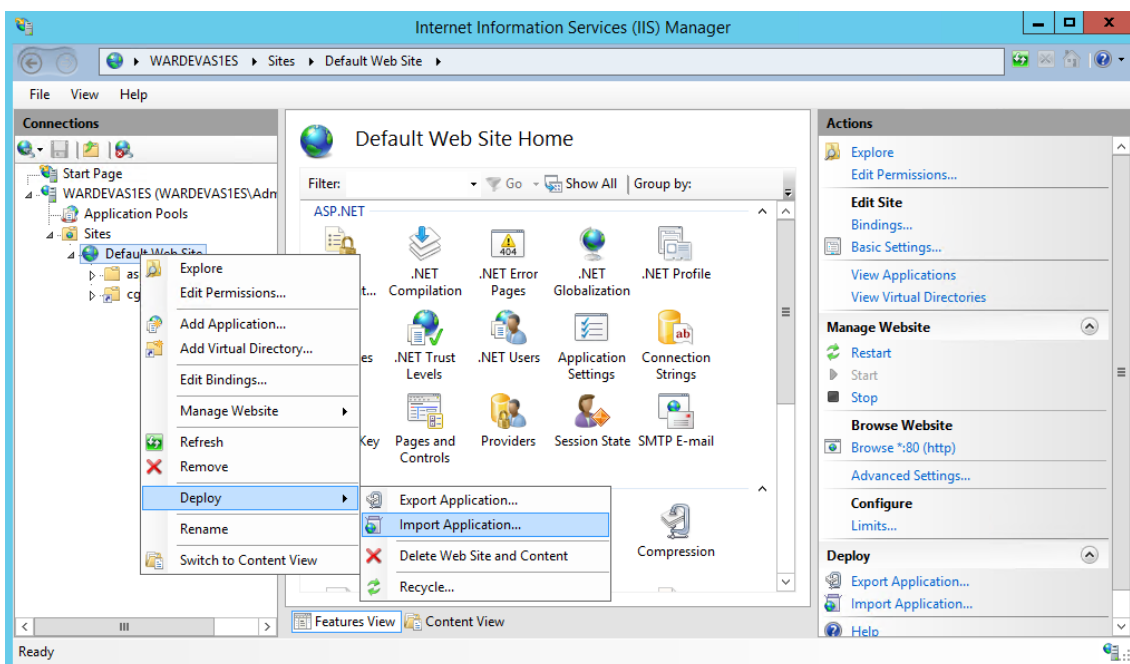
INSTALLATION

4.3 Deploy AWLRS Web API

On the **application server** run IIS Manager and navigate to the “Default Web Site”:



Right-click on “Default Web Site” and select Deploy > Import Application:

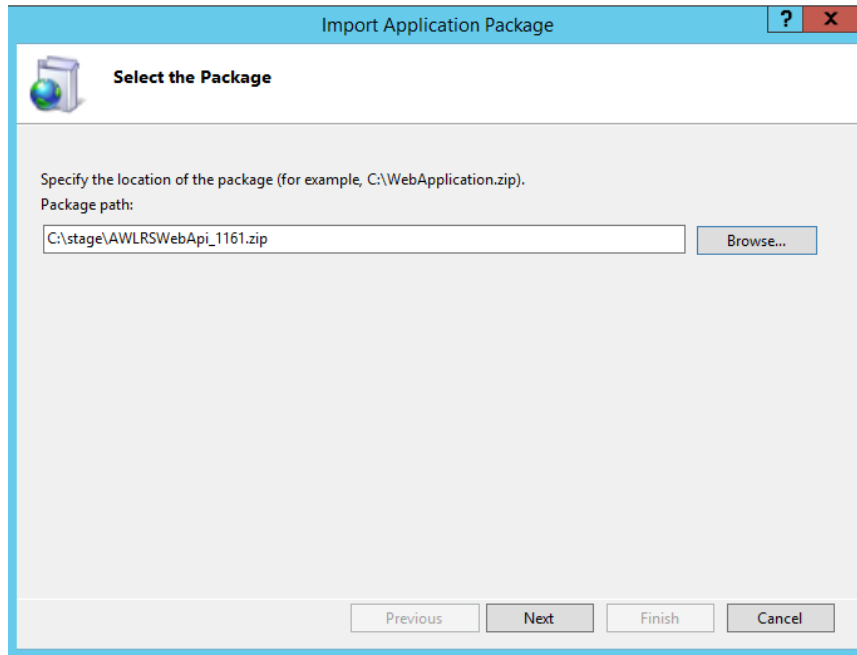


INSTALLATION

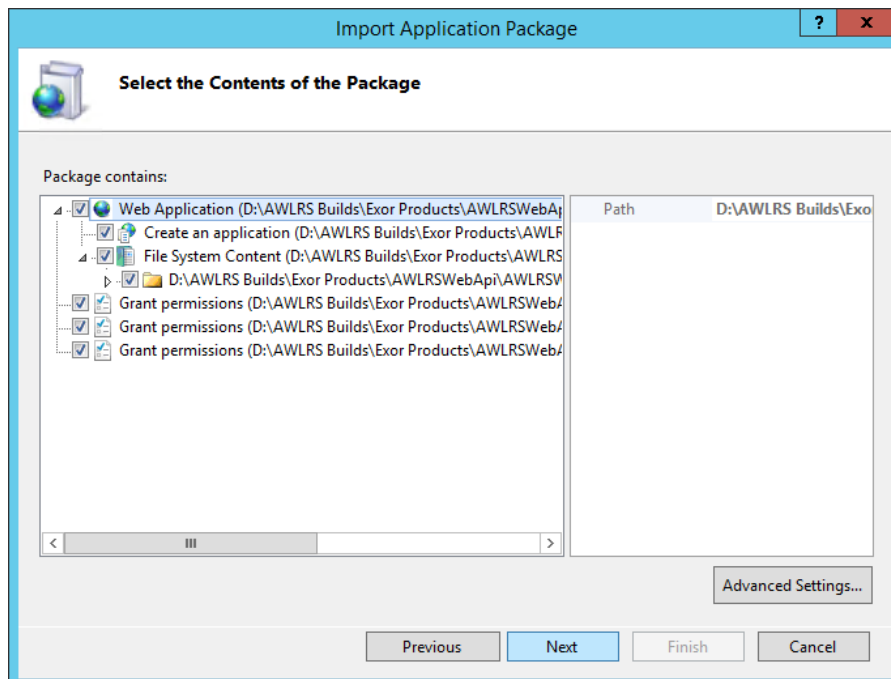
Use the “Browse...” button to select the **AWLRSWebAPI_[revision].zip** file located in the staging area on the server (see Prerequisites section):

For example:

C:\stage\exawlr01010601en\AWLRSWebApi_1161.zip



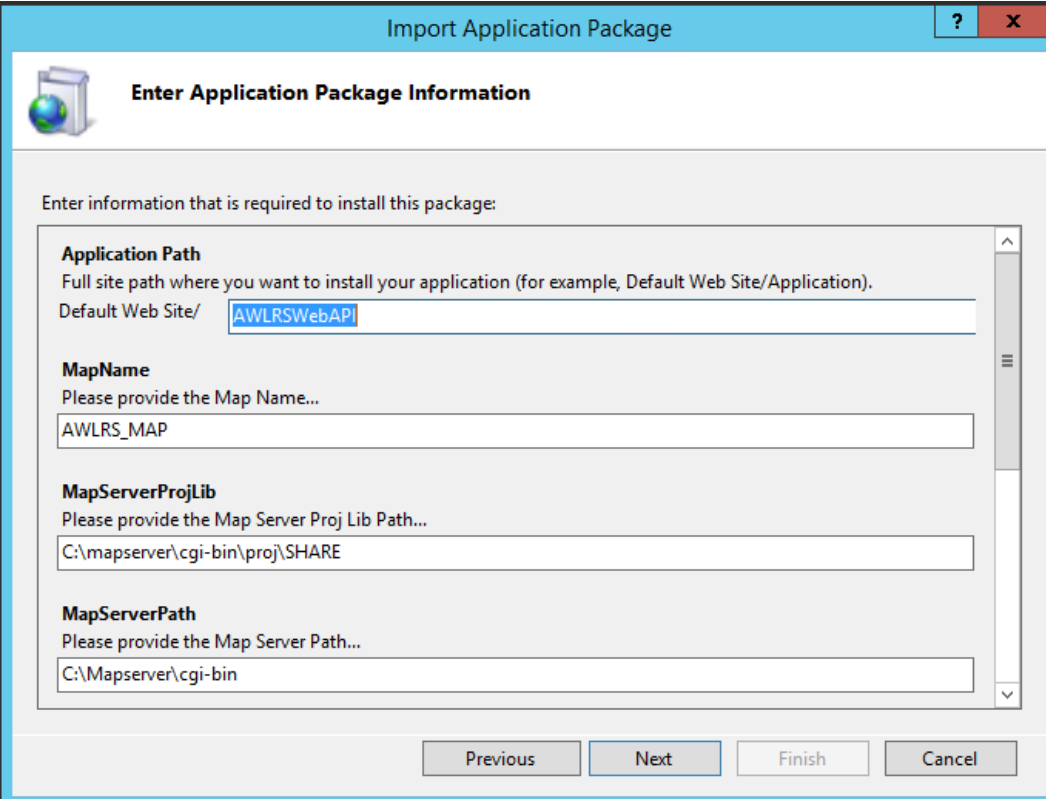
Click Next. You should not need to make any changes on the following screen:



INSTALLATION

Click Next. On this screen you should enter the following information

- **Application Path** - The path to be used for the deployed application, this will form the later part part of the application URL and is also the “deployment name” displayed under the web site in IIS Manager.
- **MapName** – Name of the Map created in Map Builder, Please NOTE a corresponding product option must also be set.
- **MapServerProjLib** – The MapServer Projection Library Path.
- **MapServerPath** – The path to the MapServer cgi-bin folder.
- **MapServerURL** – URL for the MapServer cgi-bin, please change [iisservername] to the fully qualified name of the IIS Server.
- **MapServerSldURL** - URL for the MapServer SLD file (In most circumstances this will not need to be changed from the default).
- **LogFilePath** – The path for the Web API Log file
- **Connection String** - The database connection string for the AWLRS Application, please change [Database Alias] to the database alias.



Import Application Package

Enter Application Package Information

Enter information that is required to install this package:

Application Path
 Full site path where you want to install your application (for example, Default Web Site/Application).
 Default Web Site/

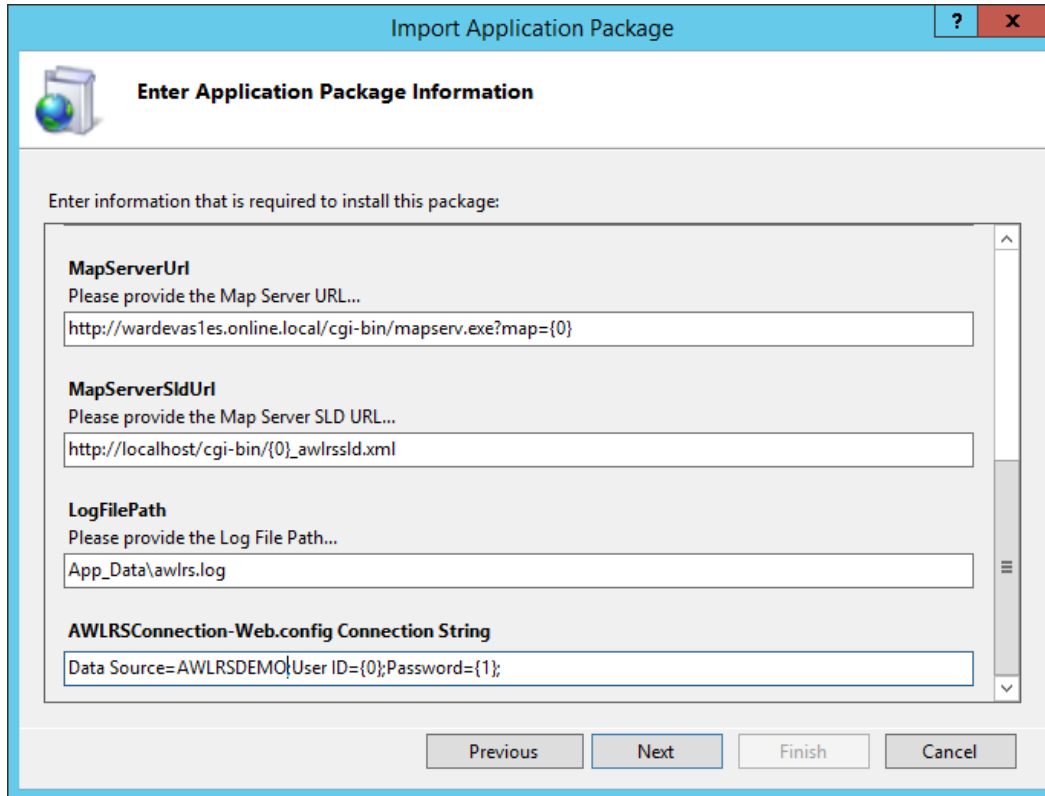
MapName
 Please provide the Map Name...

MapServerProjLib
 Please provide the Map Server Proj Lib Path...

MapServerPath
 Please provide the Map Server Path...

Previous Next Finish Cancel

INSTALLATION



Import Application Package

Enter Application Package Information

Enter information that is required to install this package:

MapServerUrl
Please provide the Map Server URL...

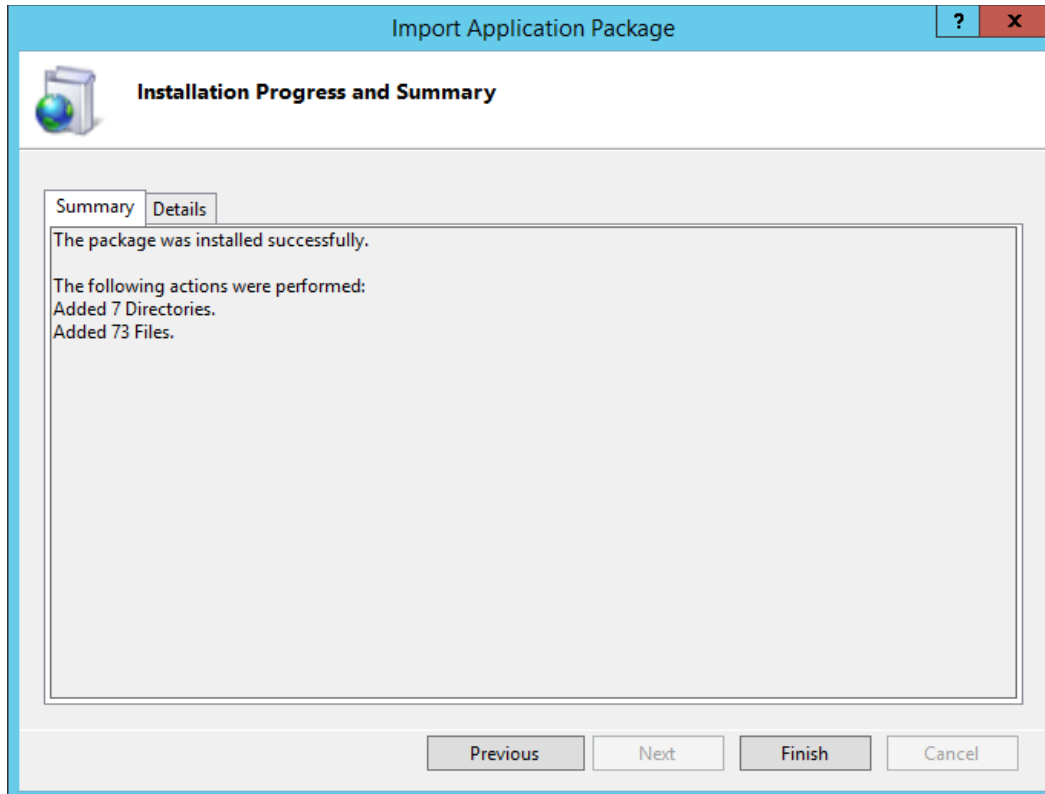
MapServerSldUrl
Please provide the Map Server SLD URL...

LogFilePath
Please provide the Log File Path...

AWLRSCONNECTION-Web.config Connection String

Previous Next Finish Cancel

Click Next. Deployment might take a few seconds then a summary screen will be displayed:



Import Application Package

Installation Progress and Summary

Summary Details

The package was installed successfully.

The following actions were performed:
Added 7 Directories.
Added 73 Files.

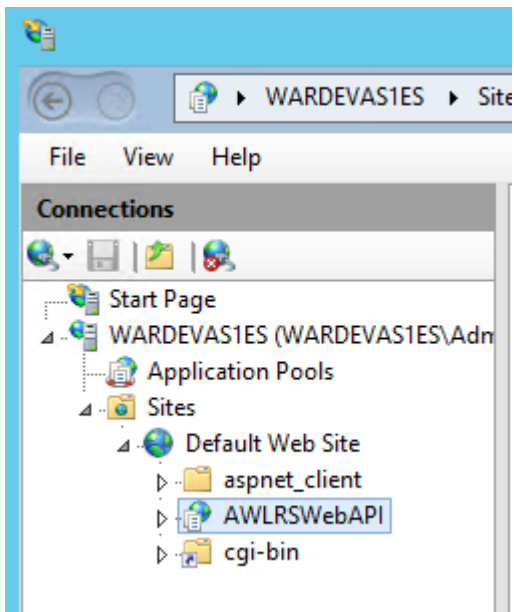
Previous Next Finish Cancel

CONFIDENTIALITY STATEMENT

The contents of this document, including system ideas and concepts, are confidential and proprietary in nature and are not to be distributed in any form without the prior written consent of Bentley, Inc.

INSTALLATION

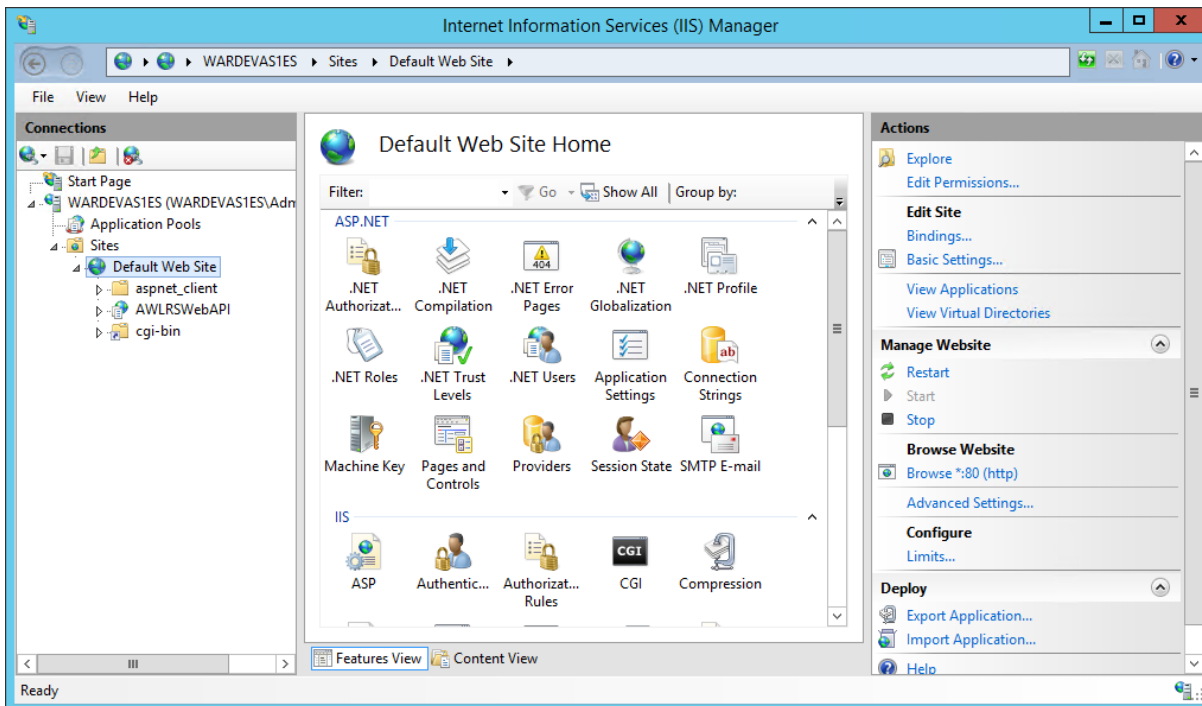
Click Finish. In IIS Manager, you should now see a new application listed under Default Web Site:



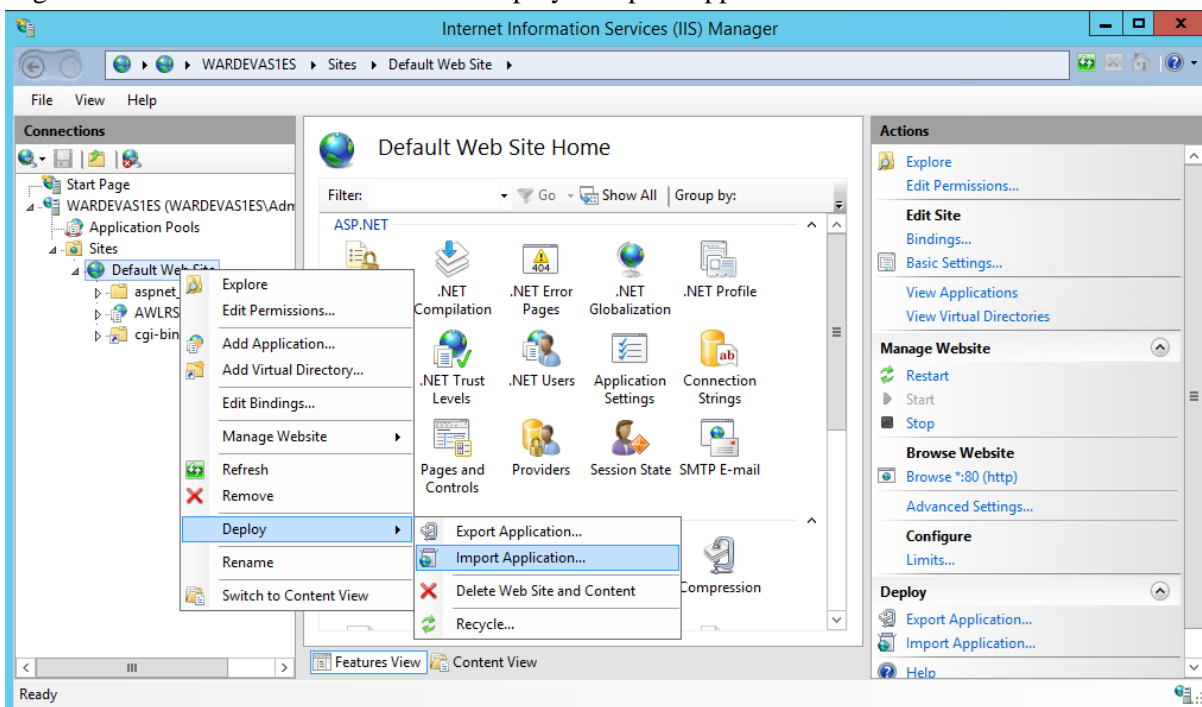
INSTALLATION

4.4 Deploy AWLRS

On the **application server**, open IIS Manager and navigate to Default Web Site:



Right-click Default Web Site and select Deploy > Import Application:

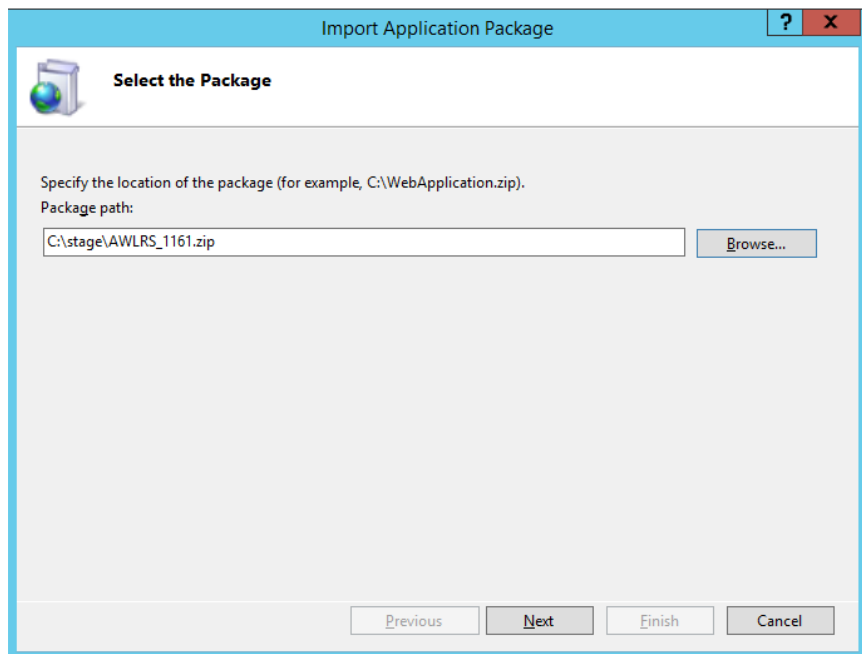


INSTALLATION

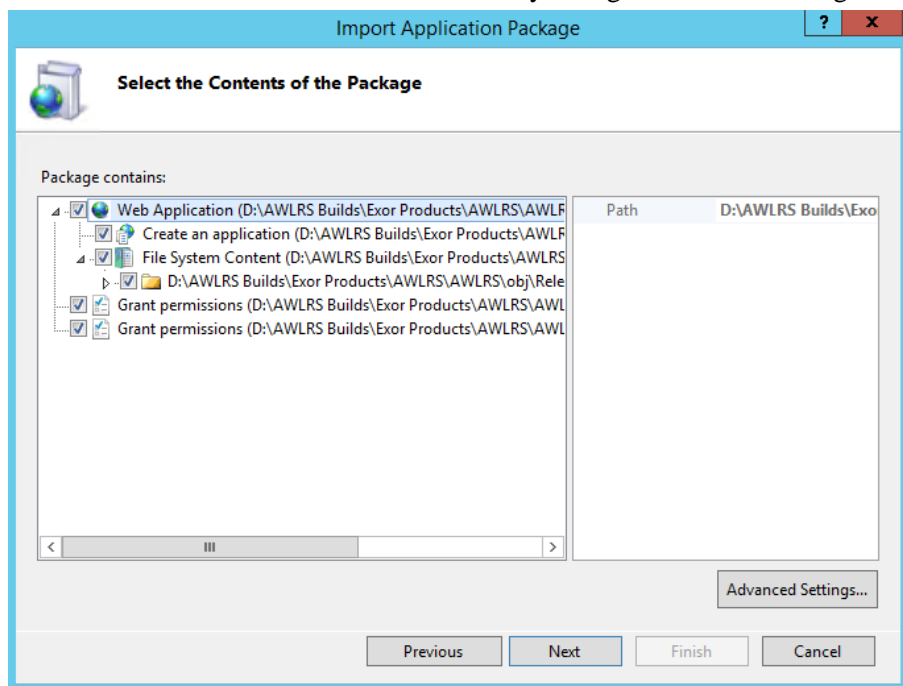
Use the “Browse...” button to select the **AWLRS_[revision].zip** file located in the staging area on the server (see Prerequisites section):

For example:

C:\stage\exawls01010601en\AWLRS_1161.zip



Click Next. You should not need to make any changes on the following screen:

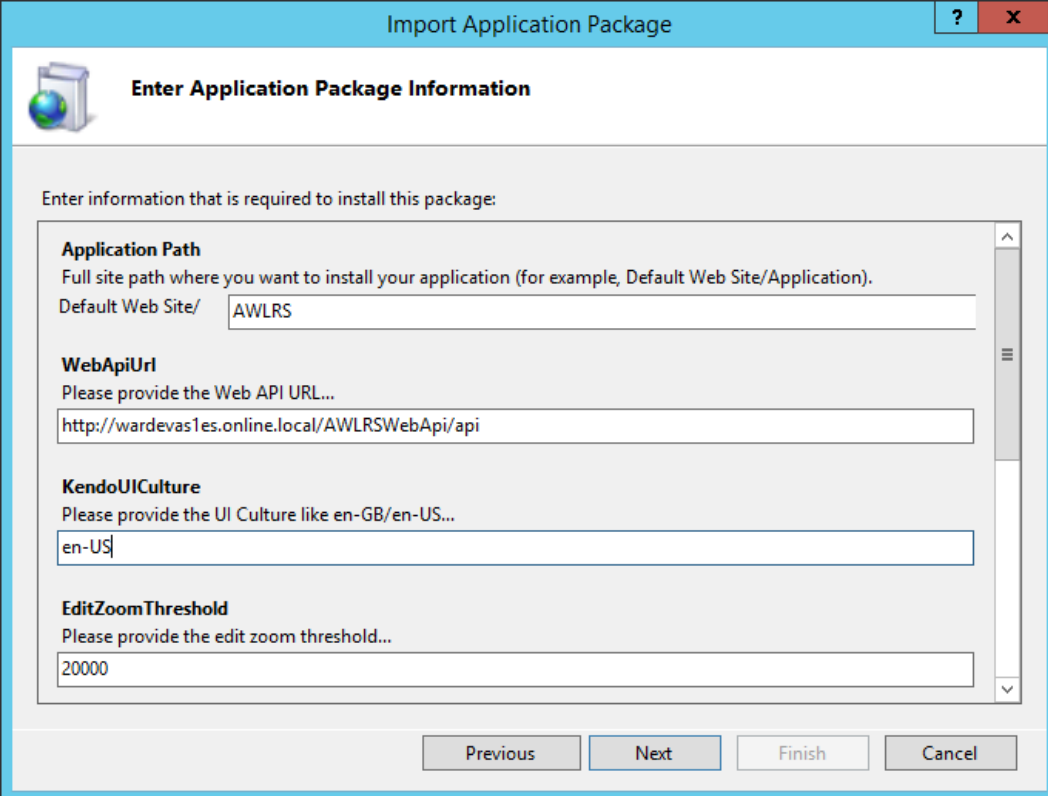


INSTALLATION

Click Next. On this screen you should enter the following information

- **Application Path** - The path where you want to install the application
- **WebApiUrl** – The location of the deployed AWLRSWebAPI set in section 4.3, please change [iisservername] to the fully qualified name of the IIS Server.
- **KendoUICulture** – The browser displayed culture type for example ‘en-GB’, ‘en-US’ etc
- **EditZoomThreshold** – The minimum zoom level before editing is allowed
- **KeepAliveInterval** – Number of milli-seconds after which a ping request is sent to WebApi to keep the session alive
- **externalIdp** – Defaulted to false. Set to true **only** if IMS is to be used, for details on IMS configuration please refer to the AssetWise ALIM Linear Referencing Services 1.0 Configure IMS based Authentication guide.
- **IncludeEndDatedForQuickSearch** – True/False on whether end dated included in quick search
- **MaxRowsForQuickSearch** – The max number of returned rows on quick search
- **SnapToTolerance** – The default snap tolerance
- **DecimalFormat** – Default decimal format to be used for none layer specific numeric fields. For example, coordinate displayed in map, center map to coordinates and tolerance displayed in preferences dialog. An example entry would be ‘#.#####’
- **DecimalPlaces** – Default decimal places for none layer specific numeric fields. For example, coordinate displayed in map, center map to coordinates and tolerance displayed in preferences dialog.
- **EnableAwlrsNSGPlugin** – Defaulted to False. To enable the NSG (Street Gazetteer Manager) plug-in functionality, simply set this value to True. Please refer to the AWLRS Admin Guide v1.1 for more information regarding NSG.

INSTALLATION



Import Application Package

Enter Application Package Information

Enter information that is required to install this package:

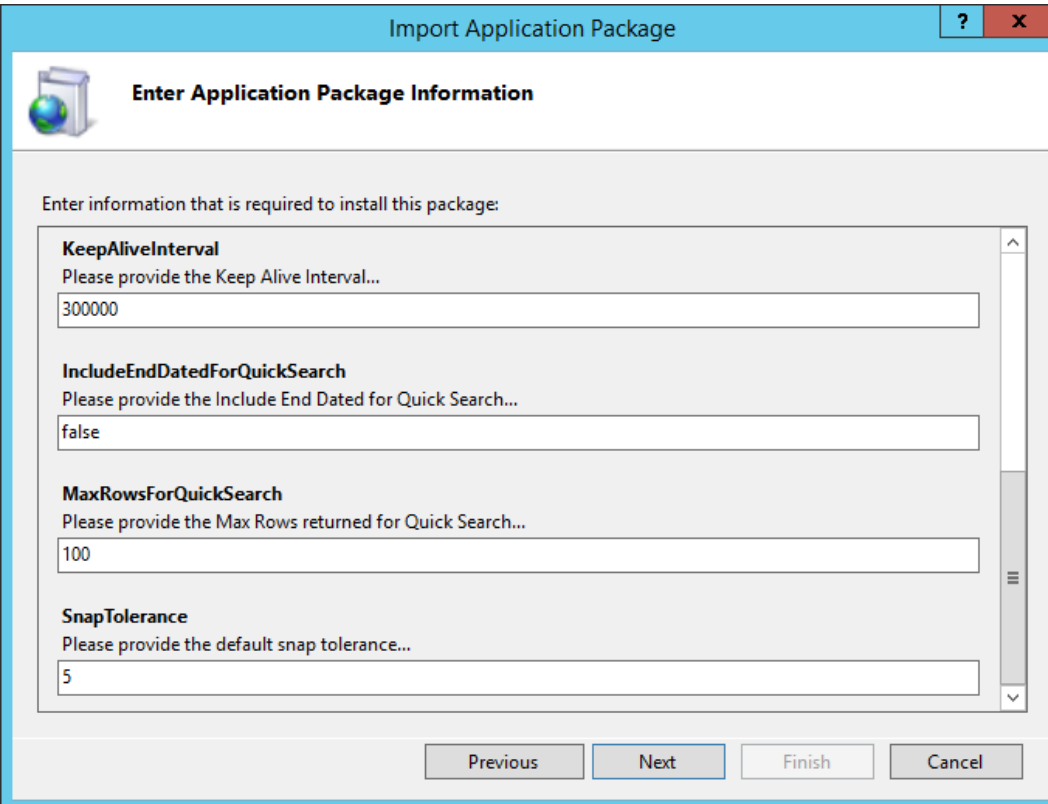
Application Path
Full site path where you want to install your application (for example, Default Web Site/Application).
Default Web Site/ AWLRS

WebApiUrl
Please provide the Web API URL...
http://wardevas1es.online.local/AWLRSWebApi/api

KendoUICulture
Please provide the UI Culture like en-GB/en-US...
en-US

EditZoomThreshold
Please provide the edit zoom threshold...
20000

Previous Next Finish Cancel



Import Application Package

Enter Application Package Information

Enter information that is required to install this package:

KeepAliveInterval
Please provide the Keep Alive Interval...
300000

IncludeEndDatedForQuickSearch
Please provide the Include End Dated for Quick Search...
false

MaxRowsForQuickSearch
Please provide the Max Rows returned for Quick Search...
100

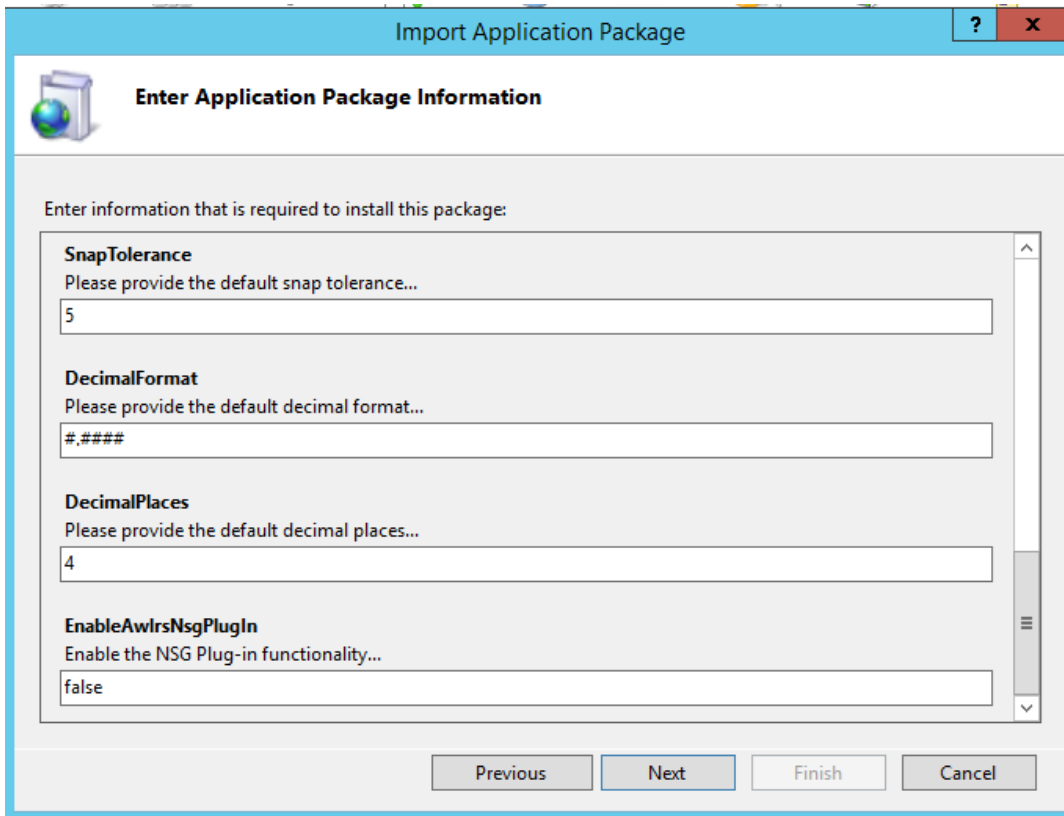
SnapTolerance
Please provide the default snap tolerance...
5

Previous Next Finish Cancel

CONFIDENTIALITY STATEMENT

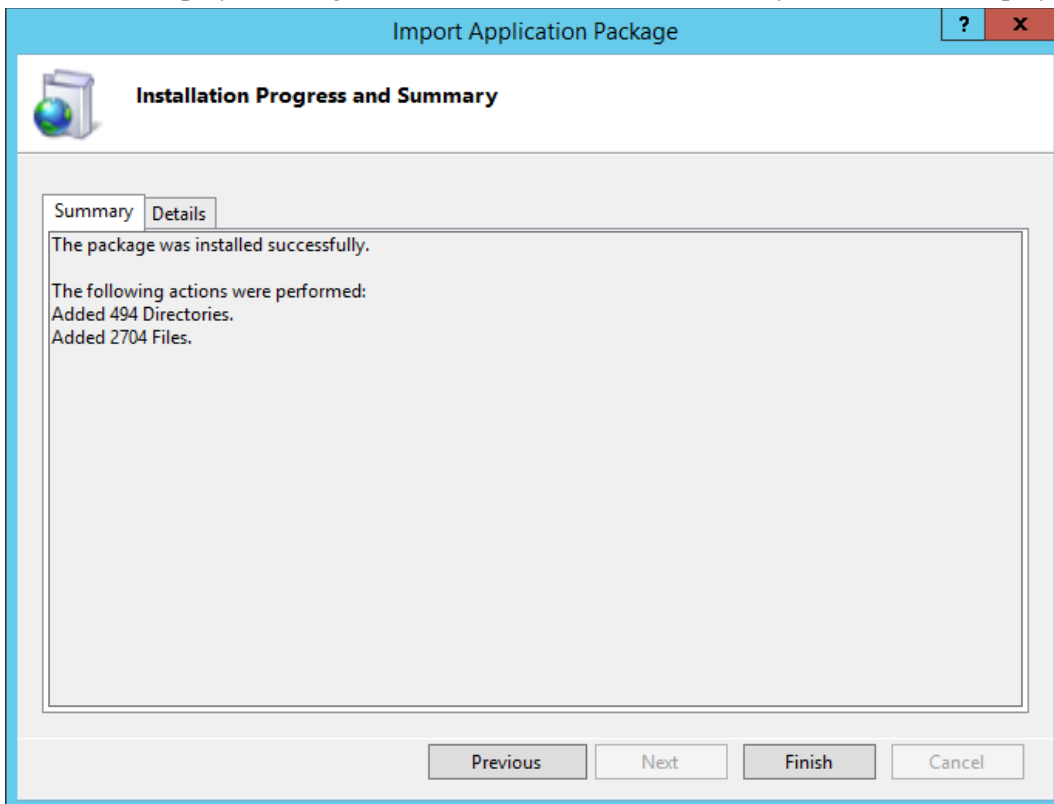
The contents of this document, including system ideas and concepts, are confidential and proprietary in nature and are not to be distributed in any form without the prior written consent of Bentley, Inc.

INSTALLATION



The screenshot shows the 'Import Application Package' dialog box with the 'Enter Application Package Information' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar is a header area with a folder icon and the text 'Enter Application Package Information'. The main area contains a label 'Enter information that is required to install this package:' followed by four input fields: 'SnapTolerance' (value: 5), 'DecimalFormat' (value: #,####), 'DecimalPlaces' (value: 4), and 'EnableAwlrsNsgPlugIn' (value: false). At the bottom are buttons for 'Previous', 'Next', 'Finish', and 'Cancel'.

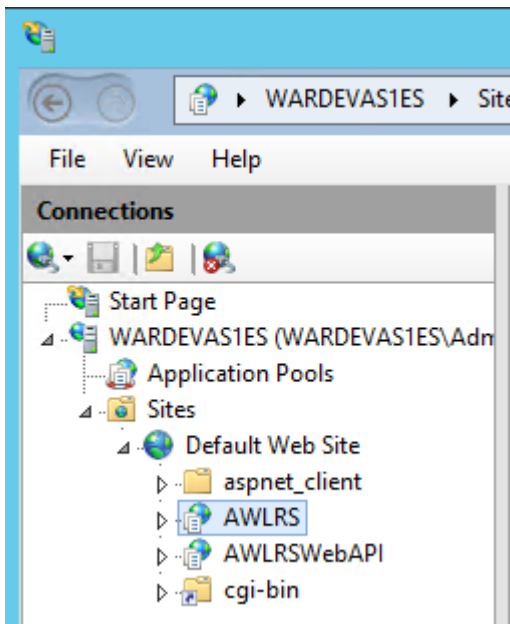
Click Next. Deployment might take a few seconds then a summary screen will be displayed:



The screenshot shows the 'Import Application Package' dialog box with the 'Installation Progress and Summary' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar is a header area with a folder icon and the text 'Installation Progress and Summary'. The main area contains a tabbed interface with 'Summary' and 'Details' tabs. The 'Summary' tab is active and displays the text: 'The package was installed successfully.' followed by 'The following actions were performed: Added 494 Directories. Added 2704 Files.' At the bottom are buttons for 'Previous', 'Next', 'Finish', and 'Cancel'.

INSTALLATION

Click Finish. In IIS Manager, you should now see a new application listed under Default Web Site:

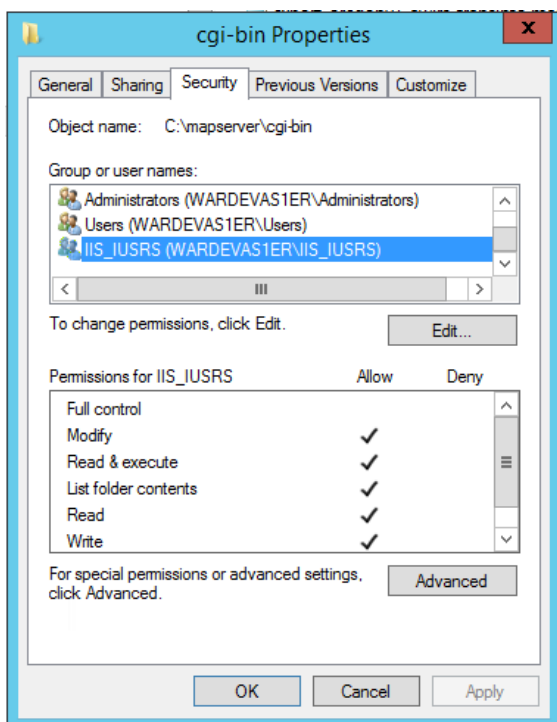


4.5 Permissions

The following permissions must be assigned to allow AWLRS to function correctly. The installation instructions are based on installing the product to execute within the default app pool. If there is a requirement to use a custom application pool, then additional care for permissions may be needed. In addition, local security policies may add further restrictions that must be observed, such detail is beyond the scope of this document.

4.5.1 CGI Bin

Add IIS_IUSRS with modify permission to relevant CGI_BIN location.



This grants sufficient permissions to all automatically generated application pools such as the default application pool and custom application pools using operating system managed identities. As a result, any application pool identity added to IIS_IUSRS (either automatically or manually) will have permissions to the CGI_BIN folder.

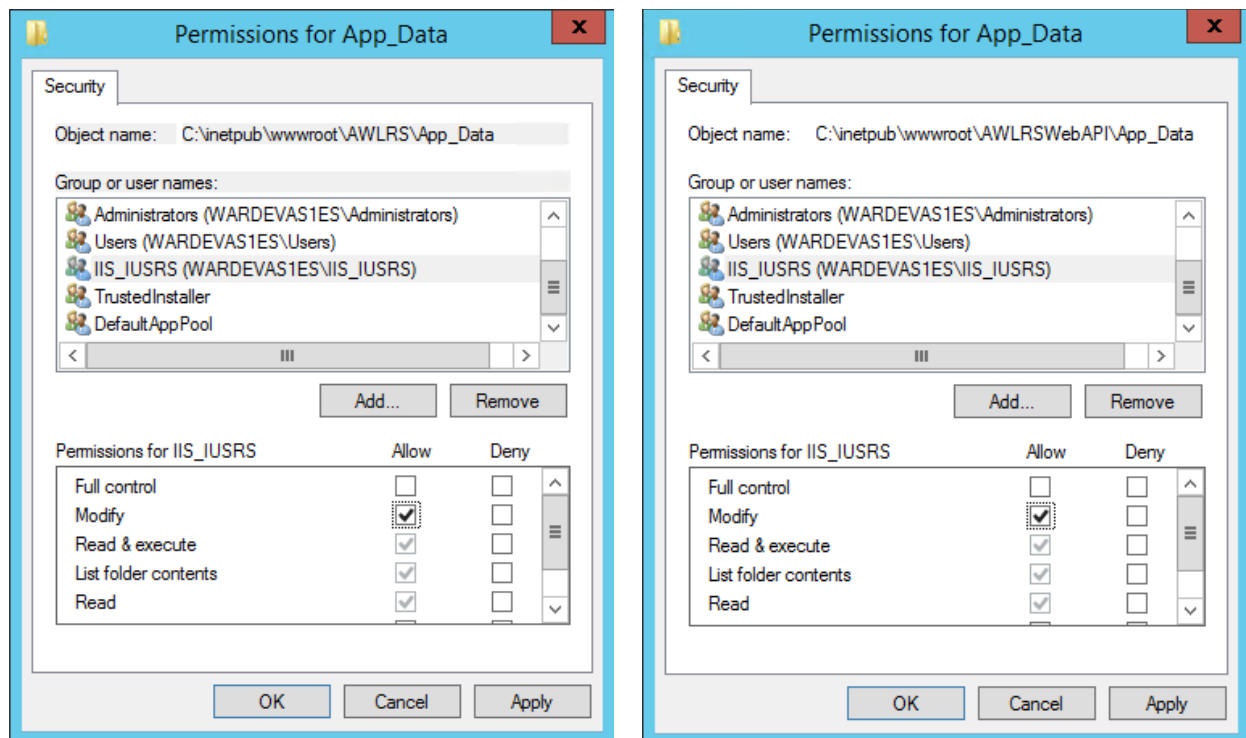
4.5.2 Log Files

Following a standard installation the product will make use of two predefined folders to write any log information that may be generated, these folders are located on the **application server** and are named as follows:

- [AWLRS UI application deployment path]\App_Data
For example, C:\inetpub\wwwroot\AWLRS\App_Data
- [AWLRS Web API deployment path]\App_Data
For example, C:\inetpub\wwwroot\AWLRSWebAPI\App_Data

INSTALLATION

The relevant permissions must be granted for the application pool identity. In general it may be appropriate the “modify” windows security privilege for “IIS_IUSRS” to the chosen logging folders on the **application server** as follows:



As this will grant all identities that belong to the IIS_IUSRS group permissions to the folders then you might choose to assign the permissions to the application pool identity rather than the group to restrict access to the folders as needed, for instance when not using the default application pool and you wish to ensure restricted access (such as might be needed in a multi-tenant configuration).

If choosing to grant permissions to the relevant folder by application pool identity, ensure to use the actual app pool identity (as named by the application pool name) e.g.

IIS AppPool\AwlrsAppPool) or whatever this was called when the application pool was set up.

If you wish to use folders other than the defaults then a new log folder can be specified. To do this the following changes are required:

Open the AWLRS UI application Web.config file (for example, C:\inetpub\wwwroot\AWLRS\Web.config).

Find the <configuration><log4net><file> element and change the “value” attribute to the path and filename required (note it is important to specify the filename as well as the path):

INSTALLATION

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <!--
6  <configuration>
7  <configSections>
10 <appSettings>
17 <log4net>
18   <appender name="FileAppender" type="log4net.Appender.FileAppender">
19     <file value="C:\awlrlogs\awlrssitelog.txt" />
20   <lockingModel type="log4net.Appender.FileAppender+MinimalLock" />

```

Open the AWLRS Web Api log4net.config file (for example
 C:\inetpub\wwwroot\AWLRSWebAPI\Configs\log4net.config)

Find the <log4net><appender><file> element and change the “value” attribute to the path and filename required (note it is important to specify the filename as well as the path):

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <log4net>
3    <appender name="FileAppender" type="log4net.Appender.RollingFileAppender">
4      <file value="C:\awlrlogs\awlrs.log" />
5    <lockingModel type="log4net.Appender.FileAppender+MinimalLock" />

```

Clearly if you change the logging folders from those of the default configuration then the permissions granted to the application identities (as described earlier in this section) must be adjusted accordingly.

5 Post Install/Upgrade Tasks

5.1 Product Options

AWLRS has several product options that need to be set prior to starting the application. For example:

Option Id	Description	Default Value
AWLMAPEPSG	AWLRS Map Output Projection	<PLEASE SET>
AWLMAPSRIID	AWLRS Map Default SRID	<PLEASE SET>

For more information on all AWLRS product options please refer to the appropriate version of the “AWLRS Administration Guide”.

5.2 Fontset file

MapServer users a Fontset file to locate any fonts used for Text Labels, Legend Graphics etc used in the applications' map.

A default Fontset file is provided as part of the AWLRS Web Api deployment, please copy the fonts.list file:

From:

[**AWLRS Web Api**]\App_Data\

For example, C:\inetpub\wwwroot\AWLRSWebAPI\App_Data

To:

<**Mapserver**>\cgi-bin\

For example, C:\mapserver\cgi-bin

For more information regarding editing the Fontset file please refer to the appropriate version of the “AWLRS Administration Guide”.

NB. If AWLRS is deployed to several load balanced servers this needs to be done on each of them.

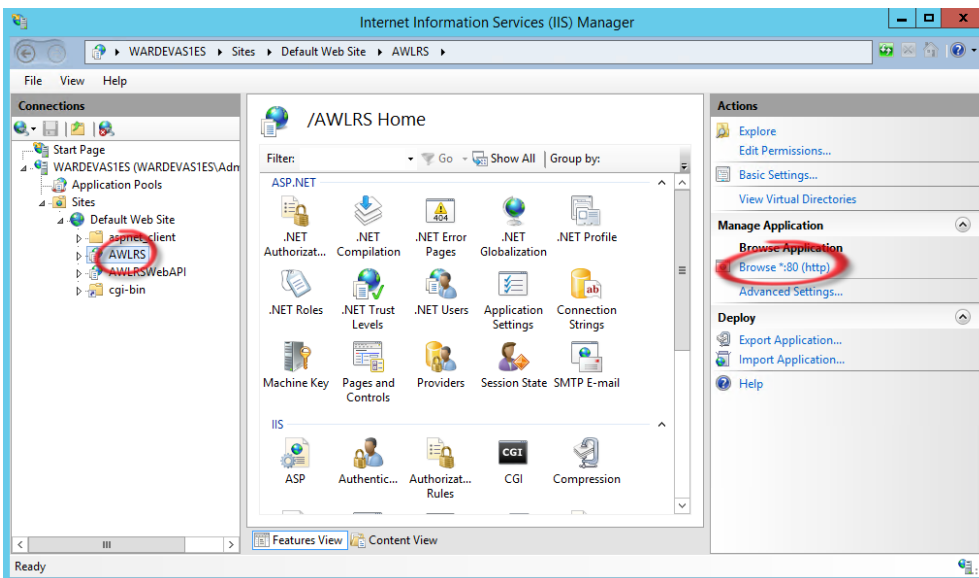
5.3 Write Map Files

Any image files used as the symbol for point layers need to be written to the Mapserver cgi-bin folder before running the application for the first time **or** when any changes involving image files have been made to the AWLRS Map in Oracle Map Builder.

NB. Please refer to the appropriate version of the “AWLRS Administration Guide” and the exor core document "Spatial Server Admin" for details on how to use Oracle Map Builder to configure a Base Map for AWLRS.

To write the image files to the mapserver cgi-bin you must first login to the application, the URL for the application can be derived in the following way:

On the IIS server run IIS Manager, select the AWLRS UI application (for example “AWLRS”) and click on “Browse *:80 (https)” in the right-hand panel:



This will open a browser window, if all is well the AWLRS login page will be displayed, copy the URL from the address bar of the browser and replace “localhost” with the fully qualified name of the server, for example if the server name is awlrserver.bentley.com, the application path used in section 4.4 was “AWLRS” and the application was deployed to the Default Web Site then the starting URL will be:

<http://localhost/AWLRS/#/login>

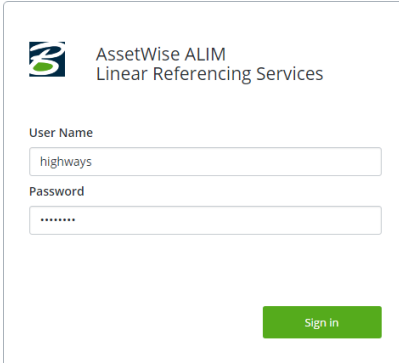
and should be changed to:

<http://awlrserver.bentley.com/AWLRS/#/login>

This is the URL that should be used to launch the AWLRS UI application.

POST INSTALL/UPGRADE TASKS

Paste the new URL into the browser's address bar and login as the Highways Owner:

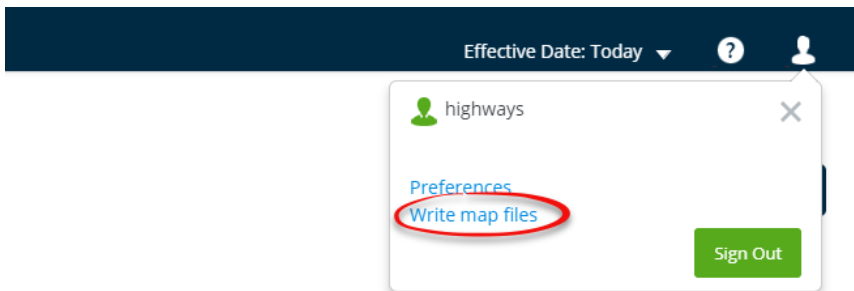


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Linear Referencing Services

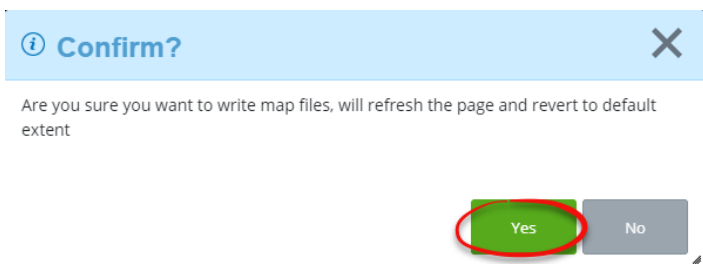
User Name

Password

Once logged in open the user menu located at the top right hand side to the application and click on the Write map files link.



When prompted for confirmation click on the “Yes” button to continue.



The application will write the required image files to the `<mapserver>\cgi-bin` folder and refresh the map, any layers that use the image files should now display correctly.

**NB. If AWLRS is deployed to several load balanced servers this needs to be done on each of them.
i.e. Apply the above steps to each server using the direct (non load balanced) URLs.**

6 AWLRS Local Culture Setting

AWLRS makes use of a language tag to localize messages and labels shown to the user. This language tag will be referred to in this section as the Kendo UI culture code. As well as ensuring correct language specific messages are used, the Kendo UI culture code will ensure local regional settings are appropriate for such things like date formats, currency format etc.

A variety of Kendo UI culture codes are distributed within the application but if the required language is **not** distributed within the application use the following steps to install and configure the additional code.

- 1) Identify the required code of kendo-ui-culture. The following URL displays all available culture codes provided by kendo:

<https://github.com/telerik/kendo-ui-core/tree/2016.R3/src/cultures>

The file names will be of the pattern as shown below

```
kendo.culture.<language code>[-<country/region code>].js
```

For example

```
kendo.culture.en-GB.js
```

The code used within AWLRS config detailed below in this example will be “**en-GB**”

- 2) Configure AWLRS for the required culture.
 - a. Edit [AWLRS UI application deployment path]\app\config\config.json
 - b. Edit the variable kendoUICulture and change its value to required code which we got in Step 1.

For example:

```
{
  "appConfig": {
    "sysConfig": {
      "webApiUrl": "http://[redacted]/AWLRSWebApi/api",
      "kendoUICulture": "en-GB",
      "projectTitle": "AssetWise ALIM Linear Referencing Services",
      "version": "01.01.06.01",
      "keepAliveInterval": 300000,
      "externalIdP": false,
      "decimalFormat": "#.####",
      "decimalPlaces": 4,
    }
  }
}
```

- 3) Add culture files to AWLRS .
 1. Get the required kendo.culture.<code>.js file from <https://github.com/telerik/kendo-ui-core/tree/2016.R3/src/cultures>
 2. Copy the required kendo.culture.<code>.js file to [AWLRS UI application deployment path]\Scripts/kendocultures\ folder.
- 4) Add the resources file to AWLRS.
 1. Create the required resources file by copying any existing resource file of any language and change the values within it to the appropriate language (where required).
 2. The file name pattern should be as below
resources-locale_<code>.js Eg. resources-locale_en-GB.js
 3. If we create for English and for Australia, the code will be en-AU. The file name will be resources-locale_en-AU.js
 4. Copy this to [AWLRS UI application deployment path]\app\plugins\map\config\i18n folder.
- 5) Restart the IIS and AWLRS and the application will start using new kendo-ui-culture.

Note:

If a new code is added and there is no kendo.culture.<code>.js file, then by default, kendo will use en-US .

For every <code> added, the following files are needed:

kendo.culture.<code>.js within:

[AWLRS UI application deployment path]\Scripts\kendocultures\

resources-locale_<code>.js file within: