



# Product Installation and Upgrade Guide v4.4.0.0

## Contents

1 Document Control .....	7
1.1 Author .....	7
1.2 Document Summary .....	7
1.3 Document History .....	7
1.4 Reference documents .....	7
1.5 Distribution .....	8
1.6 Quality Assurance .....	8
2 Introduction .....	9
2.1 Purpose .....	9
2.2 Products Covered by this Guide .....	9
2.3 Order in which to Install/Upgrade Products .....	10
2.4 Pre-Requisites to Installation/Upgrade .....	12
2.4.1 Oracle Application Server Configuration (Install only) .....	14
2.5 Release Notes .....	19
3 Network Manager .....	20
3.1 Installation of the Network Manager Software files .....	20
3.2 Highways Owner Account .....	21
3.2.1 Before you start: .....	21
3.2.2 Creation of a Highways Owner .....	21
3.3 Network Manager Server Install/Upgrade .....	23
3.3.1 Before you Start .....	23
3.3.2 Typical problems that you may encounter .....	23
3.3.3 Install of Network manager .....	24
3.3.4 Post Install Tasks .....	25
3.3.5 Upgrade of Network Manager .....	28
3.3.6 Mandatory Configuration (Post Install and Upgrade) .....	29
3.3.7 EXOR_JPG.JAR (Post Install and Upgrade) .....	29
3.3.8 Process Framework (Post Install and Upgrade) .....	29
3.3.9 Jobs (Post Install and Upgrade) .....	30
3.3.10 Spatial Configuration (Post Install and Upgrade) .....	30
3.3.11 Doc Bundle Loader (Post Install and Upgrade) .....	30
3.3.12 Additional Configuration (Post Install and Upgrade) .....	30
3.3.13 Mapserver Component Install (Post Install and Upgrade) .....	31
4 Street Gazetteer Manager .....	32
4.1 Implementation of the Street Gazetteer Manager Software files .....	32
4.2 Street Gazetteer Manager Server Upgrade .....	33
4.2.1 Before you Start .....	33
4.2.2 Typical problems that you may encounter .....	33
4.2.3 Install of Street Gazetteer manager .....	33
4.2.4 Upgrade of Street Gazetteer Manager .....	34
4.2.5 Mandatory Configuration (Post Install and Upgrade) .....	35
4.2.6 Product Licencing (Post Install only) .....	35
4.2.7 Setting Directory Paths (Post Install only) .....	35
4.2.8 XSD Files (Post Install only) .....	36
4.2.9 Creation of Loader Database Job (Post Install only) .....	38
5 Maintenance Manager .....	40
5.1 Implementation of the Maintenance Manager Software files .....	40
5.2 Maintenance Manager Server Install/Upgrade .....	41

5.2.1 Before you Start .....	41
5.2.2 Typical problems that you may encounter .....	41
5.2.3 Install of Maintenance Manager .....	41
5.2.4 Upgrade of Maintenance Manager .....	42
5.2.5 Mandatory Configuration (Post Install and Upgrade) .....	43
5.2.6 Conflated Networks (Post Install only) .....	43
5.2.7 Additional Configuration (Post Install and Upgrade) .....	44
5.2.8 Product Licencing (Post Install only) .....	44
5.2.9 Spatial Configuration (Post Install and Upgrade) .....	44
<b>6 Enquiry Manager .....</b>	<b>45</b>
6.1 Implementation of the Enquiry Manager Software files .....	45
6.2 Enquiry Manager Server Install/Upgrade .....	46
6.2.1 Before you Start .....	46
6.2.2 Typical problems that you may encounter .....	46
6.2.3 Install of Enquiry Manager .....	46
6.2.4 Upgrade of Enquiry Manager .....	47
6.2.5 Mandatory Configuration (Post Install and Upgrade) .....	48
6.2.6 Additional Configuration (Post Install and Upgrade) .....	48
6.2.7 Product Licencing (Post Install only) .....	48
6.2.8 Spatial Configuration (Post Install and Upgrade) .....	49
<b>7 TMA Manager .....</b>	<b>50</b>
7.1 Implementation of the TMA Manager Software files .....	50
7.2 TMA Manager Server Install/Upgrade .....	51
7.2.1 Before you Start .....	51
7.2.2 Typical problems that you may encounter .....	51
7.2.3 Install of TMA Manager .....	52
7.2.4 Upgrade of TMA Manager .....	58
7.2.5 TMA Manager 4.4.0.0 Fix 1 (Post Install and Upgrade) .....	59
7.2.6 Mandatory Configuration (Post Install and Upgrade) .....	59
7.2.7 Product Licencing (Post Install only) .....	59
7.2.8 Web Service Install/Upgrade (Post Install and Upgrade) .....	60
7.2.9 TMA Process Types (Install only) .....	60
7.2.10 System Holidays (Post Install and Upgrade) .....	61
<b>8 TMA API .....</b>	<b>62</b>
8.1 Implementation of the TMA API Software files .....	62
8.2 TMA API Server Install/Upgrade .....	63
8.2.1 Before you Start .....	63
8.2.2 Typical problems that you may encounter .....	63
8.3 TMA External Notice API Implementation .....	64
8.3.1 Deployment of API Software Files .....	64
8.3.2 API Server Component Install/Upgrade .....	64
<b>9 Streetworks Manager .....</b>	<b>66</b>
9.1 Implementation of the Streetworks Manager Software files .....	66
9.2 Streetworks Manager Server Install/Upgrade .....	67
9.2.1 Before you Start .....	67
9.2.2 Typical problems that you may encounter .....	67
9.2.3 Install of Streetworks Manager .....	67
9.2.4 Upgrade of Streetworks Manager .....	68
9.2.5 Mandatory Configuration .....	69
9.2.6 Product Licencing .....	69
9.2.7 Additional Configuration .....	70
9.2.8 Spatial Configuration .....	70
<b>10 Asset Valuation Manager .....</b>	<b>71</b>
10.1 Implementation of the Asset Valuation Manager Software files .....	71
10.2 Asset Valuation Manager Server Install/Upgrade .....	72
10.2.1 Before you Start .....	72
10.2.2 Typical problems that you may encounter .....	72

10.2.3 Install of Asset Valuation Manager .....	72
10.2.4 Upgrade of Asset Valuation Manager.....	73
10.2.5 Mandatory Configuration .....	74
10.2.6 Product Licencing .....	74
10.2.7 Additional Configuration .....	75
<b>11 Accidents Manager.....</b>	<b>76</b>
11.1 Implementation of the Accidents Manager Software files.....	76
11.2 Accidents Manager Server Install/Upgrade .....	77
11.2.1 Before you Start.....	77
11.2.2 Typical problems that you may encounter .....	77
11.2.3 Install of Accidents Manager .....	77
11.2.4 Upgrade of Accidents Manager .....	78
11.2.5 Mandatory Configuration .....	79
11.2.6 Product Licencing .....	79
11.2.7 Additional Configuration .....	80
<b>12 Public Rights Of Way Manager.....</b>	<b>81</b>
12.1 Implementation of the Public Rights Of Way Manager Software files .....	81
12.2 Public Rights Of Way Manager Server Install/Upgrade .....	82
12.2.1 Before you Start.....	82
12.2.2 Typical problems that you may encounter .....	82
12.2.3 Install of Public Rights Of Way Manager .....	82
12.2.4 Upgrade of Public Rights Of Way Manager .....	83
12.2.5 Mandatory Configuration .....	84
12.2.6 Product Licencing .....	84
12.2.7 Additional Configuration .....	85
<b>13 Street Lighting Manager .....</b>	<b>86</b>
13.1 Implementation of the Street Lighting Manager Software files .....	86
13.2 Street Lighting Manager Server Install/Upgrade .....	87
13.2.1 Before you Start.....	87
13.2.2 Typical problems that you may encounter .....	87
13.2.3 Install of Street Lighting Manager .....	87
13.2.4 Upgrade of Street Lighting Manager.....	88
13.2.5 Mandatory Configuration .....	89
13.2.6 Product Licencing .....	89
13.2.7 Additional Configuration .....	90
<b>14 Schemes Manager .....</b>	<b>91</b>
14.1 Implementation of the Schemes Manager Software files .....	91
14.2 Schemes Manager Server Install/Upgrade.....	92
14.2.1 Before you Start.....	92
14.2.2 Typical problems that you may encounter .....	92
14.2.3 Install of Schemes Manager .....	92
14.2.4 Upgrade of Schemes Manager.....	93
14.2.5 Mandatory Configuration .....	94
14.2.6 Product Licencing .....	94
14.2.7 Additional Configuration .....	95
<b>15 Structures Manager .....</b>	<b>96</b>
15.1 Implementation of the Structures Manager Software files .....	96
15.2 Structures Manager Server Install/Upgrade .....	97
15.2.1 Before you Start.....	97
15.2.2 Typical problems that you may encounter .....	97
15.2.3 Install of Structures Manager.....	97
15.2.4 Upgrade of Structures Manager .....	98
15.2.5 Mandatory Configuration .....	99
15.2.6 Product Licencing .....	99
15.2.7 Additional Configuration .....	100
<b>16 Traffic Interface Manager.....</b>	<b>101</b>

16.1 Implementation of the Traffic Interface Manager Software files .....	101
16.2 Traffic Interface Manager Server Install/Upgrade.....	102
16.2.1 Before you Start.....	102
16.2.2 Typical problems that you may encounter .....	102
16.2.3 Install of Traffic Interface Manager .....	102
16.2.4 Upgrade of Traffic Interface Manager.....	103
16.2.5 Mandatory Configuration .....	104
16.2.6 Product Licencing .....	104
16.2.7 Additional Configuration .....	105
17 Highways Agency Interface .....	106
17.1 Implementation of the Highways Agency Interface Software files .....	106
17.2 Highways Agency Interface Server Install/Upgrade .....	107
17.2.1 Before you Start.....	107
17.2.2 Typical problems that you may encounter .....	107
17.2.3 Install of Highways Agency Interface .....	107
17.2.4 Upgrade of Highways Agency Interface .....	108
17.2.5 Mandatory Configuration .....	109
17.2.6 Product Licencing .....	109
17.2.7 Additional Configuration .....	110
18 MapCapture Interface .....	111
18.1 Implementation of the MapCapture Interface Software files .....	111
18.2 MapCapture Interface Server Install/Upgrade .....	112
18.2.1 Before you Start.....	112
18.2.2 Typical problems that you may encounter .....	112
18.2.3 Install of MapCapture Interface .....	112
18.2.4 Upgrade of MapCapture Interface .....	113
18.2.5 MapCapture Interface 4.4.0.0 Fix 1 (Post Install and Upgrade).....	114
18.2.6 Mandatory Configuration .....	114
18.2.7 Additional Configuration .....	114
19 UKPMS .....	115
19.1 Implementation of the UKPMS Software files.....	115
19.2 UKPMS Server Install/Upgrade.....	116
19.2.1 Before you Start.....	116
19.2.2 Typical problems that you may encounter .....	116
19.2.3 Install of UKPMS .....	116
19.2.4 Upgrade of UKPMS .....	117
19.2.5 Mandatory Configuration .....	118
19.2.6 Product Licencing .....	118
19.2.7 Additional Configuration .....	119
20 Information Manager Foundation Layer .....	120
20.1 Implementation of the Information Manager Foundation Layer Software files .....	120
20.2 Information Manager Foundation Layer Server Install/Upgrade.....	121
20.2.1 Before you Start.....	121
20.2.2 Install or Upgrade of Information Manager Foundation Layer .....	121
20.2.3 Documentation .....	122
20.2.4 Mandatory Configuration .....	122
20.2.5 Product Licencing .....	123
21 Information Manager 4 .....	124
21.1 Implementation of the Information Manager 4 Software files .....	124
21.2 Information Manager 4.4.0.0 Fix 1 .....	124
22 Work Orders Work Tray.....	125
22.1 Implementation of the Work Orders Work Tray Software files.....	125
22.2 Work Orders Work Tray Server Install .....	126
22.2.1 Before you Start.....	126
22.2.2 Typical problems that you may encounter .....	126

22.2.3 Install of Work Orders Work Tray .....	126
22.2.4 Upgrade of Work Orders Work Tray .....	127
22.2.5 Additional Configuration .....	128
22.2.6 Spatial Configuration .....	128
22.3 HTTP Server Setup .....	129
23 Enquiry Manager Work Tray .....	130
23.1 Implementation of the Enquiry Manager Work Tray Software files .....	130
23.2 Enquiry Manager Work Tray Server Install .....	131
23.2.1 Before you Start .....	131
23.2.2 Typical problems that you may encounter .....	131
23.2.3 Install of Enquiry Manager Work Tray .....	131
23.2.4 Upgrade of Enquiry Manager Work Tray .....	132
23.2.5 Additional Configuration .....	133
23.2.6 Spatial Configuration .....	133

## 1 Document Control

### 1.1 Author

Exor Development

### 1.2 Document Summary

This document covers steps involved in installing/upgrading the components for:

- Network Manager
- Street Gazetteer Manager
- Maintenance Manager
- Enquiry Manager
- TMA Manager
- TMA API
- Streetworks Manager
- Asset Valuation Manager
- Accidents Manager
- Public Rights Of Way Manager
- Street Lighting Manager
- Schemes Manager
- Structures Manager
- Traffic Interface Manager
- Highways Agency Interface
- MapCapture Interface
- UKPMS
- Information Manager Foundation Layer
- Information Manager 4
- Work Orders Work Tray
- Enquiry Manager Work Tray

### 1.3 Document History

Document History			
Revision	Date	By	Description
3.0	21-Jul-2011	Bentley Development	First Edition

### 1.4 Reference documents

None

## 1.5 Distribution

Bentley Customers, Partners and Staff

## 1.6 Quality Assurance

Document Details	
File	Prepared By
Product Installation and Upgrade Guide v4.4.0.0.docx	Bentley Development
Document Name	Reviewed By
Product Installation and Upgrade Guide v4.4.0.0	Colin Stewart
Version	Approved for issue by
3.0	Colin Stewart
Date of Issue	Support Manager
29-Jul-2011	Graham Anns



## 2 Introduction

### 2.1 Purpose

This guide covers steps involved in installing/upgrading the components for:

- Network Manager
- Street Gazetteer Manager
- Maintenance Manager
- Enquiry Manager
- TMA Manager
- TMA API
- Streetworks Manager
- Asset Valuation manager
- Accidents Manager
- Public Rights Of Way Manager
- Street Lighting Manager
- Schemes Manager
- Structures Manager
- Traffic Interface Manager
- Highways Agency Interface
- MapCapture Interface
- UKPMS
- Information Manager Foundation Layer
- Information Manager 4
- Work Orders Work Tray
- Enquiry Manager Work Tray

Each product upgrade is split into two distinct stages,

- Stage 1 – Implementation of the Software files
- Stage 2 – Installation/Upgrade of the Server

### 2.2 Products Covered by this Guide

Table 1 lists the relevant products that are covered by this guide.

Product	Install	Upgrade From 4.3.1.0	Upgrade From 4.3.0.1	Upgrade From 4.3.0.0
Network Manager	✓	✗	✓	✓
Street Gazetteer Manager	✓	✗	✗	✓
Maintenance Manager	✓	✗	✗	✓
Enquiry Manager	✓	✗	✗	✓

Product	Install	Upgrade From 4.3.1.0	Upgrade From 4.3.0.1	Upgrade From 4.3.0.0
TMA Manager	✓	✗	✗	✓
TMA API	✓	✗	✗	✓
Streetworks Manager	✓	✗	✗	✓
Asset Valuation Manager	✓	✗	✗	✓
Accidents Manager	✓	✗	✗	✓
Public Rights Of Way Manager	✓	✗	✗	✓
Street Lighting Manager	✓	✗	✗	✓
Schemes Manager	✓	✗	✗	✓
Structures Manager	✓	✗	✗	✓
Traffic Interface Manager	✓	✗	✗	✓
Highways Agency Interface	✓	✗	✗	✓
MapCapture Interface	✓	✗	✗	✓
UKPMS	✓	✓	✗	✗
Information Manager Foundation Layer	✓	✗	✗	✓
Information Manager 4	✓	✗	✗	✓
Work Order Work Tray	✓	✗	✗	✓
Enquiry Manager Work Tray	✓	✗	✗	✓

**Table 1: List of products covered by this guide**

## 2.3 Order in which to Install/Upgrade Products

Table 2 lists the order in which to install/upgrade the products in this release.

Product to Install/Upgrade	Order to Install/Upgrade
Network Manager	1
Street Gazetteer Manager	2
Maintenance Manager	3
Enquiry Manager	4
TMA Manager	5
TMA API	6
Streetworks Manager	7
Asset Valuation Manager	8
Accidents Manager	9
Public Rights Of Way Manager	10
Street Lighting Manager	11
Schemes Manager	12
Structures Manager	13
Traffic Interface Manager	14
Highways Agency Interface	15
MapCapture Interface	16
UKPMS	17
Information Manager Foundation layer	18
Information Manager 4	19
Work Orders Work Tray	20
Enquiry Manager Work Tray	21

**Table 2: Order in which to install/upgrade products**

## 2.4 Pre-Requisites to Installation/Upgrade

It is assumed that the audience of this document understand the configuration of the servers being installed/upgraded and are sufficiently proficient with SQL\*Plus. It is also assumed that the terminology used in this document is understood by the reader.

**NB.** The instructions for installation of the software describes the installation of all the software into a single area (usually referred to as the 'Client'). The instructions for installing/upgrading the Server (your Highways schema) assume you have access to the database from the 'Client'.

Your configuration and server access may differ from this; the InstallShield can still be used for installation. For example, you may have to install the Client software on the Application Server and the Server software on the Database Server for reasons of database access availability from the Application Server.

If in any doubt please raise a ticket at <http://selectservices.bentley.com>.

Before attempting to install/upgrade, you should ensure that;

- the database version is 11gr2 in accordance with the certification matrix. Please that the database can be upgraded with the assistance of services or Oracle documentation.
- also, when using ESRI please ensure, before installing or upgrading the Exor 4.4.0.0 product set, that the version installed is compatible in accordance with the certification matrix.
- the appropriate software components are installed and are compatible with the exor certification matrix. The certification matrix can be downloaded from the Client area of the [exor website](#).
- all users are disconnected from the system
- the highways listener processes are not running
- a database export of the owner of Highways owner has been taken.
- You **MUST** rename the current <exor\_base> directory and sub-directory structure and contents to a new area (e.g. <exor\_base4300>). This ensures that a copy is available for backup or reference purposes should any issues arise during the installation. The installation can then continue into the area that the <exor\_base> normally resides (which should now be empty).

For Example:

....rename the current <exor\_base> directory and sub-directory structure and contents to a new area (e.g. <exor\_base4300>)

```

Administrator: Command Prompt

C:\>dir exor*
Volume in drive C is System
Volume Serial Number is CA95-AC9C

Directory of C:\

01/03/2011  10:17    <DIR>          exor
               0 File(s)              0 bytes
               1 Dir(s)  38,682,984,448 bytes free

C:\>dir exor
Volume in drive C is System
Volume Serial Number is CA95-AC9C

Directory of C:\exor

01/03/2011  10:17    <DIR>          .
01/03/2011  10:17    <DIR>          ..
01/03/2011  10:17    <DIR>          mai
01/03/2011  10:17    <DIR>          nm3
01/03/2011  10:17    <DIR>          nsg
01/03/2011  10:17    <DIR>          pem
01/03/2011  10:17    <DIR>          tna
               0 File(s)              0 bytes
               7 Dir(s)  38,682,984,448 bytes free

C:\>ren exor exor_base4300

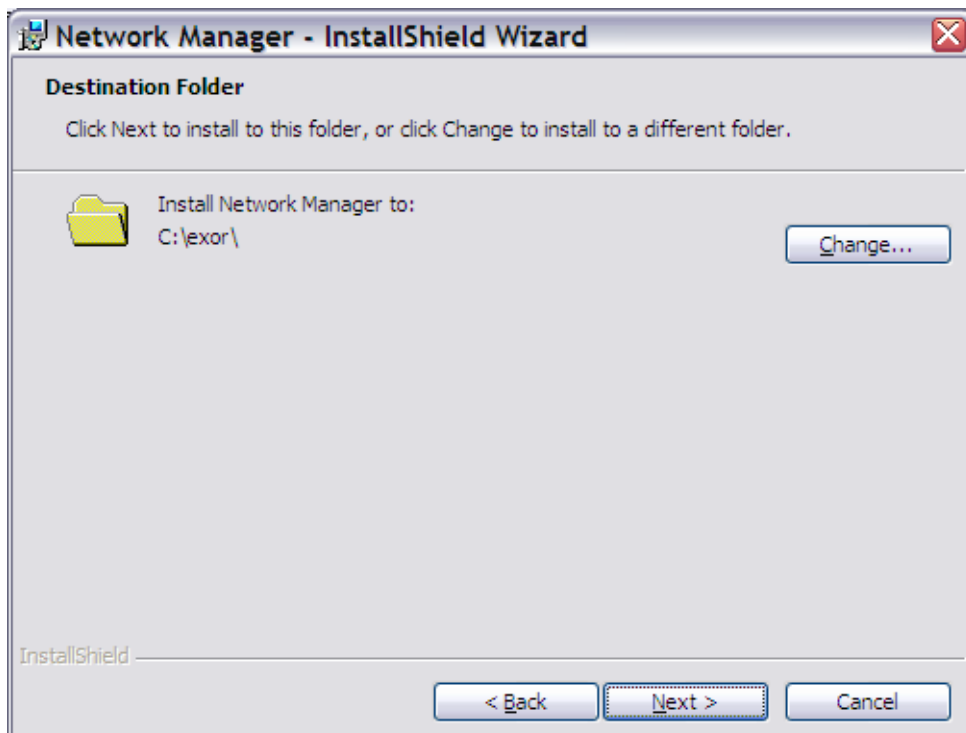
C:\>dir exor*
Volume in drive C is System
Volume Serial Number is CA95-AC9C

Directory of C:\

01/03/2011  10:17    <DIR>          exor_base4300
               0 File(s)              0 bytes
               1 Dir(s)  38,682,984,448 bytes free

C:\>_
  
```

... The installation can then continue into a clean area (e.g. c:\exor)



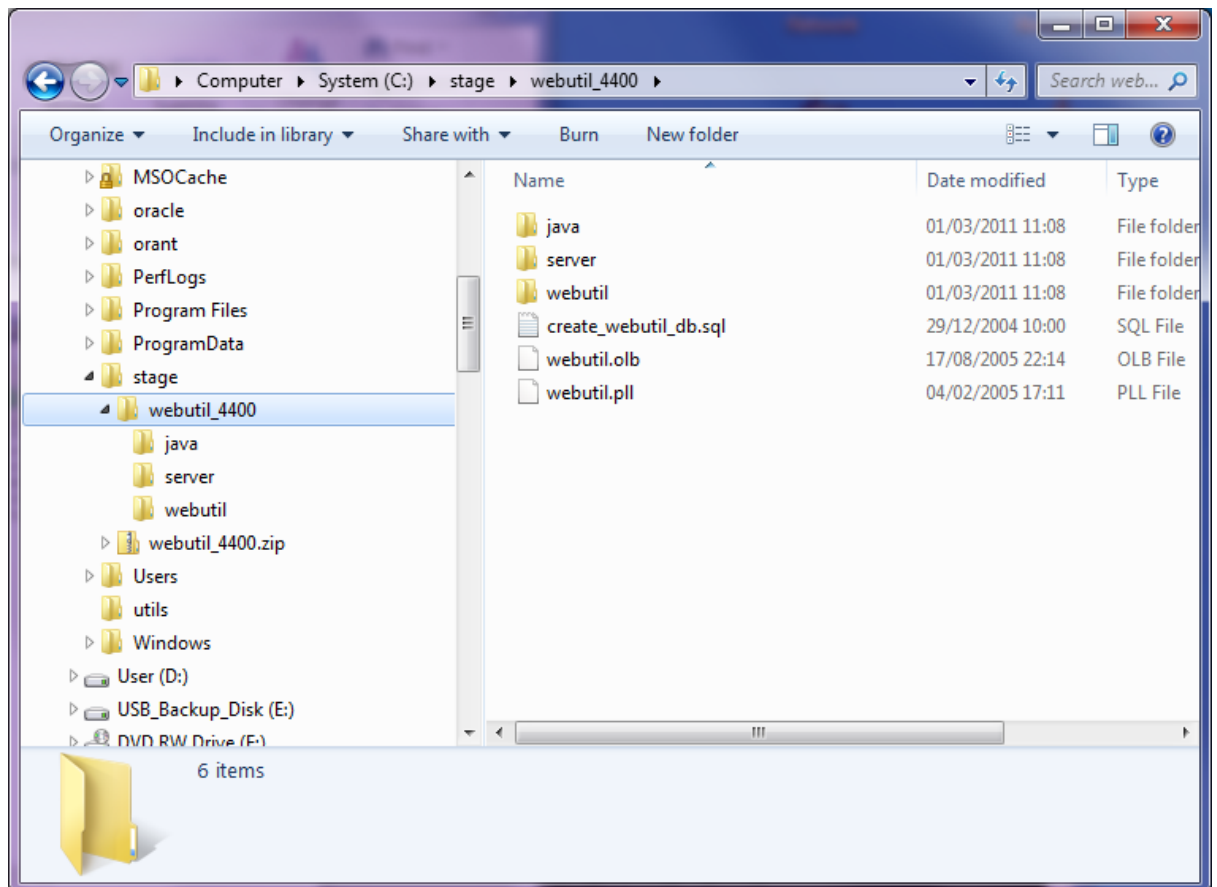
## 2.4.1 Oracle Application Server Configuration (Install only)

**Please note that this section is not applicable when performing an upgrade. It should only be completed when a new install of Core 4.4.0.0 is taking place.**

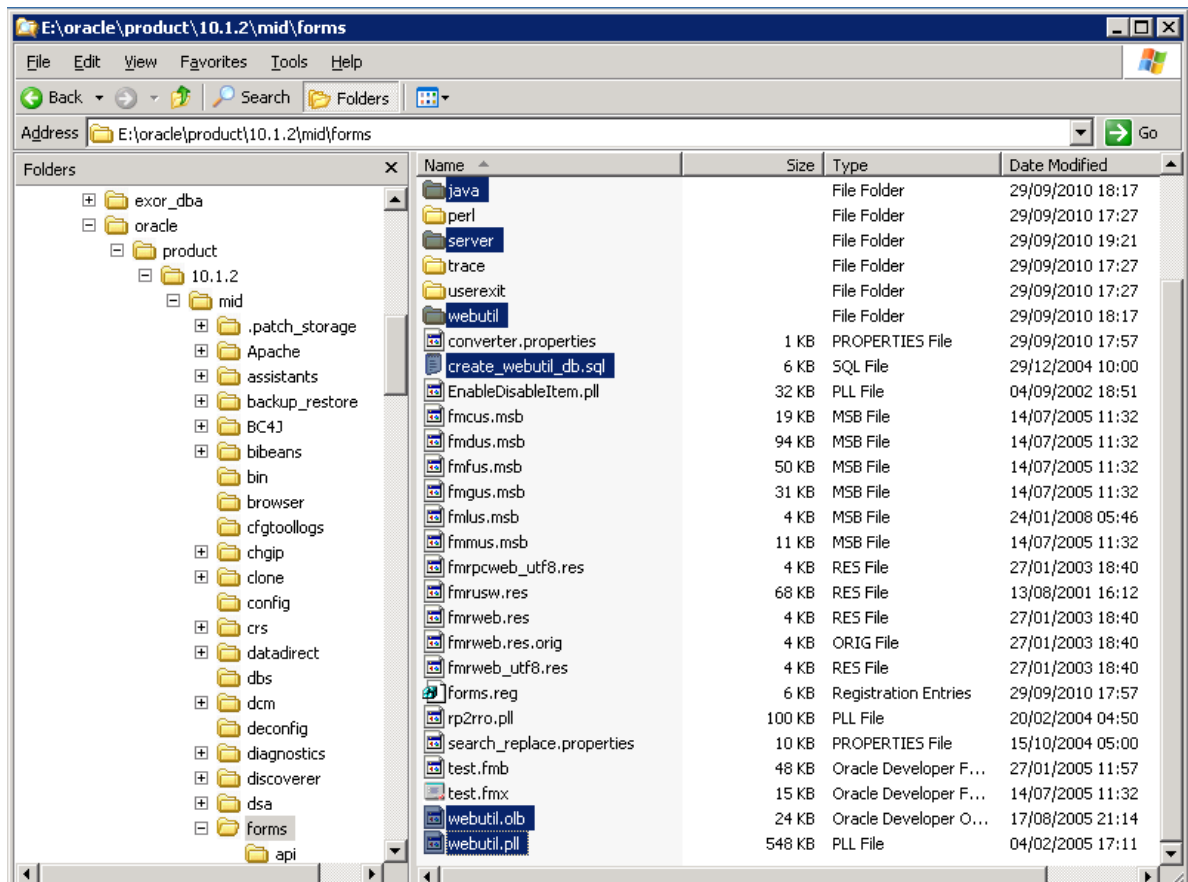
Exor Release 4.4.0.0 makes use of WebUtil functionality within the Oracle Application Server Technology stack for Maintenance Manager (Inspection Loader), Document Manager (uploading documents and Document Bundle Loader) and the Process Framework. This requires additional configuration within the Oracle Applications 10.1.2.3 Middle Tier (Forms) deployment.

### Deploy WebUtil

Locate the file webutil\_4400.zip contained within the nm3\_4400.zip (available from the Exor Download site) and unzip into a staging area to give a folder structure as below:-



These folders can then be copied into the ORACLE\_HOME/forms directory to give a final folder structure of:-



### Edit webutiljpi.htm

It is not possible to edit the webutiljpi.htm file via enterprise manager; navigate to <ORACLE\_MIDDLE\_TIER\_HOME>\forms\server and open the webutiljpi.htm file using a suitable text editor.

The new PARAMETER\_NAME and EMBEDDED SRC to allow a specific java version to be used should be added to the file in two sections, first the 'Registration applet definition (start)' section, then the 'Forms applet definition (start)' section – NOTE: in this section you will have to scroll down to the EMBED SRC section to add java\_version. The screen shots below indicate this.

**NOTE in order to edit this file the Forms Service must be down, stop the OC4J\_BI\_FORMS service using Application Server Control.**

Add the new PARAMETER\_NAME and EMBEDDED SRC as per below and save the file.

```

webutiljpi.htm - WordPad
File Edit View Insert Format Help

<BODY %HTMLbodyAttrs%>
%HTMLbeforeForm%

<!-- Registration applet definition (start) -->
<OBJECT classid="%jpi_classid%"
        codebase="%jpi_codebase%"
        WIDTH="0"
        HEIGHT="0"
        HSPACE="0"
        VSPACE="0">

<PARAM NAME="TYPE"        VALUE="%jpi_mimetype%">
<PARAM NAME="CODEBASE"    VALUE="%codebase%">
<PARAM NAME="CODE"        VALUE="oracle.forms.webutil.common.RegisterWebUtil" >
<PARAM NAME="ARCHIVE"     VALUE="%webUtilArchive%" >
<PARAM NAME="java_version" VALUE="%java_version%">

<COMMENT>
<EMBED SRC="" PLUGINSOURCE="%jpi_download_page%"
        TYPE="%jpi_mimetype%"
        java_codebase="%codebase%"
        java_code="oracle.forms.webutil.common.RegisterWebUtil"
        java_archive="%webUtilArchive%"
        java_version="%java_version%"

UTHTW=11
For Help, press F1

```

```

webutiljpi.htm - WordPad
File Edit View Insert Format Help

<!-- Forms applet definition (start) -->
<NOSCRIPT>
<OBJECT classid="%jpi_classid%"
        codebase="%jpi_codebase%"
        WIDTH="%Width%"
        HEIGHT="%Height%"
        HSPACE="0"
        VSPACE="0">
</NOSCRIPT>
<SCRIPT LANGUAGE="JavaScript" SRC="java/forms_ie.js"></SCRIPT>
<PARAM NAME="TYPE"        VALUE="%jpi_mimetype%">
<PARAM NAME="CODEBASE"    VALUE="%codebase%">
<PARAM NAME="CODE"        VALUE="oracle.forms.engine.Main" >
<PARAM NAME="ARCHIVE"     VALUE="%archive%,%webUtilArchive%" >
<PARAM NAME="java_version" VALUE="%java_version%">

<PARAM NAME="serverURL"   VALUE="%serverURL%">
<PARAM NAME="networkRetries" VALUE="%networkRetries%">
<PARAM NAME="serverArgs"
        VALUE="%escapeParams% module=%form% userid=%userid% sso_userid=%sso_userid% s:
<PARAM NAME="separateFrame" VALUE="%separateFrame%">
<PARAM NAME="splashScreen"  VALUE="%splashScreen%">
<PARAM NAME="background"   VALUE="%background%">
<PARAM NAME="lookAndFeel"  VALUE="%lookAndFeel%">
<PARAM NAME="colorScheme"  VALUE="%colorScheme%">
<PARAM NAME="serverApp"    VALUE="%serverApp%">
<PARAM NAME="logo"         VALUE="%logo%">
For Help, press F1

```



```
<PARAM NAME="background" VALUE="%background%">
<PARAM NAME="lookAndFeel" VALUE="%lookAndFeel%">
<PARAM NAME="colorScheme" VALUE="%colorScheme%">
<PARAM NAME="serverApp" VALUE="%serverApp%">
<PARAM NAME="logo" VALUE="%logo%">
<PARAM NAME="imageBase" VALUE="%imageBase%">
<PARAM NAME="formsMessageListener" VALUE="%formsMessageListener%">
<PARAM NAME="recordFileName" VALUE="%recordFileName%">
<PARAM NAME="EndUserMonitoringEnabled" VALUE="%EndUserMonitoringEnabled%">
<PARAM NAME="EndUserMonitoringURL" VALUE="%EndUserMonitoringURL%">
<PARAM NAME="heartBeat" VALUE="%heartBeat%">
<PARAM NAME="WebUtilLogging" VALUE="%WebUtilLogging%">
<PARAM NAME="WebUtilLoggingDetail" VALUE="%WebUtilLoggingDetail%">
<PARAM NAME="WebUtilErrorMode" VALUE="%WebUtilErrorMode%">
<PARAM NAME="WebUtilDispatchMonitorInterval" VALUE="%WebUtilDispatchMonitorInterval%">
<PARAM NAME="WebUtilTrustInternal" VALUE="%WebUtilTrustInternal%">
<PARAM NAME="WebUtilMaxTransferSize" VALUE="%WebUtilMaxTransferSize%">
<COMMENT>
<EMBED SRC="" PLUGINSFAGE="%jpi_download_page%"
  TYPE="%jpi_mimetype%"
  java_codebase="%codebase%"
  java_code="oracle.forms.engine.Main"
  java_archive="%archive%,%webUtilArchive%"
  java_version="%java_version%"

  WIDTH="%Width%"
  HEIGHT="%Height%"
  HSPACE=""
  For Help, press F1
```

This additional new parameter allows the Application to force the use of a specific version of JRE specified in the formsweb.cfg file. Once the changes are completed the Forms services may be started.

### Configure the Forms Service to use WebUtil

**Oracle Application Server 10.1.2.3 only supports the editing of certain configuration files using Enterprise Manager Application Server Control.**

Add the additional parameters to the default section of formsweb.cfg

```
webUtilArchive frmall.jar,jacob.jar
webUtilLogging on
```

Edit the User Defined section of formsweb.cfg to represent the new values required for 4.4.0.0

```
baseHTMLjinitiator webutiljpi.htm
pjcArchive frmall.jar,exor_jpg.jar,UploadClient.jar,UploadClient.jar.sig,exorMapviewer4400_10_1_3.jar,mvclient_10_1_3.jar,share.jar
archive frmall.jar,exor_jpg.jar,UploadClient.jar,UploadClient.jar.sig,exorMapviewer4400_10_1_3.jar,mvclient_10_1_3.jar,share.jar
workingDirectory E:\exor_dba\bin
```

Ensure that frmall.jar exists in the CLASSPATH variable and if it does not, add it now.

WebUtil requires a single virtual directory to be defined in order to download files at runtime as they are needed which maps onto the ORACLE\_HOME/forms/webutil directory

Edit the file <ORACLE\_HOME>/forms/server/forms.conf and add the alias as:-

```
AliasMatch ^/forms/webutil/(.*) <ORACLE_HOME>/forms/webutil/$1"
```

```
forms.conf - WordPad
File Edit View Insert Format Help

# 1. Prevent access via the .llm and .llmi file extensions:
<LocationMatch ^.*\.(frm|llm|llmi)$>
    order deny,allow
    deny from all
</LocationMatch>

# 2. Stop access by class (by paths like
# /forms/servlet/oracle.forms.servlet.FormsServlet)
<LocationMatch ^/forms/servlet/oracle\.(forms|servlet)$>
    order deny,allow
    deny from all
</LocationMatch>

</IfModule>

</IfModule>

# Config. for OC4J
<IfModule mod_oc4j.c>
    Oc4jMount /forms OC4J_BI_Forms
    Oc4jMount /forms/frmservlet OC4J_BI_Forms
    Oc4jMount /forms/frmservlet/* OC4J_BI_Forms
    Oc4jMount /forms/lervlet OC4J_BI_Forms
    Oc4jMount /forms/lervlet/* OC4J_BI_Forms
</IfModule>

AliasMatch ^/forms/webutil/(.*) e:/oracle/product/10.1.2/mid/forms/webutil/$1"
```

## Configure the WebUtil

There are numerous options that can be configured in webutil.cfg relating to Logging, OS specifics, Upload/Download, and work areas. Initially we only configure the File Transfer which requires the following change to webutil.cfg

```
webutil.cfg - WordPad
File Edit View Insert Format Help

# user_home/temp will be assumed.
# This location is always readable and writable
# no matter what the settings in
# transfer.appsrv.* are. This setting is
# required if you need the Client side
# READ/WRITE_IMAGE_FILE procedures.
# transfer.appsrv.accessControl: Can be TRUE or FALSE - allows you to indicate
# that uploads and downloads can only occur from
# the directories named in the
# transfer.appsrv.read.n and
# transfer.appsrv.write.n entries and their
# subdirectories. If this setting is FALSE,
# transfers can happen anywhere.
# transfer.appsrv.read.<n>: List of directory names that downloads can read
# from.
# transfer.appsrv.write.<n>: List of directory names that uploads can write
# to.

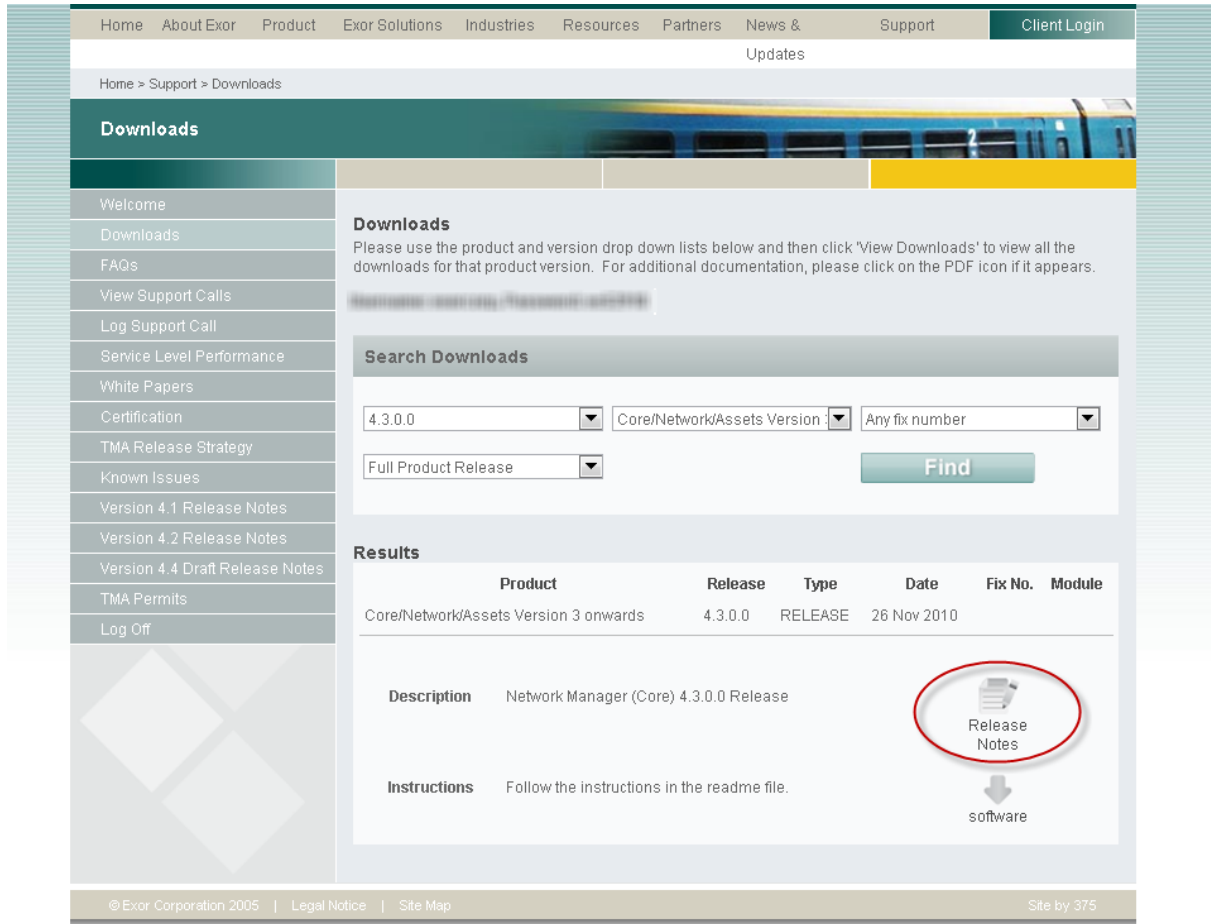
#NOTE: By default the file transfer is disabled as a security measure
transfer.database.enabled=TRUE
transfer.appsrv.enabled=TRUE
transfer.appsrv.workAreaRoot=
transfer.appsrv.accessControl=TRUE
#List transfer.appsrv.read.<n> directories
transfer.appsrv.read.1=c:\temp
#List transfer.appsrv.write.<n> directories
transfer.appsrv.write.1=c:\temp
```

In the example above we have set the database and appsrv to be 'TRUE' with the default settings for transfer.appsrv.read and transfer.appsrv.write being at the default of c:\temp. We may need to add additional folders here to allow the upload on Maintenance Manager files etc to the specific Exor Directories.

## 2.5 Release Notes

Please note that Release Notes per product are not included in the install shield software download for 4.4.0.0 products, unlike previous releases.

The Release Notes for a 4.4.0.0 product can be obtained via the 'Release Notes' icon on the Download Webpage, as highlighted by the example below for Network manager Release 4.3.0.0:



The screenshot shows the Exor Downloads page. The left sidebar contains a list of links: Welcome, Downloads, FAQs, View Support Calls, Log Support Call, Service Level Performance, White Papers, Certification, TMA Release Strategy, Known Issues, Version 4.1 Release Notes, Version 4.2 Release Notes, Version 4.4 Draft Release Notes, TMA Permits, and Log Off. The main content area is titled 'Downloads' and includes a search section with dropdowns for '4.3.0.0', 'Core/Network/Assets Version', and 'Any fix number', along with a 'Find' button. Below the search section, a table lists the results:

Product	Release	Type	Date	Fix No.	Module
Core/Network/Assets Version 3 onwards	4.3.0.0	RELEASE	26 Nov 2010		

Below the table, the 'Description' is 'Network Manager (Core) 4.3.0.0 Release' and the 'Instructions' are 'Follow the instructions in the readme file.' A red circle highlights the 'Release Notes' icon, which is a document icon with the text 'Release Notes' and a download arrow pointing to 'software'.

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Site by 375

## 3 Network Manager

### 3.1 Installation of the Network Manager Software files

To install the software components for Network Manager execute the **setup\_network\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 3.2 Highways Owner Account

This section provides details of steps involved in creating as owner for all exor database objects.

### Important:

Only perform the steps outlined in this section if you do not already have a 'Highways Owner' account. If you are upgrading Network Manager then please skip to section 3.3.5.

### 3.2.1 Before you start:

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 3.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 3.2.2 Creation of a Highways Owner

The following paragraphs should be used to create a new schema for the implementation of Network Manager and any other subsequent exor application.

#### Tablespace Requirements

The following tablespaces (or equivalents) should be made available on your server:

**HIGHWAYS**      Default Table Space. Can be a different name if required.

**TEMP**            Default temporary Tablespace for users. Can be a different name.

#### Data Dictionary Privileges

Login to SQL\*PLUS as the **SYS** user on the client PC and run the following command :

```
start <exor_base>\nm3\install\hig_sys_grants
```

### The higowner script

Login to SQL\*PLUS as the **SYSTEM** user on the client PC and run the following command:

```
start <exor_base>\nm3\install\higowner
```

This script will prompt you for the following information:

Prompt	Meaning
Highways Owner Name	This should be the name to be given to your highways owner
Owner's Password	Password for highways owner
Default Tablespace	Default Tablespace for highways owner
Temporary Tablespace	Temporary Tablespace for highways owner
System Start Date	This is the earliest date at which data is valid in your database
Admin Type Code	Code for the default admin unit type
Admin Type Description	Description for the default admin unit type
Admin Unit Code	Code for the default Admin Unit
Admin Unit Description	Description for the default Admin Unit

You will now have a new Oracle user set up with all relevant privileges to run the highways application. Also the system start date for your database will have been set and Top level Admin Unit created for your default Admin Unit Type.

### 3.3 Network Manager Server Install/Upgrade

This section provides details of steps involved in installing/upgrading the server components for Network Manager to 4.4.0.0.

**Important:**

This product will require upgrading **before** any other 4.4.0.0 product upgrades.

#### 3.3.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 3.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

#### 3.3.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 3.3.3 Install of Network manager

#### Core User and Objects

The following should be used to create a new schema for the implementation of Context Setting. This step is only required for a new install of Network Manager (i.e. not required if upgrading from a previous version of Network Manager).

Login to SQL\*PLUS as the **SYSTEM** user on the client PC and run the following command:

```
start <exor_base>\nm3\install\exor_core_user_creation.sql
```

Login to SQL\*PLUS as the **EXOR\_CORE** user (Password EXOR\_CORE) on the client PC and run the following command:

```
start <exor_base>\nm3\install\exor_core_objects.sql
```

Then continue with the Install of Network Manager.

#### Install of Network Manager

To create the base data and objects for Network Manager modules;

Change directory to **<exor\_base>\nm3\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start nm_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Network Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
nm3_install_1_<date&time>.LOG  
nm3_install_2_<date&time>.LOG
```

#### Note:

it is perfectly normal for the NM3SDE package to not compile if an SDE schema does not exist or if the highways owner has no privilege to read SDE objects.

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.



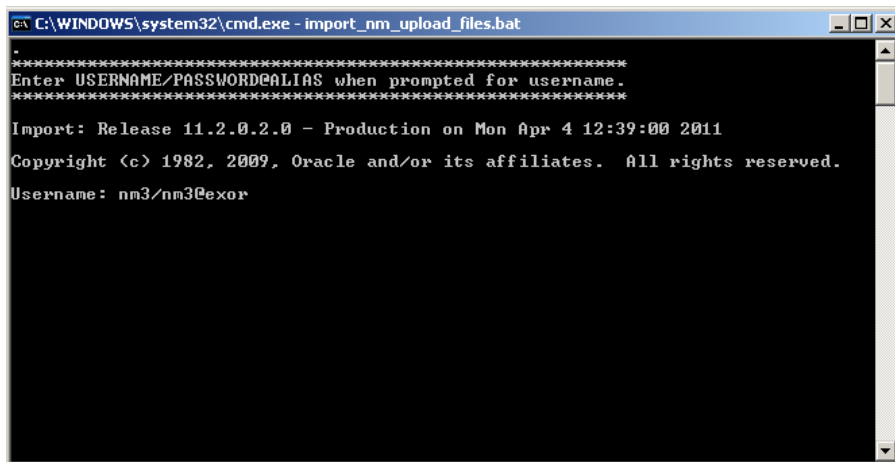
### 3.3.4 Post Install Tasks

#### Creation Of Additional Database Objects

Once an **install** has been completed the following batch files must be run;

- import\_nm\_upload\_files.bat
- ldjava\_11g.bat (for customers with an Oracle 11gR2 RDBMS)

These may be found in the **<exor\_base>\nm3\install\** directory and should be run from the command prompt.



```

C:\WINDOWS\system32\cmd.exe - import_nm_upload_files.bat
*****
Enter USERNAME/PASSWORD@ALIAS when prompted for username.
*****
Import: Release 11.2.0.2.0 - Production on Mon Apr 4 12:39:00 2011
Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.
Username: nm3/nm3@exor
  
```

You will be prompted for the Username of the Highways Owner. Enter the Username/Password@alias then press Enter, e.g. nm3/nm3@exor

#### Synonyms

Highways product option HIGPUBSYN is used to dictate whether or not Public database synonyms are used.

On first time installation of Network Manager synonyms are NOT created. So to create synonyms following installation, use the Highways application to set product option HIGPUBSYN and then within SQL\*Plus run the following command;

```
EXECUTE nm3ddl.refresh_all_synonyms;
```

Note:

if you opt to not use Public Synonyms, then Private synonyms are created for all subordinate users when the above command is executed.

#### Configuring NM3WEB

This section provides details of steps involved in configuring the Gateway Database Access Descriptor to allow access to the Web modules used within Highways by Exor.

These include modules such as the  
 CSV Loaders - HIGWEB2030  
 Engineering Dynamic Segmentation - NMWEB0020.

In this section <apache\_html> refers to the base directory for files accessed through the Apache web server. By default this is ORACLE\_HOME\apache\apache\htdocs.

A Database Access Descriptor (DAD) must be created to handle the connection to the database by the web server.

From the Oracle Apache Admin page (by default this is <http://<host>/index.html>) select *mod\_plsql*. Select *Gateway Database Access Descriptor Settings*.

Select *Add Default (blank configuration)*.

*Database Access Descriptor Name* should be NM3WEB

*Schema Name* should be blank.

Fill in user, password and database as required. You can leave the password and/or username blank to force the user to enter them (recommended).

*Authentication Mode* should be Basic.

*Session Cookie* should be blank.

*Create a Stateful Session?* Should be No.

*Note that if Running on Oracle Standard Edition this should be set to Yes.*

*Enable Connection Pooling?* Should be Yes.

*Default (Home) Page* should be nm3web.main\_menu.

*Document Table* should be nm\_upload\_files.

*Document Access path* should be the value set for Product Option WEBDOCPATH. The standard metadata value is docs

*Document Access Procedure* should be nm3web.process\_download

Click *OK* button at top of page.

Note:

In order to access the Web Modules the User must be granted the appropriate Roles for the Module. Refer to the General System Admin Guide for more information on User Roles

### Forms 10g Specific Configuration

There are certain product options which must be set according to the Oracle forms version that is being used to run the exor application.

NOT\_6I\_REP

This should be set to Y

REPURL

The value of this product option should be set to the URL that identifies the 10g Application Server Reports Server.

e.g.

[http://<app\\_server>:7778/reports/rwservlet?server=<rep\\_server>](http://<app_server>:7778/reports/rwservlet?server=<rep_server>)

### Date Format Masks

There are a couple of registry entries that can be used to re-define the default Forms date mask.

These registry entries should be added to the same area of the registry as the FORMS\_PATH e.g

HKEY\_LOCAL\_MACHINE\SOFTWARE\Oracle

Note:

If running Oracle forms via an application server then only the registry on the application server needs to be updated.

### Registry Setting

FORMS\_USER\_DATE\_FORMAT

### Example Value data

DD-MON-RRRR|DDMONRRRR|DD/MM/RRRR

Used to set the allowed input format mask(s).

Multiple masks should be separated with a pipe character.

The example above allows the user to enter the 1st of Jan 2005 as :-

01-JAN-2005

01-JAN-05

01JAN2005

01JAN05

01/01/2005

01/01/05

Used (rather unsurprisingly) by Forms to format the displayed Date.

i.e. If the user enters the date as 01JAN05 the displayed value is changed to 01-JAN-2005 when the user leaves the field or the form is validated. This mask is also applied when querying in a Form.

**Only one value should be set for this entry.**

### 3.3.5 Upgrade of Network Manager

#### Pre Upgrade Tasks

Before upgrading Network Manager to 4.4.0.0 it is necessary to run the following file as the **SYS** user:

- Change directory to **<exor\_base>\nm3\install**
- Login to SQL\*PLUS as the **sys** user (as sysdba) on the client PC
- Run the following command  
`start nm4400_sys_upg.sql`

#### Upgrade of Network Manager

This section describes the steps necessary to upgrade Network Manager to 4.4.0.0

To upgrade the base data and objects for the Network Manager modules;

- Change directory to **<exor\_base>\nm3\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- Run the following command  
`start nm4300_nm4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Network Manager objects and data will have been upgraded.

#### Checking Log File(s)

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.

```
nm4300_nm4400_1_<date&time>.LOG  
nm4300_nm4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 3.3.6 Mandatory Configuration (Post Install and Upgrade)

#### exor\_version.txt

Before accessing Network Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Network Manager is set accordingly;

**NET=4.4.0.0**  
**HIG=4.4.0.0**  
**AST=4.4.0.0**  
**DOC=4.4.0.0**  
**WMP=4.4.0.0**

#### Forms Username Flag

The following flag should be set in the forms/server/default.env file. When the flag has been appended to the end of the file restart the forms service.

```
FORMS_USERNAME_CASESENSITIVE = 1
```

If it is not set any forms opened will return invalid username/password errors to 11g database case sensitivity functionality (not currently compatible with 10g forms):



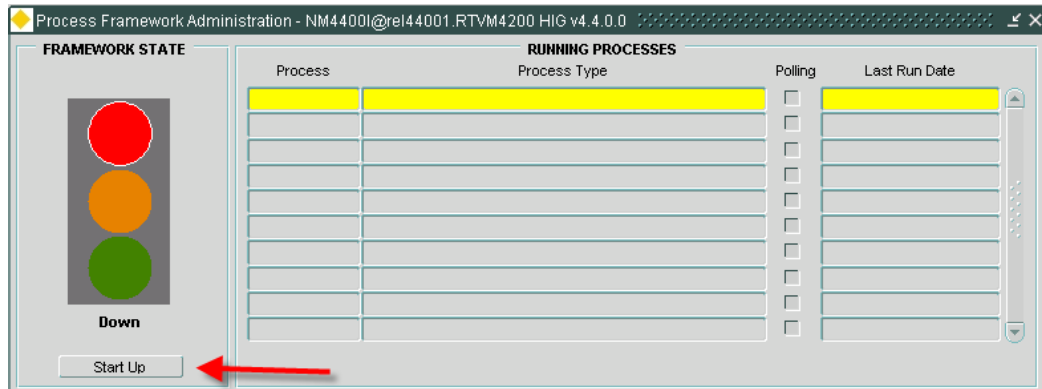
### 3.3.7 EXOR\_JPG.JAR (Post Install and Upgrade)

Copy the new EXOR\_JPG.JAR from the <exor\_base>/icons/java folder to the <forms\_home>/java folder on the application server.

Users may need to clear their JRE caches to see the changes.

### 3.3.8 Process Framework (Post Install and Upgrade)

The Process Framework can be started (or stopped) via the Process Framework Administration form (hig2550). After successfully completing installs or upgrades to 4.4.0.0 for all products required navigate to this form and use the Start Up button to start up the Process Framework.



### 3.3.9 Jobs (Post Install and Upgrade)

After completing a successful install/upgrade of all products required to 4.4.0.0 please execute the following script to start/restart Core jobs:

- Change directory to **<exor\_base>\nm3\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- Run the following command  

```
start nm3jobs.sql
```

### 3.3.10 Spatial Configuration (Post Install and Upgrade)

Specific information regarding the registration of spatial layers can be found in the **“Locator and Web Mapping”** document.

### 3.3.11 Doc Bundle Loader (Post Install and Upgrade)

#### Oracle External Scheduler Jobs

- For databases that exist on a Windows Operating System – The OracleJobScheduler<instance> service **MUST** be running on the database server.
- For databases that exist on a Solaris/Linux Operating System – Relevant permissions to execute <db\_home>/bin/extjob must be set in accordance with Oracle Documentation.
- External Jobs are not supported on any other platform.

### 3.3.12 Additional Configuration (Post Install and Upgrade)

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

#### Important:

It is highly recommended that you do this before attempting to use the application.

### 3.3.13 Mapserver Component Install (Post Install and Upgrade)

At version 4.4.0.0 of the Exor Application set, locator mapping software using Oracle Application Server Mapviewer version 10.1.3.3 should be implemented.

Locate the `<exor_base>\msv\exorMapviewer4400` where you will find `exorMapviewer4400_10_1_3.jar`. Copy this file to `<oracle_home>\mid\forms\java`.

The `formsweb.cfg` file, located at `<oracle_home>\mid\forms\server`, will need editing to reference occurrences of `exorMapviewer4400_10_1_3.jar` once the upgrade of the test and/or live system has taken place. There are usually two lines per entry (test and live)

**e.g. for Oracle Mapviewer version 10.1.3:**

```
pjcArchive=frmall.jar,exor_jpg.jar,UploadClient.jar,UploadClient.jar.sig,exorMapviewer4400_10_1_3.jar,mvclient_10_1_3.jar
archive_jini=exor_jpg.jar,exorMapviewer4400_10_1_3.jar,frmall.jar,mvclient_10_1_3.jar,UploadClient.jar,UploadClient.jar.sig
```

Save the file and exit.

On each client machine the Jar Cache will need to be cleared. This can be done by the following methods.

#### Sun JRE users

Start-> Settings-> Control Panel-> Java. Navigate to the "General" tab and click "Settings" button. In the Disk Space section click "Delete Files" button

You should now load the exor application in the usual way. On the first load, it will take longer than usual whilst the JAR files are cached again.

#### MV\_SECURITY Option

Please ensure that the MV\_SECURITY option in the Mapviewer config file is set to FALSE. This has to be set to FALSE so that the Java code can create a data source on the fly when the preferred data source is not set.



```

number_of_mappers="3"
allow_jdbc_theme_based_foi="false"
/>
<map_data_source name="WSP04478"
  jdbc_host="Wartestordb01.bentley.com"
  jdbc_sid="wsp04478"
  jdbc_port="1521"
  jdbc_user="highways"
  jdbc_password="Q1rkCChq+YccAKdyJoz3Ekd9RaHdKj8"
  jdbc_mode="thin"
  number_of_mappers="3"
  allow_jdbc_theme_based_foi="false"
/>
<!--
<mv_security enforce_sec_role="false" />
-->
</MapperConfig>

```

## 4 Street Gazetteer Manager

### 4.1 Implementation of the Street Gazetteer Manager Software files

To install the software components for Street Gazetteer Manager execute the **setup\_street\_gazetteer\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.



## 4.2 Street Gazetteer Manager Server Upgrade

This chapter provides details of steps involved in upgrading the server components for Street Gazetteer Manager.

### Important:

This product will require upgrading **after** Network Manager and **before** Maintenance Manager, Enquiry Manager and TMA Manager.

### 4.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in Section 2.4 of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.

Also, whilst following the instructions in this section you will be required to know the location of <exor\_base>. You may recall that whilst undertaking the tasks in **Section 4.1** you will have implemented software into the location referred to as <exor\_base>, for example, C:\EXOR.

### 4.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 4.2.3 Install of Street Gazetteer manager

To create the base data and objects for Street Gazetteer Manager modules;

Change directory to <exor\_base>\nsg\install

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start nsg_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

## C:\EXOR\

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 Street Gazetteer Manager objects and data will have been installed.

### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
nsg_install_1_<date&time>.LOG  
nsg_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

## 4.2.4 Upgrade of Street Gazetteer Manager

This section describes the steps necessary to upgrade Street Gazetteer Manager to 4.4.0.0

To upgrade the base data and objects for the Street Gazetteer Manager modules;

- Change directory to **<exor\_base>\nsg\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start nsg4300_nsg4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

## C:\EXOR\

- 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 Street Gazetteer Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
nsg4300_nsg4400_1_<date&time>.LOG
nsg4300_nsg4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 4.2.5 Mandatory Configuration (Post Install and Upgrade)

### exor\_version.txt

Before accessing Street Gazetteer Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

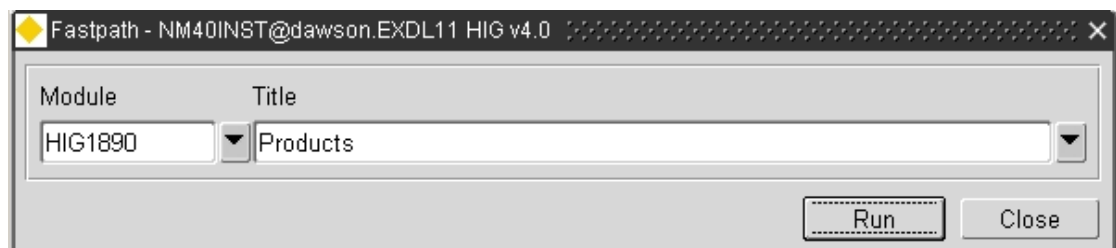
Ensure that the entry for Street Gazetteer Manager is set accordingly;

**NSG=4.4.0.0**

## 4.2.6 Product Licencing (Post Install only)

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



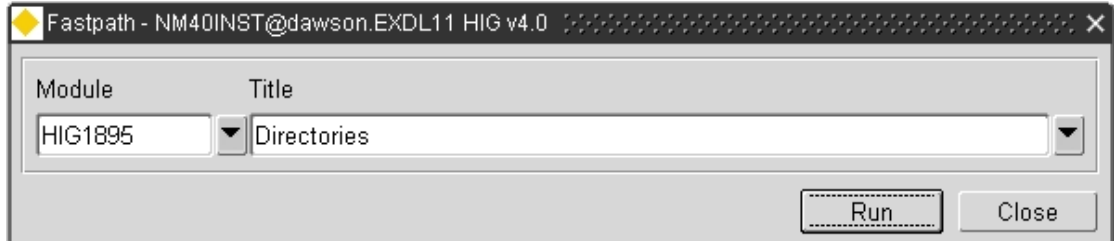
For further details please refer to the "Network Manager General System Admin Guide"

## 4.2.7 Setting Directory Paths (Post Install only)

**This step is only necessary following a first time Installation of Street Gazetteer Manager. The Setting of Directory Paths will have been implemented previously for an Upgrade.**

Street Gazetteer Manager uses the Oracle directories mechanism to denote the locations of files that are read/written.

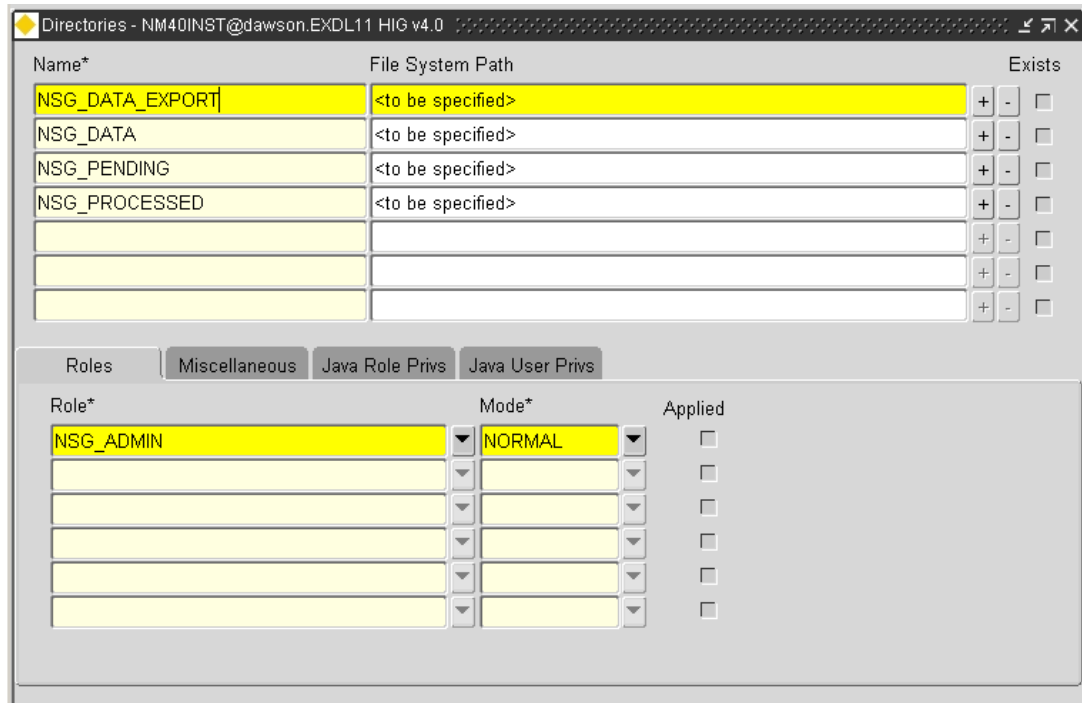
The following Oracle directories are utilised by Street Gazetteer Manager, and they must have their "File System Paths" set using module HIG1895.



Fastpath - NM40INST@dawson.EXDL11 HIG v4.0

Module	Title
HIG1895	Directories

Run Close



Directories - NM40INST@dawson.EXDL11 HIG v4.0

Name*	File System Path	Exists
NSG_DATA_EXPORT	<to be specified>	+ - <input type="checkbox"/>
NSG_DATA	<to be specified>	+ - <input type="checkbox"/>
NSG_PENDING	<to be specified>	+ - <input type="checkbox"/>
NSG_PROCESSED	<to be specified>	+ - <input type="checkbox"/>
		+ - <input type="checkbox"/>
		+ - <input type="checkbox"/>
		+ - <input type="checkbox"/>

Roles Miscellaneous Java Role Privs Java User Privs

Role*	Mode*	Applied
NSG_ADMIN	NORMAL	<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

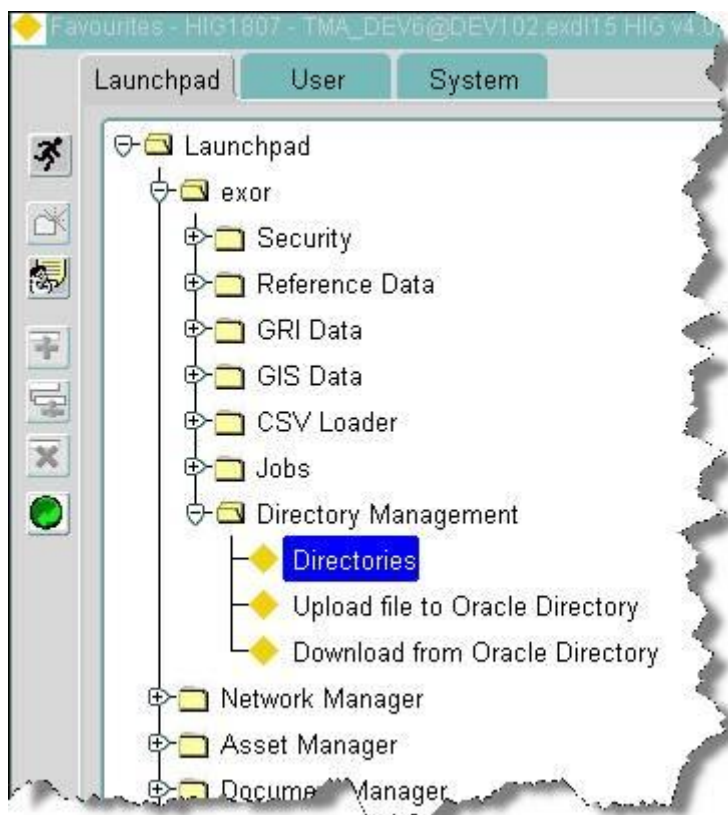
For more information regarding managing directories, please consult the ***"Network Manager General System Admin Guide"***

#### 4.2.8 XSD Files (Post Install only)

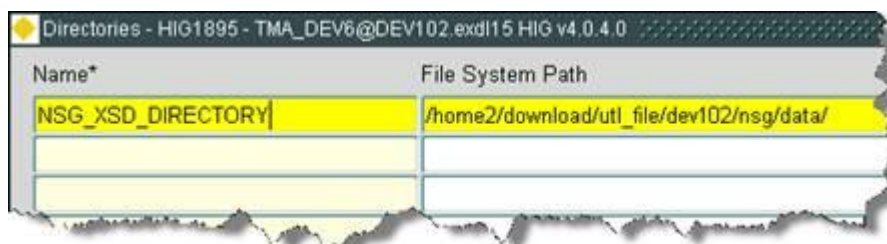
This step is only necessary following a first time Installation of Street Gazetteer Manager. The XSD files will have been registered previously for an Upgrade.

Copy the .xsd files from <exor\_base>\nsg\admin\xsd into a directory on the database server.

Log into the Highways By Exor application and open the 'Directories' module



Ensure that the directory with the name 'NSG\_XSD\_DIRECTORY' has a path set that points to the location that you have just copied .xsd files into e.g.



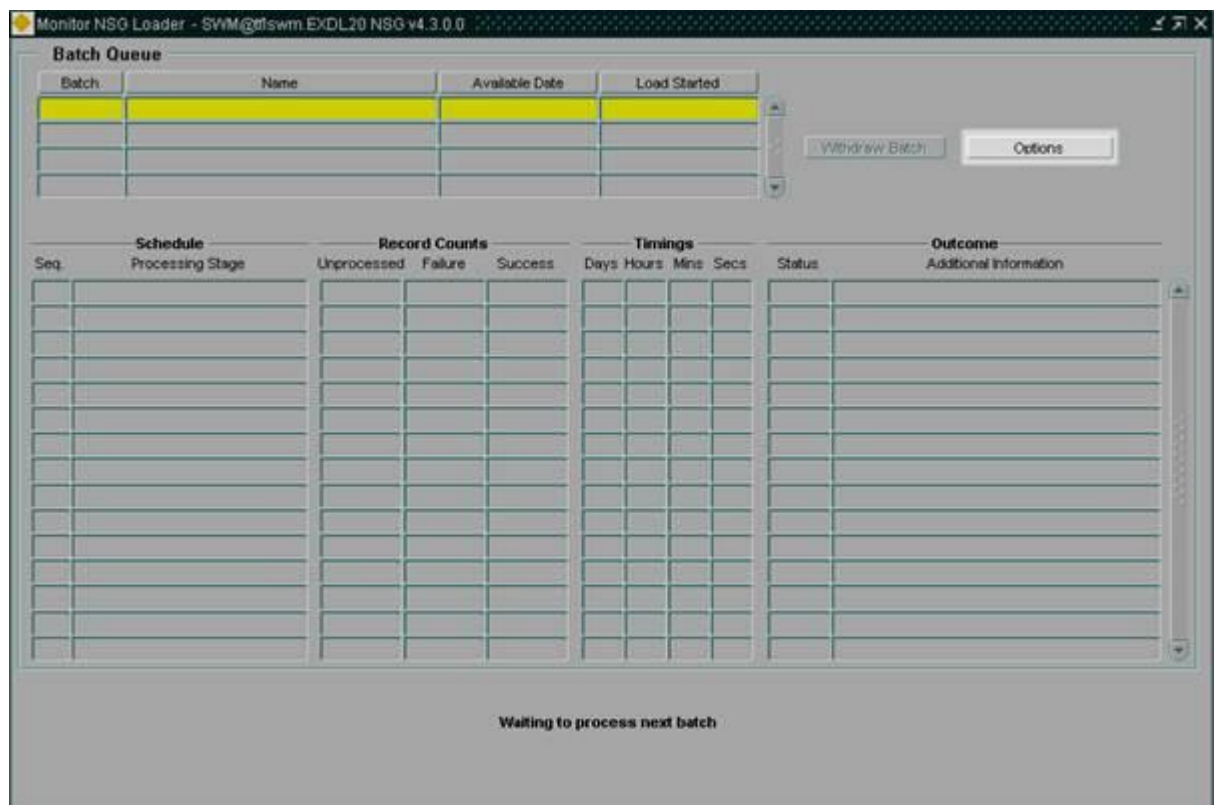
The XSD files must then be registered with Oracle XMLDB by running the script  
 <exor\_base>nsg\admin\xsd\register\_eton\_schemas.sql

#### 4.2.9 Creation of Loader Database Job (Post Install only)

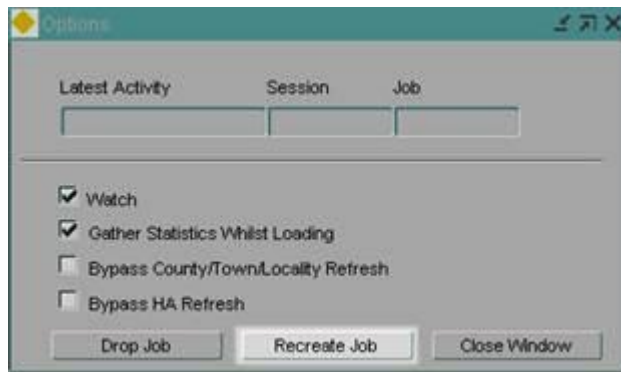
Following first time installation, should it be necessary to load Gazetteer files a database job needs to be created. To do this open the Highways application and run the 'Monitor NSG Loader' module (NSG0040).



Press the 'Options' button.



Press the 'Recreate Job' button.



## 5 Maintenance Manager

### 5.1 Implementation of the Maintenance Manager Software files

To install the software components for Maintenance Manager execute the **setup\_maintenance\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.



## 5.2 Maintenance Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Maintenance Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager and Street Gazetteer Manager.

### 5.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where an upgrade is to be performed please ensure that any data loading being done through the Maintenance Manager loader modules has been completed, any data held in the Maintenance Manager load tables may be removed during this upgrade.

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 5.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 5.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 5.2.3 Install of Maintenance Manager

To create the base data and objects for Maintenance Manager modules;

Change directory to **<exor\_base>\mailinstall**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start mai_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Maintenance Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
mai_install_1_<date&time>.LOG  
mai_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 5.2.4 Upgrade of Maintenance Manager

This section describes the steps necessary to upgrade Maintenance Manager to 4.4.0.0

To upgrade the base data and objects for the Maintenance Manager modules;

- Change directory to **<exor\_base>\mai\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start mai4300_mai4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Maintenance Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
mai4300_mai4400_1_<date&time>.LOG  
mai4300_mai4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 5.2.5 Mandatory Configuration (Post Install and Upgrade)

### exor\_version.txt

Before accessing Maintenance Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Maintenance Manager is set accordingly;

**MAI=4.4.0.0**

## 5.2.6 Conflated Networks (Post Install only)

Customers using a Conflated Network must run an additional script to implement an appropriate view for Cyclic Maintenance.

**NB.** This step is not required if the Maintenance Sections used by Maintenance Manager are Datum Elements.

To implement the view;

- Change directory to <exor\_base>\mail\admin\views
- Login to SQL\*PLUS as the highways owner on the client PC
- Run the following command

```
start inv_items_all_section.sql
```
- You will be prompted to enter the Group Type of the Maintenance Sections used by Maintenance Manager.
- When you have supplied this value press enter and the script will create the appropriate view.

### 5.2.7 Additional Configuration (Post Install and Upgrade)

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

### 5.2.8 Product Licencing (Post Install only)

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

### 5.2.9 Spatial Configuration (Post Install and Upgrade)

Specific information regarding the registration of spatial layers can be found in the “**Locator and Web Mapping**” document.

## 6 Enquiry Manager

### 6.1 Implementation of the Enquiry Manager Software files

To install the software components for Enquiry Manager execute the **setup\_enquiry\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 6.2 Enquiry Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Enquiry Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager, Street Gazetteer Manager and Maintenance Manager.

### 6.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 6.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 6.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 6.2.3 Install of Enquiry Manager

To create the base data and objects for Enquiry Manager modules;

Change directory to **<exor\_base>\pem\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start pem_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Enquiry Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
pem_install_1_<date&time>.LOG  
pem_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 6.2.4 Upgrade of Enquiry Manager

This section describes the steps necessary to upgrade Enquiry Manager to 4.4.0.0

To upgrade the base data and objects for the Enquiry Manager modules;

- Change directory to **<exor\_base>\pem\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start pem4300_pem4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Enquiry Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
pem4300_pem4400_1_<date&time>.LOG  
pem4300_pem4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 6.2.5 Mandatory Configuration (Post Install and Upgrade)

### exor\_version.txt

Before accessing Enquiry Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Enquiry Manager is set accordingly;

**PEM=4.4.0.0**

## 6.2.6 Additional Configuration (Post Install and Upgrade)

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

### Important:

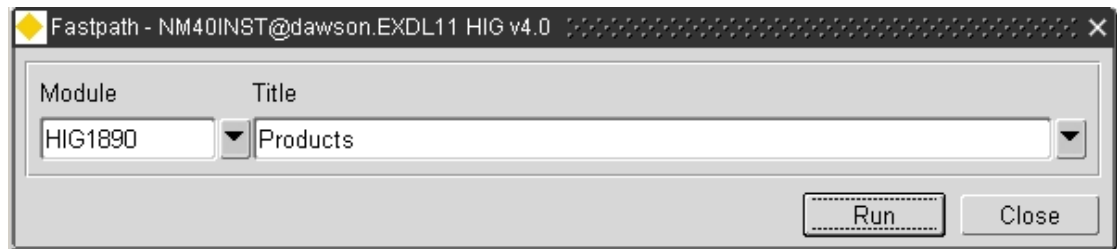
It is highly recommended that you do this before attempting to use the application.

## 6.2.7 Product Licencing (Post Install only)

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.





For further details please refer to the “**Network Manager General System Admin Guide**”

### 6.2.8 Spatial Configuration (Post Install and Upgrade)

Specific information regarding the registration of spatial layers can be found in the “**Locator and Web Mapping**” document.

## 7 TMA Manager

### 7.1 Implementation of the TMA Manager Software files

To install the software components for TMA Manager execute the **setup\_tma\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 7.2 TMA Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for TMA Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager and Street Gazetteer Manager.

### 7.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

**Extremely Important (When Upgrading):**

Before upgrading TMA Manager shutdown the TMA Web Server and Restart it, after successfully upgrading TMA Manager.

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 7.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 7.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

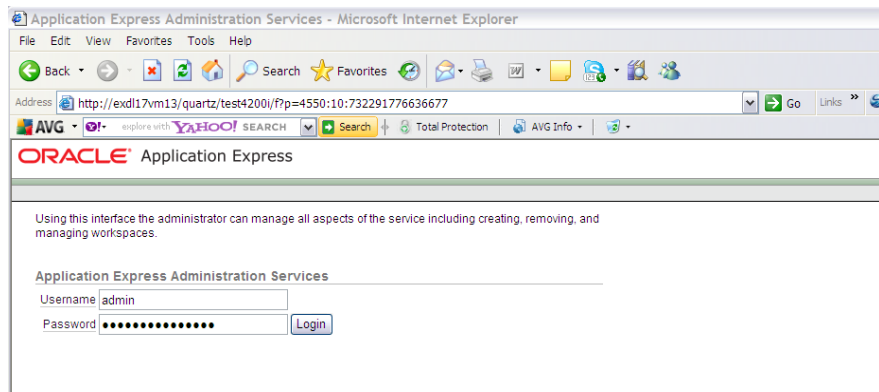
The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

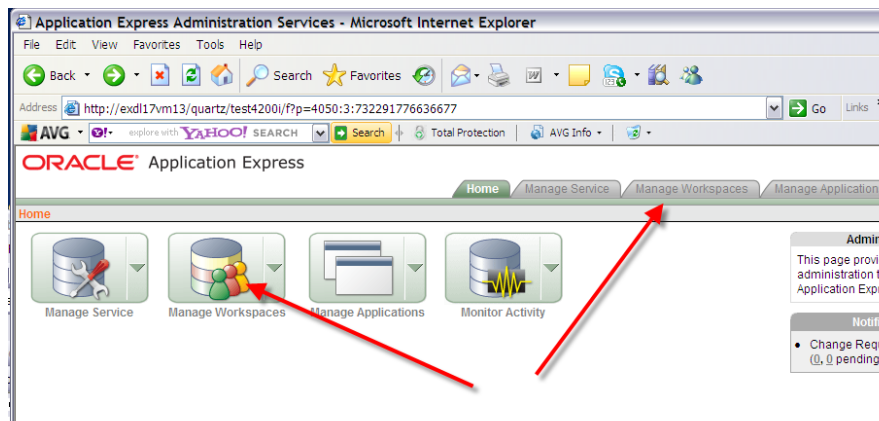
### 7.2.3 Install of TMA Manager

Import the tma\_apex\_rpts Workspace (this step is not required for upgrade)

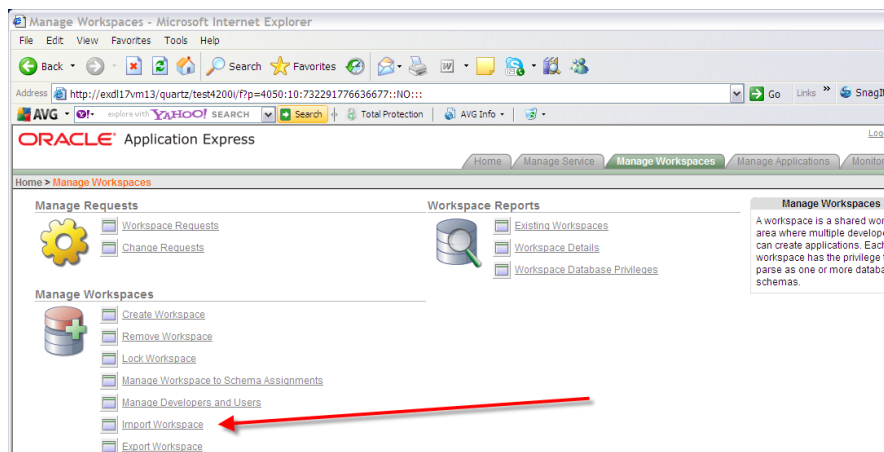
Log onto the Apex administration account:



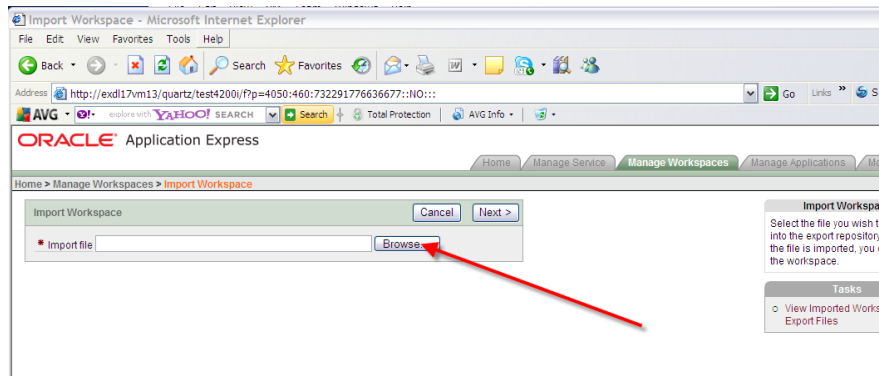
Choose 'Manage Workspaces' using the button or tab:



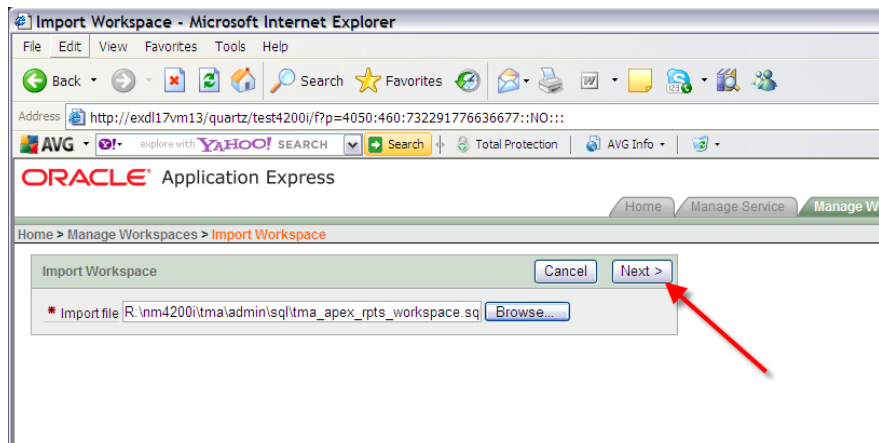
Choose the 'Import Workspace' hyperlink:



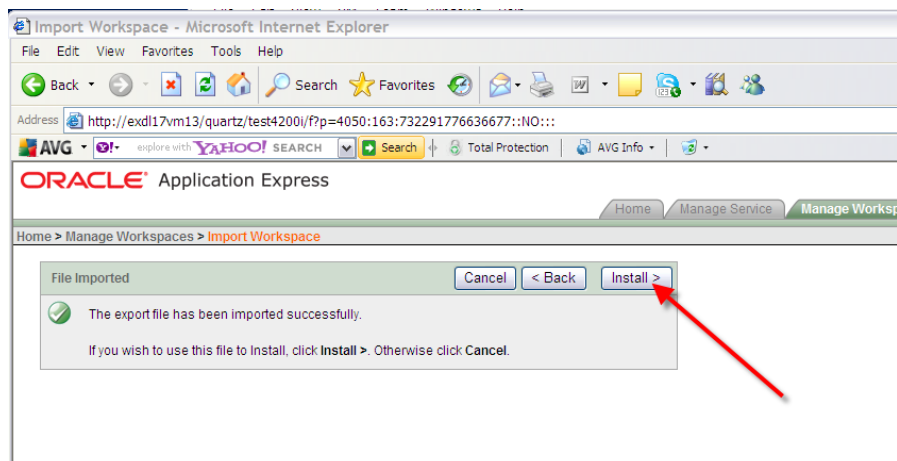
Browse for the workspace to be imported which will exist in the <exor\_base>/tma/admin/sql/ directory as extracted from the install shield in section 7.1. The workspace is called **tma\_apex\_rpts\_workspace.sql**:



Once selected click the 'Next' button:

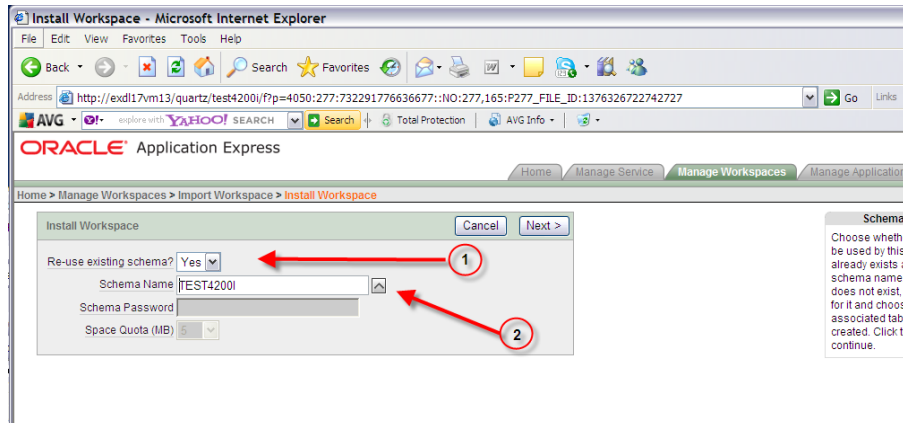


When imported successfully, as highlighted in the screenshot below, click the 'Install' button:

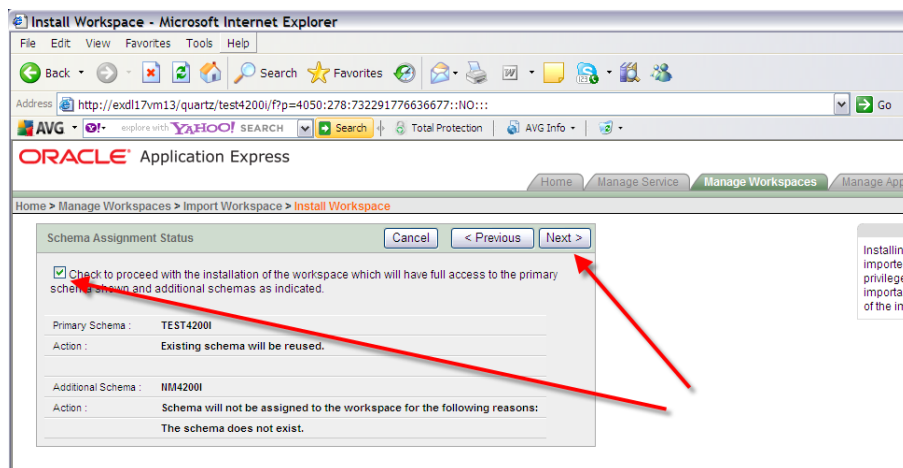


Choose to 'Re-use existing schema?', as highlighted by option 1 in the screenshot and then enter or select the highways schema name from the LoV as highlighted by option 2 in the screenshot.

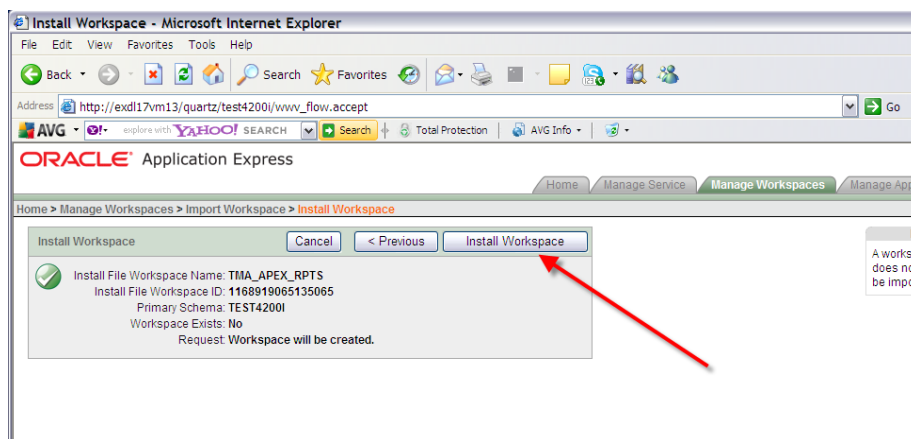
Click the 'Next' button when the above is completed:



Check the 'Check to proceed ...' check box and click the 'Next' button to proceed:

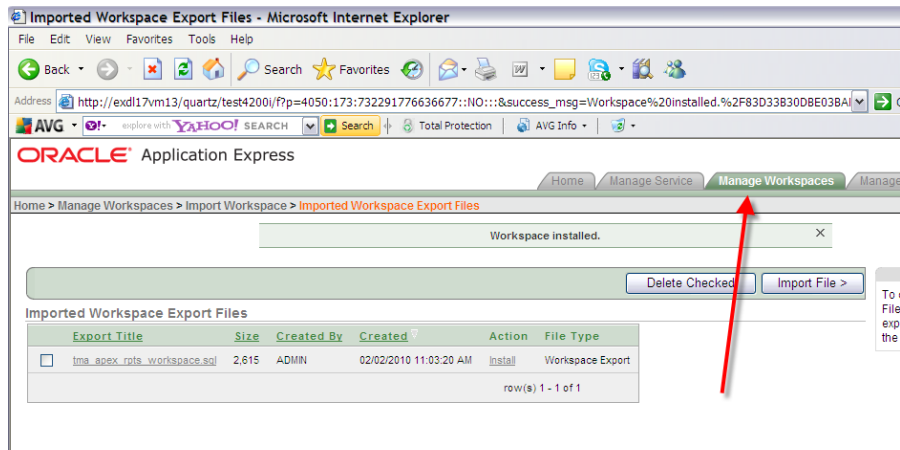


Click the 'Install Workspace' button:

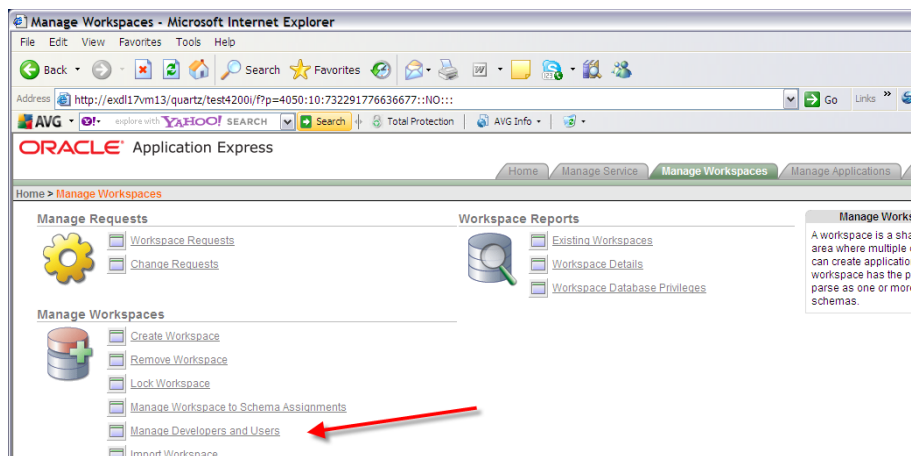


The tma\_apex\_rpts workspace is now installed.

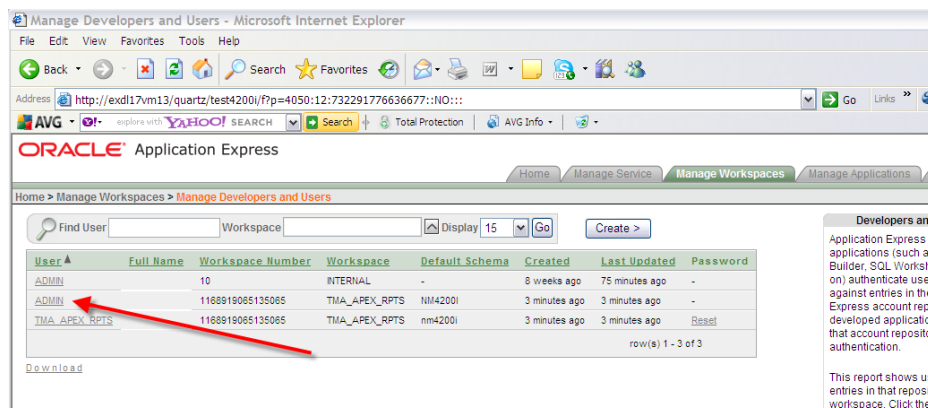
Select the 'Manage Workspaces' tab to amend some of the user settings:



Select the 'Manage Developers and Users' hyperlink:



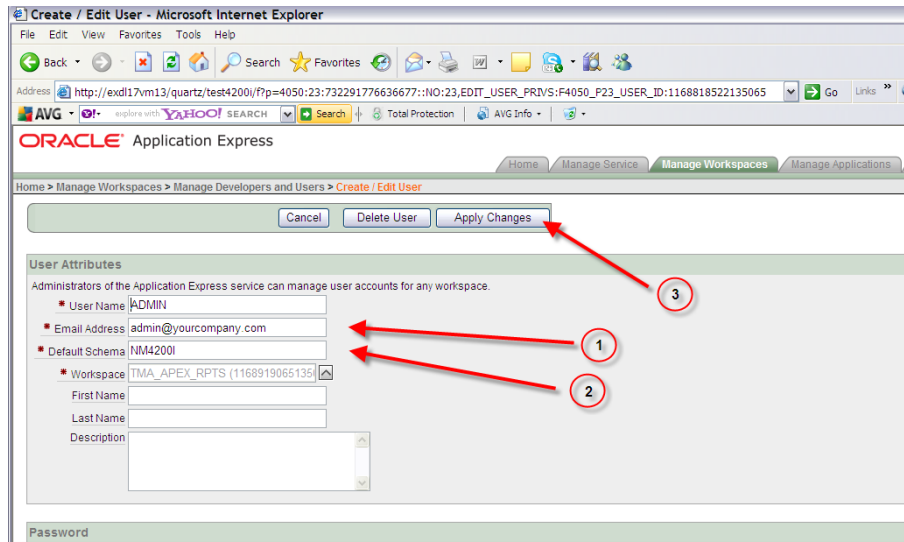
Select the 'Admin' (user account) hyperlink:



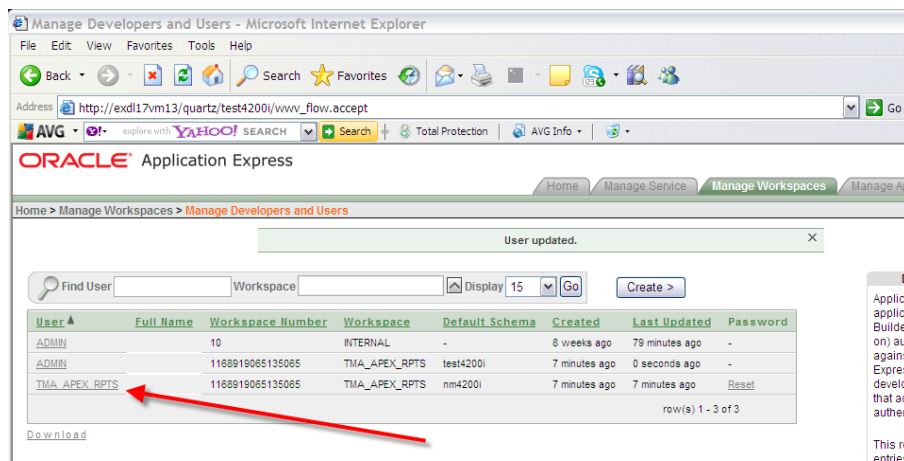
Set the 'Email Address' to the email address of the Apex administrator, as highlighted in option 1 of the screenshot.

Enter the 'Default Schema' as the highways schema, as highlighted in option 2 of the screenshot.

When the above is completed press the 'Apply Changes' button:



Select the 'TMA\_APEX\_RPTS' (user account) hyperlink:



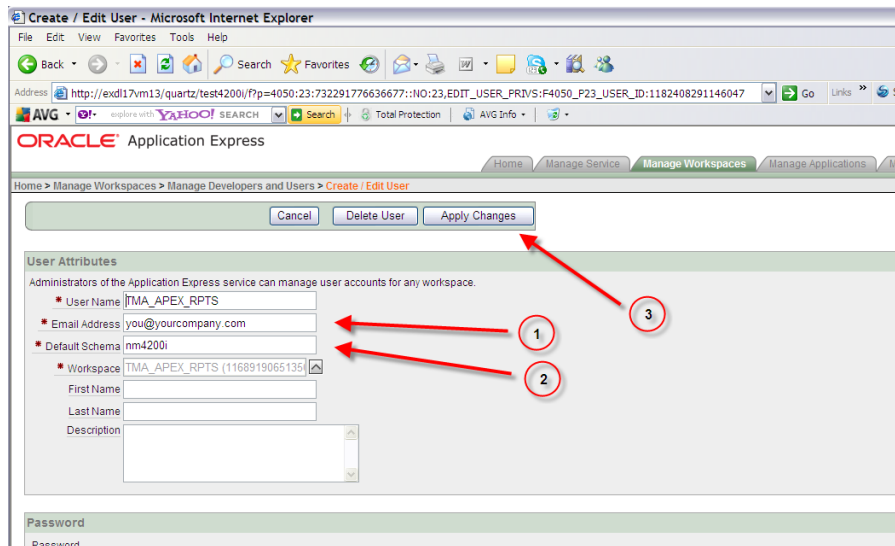
User	Full Name	Workspace Number	Workspace	Default Schema	Created	Last Updated	Password
ADMIN		10	INTERNAL	-	8 weeks ago	79 minutes ago	-
ADMIN		1168919065135065	TMA_APEX_RPTS	test4200i	7 minutes ago	0 seconds ago	-
TMA_APEX_RPTS		1168919065135065	TMA_APEX_RPTS	nm4200i	7 minutes ago	7 minutes ago	Reset



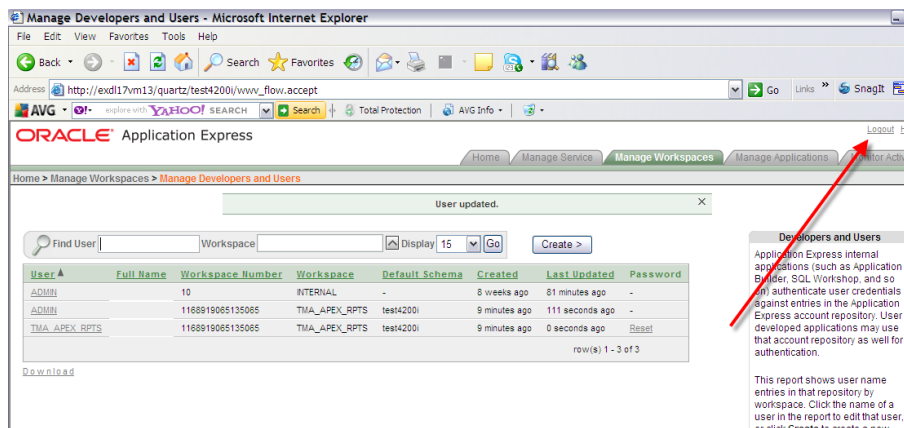
Set the 'Email Address' to the email address of the Apex administrator, as highlighted in option 1 of the screenshot.

Enter the 'Default Schema' as the highways schema, as highlighted in option 2 of the screenshot.

When the above is completed press the 'Apply Changes' button:



Logout of the Apex administrator's account and proceed with the Install of TMA Manager:



## Installation of TMA Manager

To create the base data and objects for TMA Manager modules;

Change directory to **<exor\_base>\tma\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start tma_inst.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

## C:\EXOR\

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 TMA Manager objects and data will have been installed.

### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
tma_install_1_<date&time>.LOG  
tma_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

## 7.2.4 Upgrade of TMA Manager

This section describes the steps necessary to upgrade TMA Manager to 4.4.0.0

To upgrade the base data and objects for the TMA Manager modules;

- Change directory to **<exor\_base>\tma\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start tma4300_tma4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

## C:\EXOR\

- 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 TMA Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
tma4300_tma4400_1_<date&time>.LOG
tma4300_tma4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 7.2.5 TMA Manager 4.4.0.0 Fix 1 (Post Install and Upgrade)

#### Important:

After installing or upgrading TMA Manager to 4.4.0.0 the patch '**TMA Manager 4.4.0.0 Fix 1**' should be applied before using the application.

### 7.2.6 Mandatory Configuration (Post Install and Upgrade)

#### exor\_version.txt

Before accessing TMA Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

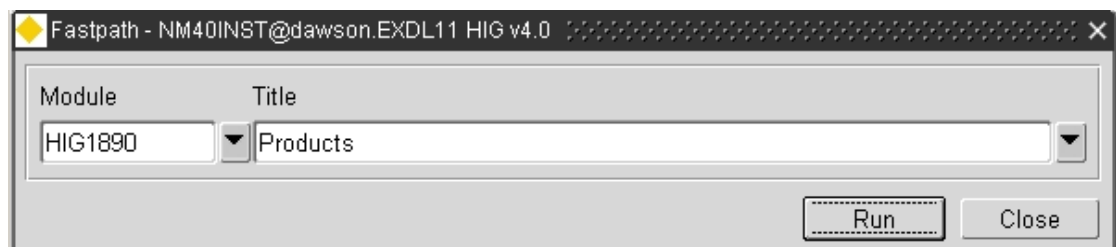
Ensure that the entry for TMA Manager is set accordingly;

**TMA=4.4.0.0**

### 7.2.7 Product Licencing (Post Install only)

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the "**Network Manager General System Admin Guide**"

## 7.2.8 Web Service Install/Upgrade (Post Install and Upgrade)

After a successful install/upgrade of TMA Manager to version 4.4.0.0 the TMA Web Service will require installation/upgrade.

Specific information regarding the installation or upgrade of the TMA Web Service can be found in the ***"4400\_Installation\_and\_Upgrade\_Guide\_for\_the\_TMA\_Web\_Service.pdf"*** contained in the **TMAWebService\_4400.zip** located in the <exor\_base>\EToNWebService\doc\ directory.

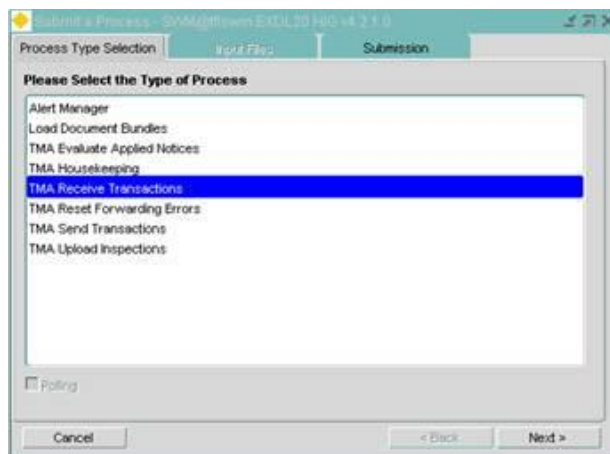
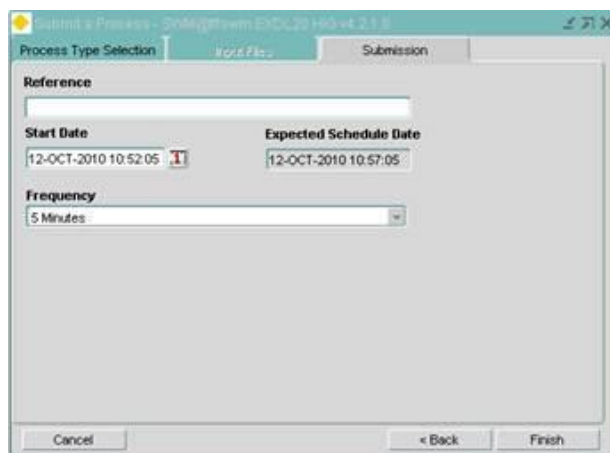
## 7.2.9 TMA Process Types (Install only)

For customers that have upgraded, no new TMA process types have been introduced at this release so the following instructions are for new installations of TMA Manager only.

### Following the Install of TMA v4.4.0.0

An Administrator must submit a Process of each relevant type to the desired frequency.

For example:

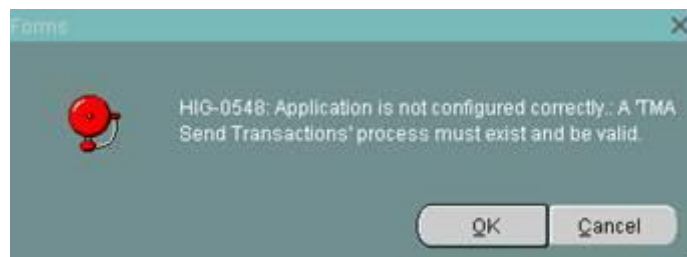



When the TMA1000-Works form (and other key forms are opened) a check has always been carried out to see if TMA is correctly configured.

The check will look for the existence of a process of each given type.

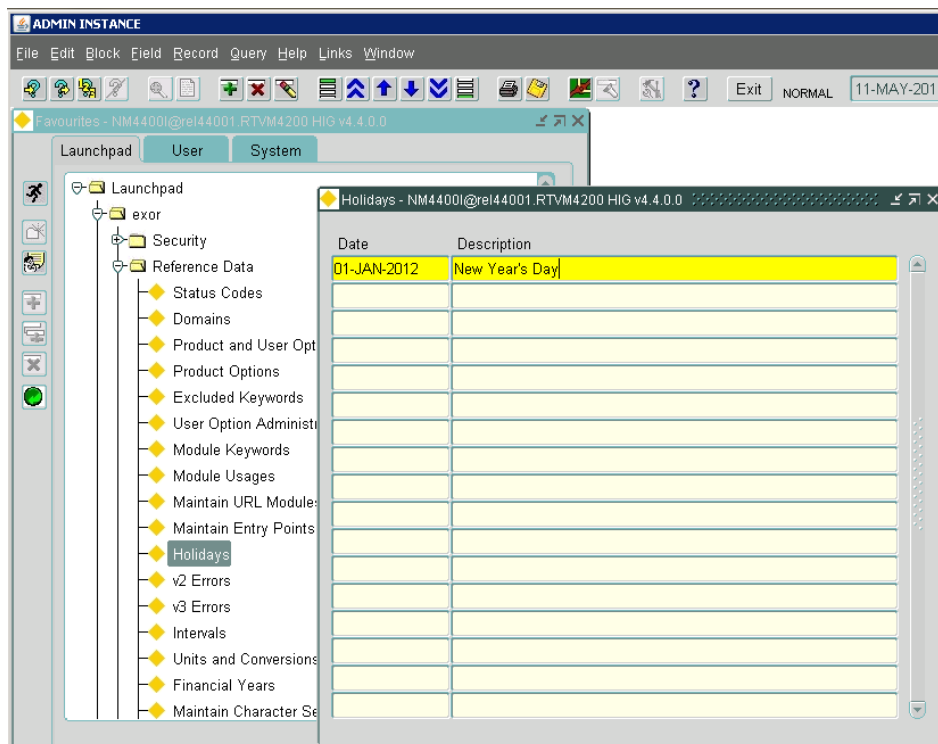
Process Type	Checking Rule
TMA Receive Transactions	Mandatory - always checked for
TMA Send Transactions	Mandatory - always checked for
TMA Housekeeping	Mandatory - always checked for
TMA Reset Forwarding Errors	Only checked for if product option 'FWD_NOTICE' = 'Y'
TMA Upload Inspections	Only checked for if product option 'INSPAUTIMP' = 'Y'
TMA Evaluate Applied Notices	Mandatory - always checked for

If the process is expected to exist and it's either missing or is neither 'Running' nor 'Scheduled', an error will be flagged.



## 7.2.10 System Holidays (Post Install and Upgrade)

After install/upgrade to 4.4.0.0 has been completed please ensure that the holidays of the system have been set before using TMA Manager.



## 8 TMA API

### 8.1 Implementation of the TMA API Software files

To install the software components for TMA Manager execute the **setup\_tma\_api\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 8.2 TMA API Server Install/Upgrade

This chapter provides details of steps involved in upgrading the server components for TMA Manager.

**Important:**

This product will require upgrading **after** Network Manager, Street Gazetteer Manager and TMA Manager.

### 8.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

**Extremely Important (When Upgrading):**

Before upgrading TMA API shutdown the TMA External Notice API Web Server and Restart it, after successfully upgrading TMA API.

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 8.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 8.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

## 8.3 TMA External Notice API Implementation

### 8.3.1 Deployment of API Software Files

This section provides details of steps involved in deploying the files that the api is composed of to the relevant location on the file system.

**Important:**

All Exor applications that you install must go into the same destination – what is often referred to as `<exor_base>`.

To deploy the software components for the api, execute the **setup\_tma\_api\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary software files will have been deployed. These are held in the API directory. **Copy the API folder and contents to the tmaladmin folder.**

### 8.3.2 API Server Component Install/Upgrade

This section provides details of steps involved in installing the server components for the api.

Note, that there is no upgrade option; the software can be reinstalled as required.

**Important:**

The api will require installing after the TMA application.

Also please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of `<exor_base>`.

To create the base data and objects for api;

Change directory to `<exor_base>\tma\admin\api`

Login to SQL\*PLUS as the highways owner on the client PC and run the following command

```
start tma_api_inst.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

```
C:\EXOR\
```



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, the api will have been installed.

#### Checking Log File(s)

The following log file is produced in the working directory. At the end of the installation, the file can be viewed to check for any errors that could have occurred during installation.

```
tma_api_install_<date&time>.LOG
```

#### Note:

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

## 9 Streetworks Manager

### 9.1 Implementation of the Streetworks Manager Software files

To install the software components for Streetworks Manager execute the **setup\_streetworks\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 9.2 Streetworks Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Streetworks Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager and Street Gazetteer Manager.

### 9.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 9.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 9.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 9.2.3 Install of Streetworks Manager

To create the base data and objects for Streetworks Manager modules;

Change directory to **<exor\_base>\swr\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start swr_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Streetworks Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
swr_install_1_<date&time>.LOG  
swr_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 9.2.4 Upgrade of Streetworks Manager

This section describes the steps necessary to upgrade Streetworks Manager to 4.4.0.0

To upgrade the base data and objects for the Streetworks Manager modules;

- Change directory to **<exor\_base>\swr\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start swr4300_swr4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Streetworks Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
swr4300_swr4400_1_<date&time>.LOG
swr4300_swr4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 9.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing Streetworks Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Streetworks Manager is set accordingly;

**SWR=4.4.0.0**

## 9.2.6 Product Licencing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

### 9.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

### 9.2.8 Spatial Configuration

Specific information regarding the registration of spatial layers can be found in the ***“Locator and Web Mapping”*** document.

## 10 Asset Valuation Manager

### 10.1 Implementation of the Asset Valuation Manager Software files

To install the software components for Asset Valuation Manager execute the **setup\_asset\_valuation\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 10.2 Asset Valuation Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Asset Valuation Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 10.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 10.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 10.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 10.2.3 Install of Asset Valuation Manager

To create the base data and objects for Asset Valuation Manager modules;

Change directory to **<exor\_base>\avm\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start vm_inst
```



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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Asset Valuation Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
vm_install_1_<date&time>.LOG  
vm_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 10.2.4 Upgrade of Asset Valuation Manager

This section describes the steps necessary to upgrade Asset Valuation Manager to 4.4.0.0

To upgrade the base data and objects for the Asset Valuation Manager modules;

- Change directory to **<exor\_base>\avm\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**.  
Run the following command

```
start avm4300_avm4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Asset Valuation Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
avm4300_avm4400_1_<date&time>.LOG
avm4300_avm4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 10.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing Asset Valuation Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

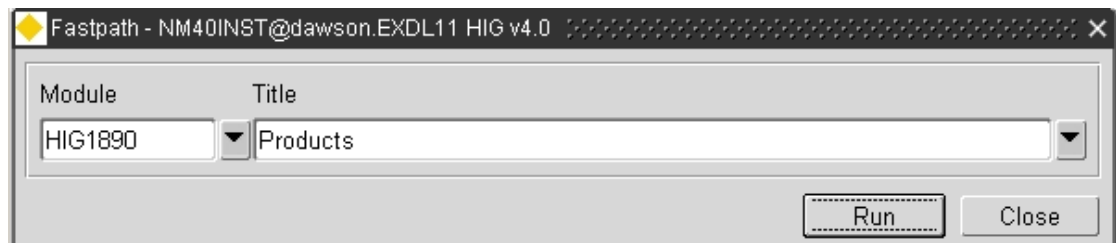
Ensure that the entry for Asset Valuation Manager is set accordingly;

**AVM=4.4.0.0**

## 10.2.6 Product Licencing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the "**Network Manager General System Admin Guide**"

### 10.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 11 Accidents Manager

### 11.1 Implementation of the Accidents Manager Software files

To install the software components for Accidents Manager execute the **setup\_accidents\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 11.2 Accidents Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Accidents Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 11.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 11.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 11.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 11.2.3 Install of Accidents Manager

To create the base data and objects for Accidents Manager modules;

Change directory to **<exor\_base>\accinstall**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start acc_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Accidents Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
acc_install_1_<date&time>.LOG  
acc_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 11.2.4 Upgrade of Accidents Manager

This section describes the steps necessary to upgrade Accidents Manager to 4.4.0.0

To upgrade the base data and objects for the Accidents Manager modules;

- Change directory to **<exor\_base>\acc\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**.  
Run the following command

```
start acc4300_acc4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Accidents Manager objects and data will have been upgraded.

#### Checking Log File(s)

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.

```
acc4300_acc4400_1_<date&time>.LOG
acc4300_acc4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 11.2.5 Mandatory Configuration

#### exor\_version.txt

Before accessing Accidents Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Accidents Manager is set accordingly;

**ACC=4.4.0.0**

### 11.2.6 Product Licensing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

### 11.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.



## 12 Public Rights Of Way Manager

### 12.1 Implementation of the Public Rights Of Way Manager Software files

To install the software components for Public Rights Of Way Manager execute the **setup\_public\_rights\_of\_way\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 12.2 Public Rights Of Way Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Public Rights Of Way Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

This product also has dependencies on Public Enquiry Manager and Maintenance Manager so they must be installed/upgraded before you begin this install/upgrade.

### 12.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of `<exor_base>`. You may recall that whilst undertaking the tasks in **Section 12.1** you will have implemented software into the location referred to as `<exor_base>`, for example, C:\EXOR.

### 12.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 12.2.3 Install of Public Rights Of Way Manager

To create the base data and objects for Public Rights Of Way Manager modules;

Change directory to `<exor_base>\prow\install`

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start prow_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Public Rights Of Way Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
prow_install_1_<date&time>.LOG  
prow_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 12.2.4 Upgrade of Public Rights Of Way Manager

This section describes the steps necessary to upgrade Public Rights Of Way Manager to 4.4.0.0

To upgrade the base data and objects for the Public Rights Of Way Manager modules;

- Change directory to **<exor\_base>\prow\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start prow4300_prow4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Public Rights Of Way Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
prow4300_prow4400_1_<date&time>.LOG
prow4300_prow4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 12.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing Public Rights Of Way Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Public Rights Of Way Manager is set accordingly;

**PROW=4.4.0.0**

## 12.2.6 Product Licencing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

### 12.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 13 Street Lighting Manager

### 13.1 Implementation of the Street Lighting Manager Software files

To install the software components for Street Lighting Manager execute the **setup\_street\_lighting\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 13.2 Street Lighting Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Street Lighting Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 13.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 13.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 13.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 13.2.3 Install of Street Lighting Manager

To create the base data and objects for Street Lighting Manager modules;

Change directory to **<exor\_base>\slm\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start slm_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Street Lighting Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
slm_install_1_<date&time>.LOG  
slm_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 13.2.4 Upgrade of Street Lighting Manager

This section describes the steps necessary to upgrade Street Lighting Manager to 4.4.0.0

To upgrade the base data and objects for the Street Lighting Manager modules;

- Change directory to **<exor\_base>\slm\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**.  
Run the following command

```
start slm4300_slm4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Street Lighting Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
slm4300_slm4400_1_<date&time>.LOG
slm4300_slm4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 13.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing Street Lighting Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

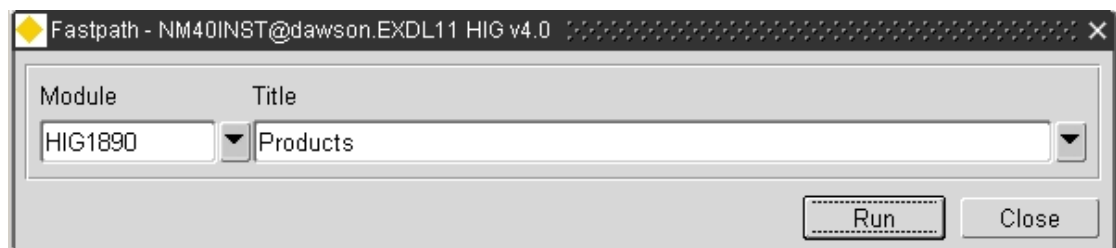
Ensure that the entry for Street Lighting Manager is set accordingly;

**CLM=4.4.0.0**

## 13.2.6 Product Licencing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

### 13.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 14 Schemes Manager

### 14.1 Implementation of the Schemes Manager Software files

To install the software components for Schemes Manager execute the **setup\_schemes\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 14.2 Schemes Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Schemes Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 14.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 14.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 14.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 14.2.3 Install of Schemes Manager

To create the base data and objects for Schemes Manager modules;

Change directory to **<exor\_base>\stplinstall**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start stp_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Schemes Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
stp_install_1_<date&time>.LOG  
stp_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 14.2.4 Upgrade of Schemes Manager

This section describes the steps necessary to upgrade Schemes Manager to 4.4.0.0

To upgrade the base data and objects for the Schemes Manager modules;

- Change directory to **<exor\_base>\stp\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start stp4300_stp4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Schemes Manager objects and data will have been upgraded.

#### Checking Log File(s)

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.

```
stp4300_stp4400_1_<date&time>.LOG
stp4300_stp4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 14.2.5 Mandatory Configuration

#### exor\_version.txt

Before accessing Schemes Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Schemes Manager is set accordingly;

**STP=4.4.0.0**

### 14.2.6 Product Licensing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

#### 14.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 15 Structures Manager

### 15.1 Implementation of the Structures Manager Software files

To install the software components for Structures Manager execute the **setup\_structures\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.



## 15.2 Structures Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Structures Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 15.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 15.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 15.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 15.2.3 Install of Structures Manager

To create the base data and objects for Structures Manager modules;

Change directory to **<exor\_base>\str\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start str_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Structures Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
str_install_1_<date&time>.LOG  
str_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 15.2.4 Upgrade of Structures Manager

This section describes the steps necessary to upgrade Structures Manager to 4.4.0.0

To upgrade the base data and objects for the Structures Manager modules;

- Change directory to **<exor\_base>\str\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start str4300_str4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Structures Manager objects and data will have been upgraded.

#### Checking Log File(s)

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.

```
str4300_str4400_1_<date&time>.LOG
str4300_str4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 15.2.5 Mandatory Configuration

#### exor\_version.txt

Before accessing Structures Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

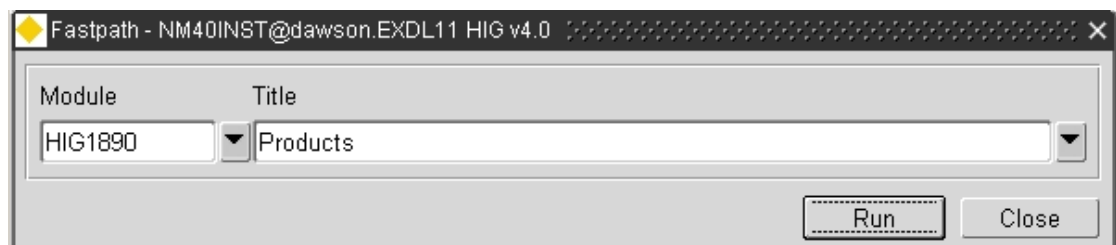
Ensure that the entry for Structures Manager is set accordingly;

**STR=4.4.0.0**

### 15.2.6 Product Licensing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “Network Manager General System Admin Guide”

### 15.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 16 Traffic Interface Manager

### 16.1 Implementation of the Traffic Interface Manager Software files

To install the software components for Traffic Interface Manager execute the **setup\_traffic\_interface\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 16.2 Traffic Interface Manager Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Traffic Interface Manager.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 16.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 16.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 16.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 16.2.3 Install of Traffic Interface Manager

To create the base data and objects for Traffic Interface Manager modules;

Change directory to **<exor\_base>\tm3\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start tm_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Traffic Interface Manager objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
tm_install_1_<date&time>.LOG  
tm_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 16.2.4 Upgrade of Traffic Interface Manager

This section describes the steps necessary to upgrade Traffic Interface Manager to 4.4.0.0

To upgrade the base data and objects for the Traffic Interface Manager modules;

- Change directory to **<exor\_base>\tm3\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start tm4300_tm4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Traffic Interface Manager objects and data will have been upgraded.

### Checking Log File(s)

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.

```
tm4300_tm4400_1_<date&time>.LOG
tm4300_tm4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 16.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing Traffic Interface Manager you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Traffic Interface Manager is set accordingly;

**TM=4.4.0.0**

## 16.2.6 Product Licencing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”



### 16.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 17 Highways Agency Interface

### 17.1 Implementation of the Highways Agency Interface Software files

To install the software components for Highways Agency Interface execute the **setup\_highways\_agency\_interface\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 17.2 Highways Agency Interface Server Install/Upgrade

This chapter provides details of steps involved in installing/Upgrading the server components for Highways Agency Interface.

**Important:**

This product will require installing/upgrading **after** Network Manager and Maintenance Manager.

### 17.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 17.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 17.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the install scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation.

### 17.2.3 Install of Highways Agency Interface

To create the base data and objects for the Highways Agency Interface modules;

- Change directory to **<exor\_base>\hai\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command

```
start hai_inst.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Highways Agency Interface objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the install, they can be viewed to check for any errors that could have occurred during the install process.

```
hai_install_1_<date&time>.LOG  
hai_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been installed.

### 17.2.4 Upgrade of Highways Agency Interface

This section describes the steps necessary to upgrade the Highways Agency Interface to 4.4.0.0

To upgrade the base data and objects for Highways Agency Interface modules;

- Change directory to **<exor\_base>\hai\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start hai4300_hai4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Highways Agency Interface objects and data will have been upgraded.

### Checking Log File(s)

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.

```
hai4300_hai4400_1_<date&time>.LOG
hai4300_hai4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

## 17.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing Highways Agency Interface you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for Highways Agency Interface is set accordingly;

**HAI=4.4.0.0**

## 17.2.6 Product Licensing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the "**Network Manager General System Admin Guide**"

### 17.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 18 MapCapture Interface

### 18.1 Implementation of the MapCapture Interface Software files

To install the software components for MapCapture Interface execute the **setup\_mapcapture\_interface\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 18.2 MapCapture Interface Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for MapCapture Interface.

**Important:**

This product will require installing/upgrading **after** Network Manager and Maintenance Manager.

### 18.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 18.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 18.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation and completion of post installation tasks.

### 18.2.3 Install of MapCapture Interface

To create the base data and objects for the MapCapture Interface modules;

- Change directory to **<exor\_base>\mcp\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command



```
start mcp_inst.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 MapCapture Interface objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the install, they can be viewed to check for any errors that could have occurred during the install process.

```
mcp_install_1_<date&time>.LOG  
mcp_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been installed.

### 18.2.4 Upgrade of MapCapture Interface

This section describes the steps necessary to upgrade MapCapture Interface to 4.4.0.0

To upgrade the base data and objects for the MapCapture Interface modules;

- Change directory to **<exor\_base>\mcp\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start mcp4300_mcp4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 MapCapture Interface objects and data will have been upgraded.

#### Checking Log File(s)

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.

```
mcp4300_mcp4400_1_<date&time>.LOG  
mcp4300_mcp4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been installed. Also, objects may be invalid for certain products due to post configuration tasks not being completed. In this case reassess invalid objects when post installation task have been completed.

### 18.2.5 MapCapture Interface 4.4.0.0 Fix 1 (Post Install and Upgrade)

#### Important:

After installing or upgrading MapCapture Interface to 4.4.0.0 the patch '**MapCapture Interface 4.4.0.0 Fix 1**' should be applied before using the application.

### 18.2.6 Mandatory Configuration

#### exor\_version.txt

Before accessing MapCapture Interface you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the <exor\_base>\bin directory.

Ensure that the entry for MapCapture Interface is set accordingly;

**MCP=4.4.0.0**

### 18.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

#### Important:

It is highly recommended that you do this before attempting to use the application.

## 19 UKPMS

### 19.1 Implementation of the UKPMS Software files

To install the software components for UKPMS execute the **setup\_ukpms\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 19.2 UKPMS Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for UKPMS.

**Important:**

This product will require installing/upgrading **after** Network Manager.

### 19.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 19.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 19.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the upgrade scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

The upgrade procedures will also attempt to install database roles in the highways owner account that are necessary for the system to operate correctly. You may find that errors are produced when running the upgrade scripts to the effect that the role names being created are already used by existing roles or users. These errors can be ignored as they simply mean that the roles being created already exist.

Also during install/upgrade Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install/upgrade. However it will be of concern if compilation errors still occur following the re-compilation and completion of post installation tasks.

### 19.2.3 Install of UKPMS

To create the base data and objects for UKPMS modules;

Change directory to **<exor\_base>\ukpl\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start ukp_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 UKPMS objects and data will have been installed.

### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
ukp_install_1_<date&time>.LOG  
ukp_install_2_<date&time>.LOG
```

**Note:** following the install it is usual for packages NET1119 and/or UKPMS\_ROAD\_CONDITION to be invalid. Once the **UR Asset Type** has been assigned and **UKPMS inventory views** are regenerated (as part of the post install tasks), the packages should be valid. The post install tasks are detailed in the accompanying Release Notes for UKP 4400.

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

Also, objects may be invalid for certain products due to post configuration tasks not being completed. In this case reassess invalid objects when post installation task have been completed.

## 19.2.4 Upgrade of UKPMS

This section describes the steps necessary to upgrade UKPMS to 4.4.0.0

To upgrade the base data and objects for the UKPMS modules;

- Change directory to **<exor\_base>\ukp\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start ukp4310_ukp4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

### C:\EXOR\

- 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 UKPMS objects and data will have been upgraded.

### Checking Log File(s)

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.

```
ukp4310_ukp4400_1_<date&time>.LOG  
ukp4310_ukp4400_2_<date&time>.LOG
```

**Note:** following the upgrade it is usual for packages `NET1119` and/or `UKPMS_ROAD_CONDITION` to be invalid. Once the **UR Asset Type** has been assigned and **UKPMS inventory views** are regenerated (as part of the post upgrade tasks), the packages should be valid. The post upgrade tasks are detailed in the accompanying Release Notes for UKP 4400.

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been installed. Also, objects may be invalid for certain products due to post configuration tasks not being completed. In this case reassess invalid objects when post installation task have been completed.

## 19.2.5 Mandatory Configuration

### exor\_version.txt

Before accessing UKPMS you must check the file `exor_version.txt`.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the `<exor_base>\bin` directory.

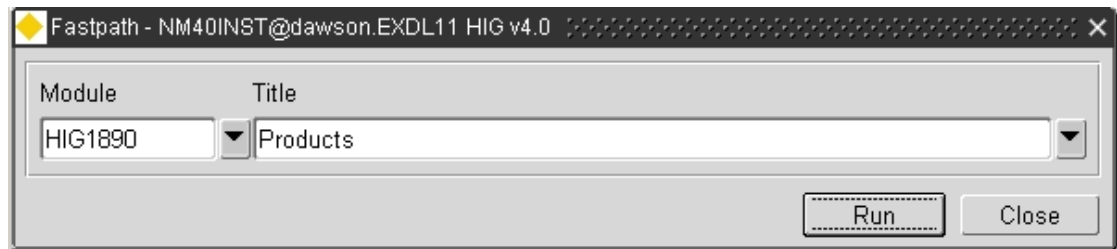
Ensure that the entry for UKPMS is set accordingly;

**UKP=4.4.0.0**

## 19.2.6 Product Licencing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

### 19.2.7 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install/upgrade.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

## 20 Information Manager Foundation Layer

### 20.1 Implementation of the Information Manager Foundation Layer Software files

To install the software components for Information Manager Foundation Layer execute the **setup\_information\_manager\_foundation\_layer\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.



## 20.2 Information Manager Foundation Layer Server Install/Upgrade

This chapter provides details of steps involved in installing/upgrading the server components for Information Manager Foundation Layer.

### Important:

This product will require installing/upgrading **after** 4.4.0.0 versions of products integrated with Information Manager Foundation Layer i.e. Network Manager and/or Maintenance Manager, Enquiry Manager, TMA Manager, Schemes Manager.

### 20.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 20.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 20.2.2 Install or Upgrade of Information Manager Foundation Layer

**The IMF installation or upgrade is executed using the same command '*imf\_inst.sql*'. This script will determine the starting point, new install or upgrade, and produce the relevant log files accordingly.**

To create the base data and objects for Information Manager Foundation Layer modules;

Change directory to **<exor\_base>\imf\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start imf_inst.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Information Manager Foundation Layer objects and data will have been installed/upgraded.

### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation/upgrade files can be viewed to check for any errors that could have occurred during installation/upgrade.

A new installation of Information Manager Foundation Layer will produce the following LOG file:

```
imf_install_<date&time>.LOG
```

An upgrade of Information Manager Foundation Layer from 4.3.0.0 will produce the following LOG file:

```
imf4300_imf4400_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install/upgrade has been successful.

### 20.2.3 Documentation

Documentation is automatically produced as part of the installation/upgrade process

Two documents are produced per licenced product with foundation views.

All filenames are prefixed with the product code and they can be located in the working directory i.e. **<exor\_base>\imf\install**

For example, with the TMA product the following files will be produced;

```
TMA_foundation_view_list.txt  
TMA_foundation_view_column_list.txt
```

### 20.2.4 Mandatory Configuration

#### exor\_version.txt

Before accessing Information Manager Foundation Layer you must check the file exor\_version.txt.

This file is referenced in Windows Registry setting 'EXOR\_VERSION' and by default can be located in the **<exor\_base>\bin** directory.

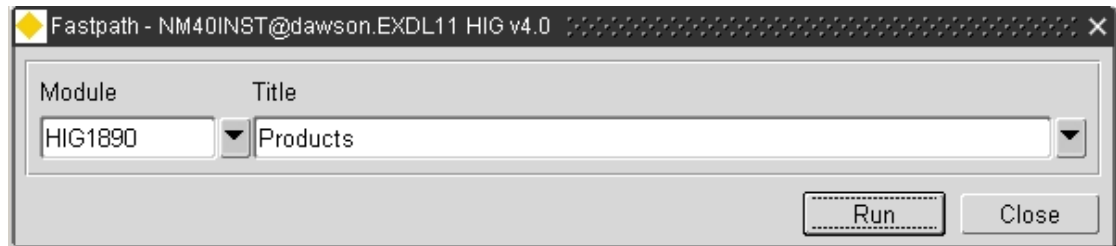
Ensure that the entry for Information Manager Foundation Layer is set accordingly;

**IMF=4.4.0.0**

### 20.2.5 Product Licensing

Following **first time installation** you must licence the product for use.

To do this start highways by exor and invoke module HIG1890 from the Fastpath menu.



For further details please refer to the “**Network Manager General System Admin Guide**”

## 21 Information Manager 4

### 21.1 Implementation of the Information Manager 4 Software files

To install the software components for Information Manager 4 execute the **setup\_information\_manager\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

Further instructions are available in the "**Information Manager 4 Install and Configuration Guide.pdf**".

### 21.2 Information Manager 4.4.0.0 Fix 1

**Important:**

After installing or upgrading Information Manager to 4.4.0.0 the patch '**Information Manager 4.4.0.0 Fix 1**' should be applied before using the application.

## 22 Work Orders Work Tray

### 22.1 Implementation of the Work Orders Work Tray Software files

To install the software components for Enquiry Manager Work Tray execute the **setup\_work\_orders\_work\_tray\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 22.2 Work Orders Work Tray Server Install

This chapter provides details of steps involved in installing the server components for Work Orders Work Tray.

### Important:

This product will require installing **after** Network Manager, Maintenance Manager, Enquiry Manager and Information Manager.

### 22.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 22.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 22.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the install scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

Also during install Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install. However it will be of concern if compilation errors still occur following the re-compilation.

### 22.2.3 Install of Work Orders Work Tray

To create the base data and objects for Work Orders Work Tray modules;

Change directory to **<exor\_base>\wowt\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start wowt_inst.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Work Orders Work Tray objects and data will have been installed.

### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
wowt_install_1_<date&time>.LOG  
wowt_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

## 22.2.4 Upgrade of Work Orders Work Tray

This section describes the steps necessary to upgrade Work Orders Work Tray to 4.4.0.0

To upgrade the base data and objects for the Work Orders Work Tray modules;

- Change directory to **<exor\_base>\wowt\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start wowt4300_wowt4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Works Orders Work Tray objects and data will have been upgraded.

### Checking Log File(s)

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.

```
wowt4300_wowt4400_1_<date&time>.LOG  
wowt4300_wowt4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 22.2.5 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

### 22.2.6 Spatial Configuration

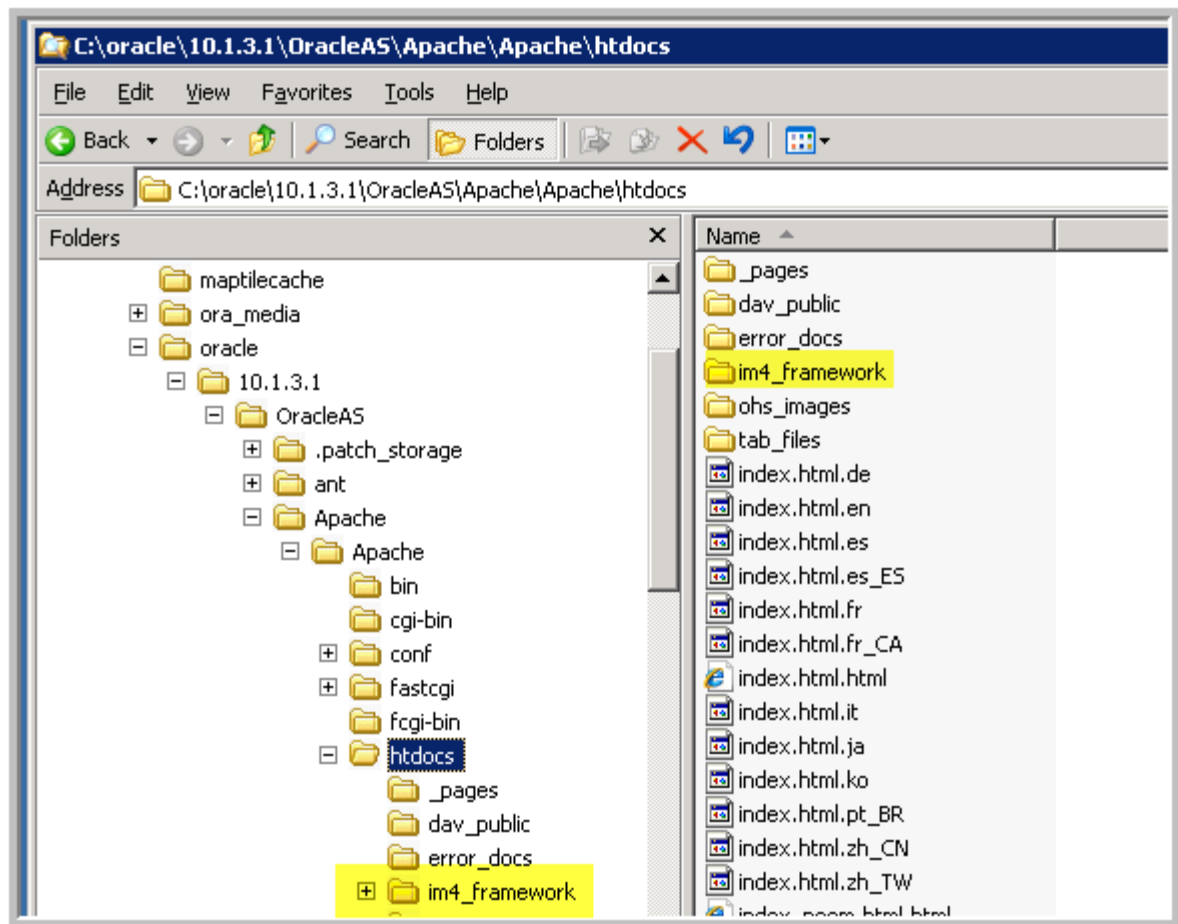
Specific information regarding the registration of spatial layers can be found in the ***“Locator and Web Mapping”*** document.



## 22.3 HTTP Server Setup

You will need to copy the \wow\admin\im4\_framework directory to the application server under the apache\apache\htdocs directory appending to what already exists.

When appending to an existing folder it is recommended that the existing folder be copied and renamed as a backup (i.e, im4\_framework\_4300). The im4\_framework directory can then be appended to the existing folder.



## 23 Enquiry Manager Work Tray

### 23.1 Implementation of the Enquiry Manager Work Tray Software files

To install the software components for Enquiry Manager Work Tray execute the **setup\_enquiry\_manager\_work\_tray\_4400.exe** and follow the on-screen prompts.

When the wizard completes, the necessary client and server software files will have been installed.

**Notes:**

A password is required to be entered during this process. If you are not sure of the password contact please raise a ticket at <http://selectservices.bentley.com>.

**Important:**

All exor applications that you install must go into the same destination – what is often referred to as **<exor\_base>**.

To support different roll-out models, you can decide to just install Client or Server or both sets of components into the **<exor\_base>**.

## 23.2 Enquiry Manager Work Tray Server Install

This chapter provides details of steps involved in installing the server components for Enquiry Manager Work Tray.

### Important:

This product will require installing **after** Network Manager, Maintenance Manager, Enquiry Manager and Information Manager.

### 23.2.1 Before you Start

Before proceeding please ensure that the pre-requisites mentioned in **Section 2.4** of this document are met.

Also, please be aware of the following;

Where instructed to change to a directory before running a script, it is assumed that you are running SQL\*PLUS from a DOS Command prompt.

If you are running SQL\*PLUS in windows you should set the 'start in' directory of the SQL\*PLUS shortcut to simulate the change of directory.

**If you do not run SQL\*PLUS from the directory stated in each step of the guide, the installation will fail.**

Also, whilst following the instructions in this section you will be required to know the location of **<exor\_base>**. You may recall that whilst undertaking the tasks in **Section 23.1** you will have implemented software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

### 23.2.2 Typical problems that you may encounter

It is possible that, when you are running some of the install scripts, errors may be reported saying that objects already exist in the database or that columns already exist on tables. These errors can generally be ignored. If you are in any doubt, please contact the Exor support desk for guidance.

Also during install Warning messages may appear saying that compilation errors have occurred. These warnings can be ignored, since invalid objects will be recompiled prompt later on in the install. However it will be of concern if compilation errors still occur following the re-compilation.

### 23.2.3 Install of Enquiry Manager Work Tray

To create the base data and objects for Enquiry Manager Work Tray modules;

Change directory to **<exor\_base>\enqwt\install**

Login to SQL\*PLUS as the highways owner on the client PC and run the following command:

```
start enqwt_inst
```

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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

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 Enquiry Manager Work Tray objects and data will have been installed.

#### Checking Log File(s)

The following log files are produced in the working directory. At the end of the installation, the files can be viewed to check for any errors that could have occurred during installation.

```
enqwt_install_1_<date&time>.LOG  
enqwt_install_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the install has been successful.

### 23.2.4 Upgrade of Enquiry Manager Work Tray

This section describes the steps necessary to upgrade Enquiry Manager Work Tray to 4.4.0.0

To upgrade the base data and objects for the Enquiry Manager Work Tray modules;

- Change directory to **<exor\_base>\enqwt\install**
- Login to SQL\*PLUS as the highways owner on the client PC
- The same script is used to upgrade from the previous version shown in **Section 2.2**. Run the following command

```
start enqwt4300_enqwt4400.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 installed your highways software in a directory called EXOR on your C drive, you would enter the following when prompted.

**C:\EXOR\**

- 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 Enquiry Manager Work Tray objects and data will have been upgraded.

### Checking Log File(s)

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.

```
enqwt4300_enqwt4400_1_<date&time>.LOG  
enqwt4300_enqwt4400_2_<date&time>.LOG
```

Please raise and attach the logs to a ticket with <http://selectservices.bentley.com> to allow Bentley (formerly exor) support staff to verify the upgrade has been successful.

Due to interdependencies between some Exor products, please ignore all compilation errors until all of your products have been upgraded.

### 23.2.5 Additional Configuration

Consult the documentation that accompanies this release for details of any additional configuration that may be required following an install.

For example, to obtain details of product options, and for details of new product features/amendments.

**Important:**

It is highly recommended that you do this before attempting to use the application.

### 23.2.6 Spatial Configuration

Specific information regarding the registration of spatial layers can be found in the ***“Locator and Web Mapping”*** document.