



***Exor Corporation Limited***



***Network Manager  
Installation and Upgrade Guide  
V 4.0.2.0***



***The Global Leader in  
Infrastructure Asset Management***



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## CHAPTER

## 1

# Introduction

## Purpose

This guide covers steps involved in installing/upgrading the components for Network Manager.

Install/upgrade is split into two distinct stages

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

## Products Covered by This Guide

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

Product	Install	Upgrade From
		4.0.1.0
Network Manager (including Asset Manager)	✓	✓

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

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## Pre-Requisites to Installation/Upgrade

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

- **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 may also want to consider copying the current **<exor\_base>** directory and sub-directory structure and contents to a new area. This is so that these previous versions are available for reference or comparison with the new ones which will overwrite them otherwise.

CHAPTER

# 2

## Installation of the Network Manager Software files

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### Setup

To install the software components for Network Manager execute the **setup\_network\_manager\_4020.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 [support@exorcorp.com](mailto:support@exorcorp.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>**.

## CHAPTER

# 3

## Highways Owner Account

This chapter provides details of steps involved in creating an owner for all exor database objects.

### **IMPORTANT:**

Only perform the steps outlined in this chapter if you do not already have a 'Highways Owner' account. If you are upgrading Network Manager then please skip to Chapter 4.

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### **Before you Start**

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 Chapter 2 you will have installed software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

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## 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:

<b>HIGHWAYS</b>	Default Table Space. Can be a different name if required.
<b>TEMP</b>	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.



CHAPTER

# 4

## Network Manager Server Install/Upgrade

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

All customers will either have to Install Network Manager for the first time or upgrade their existing version to 4.0.2.0

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### Before you Start

Before proceeding please ensure that the pre-requisites mentioned in [Chapter 1](#) 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 Chapter 2 you will have installed software into the location referred to as **<exor\_base>**, for example, C:\EXOR.

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

Synonyms will automatically be created on upgrade of Network Manager, according to the value of the aforementioned product option.

To create synonyms following the installation of Network Manager you will have to follow the guidance in the 'Post Install/Upgrade Tasks' section of this chapter.

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## 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.

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## Installation 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_3_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.

Log files should be emailed to [support@exorcorp.com](mailto:support@exorcorp.com) to allow exor support staff to verify the install has been successful.

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## Upgrade of Network Manager

**This section describes the steps necessary to upgrade Network Manager to 4.0.2.0**

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

The same script is used to upgrade from either of the previous versions shown in [the table in chapter 1](#). Run the following command

```
start nm4010_nm4020.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.

```
nm4010_nm4020_1_<date&time>.LOG  
nm4010_nm4020_2_<date&time>.LOG
```

Log files should be emailed to [support@exorcorp.com](mailto:support@exorcorp.com) to allow exor support staff to verify the upgrade has been successful.

## Post Install/Upgrade Tasks

### 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 (and related products) are set accordingly;

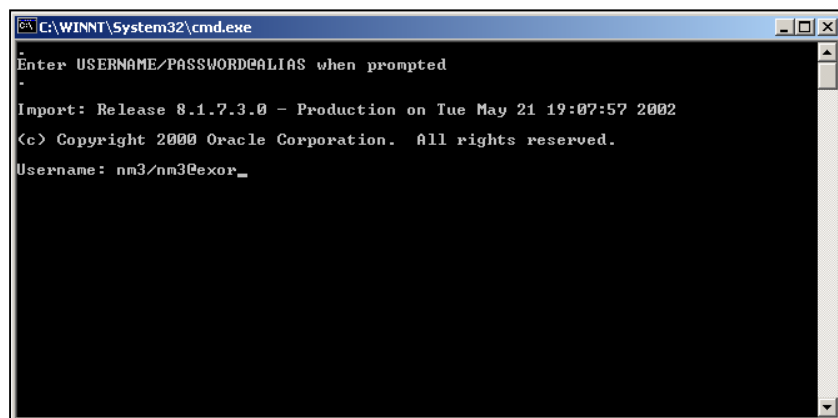
```
HIG=4.0.2.0
NET=4.0.2.0
DOC=4.0.2.0
AST=4.0.2.0
WMP=4.0.2.0
```

### Creation Of Additional Database Objects

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

- `import_nm_upload_files.bat`
- `ldjava_9i.bat` (for customers with an Oracle 9i RDBMS)

These may be found in the `<exor_base>\nm3\install\` directory and should be run for the command prompt.



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 6i/9i 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**

It should be set to Y or N

Y=If running Forms 9i

N=If running Forms 6i

### **REPURL**

This product option only needs to set when running Oracle Forms 9i.

The value of this product option should be set to the URL that identifies the 9i 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 FORMS60\_PATH/FORMS90\_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**

FORMS60\_USER\_DATE\_FORMAT

*or*

FORMS90\_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

### **Registry Setting**

FORMS60\_OUTPUT\_DATE\_FORMAT

*Or*

FORMS90\_OUTPUT\_DATE\_FORMAT

### **Example Value data**

DD-MON-RRRR

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.**



### **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.