**Network Manager
Fix Release Notes**

4.7.0.x Fix 52

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1. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.x Fix 52 and is specifically targeted at end users.

After reading through this document, should you have any further training or consultancy requirements then please contact your Bentley account manager.

2. Fix Details

Fix Details Baseline Release	4.7.0.x
Fix Description	Network Manager 4.7.0.x Fix52 Patchset. Please refer to **Section 6** of this document for details of each of the individual defects and enhancements included.
Prerequisites	Network Manager 4.7.0.x Fix 39 (Fix Number – exnm04070001en_updt39) Network Manager 4.7.0.x Fix 45 (Fix Number – exnm04070005en_updt45)

Implementation Instructions	The staging folder is the location of the folder that **exnm04070004en_updt52.zip** was extracted to (the folder containing this readme).
	
	1. **Server side changes –**
	    Please follow the instructions in **Section 4** of this document.
	
	2. **Database changes –**
	    Log onto **SQL*Plus** as the **Highways Owner** with the staging folder as the working directory.
	    At the prompt type **START nm_4700_fix52.sql** and press return.
	
	    Exit SQL*Plus

Limitations	
Configuration Information	None
How To Test	Recommend full regression test
Rollback Strategy	Initially implement on a test environment

3. List of Amended Files

Filename	Version
nm3_doc_man.pkh	3.8
nm3_doc_man.pkw	3.8
nm0572.fmx	5.12
exor-mapviewer.jar	1.10.1.0
exor_jpg.jar	2.7
jacob.jar	1.1
ojdbc6.jar	1.1
UploadClient.jar	2.3
UploadServer.jar	2.3
11.1.2.1.0\frmall.jar	1.1
11.1.2.1.0\ frmwebutil.jar	1.1
11.1.2.1.0\ mvclient.jar	2.12

11.1.2.1.0\mapviewer.ear	1.1
11.1.2.1.0\patch\frmall.jar	1.2
11.1.2.2.0\frmall.jar	1.3
11.1.2.2.0\ frmwebutil.jar	1.2
11.1.2.2.0\ mvclient.jar	2.13
11.1.2.2.0\mapviewer.ear	1.2
nm_4700_fix52.sql	1.1

4. Server side changes

4.1 Oracle WebLogic Forms Server

a. Go to the relevant `exor\bin` directory on the **Oracle WebLogic Forms Server** and rename the following files –
   nm0572.fmx to **nm0572_old.fmx**

   Then copy in the new version of the file from the **staging folder**:
   nm0572.fmx

b. Go to the relevant `<ORACLE_HOME>\forms\java` directory on the **Oracle WebLogic Forms Server** and rename the following files –

exorMapviewer_10_3_6.jar to	**exorMapviewer_10_3_6_old.jar**
exor_jpg.jar	to **exor_jpg_old.jar**
frmall.jar	to **frmall_old.jar**
frmwebutil.jar	to **frmwebutil_old.jar**
jacob.jar	to **jacob_old.jar**
mvclient_10_3_6.jar	to **mvclient_10_3_6_old.jar**
ojdbc6_10_3_6.jar	to **ojdbc6_10_3_6_old.jar**
UploadClient.jar	to **UploadClient_old.jar**
UploadServer.jar	to **UploadServer_old.jar**

   Then copy the following files from the **staging folder** –
   exor-mapviewer.jar
   exor_jpg.jar
   jacob.jar
   ojdbc6.jar
   UploadClient.jar
   UploadServer.jar

   Depending on the version of **Oracle Forms** installed, the following files should be copied from the appropriate **staging folder** –
   Forms version 11.1.2.1.0
         Forms_111210\frmall.jar
         Forms_111210\ frmwebutil.jar
         Forms_111210\ mvclient.jar

   Forms version 11.1.2.2.0
         Forms_111220\frmall.jar
         Forms_111220\ frmwebutil.jar
         Forms_111220\ mvclient.jar

c. Forms Web Configuration Changes (formsweb.cfg) –
   i. Update the **archive** setting in **formsweb.cfg** for required configurations by replacing –
      `exorMapviewer4700_10_3_6.jar` by `exor-mapviewer.jar`
      `mvclient_10_3_6.jar` by `mvclient.jar`

      Remove `ojdbc6_10_3_6.jar` if present.

      The **archive** setting should look like –
      `frmall.jar,exor_jpg.jar,UploadClient.jar,exor-mapviewer.jar,mvclient.jar`

   ii. Update the **pjcArchive** setting in **formsweb.cfg** for required configurations by replacing –
      `exorMapviewer4700_10_3_6.jar` by `exor-mapviewer.jar`

4.2 Oracle WebLogic MapViewer Server

4.2.1 Undeploying old mapviewer application

1. Log on to the **Oracle WebLogic MapViewer Server Admin Console** page.
2. Go to **Domain Structure** > **Deployments**.
3. On the **Summary of Deployments** page, select the existing mapviewer application and click on **Stop** > **Force Stop Now** (above/below the Deployments list), follow the next screen and confirm the stopping by clicking on **Yes** button.
4. If WebLogic Server was configured in **Production** mode, lock the server: click on **Lock & Edit** button.
5. Again, select the existing mapviewer application from the list and click on **Delete** button (above/below the Deployments list), follow the next screen and confirm the deleting by clicking on **Yes** button.
6. If WebLogic Server was configured in **Production** mode, click **Activate Changes** to remove the old deployment completely.

4.2.2 Deploying new mapviewer application

1. Shut down the **Oracle WebLogic MapViewer Server** – e.g. **WLS_MAPVR**.
2. Go to the relevant `<ORACLE_INSTANCE>` directory on the **Oracle WebLogic MapViewer Server** –
   e.g. `E:\Oracle\Product\Middleware\instance`
   and **rename** the following directory –
   `mapviewer` to `mapviewer_old`
   Then create a **new** directory with name `mapviewer`.

3. Depending on the version of **Oracle Forms** installed, copy the `mapviewer.ear` from the appropriate **staging folder** –
   Forms version 11.1.2.1.0
   `Forms_111210\mapviewer.ear`

   Forms version 11.1.2.2.0
   `Forms_111220\mapviewer.ear`

   into `\mapviewer` directory.
   If `\mapviewer` is not already your current directory, go there.
4. Rename **mapviewer.ear** to **mapviewer1.ear**.
5. Create a subdirectory named `mapviewer.ear`.
6. Unpack **mapviewer1.ear** into `mapviewer.ear` (that is, into `\mapviewer\mapviewer.ear`).
7. Go to the `mapviewer.ear` directory.
8. Rename **web.war** to **web1.war**.
9. Create a subdirectory named `web.war`.
10. Unzip **web1.war** into `web.war` (that is, into `\mapviewer\mapviewer.ear\web.war`).
11. Modify the MapViewer configuration file (`\mapviewer\mapviewer.ear\web.war\WEB-INF\conf\`**`mapViewerConfig.xml`**) as needed, such as to change the logging level or to add permanent data source definitions. You can also modify this configuration file at any time later.
    Note – Any settings from old mapviewer deployment configuration will not work – e.g. Data Sources, Log Level, MV Security Options etc.
    *Note – A permanent data source definition must be in accordance with the example given in **Section 4.3**.*
12. Log on to **Oracle WebLogic MapViewer Server Admin Console** page.
13. Start the **Oracle WebLogic MapViewer Server** – e.g. **WLS_MAPVR**.
14. If WebLogic Server was configured in **Production** mode, lock the server: click on **Lock & Edit** button.
15. Go to **Domain Structure** > **Deployments**.
16. On the **Deployments** page, click on **Install** button (above/below the list of deployments).
17. In the **Install Application Assistant**, under **Locate deployment to install and prepare for deployment**, for **Path** `<ORACLE_INSTANCE>\mapviewer`, for **Current Location** select **mapviewer.ear** (the exploded EAR folder), and click **Next**.

18. Under **Choose targeting style**, accept the default (**Install this deployment as an application**), and click **Next**.
19. In the **Select deployment targets**, under **Servers** select the MapViewer WebLogic Server (e.g. **WLS_MAPVR**).
20. Under **Optional Settings**, accept the defaults except under **Source Accessibility**, select **I will make this deployment accessible from the following location**.
21. Click the **Finish** button to go to the **Summary of deployment** page.
22. If WebLogic Server was configured in **Production** mode, click **Activate Changes** to activate the deployment.
23. **Start** MapViewer as follows:
    a. On the **Summary of deployment** page select the just installed **mapviewer** from the list.
    b. Click **Start** > **Servicing all requests** (above/below the Deployments list) and confirm the starting by clicking on the **Yes** button.
    c. MapViewer is now started (with **State**: Active and **Health**: OK).

4.3   MapViewer Data Source Definition Example

```
<map_data_source name="mvdemo"
      jdbc_host="db1.sample.com"
      jdbc_sid="orcl"
      jdbc_port="1521"
      jdbc_user="myuser"
      jdbc_password="!mypassword"
      jdbc_mode="thin"
      number_of_mappers="21"
      max_connections="100"
      allow_jdbc_theme_based_foi="false"
      editable="false"
      plsql_package="web_user_info"
      web_user_type="SUBUSERNAME"
/>
```

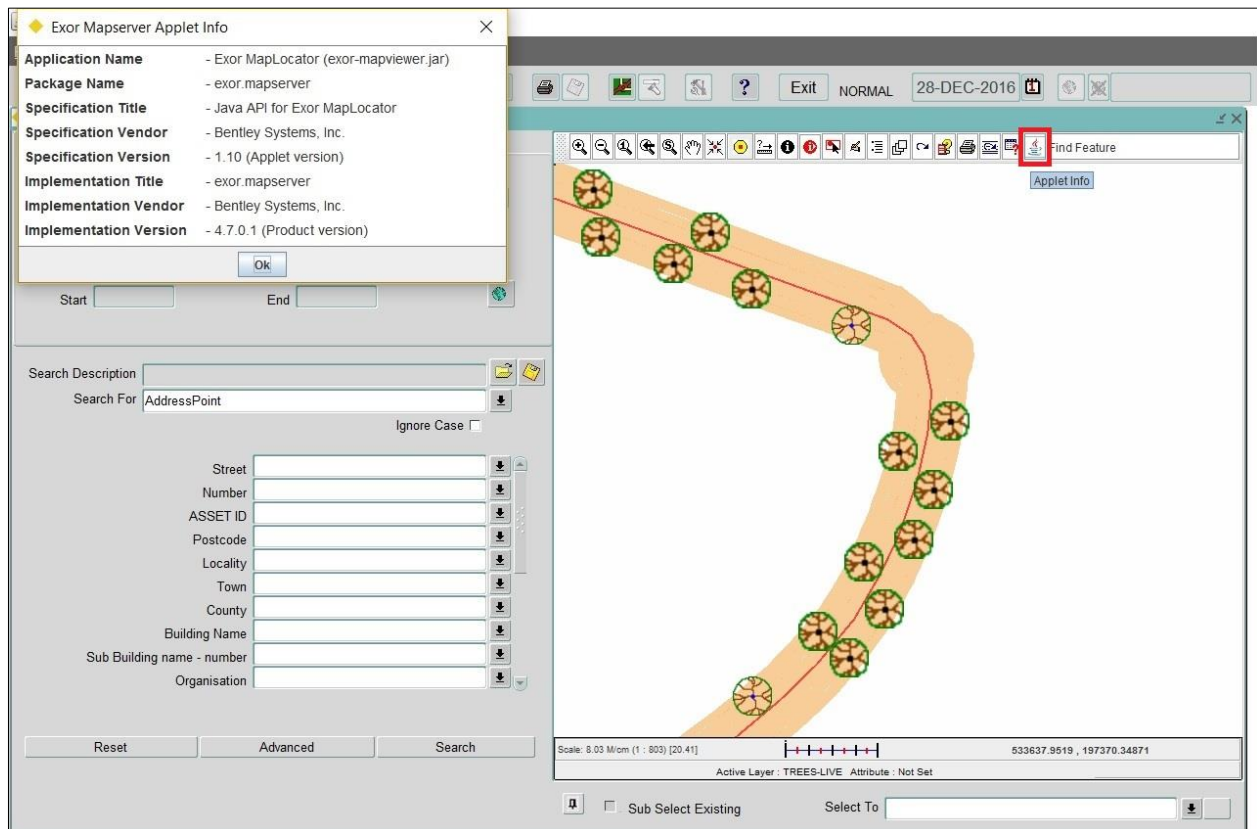*Note –* `<map_data_source>` *Element Attributes –*
- *The values for attributes –* `plsql_package` *and* `web_user_type` *– must be the **same** as mentioned in above example (in **bolds**).*
- *The Data Source connection must always be as **HIG_OWNER** only, hence the values for attributes –* `jdbc_user` *and* `jdbc_password`.
- *For other attributes, values can be set according to the environment requirements.*

*Note – Restart WebLogic Forms and MapViewer Servers – e.g. **WLS_FORMS** and **WLS_MAPVR** – to take the above changes effect.*

5.   Enhancements

5.1   MapLocator Applet Info

A new menu (**Applet Info**) has been introduced in the Locator Window that shows details of the Jar file version.

Also, for other jar files –

1. exor_jpg.jar
2. frmall.jar
3. frmwebutil.jar
4. mvclient.jar
5. ojdbc6.jar
6. UploadClient.jar
7. UploadServer.jar
8. jacob.jar

administrator can check the jar versions by running following command on command prompt with `<ORACLE_HOME>\forms\java` as working directory on the **Oracle WebLogic Forms Server** –

```
java -cp .\exor-mapviewer.jar exor.mapserver.ManifestInfo <jar_name>
```

e.g. `java -cp .\exor-mapviewer.jar exor.mapserver.ManifestInfo frmall.jar`

And you get an output like - `Jar version : frmall.jar 1.1`

Where `1.1` is the version of the jar file

To see the details of `exor-mapviewer.jar`, run -

`java -cp .\exor-mapviewer.jar exor.mapserver.ManifestInfo`

6. Log No. Summary

This chapter summarises all software issues that have been addressed by this fix.

For issues raised by customers, Bentley Technical Support Group (TSG) Ticket Numbers are cross referenced where applicable.

Details	Internal Reference	TSG Ticket Number
Using Locator Form (NM0572) - Cannot create defect on asset after raising a defect on the network	Defect 506980	7000525858
Using Locator Form (NM0572) - Form crashes after unpinning map	Defect 637155	7000457001
For Locator Form (NM0572), the file names and version numbers of the JAR files containing the map-viewer applet are indistinguishable other than timestamp and size. Unlike other product areas, there is no "about" method and no display of version number	Defect 426722	–
Cannot delete roles or admin units in Users form	Defect 680203	–