



Network Manager Fix Release Notes

4.7.0.x Fix 27



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1. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.x Fix 27 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 Fix 27 Patchset. Please refer to Section 5 of this document for details of each of the individual defects included.
Prerequisites	Network Manager 4.7.0.x Fix 8 (Fix Number - exnm04070002en_updt8) Network Manager 4.7.0.x Fix 25 (Fix Number - exnm04070001en_updt25)
Implementation Instructions	The staging folder is the location of the folder that exnm04070001en_updt27.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_fix27.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
hig.plx	5.4.1.0
Java_1.6\exorMapView4700_10_3_6.jar	1.8
Java_1.7\exorMapView4700_10_3_6.jar	1.7
Java_1.6\mvclient_10_3_6.jar	1.2
Java_1.7\mvclient_10_3_6.jar	1.1
Java_1.6\mapviewerVer11_1_1_7_1_B130516.ear	1.2
Java_1.7\mapviewerVer11_1_1_7_1_B130516.ear	1.1
nm_msv_style_size.tyh	3.1
nm3_msv_util.pkh	3.1
nm3_msv_util.pkw	3.1
v_nm_msv_styles.vw	3.1

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4. Server side changes

4.1 Oracle WebLogic Forms Server –

4.1.1 PL/SQL Library –

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

`hig.plx` to `hig_old.plx`

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

4.1.2 JAR Files –

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

`mvclient_10_3_6.jar` to `mvclient_10_3_6_old.jar`

`exorMapviewer4700_10_3_6.jar` to `exorMapviewer4700_10_3_6_old.jar`

Then copy in the new versions of the files from the **staging folder**.

Note 1 – Make sure that the right version of the file is used. There are two versions of the each file –

1. **Compatible with Java 1.6** – `staging_folder\Java_1.6`
The minimum version of Java (on the environment, the file being deployed) required is `1.6.0_29`.
2. **Compatible with Java 1.7 and above** – `staging_folder\Java_1.7`
The minimum version of Java (on the environment, the file being deployed) required is `1.7.0_25`.

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 MapViewerServer – 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. Copy `mapviewerVer11_1_1_7_1_B130516.ear` into `\mapviewer` directory. If `\mapviewer` is not already your current directory, go there. **See Note 1.**
4. Rename `mapviewerVer11_1_1_7_1_B130516.ear` to `mapviewerVer11_1_1_7_1_B1305161.ear`.

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5. Create a subdirectory named `mapviewerVer11_1_1_7_1_B130516.ear`.
6. Unpack **mapviewerVer11_1_1_7_1_B1305161.ear** into `mapviewerVer11_1_1_7_1_B1305161.ear` (that is, into `\mapviewer\mapviewerVer11_1_1_7_1_B130516.ear`).
7. Go to the `mapviewerVer11_1_1_7_1_B130516.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\mapviewerVer11_1_1_7_1_B130516.ear\web.war`).
11. Modify the MapViewer configuration file (`\mapviewer\mapviewerVer11_1_1_7_1_B1305161.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 2 – Any settings from old mapviewer deployment configuration will not work – e.g. Data Sources, Log Level, MV Security Options etc.
Note 3 – 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 MapViewerServer – 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 **mapviewerVer11_1_1_7_1_B1305161.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 **mapviewerVer11_1_1_7_1_B130516** 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"
/>
```

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**Note 4 –** <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 5 – Restart WebLogic Forms and MapViewer Servers – e.g. **WLS_FORMS** and **WLS_MAPVR** – to take the above changes effect.

4.4 Exor Application Product Option Changes –

4.4.1 WEBMAPPRDS (Preferred Data Source) –

This Product Option will no longer be used and hence will get removed after applying this fix.

4.4.2 WEBMAPDSRC (Data Source) –

This Product Option was earlier available as a User Option, however this fix will remove it from the User Options list, so that only Administrator can set its value and other subordinate users cannot override the same. Still Administrator can enable it back as a User Option, however it is **strongly discouraged**.

5. Log No. Summary

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

For issues raised by users, Bentley Technical Support Group (TSG) Service Request Numbers are cross referenced where applicable.

Details	Internal Reference	TSG Service Request
[Locator] Legend labels are compressed	Defect 76074	8001399235, 8001532731
[Locator] Exor crashes when Product Option WEBMAPPRDS is left empty	Defect 213542	-
[Locator] Layer security does not work in MapLocator	Defect 224379	-
[Locator] Admin Unit security is not fully functional on assets	Defect 73229	-

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