



Network Manager Fix Release Notes

4.7.0.x Fix 39



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1. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.x Fix 39 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 39 Patchset. Please refer to Section 7 of this document for details of each of the individual defects included.																																
Prerequisites	Network Manager 4.7.0.x Fix 31 (Fix Number - exnm04070008en_updt31)																																
Implementation Instructions	<p>The staging folder is the location of the folder that exnm04070001en_updt39.zip was extracted to (the folder containing this readme).</p> <p>Go to the relevant exor\bin directory on the Oracle Weblogic Server and rename the following files:-</p> <p style="padding-left: 40px;">hig.plx to hig_old.plx</p> <p>Then copy in the following files from the staging folder.</p> <p style="padding-left: 40px;">hig.plx</p> <p>Go to the relevant <ORACLE_HOME>\forms\java directory on the Oracle WebLogic Server and rename the following files –</p> <table style="margin-left: 40px;"> <tr><td>exorMapviewer_10_3_6.jar</td><td>to exorMapviewer_10_3_6_old.jar</td></tr> <tr><td>mvclient_10_3_6.jar</td><td>to mvclient_10_3_6_old.jar</td></tr> <tr><td>exor_jpg.jar</td><td>to exor_jpg_old.jar</td></tr> <tr><td>jacob.jar</td><td>to jacob_old.jar</td></tr> <tr><td>UploadClient.jar</td><td>to UploadClient_old.jar</td></tr> <tr><td>UploadServer.jar</td><td>to UploadServer_old.jar</td></tr> <tr><td>frmall.jar</td><td>to frmall_old.jar</td></tr> <tr><td>frmwebutil.jar</td><td>to frmwebutil_old.jar</td></tr> <tr><td>ojdbc6_10_3_6.jar</td><td>to ojdbc6_10_3_6_old.jar</td></tr> </table> <p>Then copy in the new version of following files from the staging folder –</p> <table style="margin-left: 40px;"> <tr><td>exorMapviewer_10_3_6.jar</td><td>to exorMapviewer_10_3_6_old.jar</td></tr> <tr><td>mvclient_10_3_6.jar</td><td>to mvclient_10_3_6_old.jar</td></tr> <tr><td>exor_jpg.jar</td><td>to exor_jpg_old.jar</td></tr> <tr><td>jacob.jar</td><td>to jacob_old.jar</td></tr> <tr><td>UploadClient.jar</td><td>to UploadClient_old.jar</td></tr> <tr><td>UploadServer.jar</td><td>to UploadServer_old.jar</td></tr> <tr><td>ojdbc6_10_3_6.jar</td><td>to ojdbc6_10_3_6_old.jar</td></tr> </table> <p>Depending on the version of Oracle Forms installed, the following files should be copied from the appropriate staging folder:</p> <p style="padding-left: 40px;">Forms version 11.1.2.1.0</p> <p style="padding-left: 80px;">Forms_111210\frmall.jar</p> <p style="padding-left: 80px;">Forms_111210\frmwebutil.jar</p> <p style="padding-left: 40px;">Forms version 11.1.2.2.0</p> <p style="padding-left: 80px;">Forms_111220\frmall.jar</p>	exorMapviewer_10_3_6.jar	to exorMapviewer_10_3_6_old.jar	mvclient_10_3_6.jar	to mvclient_10_3_6_old.jar	exor_jpg.jar	to exor_jpg_old.jar	jacob.jar	to jacob_old.jar	UploadClient.jar	to UploadClient_old.jar	UploadServer.jar	to UploadServer_old.jar	frmall.jar	to frmall_old.jar	frmwebutil.jar	to frmwebutil_old.jar	ojdbc6_10_3_6.jar	to ojdbc6_10_3_6_old.jar	exorMapviewer_10_3_6.jar	to exorMapviewer_10_3_6_old.jar	mvclient_10_3_6.jar	to mvclient_10_3_6_old.jar	exor_jpg.jar	to exor_jpg_old.jar	jacob.jar	to jacob_old.jar	UploadClient.jar	to UploadClient_old.jar	UploadServer.jar	to UploadServer_old.jar	ojdbc6_10_3_6.jar	to ojdbc6_10_3_6_old.jar
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	<p>Forms_111220\frmwebutil.jar</p> <p>The Oracle Weblogic Mapviewer Server will require configuration changes as detailed in section 5, below.</p> <p>Once the configuration changes have been applied, the WebLogic Forms and MapViewer Servers (e.g. WLS_FORMS and WLS_MAPVR 2) must be restarted.</p> <p>Log onto SQL*Plus as the Highways Owner with the staging folder as the working directory.</p> <p>At the prompt type START nm_4700_fix39.sql and press return.</p> <p>Exit SQL*Plus</p>
Limitations	
Configuration Information	<p>Note that Network Manager 4.7.0.x Fix 27 has been deprecated and is effectively superseded by Fix 39.</p> <p>There is no need to install Fix 27, but if this has already been done then Fix 39 can still be installed as normal</p>
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
nm_msv_style_size.tyh	3.1
nm3_msv_util.pkh	3.1
nm3_msv_util.pkw	3.1
nm3ddl.pkw	2.28
v_nm_msv_styles.vw	3.1
exorMapviewer4700_10_3_6.jar	1.8
mvclient_10_3_6.jar	1.2
mapviewerVer11_1_1_7_1_B130516.ear	1.2
exor.jpg.jar	2.6
jacob.jar	1.0
UploadClient.jar	2.2
UploadServer.jar.jar	2.2
Forms_111210\frmall.jar	1.0
Forms_111210\frmwebutil.jar	1.0.1.0
Forms_111220\frmall.jar	1.0.1.0
Forms_111220\frmwebutil.jar	1.0
ojdbc6_10_3_6.jar	1.0
nm_4700_fix39.sql	1.0
nm_4700_fix39_ddl.sql	1.0

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4. JRE Version

Jars in this fix are signed with a new certificate to use a stronger encryption to support the latest security changes by Oracle. Visit following link for more details –

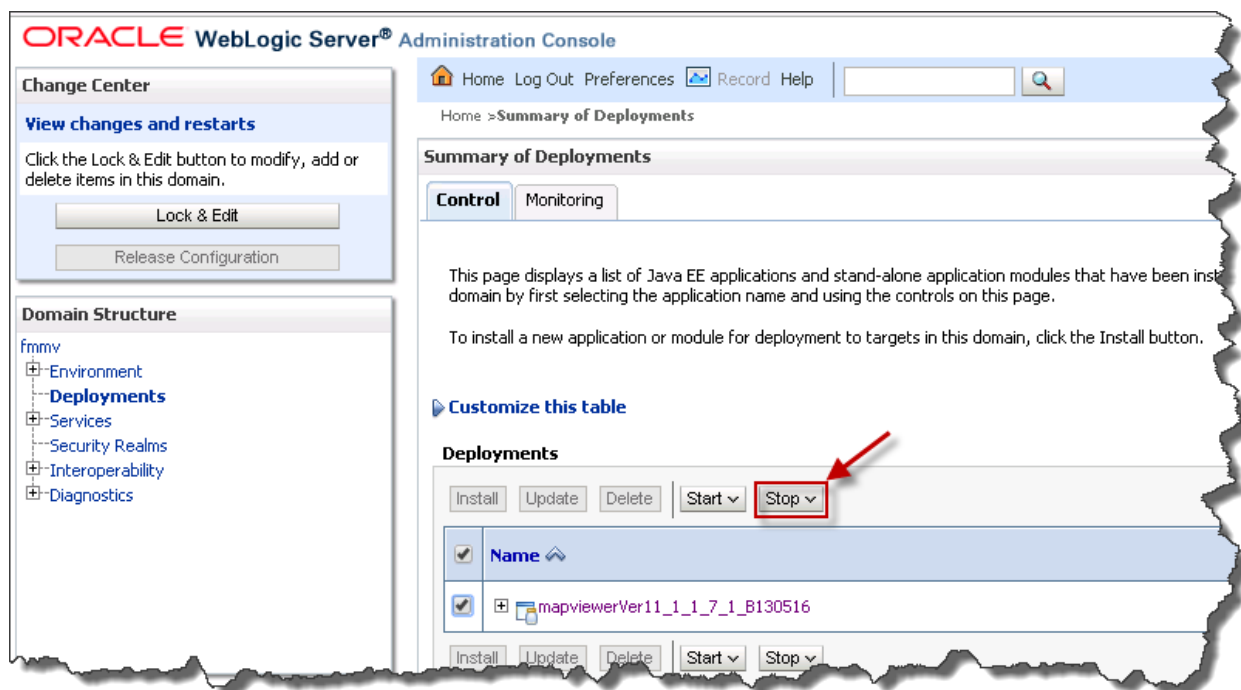
<http://www.oracle.com/technetwork/java/javase/8u131-relnotes-3565278.html>

Note: In order the new jars to work, JRE on client machines must be updated to 1.8.0_131 or above.

5. Oracle WebLogic Mapviewer Server Configuration

5.1 Undeploying old mapviewer application

1. Log on to the **Oracle WebLogic MapViewer Server Admin Console** page. Go to **Domain Structure > Deployments**, select the appropriate mapviewer application and click on **Stop > Force Stop Now**. Click **Yes** on the next screen to confirm.



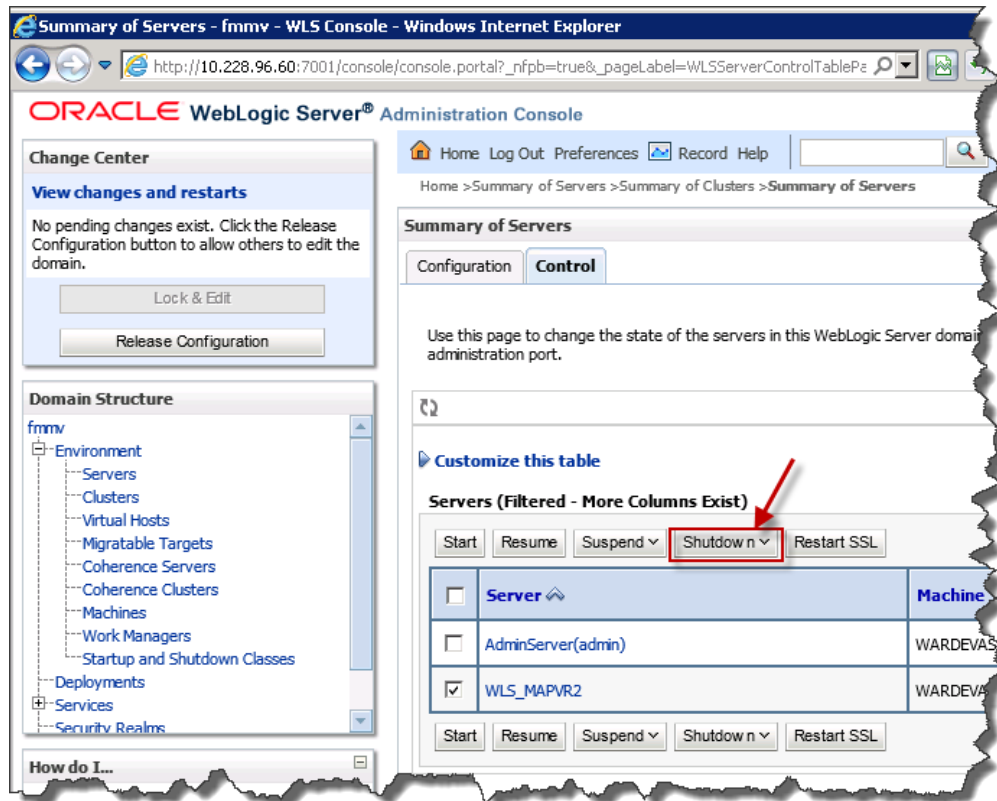
Note: You may have to click **Lock & Edit** button if WebLogic Server was configured in **Production** mode.

2. Once stopped, re-select the appropriate mapviewer application and click on **Delete**, confirming the deletion in the screen by clicking on **Yes** button.

Note: You may have to click **Activate Changes** to remove the old deployment completely if WebLogic Server was configured in **Production** mode.

5.2 Deploying new mapviewer application –

1. Go to **Domain Structure > Environment > Servers**. Under **Summary of Servers** select the **Control** tab, and select the appropriate Oracle WebLogic MapViewer Server – e.g. **WLS_MAPVR2**. Click on **Shutdown > Force Shutdown Now**. Click **Yes** on the next screen to confirm.



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

3. Create a new directory with name **mapviewer** and navigate to this directory.
4. Copy **mapviewerVer11_1_1_7_1_B130516.ear** into \mapviewer directory, just created and rename to **mapviewerVer11_1_1_7_1_B1305161.ear**.
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_B130516.ear** directory (i.e. into \mapviewer\mapviewerVer11_1_1_7_1_B130516.ear) and navigate to the mapviewerVer11_1_1_7_1_B130516.ear directory.
7. Rename **web.war** to **web1.war**.

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8. Create a subdirectory named **web.war**.
9. Unzip **web1.war** into **web.war** directory (i.e. into **mapviewer\mapviewerVer11_1_1_7_1_B130516.ear\web.war**).
10. Modify the MapViewer configuration file i.e.

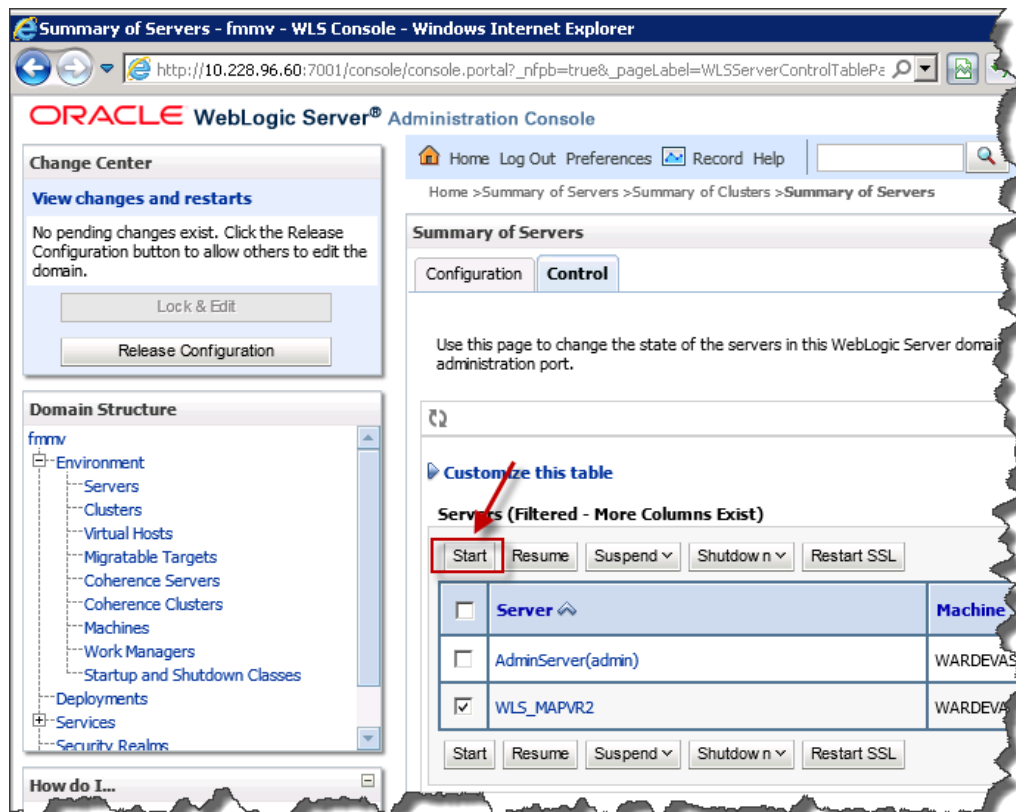
mapviewer\mapviewerVer11_1_1_7_1_B130516.ear\web.war\WEB-INF\conf\mapViewerConfig.xml

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.

A permanent data source definition must be in accordance with the example given in **Section 5.3**

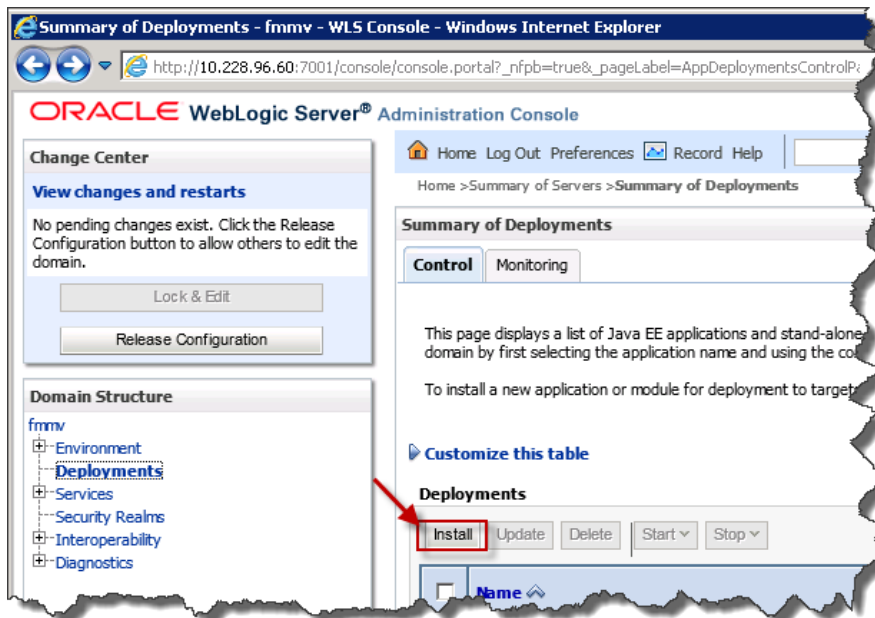
11. Log on to **Oracle WebLogic MapViewer Server Admin Console** and go to **Domain Structure > Environment > Servers**. Under **Summary of Servers** select the **Control** tab, and select the appropriate Oracle WebLogic MapViewer Server – e.g. **WLS_MAPVR2**. Click on **Start** to start the server. Click **Yes** on the next screen to confirm.



12. Navigate to **Domain Structure > Deployments** and click on **Install** button

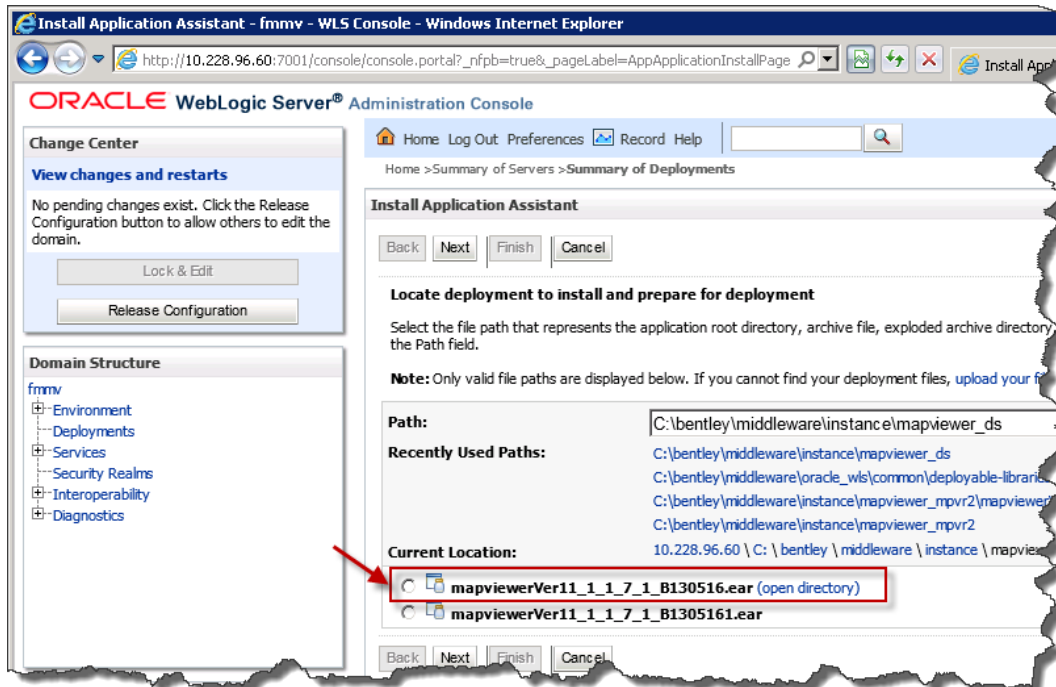
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Note: You may have to click **Lock & Edit** button if WebLogic Server was configured in **Production** mode.

13. In the **Install Application Assistant** select **mapviewerVer11_1_7_1_B130516.ear (open directory)** and click **Next**.

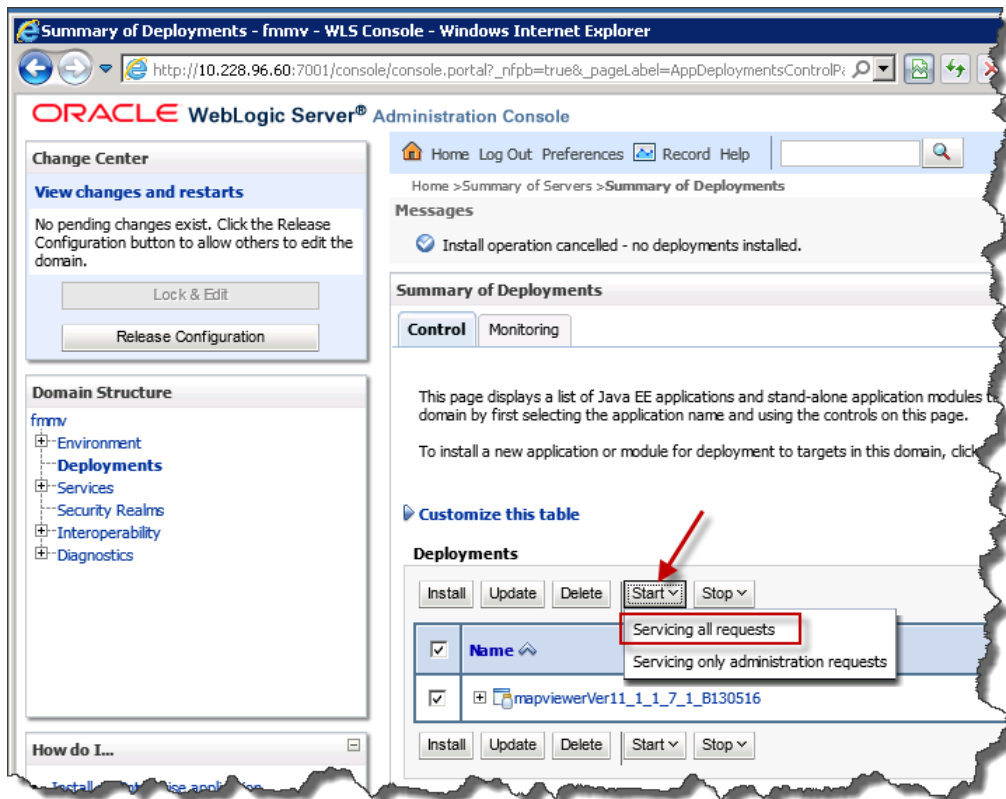


14. Under **Choose targeting style**, accept the default (**Install this deployment as an application**), and click **Next**.
15. In the **Select deployment targets**, under **Servers** select the MapViewer WebLogic Server (e.g. **WLS_MAPVR2**).

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16. Under **Optional Settings**, accept the defaults except under **Source Accessibility**, select **I will make this deployment accessible from the following location**.
17. Click the **Finish** button to go to the **Summary of deployment** page.
18. If WebLogic Server was configured in **Production** mode, click **Activate Changes** to activate the deployment.
19. Navigate to **Summary of deployment** page and select the just installed **mapviewerVer11_1_1_7_1_B130516** from the list. Click **Start > Servicing all requests** Click **Yes** on the next screen to confirm



Ensure MapViewer is now started (i.e. with **State**: Active and **Health**: OK).

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5.3 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: plsql_package and web_user_type attributes must be as specified above i.e.

```
plsql_package="web_user_info"  
web_user_type="SUBUSERNAME"
```

The jdbc_user and jdbc_password attributes must be set to the Highways Owner username and password

All other attribute values can be set according to the environment requirements

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6. Exor Application Product Option Changes

6.1 WEBMAPPRDS (Preferred Data Source)

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

6.2 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**.

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7. 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.

<i>Details</i>	<i>Internal Reference</i>	<i>TSG Service Request</i>
[Locator] Legend labels are compressed	Defect 426124	8001399235, 8001532731
[Locator] Exor crashes when Product Option WEBMAPPRDS is left empty	Defect 428401	-
[Locator] Layer security does not work in MapLocator	Defect 428466	-
[Locator] Admin Unit security is not fully functional on assets	Defect 425844	-
Oracle has replaced existing java versions with java 1.8. As a result none of the Exor applets work.	Defect 695941	

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