

Network Manager Fix Release Notes

4.7.0.x Fix 58



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Date: 23rd November 2018

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	NB: It should be noted that applying this fix will not affect the current installation, but merely introduces the ability to configure, and make use of, Bentley IMS as an Identity Provider to acces the Exor Forms Application, if required.		



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1. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.x Fix 58 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	Exor Core Enhancements for IMS Integration		
Prerequisites	All Network Manager Fixes prior to, and including, Fix 52 should be applied prior to this fix		
Implementation Instructions	Note: This fix contains enhancements to allow for IMS Integration, if required. Applying this fix will have no impact on the current installation but introduces the ability to configure the system to make use of Bentley IMS as an Identity Provider		
	The staging folder is the location of the folder that exnm04070006en_updt58.zip was extracted to (the folder containing this readme).		
	Go to the relevant exor\bin directory on the Oracle Weblogic Server and rename the following files:-		
	hig1832.fmx to nm1832_old.fmx hig1833.fmx to nm1833_old.fmx hig.plx to hig_old.plx		
	Then copy in the following files from the staging folder to the exor\bin directory –		
	hig1832.fmx hig1833.fmx hig.plx		
	sso.plx higenc.fmx higsso.fmx		
	Go to the relevant <oracle_home>\forms\java directory on the Oracle WebLogic Forms Server and rename the following files –</oracle_home>		
	exor-mapviewer.jar to exor-mapviewer_old.jar		
	Then copy in the following jars from the staging folder directory –		
	exor_login_util.jar exor-mapviewer.jar DJNativeSwing-SWT.jar DJNativeSwing.jar swt.jar log4j.jar esapi.jar bouncy-castle-provider.jar commons-codec.jar		
	Log onto SQL*Plus as SYS user with the staging folder as the working directory.		
	At the prompt type START nm_4700_fix58_sys.sql and press return.		
	Log onto SQL*Plus as SYSTEM user with the staging folder as the working directory.		
	At the prompt type START nm_4700_fix58_system.sql and press return.		



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Limitations	Log onto SQL*Plus as the Highways Owner with the staging folder as the working directory. At the prompt type START nm_4700_fix58.sql and press return. Exit SQL*Plus
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
hig1832.fmx	5.15
hig1833.fmx	5.6
hig_relationship_api.pkh	1.2
hig_sso_api.pkh	1.0
hig_relationship_api.pkw	1.3
hig_sso_api.pkw	1.3
nm3user_admin.pkh	3.3
nm3user_admin.pkw	3.5
exor-mapviewer.jar	1.11
sso.plx	1.1
higsso.fmx	1.3
higenc.fmx	1.1
hig.plx	5.7
exor-ims.war	1.2
log4j.properties	1.0
exor_login_util.jar	1.5
swt.jar	1.0
esapi.jar	1.0
log4j.jar	1.0
DJNativeSwing-SWT.jar	1.0
DJNativeSwing.jar	1.0
bouncy-castle-provider.jar	1.0
commons-codec.jar	1.0
migrate_users.sql	1.0
who_trg.sql	2.5
nm_4700_fix58_sys.sql	1.0
nm_4700_fix58_system.sql	1.0
nm_4700_fix58.sql	1.6



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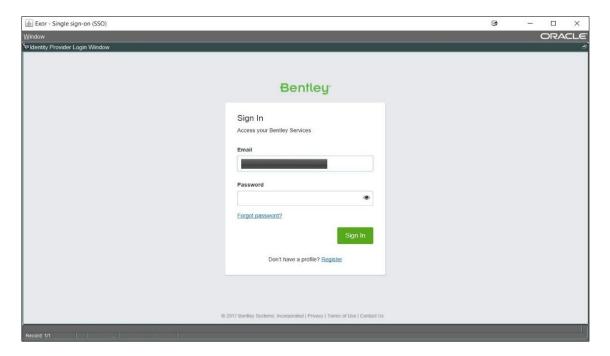
4 Enhancements

4.1 Exor Integration With IMS

This fix contains enhancements to allow integration between Exor Core and the Bentley IMS product. This means that Single Sign-On can be implemented across any applications that also integrate with Bentley IMS as an Identity Provider. When activated, user authentication will be performed using passive WS-Federation. In effect this allows Exor Core to be configured as a relying party in WS-Federation terms.

In support of this, the User definition form (HIG1832) has been amended to allow users to be configured for authentication via the external Identity Provider.

The Exor IMS Integration Configuration Guide document, included in this fix, details how IMS Authentication is configured. The obvious difference to the user, once this authentication method has been implemented, is that Identity Providers Login screen will replace the current login screen. The following is the login form from Bentley IMS, as an example



4.1.1 PROXY_OWNER Role

User Authentication via IMS makes use of Oracle's Proxy Authentication, where a Proxy User is defined that will connect and authenticate against the database on behalf of another database user.

To allow for this, the PROXY_OWNER Role has been created, where any user granted this role can be used as a Proxy Owner.



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4.1.2 Enabling User Authentication via IMS

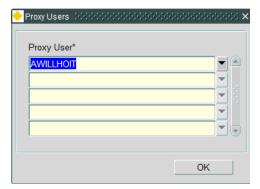
A new checkbox has been introduced, and when checked will register the user for access via Single Sign-On.



Once the SSO User checkbox has been checked the following dialog will be displayed:



The following window will then be displayed, requiring a Proxy User to be assigned (Note: Only users that have been assigned the PROXY_OWNER role will be available for selection, see section 4.1.1):



For authentication, the user's email address will be used to identify the user. As a result, the user's email address must be defined. Validation will ensure that a value is present.



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4.1.3 Automatic Password Generation

Once registered as a Single Sign-On User, the user's password will be automatically generated and the Password field will be disabled. If the user also requires access to the Exor Forms Application directly (ie. As they do currently), there is an option to override the automatic password generation by use of the *Override password generation* checkbox:

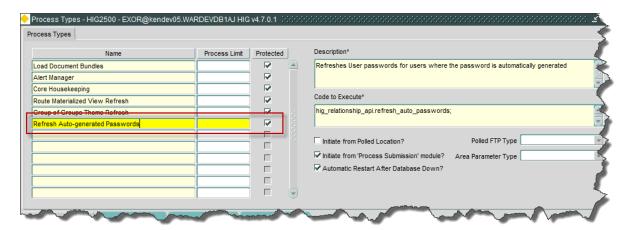


On checking this checkbox, the user is prompted to enter a password.

NB: By default all newly created users will be registered for access via Single Sign-On and will have their passwords automatically generated

4.1.4 Auto-generated Password Reset Process

Where users have been registered for Automatic Password management, a new process has been introduced which will allow for regular password updates. A random password will then be generated for each of these users.





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4.1.5 Product Option DEFSSO

Defines whether new users are automatically assigned as Single Sign-On users. A setting of 'Y' will default the SSO User checkbox to selected, requiring a Proxy Owner to be assigned along with the User's e-mail address.

Note: When using Copy User from the toolbar, users will always be created as non-SSO Users. Message 'Please note: New users created using 'Copy User' are not registered as SSO users by default' will be produced to indicate this.



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5 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
Enhancement required to register a user as a Single Sign-On user.	Enhancement 633609	
A method for mapping an Exor Username (ie Oracle User name) to a users' IMS credentials will be required to allow for Single Sign-On access to the Exor application		

NB: It should be noted that applying this fix will not affect the current installation, but merely introduces the ability to configure, and make use of, Bentley IMS as an Identity Provider to access the Exor Forms Application, if required.