



Network Manager Fix Release Notes

4.7.0.0 Fix 35



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2. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.0 Fix 35 and is specifically targeted at end users.

This is a subsequent build of the same fix 35 as was originally prepared in exnm04070002en_updt35. The difference between this and the earlier build is that this is now dependent on fix32 which addresses NSG 8.1 data for UK customers. The exnm04070001en_updt32 fix is a pre-requisite of this fix for customers who use the NSG product. If exnm04070001en_updt32 is installed on top of the original build of this fix (exnm04070002en_updt35) then this fix must be installed to ensure some of the issues are not re-introduced.

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


Please ensure that all listeners, map servers, scheduler processes and dbms_jobs are disconnected prior to the installation of this fix.

3. Fix Details

Fix Details Baseline Release	4.7.0.0
Fix Description	<p>This fix addresses some issues in two areas namely Locator and in the merge network operation. The former fixes relate to a failure of Locator to utilise all attributes on foreign table data leading to an error suggesting the maximum number of attributes had been exceeded. Also, the extract of a set of foreign table data from locator would fail when the inclusion of linear location information was requested. Also, there was no code in situ to offer the translation (aggregation) of the location data to an appropriate route system. An attempt to export multiple files with the same name is now trapped with the correct error message.</p> <p>The changes relating to the merge can affect the data in the Structural Projects (STP) database. This data has constraints which fail in some cases which led to the error being raised. It is likely that this error could affect the measures on route data and could operate successfully when applied to network without any STP data related to the affected network. The incorrect route measures could arise in cases where an element with the smaller route measure was being reversed. This is rare and tests on customer databases suggest it has never been used.</p>
Prerequisites	This fix is an upgrade from a standard 4.7.0.0 release.
Implementation Instructions	<p>Ensure that the system is not in use before upgrading with this fix release.</p> <p>The staging folder is the location of the folder that exnm04070004en_updt35.zip was extracted to (the folder containing this readme).</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_fix35.sql and press return.</p> <p>Exit SQL*Plus</p> <p>This script will create a log file which should not contain any errors.</p>
Limitations	The export of large volumes of data especially with linear location data will take a long time. The code is designed to export rows of data from selections based on records picked from the map or from attribute searches and not for bulk export. The translation/aggregation of location data to route systems is quite expensive to execute.
Configuration Information	None


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How To Test	Recommend full regression test		
Rollback Strategy	Initially implement on a test environment		

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4. List of New and Amended Files

Filename	Version
nm3ft_mapping.pkh	2.5
nm3ft_mapping.pkw	2.5
nm3locator.pkw	2.4
get_pl_from_ft.fnw	1.1
nm_4700_fix35.sql	1.3
log_nm_4700_fix35	1.3
nm3merge.pkw	2.20

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. Defect and Task Numbers relate to the BSW TFS work management system.

Details	Internal Reference	TSG Service Request
Maximum no of attributes exceeded error. See Task 361961 below	Defect 195633	
Task relating to defect 195633. New code has been configured to use all attributes except a small list which are for internal use.	Task 361961	
Locator Results Export does not work for Foreign Table assets - The attributes and columns relating to the extract do not match. The code fails but no error is raised	Defect 346863	SR#7000304708
Merging 2 sections causes SSLD_OFFSET_RANGE_CHK violated - The core merge process failed to handle reversal of datums in a specific scenario and led to numerical errors in the route measures. These route measures were used inside the STP product so the code failed. Depending on the arithmetic, the code could fail with the range check constraint violation or could fail with the Ora-20212: No values in placement array error	Defect 359304	SR#7000452424
Merging 2 sections causes ORA-20212:No values in placement array for 1050256 - Same as defect 359304 see above	Defect 359477	SR#7000452583
The code to extract FT data with LR information failed. When enabled, it was obvious that there was no code in place to translate the LR data into route measures, especially the preferred LRM when set.	Defect 367061	
Minor problem where the ID and product of an error being raised did not exist. The error being raised should indicate that the extract file already exists.	Defect 367065	

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