Bentley
Sustaining Infrastructure

Network Manager
Fix Release Notes

4.7.0.0 Fix 45

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1. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.0 Fix 45 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	4.7.0.0
Fix Description	Numerous Defects
Prerequisites	If NSG product is licensed, and used, NSG version 8.1 must be installed prior to this fix being applied. Network Manager Fix 43 should be applied prior to this fix
Implementation Instructions	The staging folder is the location of the folder that exnm04070005en_updt45.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:- nm0207.fmx to nm0207_old.fmx nm0415.fmx to nm0415_old.fmx nm0510.fmx to nm0510_old.fmx Then copy in the new versions of the files from the staging folder. Log onto SQL*Plus as the Highways Owner with the staging folder as the working directory. At the prompt type START nm_4700_fix45.sql and press return. At the prompt type START compile_schema.sql and press return. At the prompt type START compile_all.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
nm3asset.pkw	2.26
nm3close.pkw	2.18
nm3homo.pkw	2.26
nm3inv_load.pkw	2.9
nm3rsc.pkw	2.14
nm3undo.pkw	2.28
nm3undo.pkh	2.2
nm3sdo.pkw	2.96
nm3sdo.pkh	2.11
hig_process_api.pkw	3.25

nm3wrap.pkw	2.4
v_nm_ordered_members.vw	1.3
nm3homo_gis.pkw	2.10
nm3sdo_edit.pkw	2.22
nm3sdo_edit.pkh	2.9
v_nm_route_view.vw	1.0
nm_placement_array.tyh	2.2
nm_placement_array.tyw	2.3
nm0207.fmx	5.2
nm0415.fmx	5.2
nm0510.fmx	5.30

4. Enhancements

4.1 Unclose Group

Currently, when closing a Group within Group of Sections form (NM0110) there is no way to Unclose the group.

This fix contains an enhancement to allow for Groups to be Unclosed with the option to Unclose all associated datums, or leave the datums closed. As an example, if the following group is closed:

The Group can be unclosed using Unclose Elements form (NM0207):

When Unclosing the Group, the following dialog is returned, giving the option to Unclose the datums and restore memberships, or not:
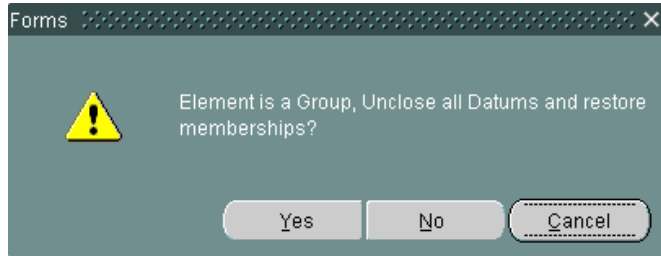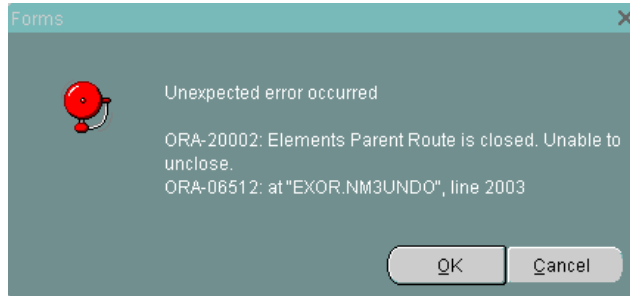
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If an attempt is made to Unclose a datum, belonging to the closed group, a dialog similar to the following is produced:

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
Rescale Fails with loop at route end. A difference in behaviour across various patch levels could have been observed due to an order-by clause failing to be specific in cases where a route looped back to a particular internal node. The order-by clause has now been made more specific to return a more definite outcome.	Defect 495967	7000292608
In a three tier, hierarchical asset configuration, when a parent asset is closed or relocated, the grandchild does not close or move with it.	Defect 493465	8001506928
In Group of Sections form (NM0110), when Circular Route is created it shows overlap which does not exist	Defect 495962	8001587738
The Asset Attributes Sets form (NM0415) produces error 'POST-QUERY trigger raised unhandled exception' when selecting an asset whose description is longer than 30 characters.	Defect 495963	7000105414
In Group of Sections form (NM0110), there is a facility to Close a Group. Once closed, there is no way of Un-Closing. There is a requirement to allow for the Un-closing of a Group and, on Un-closing the Group, the user should have the option to Un-Close associated members (datums) or leave these closed, allowing for new members to be assigned.	Enhancement 495965	8001471531
CSV Loader will allow assets to be located where Begin MP is greater than End MP	Defect 495966	8001471526
In NM0510, Unable to add child assets to a hierarchical asset item. In a hierarchical asset scenario, if the child asset type has mandatory relationship and mandatory attribute, when selecting a child asset type using mouse error was occurring	Defect 428270	7000321200
In the process handler, when the count of processes in the process history, for a specific process type, does not match the latest process id the process can fail to run, without notification	Defect 428619	7000402499
When trying to create a ASD Spatial layer (TP21,TP22,TP23) from the GIS Layer Tool an error message is generated and the spatial layer is not created although the themes is	Defect 428977	
In NM0510, Zoom to Map fails after NSG 8.1 upgrades have been applied	Defect 428993	
Gaps appear in "Groups of sections" for each new added member (disappears after rescale).	Defect 589226	
"End date is out of range is parent" shown when attempting to undo close for datum which was end dated as a result of closing route. Different message expected.	Defect 589227	
When route is closed, but 'no' to close datums is selected - if then the route is unclosed, the memberships stay end dated.	Defect 589228	
Close route (no datums) before closing datum – only memberships for datums closed manually are restored, I would expect vice versa.	Defect 589231	
"Unclose datums" actually uncloses the memberships, thus message text need to be revised. Message has been modified to 'Element is a Group. Unclose all Datums and restore memberships?	Defect 615100	
When attempting to Close a route, after previously Closing and Unclosing, message 'Value Already Exists' is produced, preventing the route from being closed	Defect 615098	

Data loaders have problems in snapping to network of known name. The initial snapping will operate at the current system date so loading of locations at a prior date will fail with the error relating to future dated locations	Defect 591310	
It has been estimated that NEM would take one and a half hours to add a whole area group of sections to an event. Modifications have been made to improve this, reducing the time taken drastically.	Defect 618932	
Location of an Asset over a large number of elements is slow	Defect 632704	