**Network Manager
Fix Release Notes**

4.7.0.0 Fix 7

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1. Introduction

This document defines the changes made to the Network Manager product for 4.7.0.0 Fix 7 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	XSP Integrity modifications
Prerequisites	
Implementation Instructions	The staging folder is the location of the folder that exnm04070002en_updt7.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:- nm.fmx to nm_old.fmx nm0306.fmx to nm0306_old.fmx nm0510.fmx to nm0510_old.fmx nm0511.fmx to nm0511_old.fmx nm0590.fmx to nm0590_old.fmx nm7040.fmx to nm7040_old.fmx nm7050.fmx to nm7050_old.fmx nm7053.fmx to nm7053_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_fix7.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
nm.fmx	5.3
nm0306.fmx	5.1
nm0510.fmx	5.10
nm0511.fmx	5.4
nm0590.fmx	5.11.1.4
nm7040.fmx	5.4
nm7050.fmx	5.4
nm7053.fmx	5.3
nm3homo.pkw	2.23
xsp_reversal.vw	2.2
xsp_restraints.vw	2.2
nm_xsp.vw	2.2
nm_xsp_related_inv_types.vw	1.0

4. XSP Changes

Prior to applying this fix, data integrity could be an issue when assets are located on a datum Network, but all the Cross-sectional Position (XSP) allowable values have been configured against the Network Group. As a result asset locations are likely to be flagged as invalid should any validation be applied. This fix contains modifications to the validation such that the Network inheritance will check XSPs at both the Network group level and associated datum level, allowing for XSP metadata to be configured at datum or group level.

The following modifications are included in this fix:

NM0306 Modifications

- Network Type List of Values modified to only show linear networks that have associated Sub Class details defined.
- Asset Type List of Values modified to include Assets Types associated with the Network Type defined. Where the Assets are defined for a Datum network type, or belong to a network type Group, matching the Network Type and where the XSP Allowed flag is set to 'Y'.

NM0510 & NM0590 Modifications

- XSP List of Values has been modified to show all distinct XSP values for an Asset Type. When the Asset has been located, the List of Values will be restricted to only those values that are associated with the associated Network sub class

NM0511, NM7040, NM7050 & NM7053 Modifications

- XSP List of Values has been modified to show all distinct XSP values for an Asset Type.

XSP Validation

- When locating an Asset on a Network, validation will ensure that only those Networks with a valid sub class (ie Where sub class has been defined for the Network Type, Asset Type and XSP) are accepted

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
Modifications to allow for XSP definition and validation to support hierarchical Networks	TFS IDs 67886, 129502, 129821, 132849, 140777	
Asset Maintenance Form (NM0590) - unable to nullify an attribute	TFS ID 137273	
Enhancement to Asset Maintenance Form (NM0590) to provide Copy Asset functionality: Expand button has been enabled, and when used will call Asset Items form (NM0510) to provide the Copy Asset functionality	TFS ID 137273	8001227418