

Network Manager

**Fix Release Notes**

4.7.0.0 Fix 51

Table of Contents

2. Introduction 2

3. Fix Details 2

4. List of New and Amended Files 2

5. Log No. Summary 4

# Introduction

This document defines the changes made to the Location Bridge component of the Network Manager product. It is bundled as Fix 51 for 4.7.0.0. This incorporates all the changes that were issued in LB 4.2 (exnm04070001en\_updt47), 4.3 (exnm04070001en\_updt47) and 4.4 (exnm0407001en\_updt49) and is intended to be installed directly after the 4.1 upgrade if required. It is also intended to be installed on Location Bridge which has already been upgraded to 4.2 through the exnm04070001en\_updt47 fix or upgraded to 4.3 through the exnm04070001en\_updt48 fix or upgraded to 4.3 through the exnm04070001en\_updt49 fix.

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.

# Fix Details

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| Fix Details Baseline Release | 4.7.0.0 |
| Fix Description | This fix provides changed and improved functionality in the Location Bridge component of Network Manager. |
| Prerequisites | NM3 at version 4.0.7.1 and Location Bridge version 4.1, 4.2 or 4.3. |
| Implementation Instructions | Ensure that the system is not in use before upgrading with this fix release.  The staging folder is the location of the folder that exnm04070001en\_updt51.zip was extracted to (the folder containing this readme).  Log onto SQL\*PLUS as the Highways Owner with the staging folder as the working directory.  At the prompt type START exnm04070001en\_updt51.sql and press return.  Exit SQL\*Plus |
| Limitations | None known |
| Configuration Information | None |
| How To Test | Tests to be performed from client ARS modules |
| Rollback Strategy | Initially implement on a test environment |

# List of New and Amended Files

|  |  |
| --- | --- |
| Filename | Version |
| exnm0407001en\_updt51.sql | 1.0 |
| log\_nm\_4700\_fix51.sql | 1.0 |
| lb\_ref.pkh | 1.9 |
| lb\_ref.pkb | 1.8 |
| lb\_get.pkh | 1.12 |
| lb\_get.pkb | 1.22 |
| lb\_reg.pkh | 1.3 |
| lb\_reg.pkb | 1.13 |
| lb\_load.pkh | 1.7 |
| lb\_load.pkb | 1.25 |
| lb\_ops.pkh | 1.4 |
| lb\_ops.pkb | 1.4 |
| lb\_loc.pkh | 1.4 |
| lb\_loc.pkb | 1.6 |
| lb\_nw\_edit.pkh | 1.0 |
| lb\_nw\_edit.pkb | 1.1 |
| v\_network\_types.sql | 1.3 |
| v\_lb\_directed\_path\_links.vw | 1.0 |
| V\_LB\_PATH\_BETWEEN\_POINTS.vw | 1.3 |
| v\_lb\_path\_links.vw | 1.0 |
| v\_lb\_type\_nw\_flags.vw | 1.0 |
| v\_network\_elements.vw | 1.0 |
| v\_nm\_inv\_on\_network.vw | 1.0 |
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# 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.

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| Details | Internal Reference | TSG Service Request |
| Change v\_network\_types to include networks without locatable asset types | Enhancement 525376  Task 525896 |  |
| Location based predicates | Enhancement 316415 |  |
| Failure in route-based aggregation | Defect 433726 |  |
| Location Bridge query relative to route fails to operate with NULL measures | Defect 563403 |  |
| Problems in computation of aggregated geometry | Task 188739 |  |
| Problems with NULL aggregated geometry | Task 527600 |  |
| Add validation of measures on the load-by linear range function | Defect 524768 |  |
| Location Bridge generates incorrect results in the set operation MINUS (LB\_OPS.RPT\_MINUS) | Defect 563409 |  |
| Get whether an on-network asset type is Point or Continuous | Enhancement 316426 |  |
| Corrections and various improvements in the registration/de-registration of asset-types. | Defect 563412 |  |
| Enhancement to provide list of possible XSPs over a network location | Enhancement 523312 |  |
| Enhancement to provide a flag to indicate if an asset-type is point or continuous in respect of its location. The enhancement includes a view which can provide further flags relating to the asset-type and the network. | Enhancement 524308 |  |
| Added function to retrieve lists of XSPs for an asset and location | Enhancement 592172 Task 592173 |  |
| Problems with unit translations on route to datum conversions and vice versa | Defect 590818 |  |
| Modified range query to include the flag to return locations that are wholly within the search group or range |  |  |
| Minor performance issue in the search for assets over a group of groups. | Defect 568113 |  |
| Improvement on updates to JXP (allows the setting to NULL) |  |  |
| Added contiguity check |  |  |
| Added some exceptions to cater for re-registration of same asset types - preventing failure. |  |  |
| Unit translations can fail when units are the same. SQL accesses nit conversions where no data is found. | Defect 615163 |  |
| Load locations fails with an Oracle error ORA-30625: method dispatch on NULL SELF argument is disallowed | Defect 614192 |  |
| Load locations fails with an Oracle error ORA-01858: a non-numeric character was found where a numeric was expected | Defect 614128 |  |
| Location Bridge unit translation on load gives problems as used in createlinearange | Defect 614127 |  |
| Problems in use of an outer-join on exor unit translations | Defect 615231 |  |
| Range queries with the whole-only flag set do not work with different unit systems | Defect 592678 |  |
| LB allows registration of asset type on group-based network. | Defect 645688 |  |
| LB allows loading of empty location | Defect 645253 |  |
| Lateral offset is not computed on the aggregated geometry | Defect 626149 |  |
| LB module to supply list of available XSPs over a linear range will break on sub-class variations. | Defect 615198 |  |
| investigate and remove occurrences of combination geometries | Task 524553 |  |
| LB Registration silently ignores non-datum Network Types | Defect 528777 |  |
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Known issues:

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| --- | --- | --- |
| Known Problems | Internal Reference | TSG Service Request |
| Problems in location queries such as get\_obj\_id\_as\_rpt\_tab can fail in cases where object type is a road group type expressed as an Exor Foreign Table | Defect 635058 |  |
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