



Maintenance Manager Fix Release Notes

4.7.0.x Fix 8



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1. Introduction

This document defines the changes made to the Maintenance Manager product for 4.7.0.x Fix 8 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	Maintenance Manager 4.7.0.x Fix 8 Patchset. This patchset includes fixes and enhancements to the functionality that updates Inspections, Defects, Work Order Lines, Section Frequencies and external activities in response to Network Edits performed in the core Network Manager product.
Prerequisites	Network Manager 4.7.0.x Fix 13 and all previous Maintenance Manager 4.7.0.x fixes.
Implementation Instructions	The staging folder is the location of the folder that exmai04070001en_upd8.zip was extracted to (the folder containing this readme). <ul style="list-style-type: none">• Log onto SQL*PLUS as the Highways Owner with the staging folder as the working directory. At the prompt type START mai_4700_fix8.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
mairecal.pkh	2.5
mairecal.pkw	2.5
mai_4700_fix8.sql	1.0
log_mai_4700_fix8.sql	1.0

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4. Change details

- The MAI Reverse functionality is called when a network element is reversed. In order to support Hierarchical Networks this functionality has been extended to reverse the chainages recorded against Inspections, Defects, Work Order Lines and Frequencies when the Maintenance Sections are groups of Datum Elements. Depending upon the value of the "Reverse Allowed" field in the Group Types form (NM0004) the reversal of a Network Group can be simply reversing the cardinality of the relationship with its member Datum Elements or can involve creation of new Datum Elements that become the new members of the group.

The following table describes the updates that will occur in MAI when a Maintenance Section is reversed:-

	Maintenance Sections are Groups	Maintenance Sections are Datums
Group Type "Reverse Allowed" = 'Y'	<p>Network Manager:- Members Cardinality Swapped</p> <p>MAI:-</p> <p>All Inspection/Defect/Work Order Line chainages will be reversed.</p> <p>No Action for External Activities, Local and Section Frequencies as no new elements have been created.</p>	<p>Network Manager:- Members Cardinality Swapped</p> <p>MAI:-</p> <p>No Action for Inspection/Defect/ Work Order Line chainages as the Datum Elements themselves have not been changed, just their relationship with the group.</p> <p>No Action for External Activities, Local and Section Frequencies as no new elements have been created.</p>
Group Type "Reverse Allowed" = 'N'	<p>Network Manager:- Creates new Member Elements</p> <p>MAI:-</p> <p>All Inspection/Defect/Work Order Line chainages will be reversed.</p> <p>No Action for External Activities, Local and Section Frequencies as the new members are not sections.</p>	<p>Network Manager:- Creates new Member Elements</p> <p>MAI:-</p> <p>New inspections with reversed chainages will be created on the new Members for all defects that are NOT on a Works Order Line OR all repairs are completed OR Superseded flag is 'Y'.</p> <p>External Activities, Local and Section Frequencies based on the data stored for the old Members will be created for the new members.</p>

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- Functionality has been added to MAI to apply a recalibration of Inspections, Defects, Work Order Lines and Local Section Frequencies when a Hierachical Network is in use and a Resize operation is performed on a Maintanence Section (Group of Datum Elements). The effect on the data will be similar to a “Recalibrate Element” operation when the Maintenance Sections are Datum Elements i.e. the chainages will be either stretched or contracted to fit the new size of the Section.

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.

Details	Internal Reference	TSG Service Request
Changes to apply Network Group Resize operations to data in MAI (See section 4 for details).	Enhancement 158718	-
Changes to how Network Element Reversal is applied to data in MAI (see section 4 for details).	Defect 150659	-

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