



Maintenance Manager Release Notes v4.4.0.0

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1 Document Control

1.1 Author

Exor Development

1.2 Document Summary

This document provides information about functional changes and a list of all logs fixed in this release.

1.3 Document History

Document History			
Revision	Date	By	Description
1.0	11-FEB-2011	Exor Development	First Edition

1.4 Reference documents

None

1.5 Distribution

Exor Customers, Partners and Staff

1.1 Quality Assurance

Document Details	
File	Prepared By
Maintenance Manager at v4.4.0.0	Exor Development
Document Name	Reviewed By
Maintenance Manager at v4.4.0.0	Mark Lowe
Version	Approved for issue by
1.0	Colin Stewart
Date of Issue	Support Manager
27-MAY-2011	Graham Anns

2 Introduction

This document defines the changes made to the Maintenance Manager product at release v4.4.0.0 plus a list of all logs fixed in this release.

Unlike the "Maintenance Manager Installation/Upgrade Guide", this document is specifically targeted at the Maintenance Manager end user. Therefore, if the recipient of this document is an IT person please ensure that it is forwarded on to the relevant end user(s).

This document does not comprehensively describe the functionality of the product, or act as a User Guide.

Please note that any data shown in example screenshots does not represent any Customer's live data; it is test data set up by Exor.

After reading through this document, should you have any further Maintenance Manager training or Consultancy requirements then please contact your Exor account manager.

2.1 Pre-Requisites

No pre-requisites at this release

3 Functional Changes

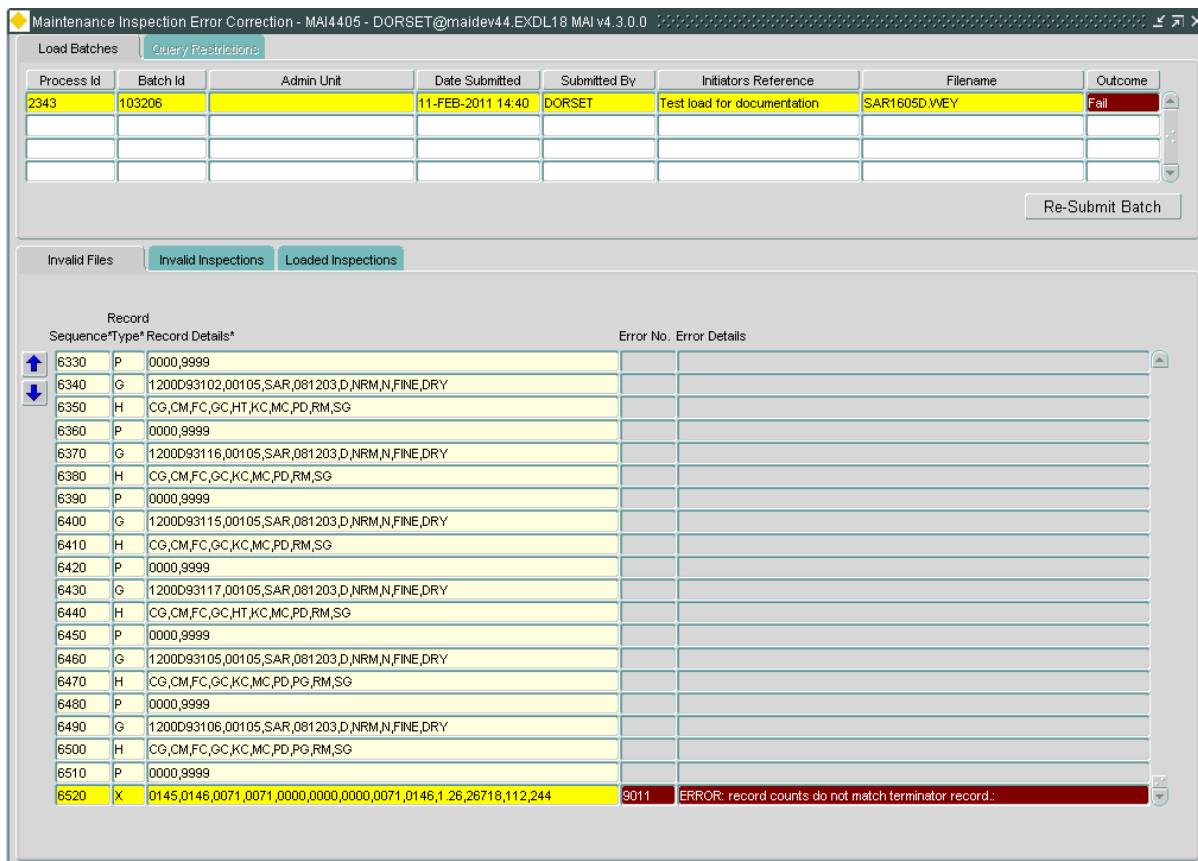
This section outlines the functional changes made at v4.4.0.0

3.1 Inspection Loader Error Correction and Summary Form (Enhanced)

The Error Correction form for the Maintenance Inspection Loader has been enhanced to display more information about each Load and to allow it to act as a Load Summary form as well as Error Correction.

When run from the Process Monitor form (HIG2520) or the Process Execution Log form (HIG2540) via the “More Details...” button this form will be automatically populated with the details of the selected load process. Details will be displayed of any:-

- File validation errors
- Data validation errors
- Successfully loaded inspections



The screenshot shows the 'Maintenance Inspection Error Correction - MAI4405 - DORSET@maidev44.EXDL18 MAI v4.3.0.0' application window. It features a 'Load Batches' tab and a 'Query Restrictions' button. Below this is a table with columns: Process Id, Batch Id, Admin Unit, Date Submitted, Submitted By, Initiators Reference, Filename, and Outcome. The first row shows Process Id 2343, Batch Id 103206, Date Submitted 11-FEB-2011 14:40, Submitted By DORSET, Initiators Reference Test load for documentation, Filename SAR1605D.WEY, and Outcome Fail. A 'Re-Submit Batch' button is located below the table.

Below the table are three tabs: 'Invalid Files', 'Invalid Inspections', and 'Loaded Inspections'. The 'Invalid Inspections' tab is selected, showing a list of records. The records are displayed in a table with columns: Record Sequence, Type, Record Details, Error No., and Error Details. The records are numbered 6330 to 6520. The last record, 6520, is highlighted in red and shows an error: 'ERROR: record counts do not match terminator record:'.

Record Sequence	Type	Record Details	Error No.	Error Details
6330	P	0000,9999		
6340	G	1200D93102,00105,SAR,081203,D,NRM,N,FINE,DRY		
6350	H	CG,CM,FC,GC,HT,KC,MC,PD,RM,SG		
6360	P	0000,9999		
6370	G	1200D93116,00105,SAR,081203,D,NRM,N,FINE,DRY		
6380	H	CG,CM,FC,GC,KC,MC,PD,RM,SG		
6390	P	0000,9999		
6400	G	1200D93115,00105,SAR,081203,D,NRM,N,FINE,DRY		
6410	H	CG,CM,FC,GC,KC,MC,PD,RM,SG		
6420	P	0000,9999		
6430	G	1200D93117,00105,SAR,081203,D,NRM,N,FINE,DRY		
6440	H	CG,CM,FC,GC,HT,KC,MC,PD,RM,SG		
6450	P	0000,9999		
6460	G	1200D93105,00105,SAR,081203,D,NRM,N,FINE,DRY		
6470	H	CG,CM,FC,GC,KC,MC,PD,PG,RM,SG		
6480	P	0000,9999		
6490	G	1200D93106,00105,SAR,081203,D,NRM,N,FINE,DRY		
6500	H	CG,CM,FC,GC,KC,MC,PD,PG,RM,SG		
6510	P	0000,9999		
6520	X	0145,0146,0071,0071,0000,0000,0000,0071,0146,1,26,26718,112,244	3011	ERROR: record counts do not match terminator record:

Maintenance Inspection Error Correction - MAI4405 - DORSET@maidev44.EXDL18 MAI v4.3.0.0

Load Batches [Query Restrictions](#)

Process Id	Batch Id	Admin Unit	Date Submitted	Submitted By	Initiators Reference	Filename	Outcome
2343	103206		11-FEB-2011 14:40	DORSET	Test load for documentation	SAR1605D.WEY	Fail

Re-Submit Inspection

Invalid Files Invalid Inspections **Loaded Inspections**

Batch - 103206

- Inspection - 1141894
 - Defect - 370875
 - Defect - 370876
 - Defect - 370877
 - Repair - P

Repair Details

Error: **ORA-20031: Invalid Treatment Specified.**

Category: Permanent

Description:

Treatment: /FCF

Date Repair Due:

Date Completed: Time Completed:

Maintenance Inspection Error Correction - MAI4405 - DORSET@maidev44.EXDL18 MAI v4.3.0.0

Load Batches [Query Restrictions](#)

Process Id	Batch Id	Admin Unit	Date Submitted	Submitted By	Initiators Reference	Filename	Outcome
2343	103206		11-FEB-2011 14:40	DORSET	Test load for documentation	SAR1605D.WEY	Fail

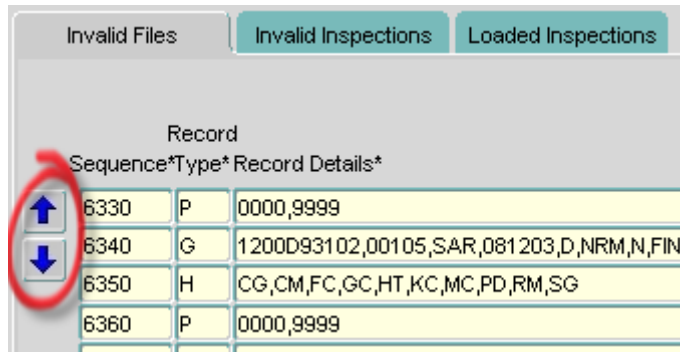
Re-Submit Inspection

Invalid Files Invalid Inspections **Loaded Inspections**

Inspection Id	Date Inspection	Inspector	Road Section	Start Chainage	End Chainage	S/D	Initiation Type	Road Surface Condition	Weather Condition	Number of Defects
1141851	03-DEC-2008 00:00	SAR	1200D93101/00105	0	492	D	NRM	DRY	FINE	2
1141852	03-DEC-2008 00:00	JXL	1200A354 P/00946	0	145	D	NRM	DRY	FINE	3
1141853	03-DEC-2008 00:00	JXL	1200A354 P/00961	0	624	D	NRM	DRY	FINE	6
1141854	03-DEC-2008 00:00	JXL	1200A354 P/00975	0	1024	D	NRM	DRY	FINE	7
1141855	03-DEC-2008 00:00	SAR	1200D90905/00105	0	470	D	NRM	DRY	FINE	1
1141856	03-DEC-2008 00:00	SAR	1200A354 P/00984	0	245	D	NRM	DRY	FINE	5
1141857	03-DEC-2008 00:00	PRM	1200F90048/00105	0	147	D	NRM	DRY	FINE	0
1141858	03-DEC-2008 00:00	PRM	1200F90045/00105	0	31	D	NRM	DRY	FINE	0
1141859	03-DEC-2008 00:00	PRM	1200F90047/00105	0	27	D	NRM	DRY	FINE	0
1141860	03-DEC-2008 00:00	PRM	1200D92317/00105	0	93	D	NRM	DRY	FINE	0
1141861	03-DEC-2008 00:00	PRM	1200D92410/00105	0	64	D	NRM	DRY	FINE	0
1141862	03-DEC-2008 00:00	PRM	1200D92330/00105	0	55	D	NRM	DRY	FINE	0
1141863	03-DEC-2008 00:00	PRM	1200D92331/00105	0	112	D	NRM	DRY	FINE	0
1141864	03-DEC-2008 00:00	PRM	1200D92446/00105	0	137	D	NRM	DRY	FINE	0
1141865	03-DEC-2008 00:00	PRM	1200D92416/00105	0	191	D	NRM	DRY	FINE	0
1141866	03-DEC-2008 00:00	PRM	1200D92445/00105	0	405	D	NRM	DRY	FINE	0
1141867	03-DEC-2008 00:00	PRM	1200F90104/00105	0	67	D	NRM	DRY	FINE	0
1141868	03-DEC-2008 00:00	PRM	1200D92452/00105	0	46	D	NRM	DRY	FINE	0
1141869	03-DEC-2008 00:00	PRM	1200D92448/00105	0	94	D	NRM	DRY	FINE	1
1141870	03-DEC-2008 00:00	PRM	1200D92419/00105	0	600	D	NRM	DRY	FINE	0

View Inspection

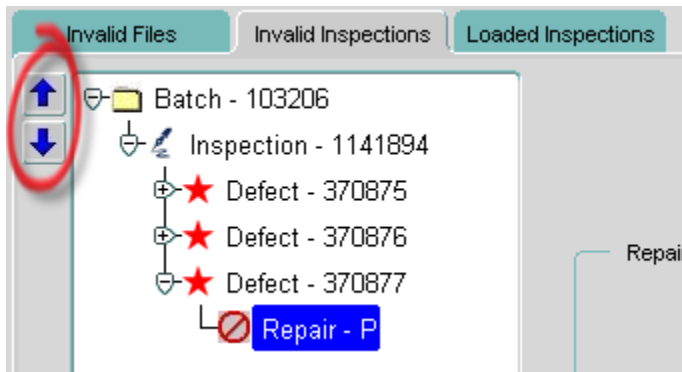
As was previously the case this form can be used to correct any errors identified and resubmit the load. In order to help find the errors in large files buttons have been added to the error correction tabs to navigate to either the next or the previous error.



The screenshot shows the 'Invalid Files' tab with a table of records. The table has columns: Record, Sequence, Type, and Record Details*. The records are as follows:

Record	Sequence	Type	Record Details*
6330	P		0000,9999
6340	G		1200D93102,00105,SAR,081203,D,NRM,N,FIN
6350	H		CG,CM,FC,GC,HT,KC,MC,PD,RM,SG
6360	P		0000,9999

Navigation buttons (up and down arrows) are shown on the left side of the table, circled in red.

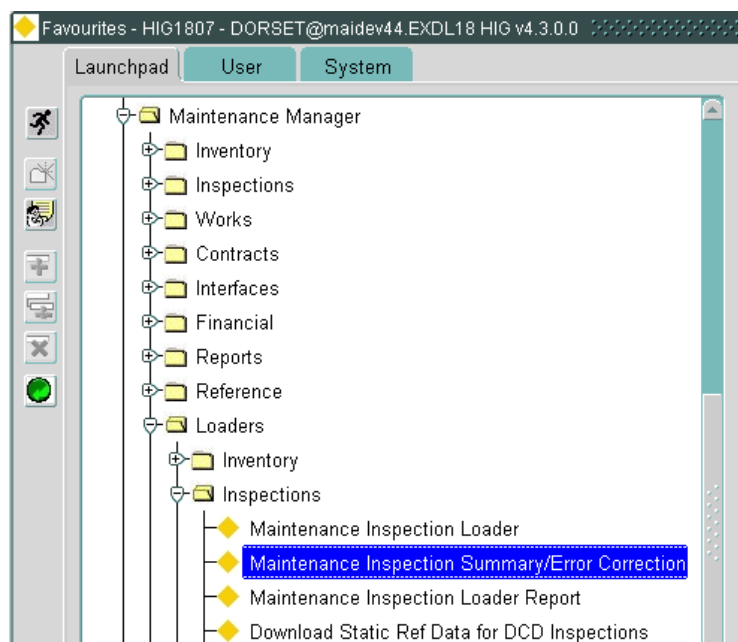


The screenshot shows the 'Invalid Files' tab with a tree view. The tree structure is as follows:

- Batch - 103206
 - Inspection - 1141894
 - Defect - 370875
 - Defect - 370876
 - Defect - 370877
 - Repair - P

Navigation buttons (up and down arrows) are shown on the left side of the tree, circled in red.

This form can also be run directly from the menu.

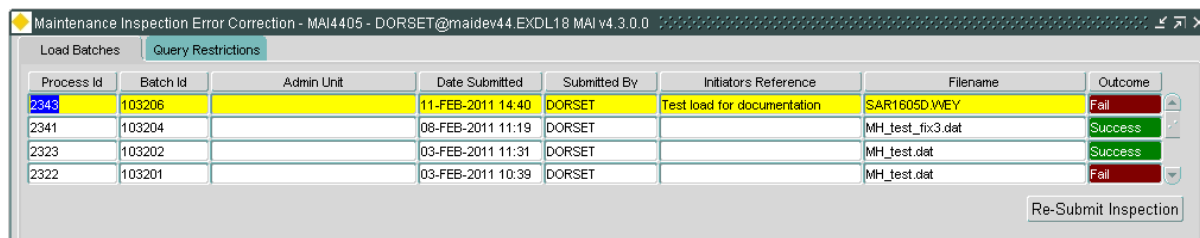


The screenshot shows the 'Favourites' menu with the following structure:

- Maintenance Manager
 - Inventory
 - Inspections
 - Works
 - Contracts
 - Interfaces
 - Financial
 - Reports
 - Reference
 - Loaders
 - Inventory
 - Inspections
 - Maintenance Inspection Loader
 - Maintenance Inspection Summary/Error Correction
 - Maintenance Inspection Loader Report
 - Download Static Ref Data for DCD Inspections

The 'Maintenance Inspection Summary/Error Correction' option is highlighted in blue.

When run from the menu this form can be used to show a summary of Maintenance Inspection Loads. The User can execute queries in the Load Batches tab in order to view the outcome of any Loads that match the query criteria entered.



Process Id	Batch Id	Admin Unit	Date Submitted	Submitted By	Initiators Reference	Filename	Outcome
2343	103206		11-FEB-2011 14:40	DORSET	Test load for documentation	SAR1605D VWEY	Fail
2341	103204		08-FEB-2011 11:19	DORSET		MH_test_fix3.dat	Success
2323	103202		03-FEB-2011 11:31	DORSET		MH_test.dat	Success
2322	103201		03-FEB-2011 10:39	DORSET		MH_test.dat	Fail

Re-Submit Inspection

The Query Restrictions tab can be used to further restrict the results of a query.



Process Details

Admin Unit:

☒ Include Successful Loads

Date Submitted: From To

Inspection Details

Road Section: Include Invalid Files: ☐

Inspector:

Initiation Type:

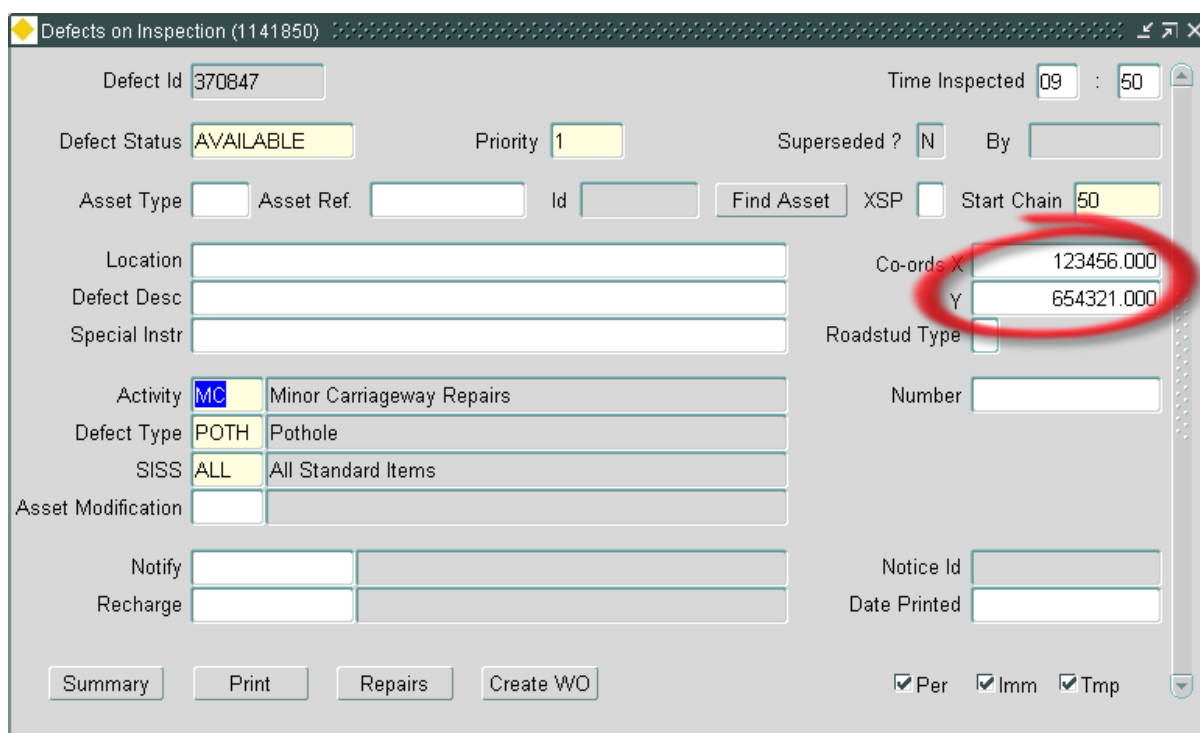
Safety / Detailed:

Date Inspected: From To

Please refer to the Maintenance Manager User Guide for further information.

3.2 Inspections Form – Defect Co-ordinates (Enhanced)

The Inspections form (MAI3808) has been enhanced to allow the Defect Co-ordinates to be entered or amended.



Defect Id: 370847

Time Inspected: 09 : 50

Defect Status: AVAILABLE Priority: 1 Superseded? N By:

Asset Type: Asset Ref: Id: Find Asset: XSP: ☐ Start Chain: 50

Location:

Defect Desc:

Special Instr:

Activity: MC Minor Carriageway Repairs

Defect Type: POTH Pothole

SISS: ALL All Standard Items

Asset Modification:

Notify:

Recharge:

Co-ords X: 123456.000

Y: 654321.000

Roadstud Type:

Number:

Notice Id:

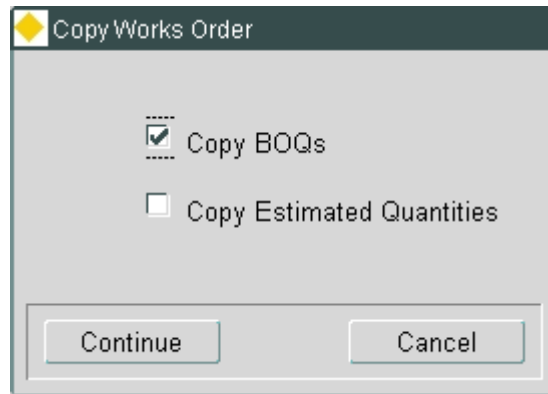
Date Printed:

Summary Print Repairs Create WO

☒ Per ☒ Imm ☒ Tmp

3.3 Works Order form – Copy Buttons (Enhanced)

When using the Copy button on a Works Order or a Works Order Line the User can now decide whether or not to copy the associated BOQs and if so whether the estimated quantities should be copied or zero estimates used on the new Works Order / Works Order Line.



A screenshot of a dialog box titled "Copy Works Order". It contains two checkboxes: "Copy BOQs" which is checked, and "Copy Estimated Quantities" which is unchecked. At the bottom of the dialog are two buttons: "Continue" and "Cancel".

If the Continue button is pressed a new copy Works Order or Works Order Line is created, otherwise if the Cancel button is pressed the User is returned to the Works Order details and no changes are made.

3.4 Works Order form – Authorise / Instruct Works Order (Enhanced)

Changes have been made to the Works Order Authorisation / Instruction process.

New “To be Authorised By” field.

A new field has been added to the Works Order form (mai3800) to allow the User to nominate another User to Authorise the Works Order.

This functionality is very similar to “Forwarding” a Works Order to a nominated User works in the Works Order Work Tray; in fact setting this field has the effect of ensuring that the Works Order would appear in the Nominated User’s Instruct Works Order Work Tray in the same way that forwarding a Works Order would.

In a similar way if a Works Order is “Forwarded” using the Work Tray the recipients initials will be displayed in “To be Authorised By” in the Works Order form (mai3800).

The “To be Authorised By” field will only accept the initials of a User that would be able to view and instruct the Works Order (see the “User can Authorise” flag in the MAI User Data form below), the nominated User’s authorisation limits are not part of this validation as they may change between the User being nominated and the User actually attempting to Authorise the Works Order.

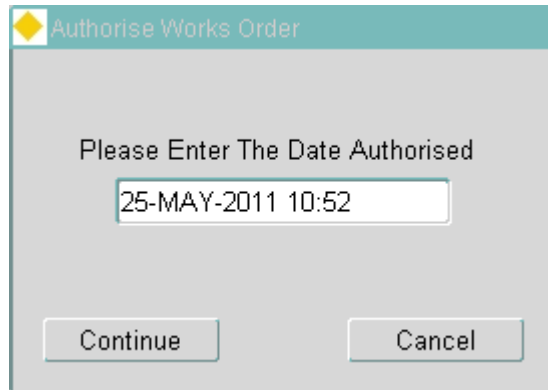
This field is only enterable up to the point that the Works Order is Authorised.

The population of this field does not restrict Authorisation of the Works Order to the nominated User, i.e. any User with the appropriate settings will be able to Authorise the Works Order.

Amended Authorisation Process.

- A button has been added to the form to be used by the User to Authorise the Works Order. This replaces the need for the User to type their own initials into the “Authorised By” field or use an LOV that only shows their own details.

When the User presses the Authorise button they will be prompted to enter the Date Authorised (defaulted to the System Date).



If the Continue button is pressed the Works Order is authorised using the date given, otherwise if the Cancel button is pressed the User is returned to the Works Order details and no changes are made.

Please refer to the Maintenance Manager User Guide for further information.

- The “Authorised By” field can no longer be updated manually.
- As has always been the case the Instruct button will first attempt to authorise the Works Order if it hasn't already been authorised.

Daily Authorisation Limit.

A "Date Authorised" field has been added to the Works Order which is populated with the system date/time when the Works Order is Authorised via

- The Works Order form (mai3800)
- The Work Orders Authorisation form (mai3848)
- The Works Order Work Tray

When the User attempts to Authorise a Works Order this date field is used to determine the total value of Works Orders already Authorised by the User on the same day.

If the value of the current Works Order would lead to the User's Daily Authorisation Limit (see the "Max value per Day" field in the MAI User Data form below) being exceeded an error will be raised and the current Works Order will not be Authorised.

Work Orders (Defects) - MAI3800 - DORSET@maidev44.EXDL18 MAI v4.3.0.0

Work Order: CLB_TEST/60 CLB_TEST/59 COPY

Interim Payment? ☒ Y Priority 1

Road Type TOP Road Id ALL_SECTIONS_GROUP Scheme Type LR

Register ☐ Register Status ☐ Status DRAFT

Contract CLB_TEST TEST CONTRACT

Contractor CLB TEST CONTRACTOR

Contact Contractor Score

Originator SYS SYSTEM ADMINISTRATOR

To be Authorised By PRM Paul Moon

Authorised By SYS SYSTEM ADMINISTRATOR

Date Raised 23-FEB-2011 18:03

Target Complete

Date Authorised 24-FEB-2011 10:03

Date Instructed

Last Printed

Date Received

Date Completed

Rechargeable

Cost Recharged

Job Number 00000

Remarks

	Estimates	Actuals
Sub Total	522.00	
Balancing Sum	0.00	
Total Cost	522.00	
Labour Units		

Defect 0 Scheme 1 Cyclic 0

Lines Standard Item Totals Contract Totals Additional Details Flexible Attributes Navigator

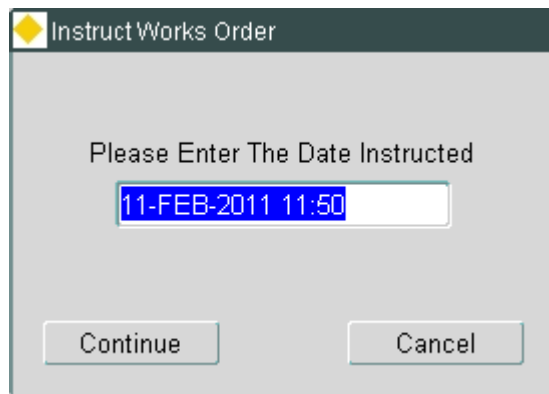
Notice Summary TMA Interface TMA Register [0] SWM Register [0] Copy Print Authorise Instruct

Amended Instruction Process.

The Date Instructed field is no longer directly enterable.

Providing the User is allowed to instruct Works Orders (see the “User can Authorise” flag in the MAI User Data form below) the Instruct button should be used to instruct a Works Order.

When the User presses the Instruct button they will be prompted to enter the Date Instructed (defaulted to the System Date).



If the Continue button is pressed the Works Order is instructed using the date given, otherwise if the Cancel button is pressed the User is returned to the Works Order details and no changes are made.

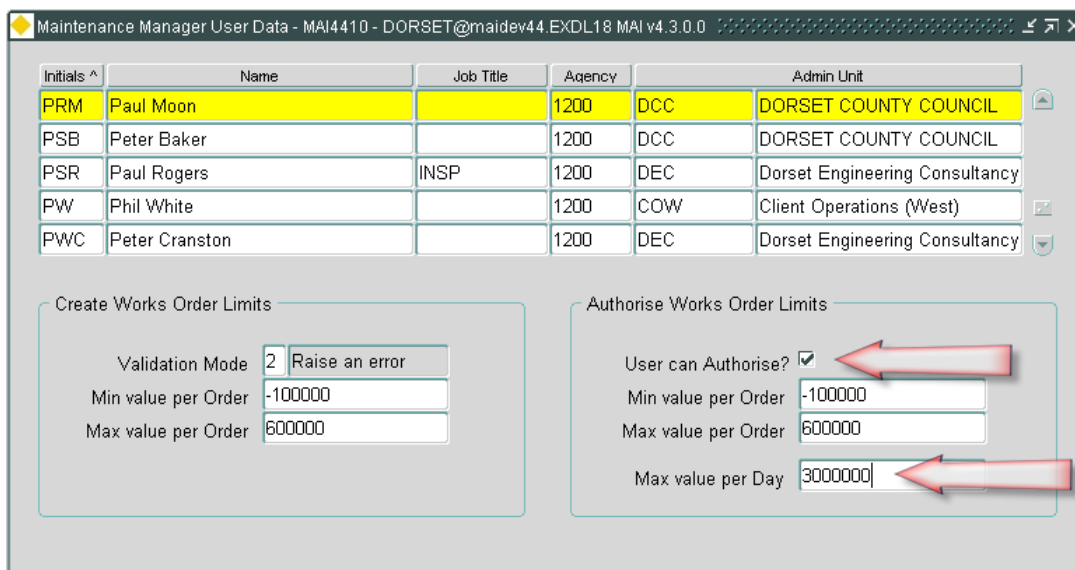
3.5 New MAI User Data form.

Two new fields have been added to the Works Order related information that can be recorded against a User.

Previously this information has been stored in the Core HIG_USERS table, however it has now been moved to a new MAI_USERS table.

A new form has been created to maintain the data stored in the new table.

A full description of the fields in this form will be given in the Maintenance manager Admin v4.4 guide but basically the fields that have been moved from hig_users function in the same way they did before, the two new fields are explained above.



Initials ^	Name	Job Title	Agency	Admin Unit	
PRM	Paul Moon		1200	DCC	DORSET COUNTY COUNCIL
PSB	Peter Baker		1200	DCC	DORSET COUNTY COUNCIL
PSR	Paul Rogers	INSP	1200	DEC	Dorset Engineering Consultancy
PW	Phil White		1200	COW	Client Operations (West)
PWC	Peter Cranston		1200	DEC	Dorset Engineering Consultancy

Create Works Order Limits

Validation Mode: 2 Raise an error

Min value per Order: -100000

Max value per Order: 600000

Authorise Works Order Limits

User can Authorise? ☒

Min value per Order: -100000

Max value per Order: 600000

Max value per Day: 3000000

3.6 Works Order and Works Order Line Comments via CIM.

The Remarks fields on Works Orders and Works Order Lines have been expanded to 1000 characters and added to the CIM file as new record types.

The Works Order Remarks field (Comments) are included in the WO file as an 07 record.

The Works Order Line Remarks field (Comments) are included in the WO file as an 11 record.

Each of these record types will be in the format:-

Character (2)	Record Type
Character (1000)	Remark

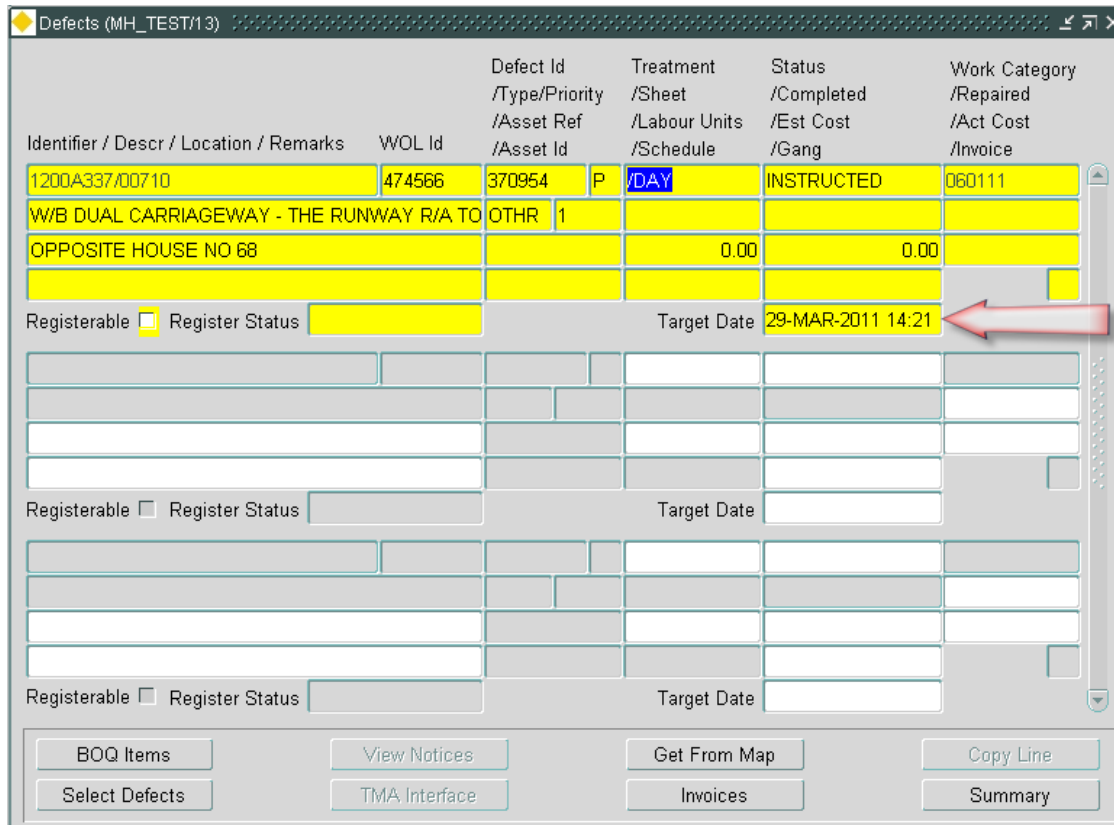
For Example:-

```
00,AMY,50907,23062010,17:28:04
05,A,109_RM/791,20,109_RM,SYSTEM ADMINISTRATOR,16062010 11:08:58,,0.00,0.00,,,,,2009
06,Auto Work Order For Defect 226872
07,Works Order remark or comment to be sent to the contractor.
10,201669,226872,,0000A10100/00010,A1010~FORE ST~~(JUNCT ANGEL RD S/B TO THE END)~N18,,,1,
11,Works Order Line remark or comment to be sent to the contractor.
15,201669,101.0675C,0,,,0,1.88,0.00,,,855960,,,,
20,4,0.00
```

In order to include these new record types in the WO file a new Product Option (CIMINCRMKS) will need to be set to 'Y'.

3.7 Works Order Line Target Date.

A new Target Date field has been added to the Works Order Lines displayed in the Works Order forms (MAI3800 and MAI3802).



The screenshot shows a software interface for managing defects. The main table has columns for Identifier / Descr / Location / Remarks, WOL Id, Defect Id /Type/Priority /Asset Ref /Asset Id, Treatment /Sheet /Labour Units /Schedule, Status /Completed /Est Cost /Gang, and Work Category /Repaired /Act Cost /Invoice. The first row is highlighted in yellow and contains the following data:

Identifier / Descr / Location / Remarks	WOL Id	Defect Id /Type/Priority /Asset Ref /Asset Id	Treatment /Sheet /Labour Units /Schedule	Status /Completed /Est Cost /Gang	Work Category /Repaired /Act Cost /Invoice
1200A337/00710	474566	370954 P	/DAY	INSTRUCTED	060111
W/B DUAL CARRIAGEWAY - THE RUNWAY R/A TO		OTHR 1			
OPPOSITE HOUSE NO 68			0.00	0.00	

Below the table, there are three rows of input fields. The first row is highlighted in yellow and contains the following data:

Registerable	Register Status	Target Date
<input type="checkbox"/>		29-MAR-2011 14:21
<input type="checkbox"/>		
<input type="checkbox"/>		

A red arrow points to the Target Date field in the first row, which contains the value "29-MAR-2011 14:21".

This field will be automatically populated when there is a Repair associated with the Works Order Line, either when the Works Order is Instructed or when the Repair is selected onto an Instructed Works Order.

The date used to populate it will be either:-

- The associated Repair Due Date.

or

- A date calculated by applying the same Interval used for the Repair Due Date to the Works Order Instructed Date. The interval used is derived from the associated:-
 - Defect Activity
 - Defect Priority
 - Repair Category

The application determines which of the above methods to use based on a new tick box displayed and maintained in the contracts form (MAI3880).

If the "Recalculate Repair Due Dates" box is ticked the Target Date will be recalculated otherwise the Repair Due Date will be used.

Contracts - MAI3880 - DORSET@maidev44.EXDL18 MAI v4.3.0.0

Contract No Name

Contractor Test Contractor

Admin Unit DORSET COUNTY COUNCIL

Remarks

Start Date Recalculate Repair Due Dates ☒ Status

End Date External Ref

Year End Date Last Work Order

Cost Code Last Work Sheet

Liquid Damages Last Docket

Retention % Last Payment on

Max Retention Total Spend YTD

Retention to Date Total Spend to Date

When the Works Order Line is not associated with a Repair the field will allow the User to manually enter a Target Date.

The Works Order Target Complete field in MAI3800 will be maintained so that it represents the latest Target Date of all the associated Works Order Lines, this will override any Works Order Target Complete calculated as a result of the Works Order Priority.

NB. In addition to the above changes a time element has been added to the Works Order Instructed Date in order to cater for intervals measured in hours rather than full days.

Work Orders (Defects) - MAI3800 - DORSET@maidev44.EXDL18 MAI v4.3.0.0

Work Order Test Target Date

Interim Payment? Priority

Road Type Road Id Scheme Type

Register ☐ Register Status Status

Contract MIKES TEST CONTRACT.

Contractor TEST CONTRACTOR

Contact Contractor Score

Originator SYSTEM ADMINISTRATOR

To be Authorised By

Authorised By SYSTEM ADMINISTRATOR

Cost Centre

Job Number

Remarks

Date Raised Rechargeable ☐

Target Complete Cost Recharged

Date Authorised

Date Instructed

Last Printed

Date Received

Date Completed

	Estimates	Actuals
Sub Total	0.00	
Balancing Sum	0.00	
Total Cost	0.00	
Labour Units	0.00	

Defect Scheme Cyclic

3.8 Works Order Line Budget Reallocation,

A new "Budget Reallocation" form has been created.

This new form allows the User to query any completed Works Order and amend the Budget on each individual Works Order Line to another appropriate budget.

The selected Budget must satisfy the following criteria:-

- There must be sufficient balance available to accommodate the Actual Cost of the Works Order Line.
- The Financial Year must be either the same as that of the original Budget or the following Financial Year.
- Must satisfy the normal validation that would be applied by the Works Orders form (MAI3800)

When a Budget change is performed the Actual Cost of the Works Order Line will be removed from the original Budget and added to the new Budget.

It is proposed that a new role is created and used to allow specific Users access to this new module via the existing module role security i.e. it is not be shipped with any module role metadata.

Budget Reallocation - MAI3620 - DORSET@maidev44.EXDL18 MAI v4.3.0.0

Work Order* MH_TEST/6 test instruct

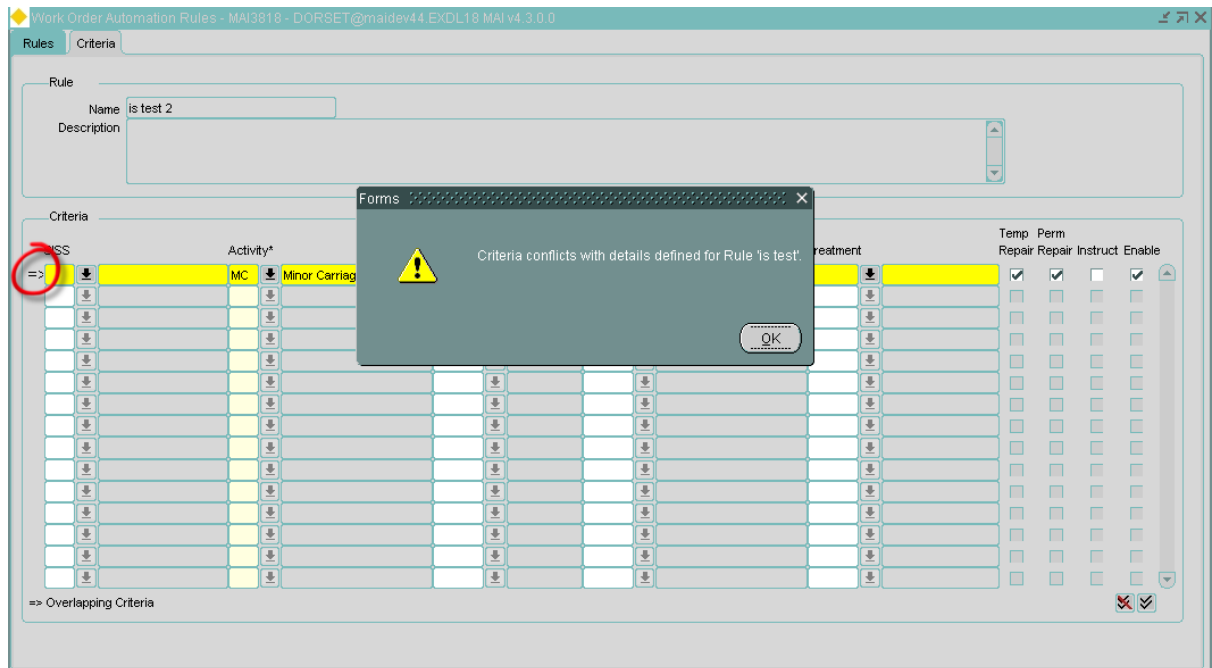
Road Type TOP Road Id ALL_SECTIONS_GROUP SchemeType LR

Contract MH_TEST MIKES TEST CONTRACT.

Date Completed 11-FEB-2011 16:49

Road Id	WOL Id	Defect Id/Type	Treatment	Estimated Cost	Actual Cost	Date Completed	Work Category*
1200A30 N/00310	474454			10000.00	100000.00	11-FEB-2011 16:49	060111

When attempting to enable criteria that conflicts, a pop-up will be displayed detailing the ruleset where the criteria has already been defined and the conflict indicator => will appear against the conflicting details.



The screenshot shows the 'Work Order Automation Rules - MAI3818 - DORSET@maidev44 EXDL18 MAI v4 3.0.0' window. The 'Criteria' tab is active, showing a table with columns: ISS, Activity*, Minor Carriag, treatment, Temp Repair, Perm Repair, Instruct, and Enable. A red circle highlights the conflict indicator '=>' in the first row of the table. A modal dialog box titled 'Forms' is displayed in the center, containing a yellow warning triangle icon and the text: 'Criteria conflicts with details defined for Rule 'Is test 2''. The dialog has an 'OK' button at the bottom right. Below the table, the text '=> Overlapping Criteria' is visible.

4 Log No. Summary

This chapter summarises all Software Changes (enhancements and new functionality) and Bug Fixes that have been made in this release.

These changes are derived from the following sources,

- Issues raised by Customers via Exor Support
- Issues raised internally by Exor

Internal Task ID	Issue	Support Log(s) And Ticket Number(s)
0107258	The Defect Location Description and Works Order Line Location Description fields have been expanded to 1000 characters. NB. When passed into the MAI to TMA interface these fields will be truncated to 120 characters in accordance with the EToN specification.	716498 727959
0107344	The Inspections form (MAI3808) has been changed to allow the User to edit the Defect co-ordinates fields.	717174 728729
0107386	Corrected a problem in the Works Order form (MAI3800) that was allowing Users to exceed their maximum Works Order value when adding Percentage Items to existing BOQs.	718152
0108072	Works Order form (MAI3800). When using the Copy button on a Works Order or a Works Order Line the User can now decide whether or not to copy the associated BOQs and if so whether the estimated quantities should be copied or zero estimates used on the new Works Order / Works Order Line.	719711
0108907	The Contracts form (MAI3880) has been changed so that when adding a new Contract Item the Standard Item used must have:- 1, A Start Date that is either NULL or predates the Contract End Date. 2, An End Date that is either NULL or postdates the Contract Start Date.	
0109137	A number of Works Order related reports have been amended to correctly display Actual Labour Units:- MAI3906 - Print BOQ Work Order (Defects) MAI3907 - Print BOQ Work Order (Cyclic) MAI3924 - List of Instructed Work by Status MAI3970 - Print Gang Work Orders	722555
0109307	View Cyclic Maintenance Work (MAI3804), the BOQ Description has been expanded to 254 Characters to avoid truncation errors.	725361
0109606	The Asset Type LOV in the Inspections form (MAI3808) has been amended to allow it to work for Asset Types that are located on a conflated network.	726232

Internal Task ID	Issue	Support Log(s) And Ticket Number(s)
0109946	<p>Works Orders forms (MAI3800 and MAI3802).</p> <p>Changing the Item code on a BOQ can cause problems, for example:- When entering Actual Costs, and the Item Code is changed, the Estimated Costs may fall outside of the Quantity Banding implemented by the new Item Code. When changing the Item Code of a BOQ that has a Percentage Item attached it is possible that the new Item Code does not allow Percentage Items.</p> <p>A change has been made to prevent the update of a BOQs Item Code if the Works Order has been Instructed or the BOQ has a Percentage Item attached. If however a Defect/Repair is selected onto an Instructed Works Order and the Repair has an associated BOQ with an Item Code that is not valid for the Contract on the Works Order the User will be able to change the Item Code to one that is valid for the Contract.</p>	726940
0110020	<p>The original error correction screen (MAI4405) introduced with the new MAI Inspection Loader in 4300 has been rewritten to make it easier to use for error correction and to allow it to be used as a Loader Summary screen with a filter block so that the user can review the files that have been loaded and more easily see what errors occurred and/or what inspections were created as a result of the load. The form can be called from the process log for an individual load or from the menu.</p>	
0110036	The Attach Defects button has been re-introduce in the Inspections by Group form (MAI3899) having been removed in a previous release.	727417
0110178	The Inspection Initiation Type can now be up to 10 characters in length (previously 3 characters).	727985
0110227	<p>Changes have been made to the Inspections form (MAI3808) to prevent the user from manually setting certain Status codes.</p> <p>Statuses SELECTED and INSTRUCTED (and any additional status codes based on the same feature flags) have been excluded from the list of statuses that can be manually set by the user as these Status Codes are exclusively intended to indicate that a Defect repair has been included on a Works Order, the system will automatically set these Statuses when the repairs are selected onto a Works Order.</p> <p>The status COMPLETED (and any additional status codes based on the same feature flags) has also been excluded from the list of statuses that can be manually set by the user. Users should be entering the repair completion date to complete Defects.</p>	728196
0110419	The Automatic Works Order functionality has been enhanced to allow the specification of SISS Code in the Criteria tab of the Automatic Works Order Rules form (MAI3818).	
0110430	The Print Works Order (Priced) report (MAI3840) has been modified in line with the changes made to Defect Attributes in the 4300 release.	
0110474	Changes have been made to the CIM Automation process to allow the Input FTP folder and the Archive FTP Folder to be on different FTP servers.	728632
0110575	Defect Selection in the Works Order form (MAI3800) has previously had a limit of around 5000 defects/repairs that match the specified criteria before an error is raised. Changes have been made to remove this limitation.	729347
0110584	<p>Changes have been made to the Works Order form (MAI3800) Instruction process. At no point is the date instructed field directly enterable, the Instruct button should be used to instruct a Works Order. When the user presses the instruct button a popup is displayed allowing them to alter the defaulted sysdate, once continue is pressed the WO is instructed using the date given.</p>	729394 8001014509
0110615	The Date LOV has been corrected for the Date/Time Created field in the Defect From Locator form (MAI3807).	729836 729606

Internal Task ID	Issue	Support Log(s) And Ticket Number(s)
0110619	Changes have been made to the Works Order form (MAI3800) Instruction process. At no point is the date instructed field directly enterable, the Instruct button should be used to instruct a Works Order. When the user presses the instruct button a popup is displayed allowing them to alter the defaulted sysdate, once continue is pressed the WO is instructed using the date given.	729533
0110635	Corrected the checking of Notifiable and Rechargable organisations in the Maintenance Inspection Loader so that the organisation type is considered when validating the organisation code from the load file.	729645
0110658	A number of error messages used by the Maintenance Inspection Loader have been altered to provide a better description of the problem.	
0110686	The Works Order form (MAI3800) has been changed so that the user can highlight and copy the Works Order Number. The existing rules regarding the editing of the Works Order Number still apply.	
0110691	Corrected an issue in which The Maintenance Inspection Loader Error Correction form (MAI4405) raised repeated errors (in an infinite loop) when the Batch is highlighted in the tree and the User pressed the "Re-Submit Inspection" button. The form now asks the User to select an Inspection to be resubmitted and returns focus to the tree.	8001012703
0110698	Corrected and issue raised against the new Maintenance Inspection Loader when loading inspections against Sections with a decimal length. The loader can now deal with the existence of more than one Defect Status Code with feature flag 8 set to 'Y' (SUPERSEDED). Where this situation exists the status code with the highest sequence number will be used by the loader when a Defect is superseded. Please ensure that the appropriate status code has the highest sequence number.	729524 729191 729695
0110716	Improved error handling on the Non-Primary AD attribute blocks on NM0105 (Elements), NM0110 (Groups of Sections) and NM0115 (Groups of Groups).	8001019779
0110785	Increased Road Description length for Work Order Templates to resolve error when road description was over 80 chars	8001034321
0110789	Corrected an issue in the Maintenance Inspection Loader that was leading to:- 1, Defects being incorrectly marked as completed when one or more of their associated Repairs are not complete. 2, Defects being incorrectly marked as not completed when all of their associated Repairs are complete.	8001026636 8001030125
0110793	Corrected the calculation of Repair Due Dates in the Maintenance Inspection Loader to use the Inspection Date rather than the Load Date.	8001036918
0110803	Fixed the following problem in the Inspection Form (MAI3808):- When entering a completion date for a repair in the inspections form, if the completion date is the same as the inspected date get an error saying you're trying to enter a repair date before the inspected date.	8001036919
0110817	Inspection Loader - Corrected an issue that causes the incorrect calculation of BOQ Quantity when a Treatment Model is being used in conjunction with a Multiplier.	8001031516
0110819	Inspection loader has been modified to identify WO creation and WO instruction success/failure separately. Messaging has been changed to reflect this. So if a WO is successfully created but instruction fails, the process log will now contain a message similar to the following example: Created Work Order CLB_TEST/71 Failed to instruct Work Order CLB_TEST/71 Warning: ORA-20048: All Work Order Lines Must Be Priced. Also, the failure alerts produced will indicate that there was a failure to instruct the work order, rather than just specifying that the work order process had failed	

Internal Task ID	Issue	Support Log(s) And Ticket Number(s)
0110822	<p>When loading an Inspection file with Works Order Automation enabled, if AUTH_OWN user option is set to 'Y', message 'Warning: ORA-20075: Users are not allowed to authorise works orders they have raised.' appeared in the Process Log and the Work Order was not authorised.</p> <p>The Inspection Loader module has been modified to recognise AUTH_OWN user option</p>	
0110827	Inspection Loader - The validation of the record sequence within the file has been changed to allow an I record to follow K and L records.	8001041573
0110833	<p>Inspection Loader - The time element has been removed from the processing that checks the Inspection Date from the file against previously loaded Inspections. This has been done so that the loader does not raise the error message "Error : Inspection Date less than previously loaded inspection. : Correct the inspection date." when Inspections with the same Activites, carried out on the same Section on the same day are loaded out of sequence.</p>	8001018983 8001029848 8001031292 8001032054 8001036917