



Release Notes

eLORA

Date: 21-Mar-18

Software Application

Version: 4.0.1

Release of V4.0.1 which incorporates several bug fixes to eLORA.

The bug fixes addressed in this release are:

- Issue 3762: Cannot change Use Rates
- Issue 3763: Reset Use Rates not working properly
- Issue 3764: Problem with display of Weight on the Main Form
- Issue 3765 - Occasional errors on the Decision Form

Released: 21-Mar-18

Issue No: 3765 Occasional errors on the Decision form

Fixed the Decision Form code to prevent errors when only Cost Threshold screening is performed and no Economic or Non-Economic analysis exists.

Issue No: 3764 Problem with display of Weight on the Main Form

Added Weight field to main screen and fixed Edit Item Details so that Weight is saved.

Issue No: 3763 Reset Use Rates not working properly

Fixed the code to ensure that Use Rates are correctly reset for each item in the selected System when selecting the Reset Use Rates option.

Issue No: 3762 Cannot change Use Rates

Fixed the code to show the Set Use Rates form when the option is selected.

Software Application

Version: 4.0.0

Release of V4.0.0 which incorporates several major changes to eLORA.

This includes the introduction of:

- a new licensing mechanism,
- ADUMS,
- a few enhancements, and
- software bug fixes.

Released: 12-Sep-17

Issue No: 3631 Need to modify software licensing to allow more functionality with ADUMs

The licensing algorithm was changed to allow more functionality with ADUMs. New keys will be required with the release of this version.

Issue No: 3627 Implement an alternative DB access and security system

Implemented new forms and functions to support the new Alternative Database Management System. If ADUMS is not configured for use, eLORA will operate as it previously did. Full operation details are contained in various LES newsletters and blogs.

Software Application

Version: 3.3.1

Modified to allow for compatibility with LE1 backend v1.8.

Released: 26-Oct-15

Issue No: 2620 Problem with Economic Details edit form

Fixed the problem whereby the first Economic Analysis against an item was not being saved.

Software Application

Version: 3.3.0

Modified to allow for compatibility with LE1 backend v1.8.

Released: 09-Feb-15

Issue No: 2200 Implement latest licensing support

Implemented the latest licensing support

Issue No: 2163 eLORA crashes during start-up on some computers

Fixed the problem which was causing eLORA to crash during start-up on some computers (those whose HDD have a serial number with an odd number of characters).

Issue No: 2029 Problem with Economic Details edit form

Fixed the problem that if a first Economic Analysis is done against an item and saved, that analysis is not visible when you try to revisit it.

Software Application

Version: 3.2.1

Modified to allow for compatibility with LE1 backend v1.8.

Released: 10-Apr-14

Issue No: 1896 The Report Options form needs a Cancel button

A Cancel button has been added to the Report Options form (as used by the System LORA Report and the Item LORA Report).

Issue No: 1894 Exiting the Perform LORA form always causes Icon refresh

Modified the code so that Main form Structure tree icons are only updated if data has actually changed after selecting Perform LORA.

Issue No: 1893 Problem with System reports on very large systems

Although the error message refers to 'Object not found', the actual problem is that the report's size is causing an 'Out of memory' error which also gives a misleading error message. The system report has been reworked in an effort to make it run more efficiently and to reduce the number of pages generated, eg by putting two graphs per page, however it still runs out of memory on very large systems. The individual item report has also been modified because of some commonality between the system and item reports, eg the non-economic section appears before the economic section.

Issue No: 1892 Make compatible with V1.8 Database backend

The code has been modified to make eLORA compatible with v1.8 backend database.

Software Application

Version: 3.2.0

Recompiled in VS2012 for SQL Server 2008 compatibility.

Released: 23-Jan-14

Issue No: 1712 Problem when validating licence key in non Australian region

Modified the code for the licence expiry date validation check to make it independent of region .

Issue No: 1711 Need to remove value lookups from LSABlank

1. The ControlData database exists as an MSAccess database in the eMRD installation folder;
2. Some other control and reference tables that used to live in the LSABlank database have been moved to the ControlData database, eg the Lookups table which feeds the allowable values Picklist form (this has been done in an effort to minimise the number of times that the structure of the LSABlank database changes); and
3. Because of the importance of the data in the ControlData database, it SHOULD NOT be messed with.

Issue No: 1710 Some improvements to the SQL Server browsing form

Modified the SQL Server / Database browsing form with the following changes:

1. the 'Add to List' button has been moved to just under the textbox where a specific Server name is entered and is only required to add that specific server name to the server/database tree;
2. the 'Browse for servers' radio button now browses as soon as the button is selected;
3. flashing prompts advise the user that they need to select a server from the list or a database from the list;
4. when a new database is to be created and a server is selected, the existing databases on the selected server are displayed allowing the user to:
 - a. select an existing database (which will be overwritten); or
 - b. enter a new database name in the textbox.

Software Application**Version: 3.1.0****Released:** 05-Jul-13

Issue No: 1602 Need to change database version compatibility

Modified the code to recognise the new database version number (v1.7).

Issue No: 1601 Need to update user-count and licence checking code

The code for checking LES Tools licensing has been modified to support Windows 8.

Software Application**Version: 3.0.4****Released:** 27-May-12

Issue No: 1244 Further options required for Item and System reports

Modified the Report Options form to enabled selection of Economic, Non-Economic and Decision details parts of the Item and System reports.

Also modified the reports to respond the new selections.

Software Application**Version: 3.0.3****Released:** 22-Apr-12

Issue No: 1227 Require more Sensitivity graph options

Added graphs to view the Sensitivity to changing Item Operating Time and Shipping Costs.

Modified the Item and System LORA reports to include the graphs.

Added a new pop-up form to allow the user to choose the following:

1. whether or not to include Item Comments in the reports;
2. which graphs to include in the reports; and
3. whether to print the graphs in black and white or in colour.

Issue No: 1217 Error 0

Amended the code to prevent the Error 0 occurring after clicking on some FLCNs.

Issue No: 1216 Unhandled Exception Error

Amended the code to prevent problems after cancelling from the Multiple System Links Window.

Issue No: 1215 Functional Pane Displays Top FLCN Many Times

Modified the code for loading the FLCN tree to prevent multiple occurrences of the same FLCN(s).

Issue No: 1212 Need to change database version compatability settings to 1.6 for .NET version of eLORA

Code was modified to make eLORA (.NET) compatible with DB version 1.6.

Software Application**Version: 3.0.2****Released:** 06-Oct-11**Issue No:** 1140 Problem when running on 64 bit Windows platforms

After much investigation it was found that there were two problems - one relating to the ability to list SQL Servers and their databases and another relating to opening MSAccess databases. There was yet another issue with executables created under a 64 bit Windows environment not working correctly on 32 bit Windows platforms.

Issue No: 1131 eLORA Economic analysis calculation.

Fixed the bug causing incorrect calculated values when an initial Economic Analysis is performed.

Issue No: 1122 Need to know how many users and who are using Server Licence

Added a menu option under LES Tools to show how many server licences are in use and the following details of the licences in use:

1. UserID;
2. Application is use (will be eLORA);
3. The version of the software in use;
4. The name of the computer on which the application is running; and
5. The date/time when the application was started.

This form also appears when starting the application if the number of licensed users has been reached, thus allowing the user who cannot start the application to determine which users are using the licences.

NOTE: this functionality only relates to server licences - not to stand-alone licences.

Issue No: 1100 Spell Checking

Added spell checking capability to narrative fields - Remove, Repair and Recover Reasoning fields in the Non-Eco form and Decision and Comments fields on the Decision Tree form.
The spell checker is accessed by pressing F7 while editing one of the above fields.

Software Application**Version: 3.0.0**

First .Net version

Released: 07-Jul-11**Issue No:** 1054 Sensitivity Analysis graph required on LORA for a System Report

This will be included in the .NET version to be released later in 2011.

Issue No: 1029 eLORA Run time error

This would appear to be a case of opening a database that was not up to date from a schema perspective.
Added database version checking code to avoid this situation.
Implemented in the .NET version (v3.0.0)

Issue No: 1013 Cost threshold screening value calculated on report

Modified the reports to include the cost threshold screening value.
Implemented in the .NET version (v3.0.0).

Issue No: 501 SQL TEST - Enhance SMR Code format

The .NET version supports 6 character SMR codes.

Software Application**Version: 2.01.0000****Released:** 12-Mar-09**Issue No:** 374 Modify eLORA to standard and comply with MIL-STD-1390D

Software Application**Version: 2.2.11****Released:** 22-Apr-12**Issue No:** 1211 Need to change database version compatability settings to 1.6

Code was modified to make eLORA compatible with DB version 1.6.

Software Application**Version: 2.2.10**

SQL Server Version

Released: 30-Jun-11**Issue No:** 1077 Problems with System Reports and Decisions storage.

Restructured the database to support LCN-unique Final SMRs and Decision Comments. Modified the Decision Form so that Final SMRs and Decisions can be stored against individual instances of a Part Number or, optionally, against multiple instances. Also modified Item and System reports to support the new database structure. Modified the logic which indicates the state of progress of LORA analysis on an LCN (the state is displayed on the Physical tree as an icon against the LCN and is also displayed on the Perform LORA form) .

Issue No: 1055 Remove Item Comments from reports

Modified the functionality of the LORA Item and System reports so that Item Comments can be optionally included / excluded.

Issue No: 1053 Problem with Decision Tree when based on limited input

Amended the Decision Tree form code so that it works correctly for situations where it is a first decision or where there is no Economic or Non-Economic analysis.

Issue No: 1050 'Type Mismatch' error generated in Economic details form

Amended the code to read QtyPerSystem correctly when performing Calculations in the Economic details form.

Issue No: 1049 Problems with new Update LSAR screen

Corrected the code to prevent errors when writing ItemCost to a SQL Server database and corrected the ItemCost field label on the Update LSAR form.

Issue No: 1020 Removal of analysis/status

Modified the code so that the 'N' icon is displayed in the physical tree whenever an item's candidate status is 'N' even if old analysis still exists in the database.

The item will not appear in analysis reports and Lora functions will not be able to be performed on it until the status is set back to 'Y'.

Issue No: 955 Data errors in LORA printouts

Modified the reports such that the item's header details will display the Unit Cost and MTBF stored against the item. Another Unit Cost and MTBF is displayed in the Latest Economic Analysis portion of the report (if an Economic Analysis has been performed).

These header values (item's values) are set as follows:

1. initialised to values stored in the LSAR tables;
2. edited by the Edit Item Details form in eLora; and
3. updated by the Economic Analysis form when the Economic Analysis is saved and the Economic Analysis is flagged as being complete.

that were imported initially from the LSAR to use the Economic screen's latest UnitCost and MTBF.

The Economic Analysis values are initialised to the item's values, but can be changed on the Economic Analysis form. If the Economic Analysis is saved as being complete, the Economic Analysis Unit Cost and MTBF are copied to the Item's values.

Issue No: 949 Item cost setting enhancement

Modified the behaviour of the Economic Analysis form so that a system level record can be created to store Documentation, S&TE, TPS and Training settings for a system.

For v2.2.10, if this record does not exist it is created when saving the details for the first item analysed in the system after using v2.2.10.

If the system record is being created, the analyst is given the option of standardising (or normalising) the supplementary details of all previously analysed items in the system.

(Inspection of some databases shows inconsistencies in the supplementary data entered against different items within a system).

NOTE: this implies that the supplementary details entered should be as comprehensive as possible to give the best quality of system data.

After this record is created, the first analysis on other items in the system will result in their supplementary data being initialised to the system values.

Software Application**Version:** 2.2.9

SQL Server Version

Released: 02-Feb-11**Issue No:** 1018 Include LSABlank database version check similar to eMRD

Amended the code to check for compatibility between the eLora program and LSABlank.

Also updated the splash screen to show the LSABlank version with which the program is compatible.

Issue No: 1017 Problem with Transport From/To form

Split the Transport form into 2 forms. The first form can be used to enter a distance and a cost per km.

The second form can be called from the first to select 2 place names to obtain corresponding distance between them.

Place names which are typed in are saved together with the entered distance between them.

Issue No: 1015 Report format change

The System LORA Report and Item LORA Report have been modified to suppress headings and data for maintenance echelons which are not defined for a Project, eg, if only 2 levels are defined, then L3 and L4 are hidden.

Issue No: 964 Additional option to apply LORA to other similar items

The form used to select others systems with which the item is associated only allows for non-economic reasoning to be cloned, not economic analysis values.

The form has been modified to use check boxes with a 'Select All' button and an 'Invert Selections' button.

Issue No: 963 eLORA not retaining decimal MTTR values

This Issue closed by completion of Issue 947.

Issue No: 956 Request for change of behaviour when exiting

Modified the code so that only Super Users are asked if they want to compact the DB on closing out of eLora.

Compaction and backing up of the database is now done only by the eMRD Tool because it is the major database management application.

Super Users are reminded of this when exiting eLora.

Issue No: 953 Loss of visibility of economic values.

If an item is linked to multiple systems, one system must be chosen as the Lora System for analysis purposes and the analysis can and MUST be performed only in that Lora System.

Modified the code for the main screen so that an item's analysis can be viewed when the item is selected from a system other than the item's Lora System.

Issue No: 952 Decision screen enhancement

The Decision Tree has been modified to allow for a history of decisions.

Changes from one decision to another are not highlighted, but the user can select a decision from a list of dates to see what previous decisions were.

This solution required the addition of several new tables and other changes to the underlying database.

Issue No: 951 Problem with item cost.

This issue closed by completion of Issue 947

Issue No: 950 Problem with shipping costs

Modified code and database fields to allow for fractions.

Issue No: 947 Issues with MTTR and MTBF

Modified table field definitions to store real numbers.

Modified the code to allow MTBF and MTTR (and UnitCost and UnitWeight) to optionally be written back to the LSAR on completion of an item's analysis.

Issue No: 918 Error when clicking on the top level Functional

The error only occurs when there are more than 32767 items in the Physical tree and occurs when the Use Rates are being calculated.

This error is generated due to a limitation within VB6 that the treeview Count property returns a negative number if the actual count is greater than 32K.

Issue No: 860 eLORA Compact and Backup error

Amended the code to use the correct username and password when performing a compact and backup.

Software Application

Version: 2.2.8 SQL Server Version

Released: 17-Mar-10

Issue No: 847 Error when performing Cost Threshold Calculation

Corrected the SQL statement causing a problem in the Cost Threshold Calculation when in a SQL Server database.

Software Application

Version: 2.2.7 SQL Server Version

Released: 21-Jan-10

Issue No: 775 Exchange rate date needs to be able to entered manually

Software Application

Version: 2.2.6 SQL Server Version

Released: 16-Nov-09

Issue No: 725 Require currency conversion and base date support.

Code modified to support item cost input currencies and base date for the conversion factors.

This update consists of:

1. Two forms for managing the exchange rates;
2. An extra button and display field on the Configuration form; and
3. Changes to the Item Edit form to allow input of Item Cost as a foreign currency.

The exchange rates management forms are:

1. A form which lists all the currencies in the currencies table, their currency name and the exchange rate, and
2. A form for adding/editing the currency details.

The changes to the Configuration form are:

1. A button calling up the currency list form, and
2. A field which displays the date on which the currency details were last updated.

Issue No: 704 Problem with LORA Item Details report graph

Changed the graph line weights from 1pt to 2pts and changed all the fonts on the reports graphs from MS San Serif to Arial.

Issue No: 703 Lora Candidates report producing an error on SQL Server DBs

Changed the SQL string for the LORA Candidates report to use DISTINCT instead of GROUP BY.

Software Application

Version: 2.2.5

SQL Server Version

Released: 31-Aug-09

Issue No: 688 The Decision Tree form does not have a logical process flow

The Decision Tree form was redesigned to provide a layout that is more in line with the decision making process and more intuitive to use.

Issue No: 687 Automatic Use Rate determination should ignore 'CANCELLED RECORDS'

The code was modified to ignore LCNS with a nomenclature of CANCELLED RECORD for the purposes of determining the number of items in a system.

Issue No: 686 The LORA Report for a System is missing the Economic results

The redesign of the LORA Report for a System has been completed to include Economic analysis results and to prevent duplication of Non-Economic question narratives.

Issue No: 479 Require ability to select Maritime, Land or Joint in Configuration

The project Configuration form has been modified to allow selection of Maritime unique and Army unique echelon codes as well as O for Organizational Level. The underlying database structure is automatically modified (if necessary) and the selected code is applied to all existing MLC/SMR codes.

Issue No: 22 Error in Econmic Decision Tree Occurances

SMR creation code modified to suit variable numbers of echelons.

Software Application

Version: 2.2.4

SQL Server Version

Released: 18-Aug-09

Issue No: 668 Cannot copy and paste using CtrlC and CtrlV in Non-Eco form

Modified the Non-Economic form design to remove shortcut keys associated with eLORA menu options. This allows Ctrl-C and Ctrl-V to regain their normal Windows functionality.

Issue No: 667 Problems with LORA Report

Corrected the code involved in generating the LORA report to prevent duplications of non-economic question details and to ensure that Recoverability text is printed.

Software Application

Version: 2.2.3

SQL Server Version

Released: 19-May-09

Issue No: 563 Need to update SQL Server selection as per eMRD Tool

The code has been modified to provide the same SQL Server selection functionality as in the eMRD Tool. See Issue 541 for solution.

Issue No: 395 Error when adding new item in eMRD after using eLORA

When an LSAR is first opened by eLORA, eLORA appends some fields to table tblLSAR_XB. The fields by default are created with the Required property set to True, meaning that the new fields cannot contain a Null value. The Required property cannot be changed retrospectively by eMRD or eLORA and so eLORA was modified to create the field as Not Required when creating/appending the field.

Software Application**Version: 2.2.0000**

SQL Server Version

Released: 18-Mar-09**Issue No: 506** SQL TEST - Error when Printing LORA Details

Corrected various SQL statements to allow the LORA Details report to run properly.
Also re-enabled the Print Latest LORA menu option to allow a full system to be printed.

Issue No: 505 SQL TEST - Use Rate

Corrected the code to ensure that use rates are saved after being edited.

Issue No: 504 SQL TEST - Mismatch between SMR Code displays

LORA SMR is the SMR as determined by eLORA based on Economic and Non-Economic data.
The LORA SMR can be altered by the analyst in the Decision Tree form and this SMR is written to an eLORA table and to the LSAR (HG table).
The two fields on the main form should be the same unless the SMR has been modified in the LSAR by some other program, eg eMRD.

Issue No: 503 SQL TEST - LORA System Link does not display all links

This is not an error.
If the item is linked to only one system, that system will be the eLORA System Link and will be the one used during LORA.
If the item is linked to multiple systems, the analyst must choose one of those systems for use during LORA.
The eLORA System Link displays the system to which the item is linked as far as eLORA is concerned.
An item displayed in red text is not linked to the currently selected system.
If its linked system has not been analysed then the LORA System Link will not be set for that item and the LORA System Link displayed will be blank.

Issue No: 502 SQL TEST - Some fields not populated on the Main Screen

Modified the code to display Mech/Elect and MTTR fields on the main screen.

Issue No: 500 SQL TEST - Enhance non-economic question**Issue No: 499** SQL TEST - Error when trying to run the decision tree

Corrected an SQL statement that was causing this error.

Issue No: 498 SQL TEST - Error when completing calculations

Corrected an SQL statement which was causing this error.

Issue No: 497 SQL TEST - Spares Pipeline calcs seem incorrect

If MTBF is set to an unrealistically low value, the Spares Pipeline calculation produces an error which is represented by the value -1.
However the Poisson calculation function was modified to allow higher numbers to be calculated before an error occurs.

Issue No: 496 SQL TEST - STE Costs do not seem correct

Added Tool Tip Text and validation code for the S&TE Upkeep Rate field to highlight the fact that it is a decimal fraction and not a whole number cost.
The equations code was correct.

Issue No: 495 SQL TEST - Application crash when completing an analysis

Corrected an SQL statement which was causing a crash when saving an analysis.

Issue No: 494 SQL TEST - Problems when using non-economic considerations

When appending considerations each consideration is now separated by a semi-colon and a space.
Corrected an SQL statement to fix the crash problem when adding a new consideration.

Issue No: 493 SQL TEST - Application Crash when calculating items

Corrected an SQL statement which was causing this error.

Issue No: 492 SQL TEST - MTTR only allows entry for max of 1000 hrs

Issue No: 491 SQL TEST - Copying to and from fields in the non-economic screens

Copying and pasting can only be performed when in Edit mode (ie creating a new analyse).
This behaviour is independent of the type of database being used.
I suspect the tester was not in Edit mode when reporting this problem.

Issue No: 490 Modify eLORA to ensure compatibility with SQL Server

eLORA has been converted to operate with both MSAccess and SQL Server 2005 back end databases.

User Manual

Version: 2.0.0

Released: 18-Mar-09

Issue No: 490 Modify eLORA to ensure compatibility with SQL Server

eLORA has been converted to operate with both MSAccess and SQL Server 2005 back end databases.

Software Application

Version: 1.02.0000

Released: 12-Mar-09

Issue No: 37 Program exits unexpectedly

This option was removed because it should only be performed in MRD.

Issue No: 36 Program exits unexpectedly

Issue No: 35 Report Error

Issue No: 34 Program Freeze (Hour Glass)

Issue No: 33 System for Reports Box

Issue No: 30 Reporting (Aesthetics)

Issue No: 28 Economic Analysis Effective Date

Issue No: 26 LSARC1

Issue No: 25 Where maintained

Issue No: 24 Calculate Whole System Error

Issue No: 23 Determine Quantities Per System

Issue No: 21 Differences in Final Economic SMR

Issue No: 20 Program Quits unexpectedly

Issue No: 19 There is a File | New Option

Issue No: 18	Error message when Trying to add an Alternative
Issue No: 17	Can't Edit Alternate Details
Issue No: 16	Find does not Work
Issue No: 15	Intermittant Error when 'Calculating Whole System'
Issue No: 14	Setting item as 'Prime'. 'Make Prime'
Issue No: 13	Incorrect outcome when selecting/changing candidate status of an assembly/Item
Issue No: 12	Crash when Trying to Edit Structure Detail