

## Message from the Director



### LSDL Tools Make a Big Splash at Spring Conferences

To kick off the second quarter we attended and had a demonstration booth at the Mission Support Conference 9-12 April. There was significant interest in the tools, especially as it interfaced with Raytheon's ReadLog tool. The conference highlighted the Raytheon direction in the mission support business.

This third annual Mission Support Conference highlighted Raytheon's capabilities to advance Raytheon's Mission Support position. As Raytheon Chairman and CEO Bill Swanson said in an opening video at the conference, "I believe Mission Support is very important to our company,... it is part of our core defense strategy," I reflected on how our LSDL products are an important piece of Raytheon's Missions support strategy and realized that our tools are key to its success.

We held our quarterly iLog, partners meeting 1-4 May in Dublin Ireland. During these meetings, our quarterly projections and future plans for the development of our joint product were discussed and agreed upon. A primary reason for meeting in Dublin was to meet with senior representatives from Parallel Graphics. There is a need for a 3D graphics capability and Raytheon Missile Systems has shown an interest in using this tool on the JAVLIN launcher program. We discussed the possibility of integrating Parallel Graphics 3D tool into EAGLE and iLog. Pictured below are the iLog partners and Connell Gallagher the President of ParallelGraphics along with Paul Donnelly - Vice President Business Development.



C. Gallagher, M. Robinson, P. Donnelly, W. Hawkins, A. Zucco, G. Davies, M. Sprague

On 7-9 May we attended the AIA conference in Clearwater FL. Many senior representatives from Industry and DoD attended and spoke on topics such as Partnering and PBL contracts. There was a concern that PBL's may be a thing of the past and not getting the upper echelon support it needs to succeed. All in all it was a spirited conference and there were a lot of good action items taken.

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Following the AIA conference in Clearwater was the S1000D conference 10-11 May. We had a booth showing our S1000D capability. Without a doubt, Raytheon had the most traffic and interest in our iLog and EAGLE tools shown. Of the 20 some booths, the Raytheon tools were displayed in three of them. The interest in the products was high and will certainly result in new sales. During the conference there were significant discussions surrounding the lack of firm direction from the OSD on the use of S1000D and declaring it as a standard for technical data.

Logistics Business Systems (LBS) and Raytheon Technical Services Company are pleased to announce that L3-JOG Lexington, KY have selected the iLog integrated suite of tools for the production and delivery of their ILS deliverables. iLog will be used to maintain Logistics Support Analysis Records (LSAR) and deliver S1000D Class 5 IETMs. This new capability will offer the maintainers in the field access to the latest in electronic manuals with built in diagnostics, supply chain integration and web enabled FRACAS, giving a fully integrated solution to maximize the availability of the systems in the field.

Doug Bickett, ILS Manager for L3-JOG said "Our new programmes demand the latest versions of standards such as S1000D Issue 2.2 XML. We need to ensure we adopt solutions that will provide support for this developing standard now and in the future. LBS and Raytheon have a proven track record supporting LSA and the S1000D standard over many years. We were further convinced by the success of iLog at our sister company in Greenville Texas."

LBS and Raytheon invite all our EAGLE iLog users to attend the 2007 EAGLE iLog Training Symposium. The Training Symposium is the ideal opportunity to meet other users, speak to the EAGLE iLog development team, provide input into EAGLE iLog development and receive news and updates on the rapidly developing suite of products.

The 2007 EAGLE iLog Training Symposium will be held at the LOEWS Ventana Canyon Resort, Tucson AZ. See detail article on Page 5 of this newsletter.



## iLog Partner has Continued Success

Logistics Business Systems, in the UK has been Raytheon's partner in the iLog suite of software products from the beginning. Let's have a look at some of their recent program wins.

### **UK Royal Navy selects iLog.Eagle Logistics Support Application.**

Logistics Business Systems are pleased to announce that the Royal Navy Air Station (RNAS), Yeovilton have selected the iLog.Eagle LSAR application to carryout the analysis of LSA data.

Commenting on the purchase Miles Robinson, LBS Commercial Director, said, "We are pleased that the Royal Navy has once again selected iLog to meet the requirements of a demanding ILS program. This purchase further strengthens our relationship and commitment with the UK Ministry of Defence".

### **STORK PWV B.V. select iLog Integrated Logistics and S1000D Technical Publications solution.**

Logistics Business Systems (LBS) are pleased to announce STORK PWV B.V. have selected the iLog integrated suite of tools for the production and delivery of their ILS deliverables. iLog will be used to maintain Logistics Support Analysis Records (LSAR), Initial Provisioning and catalogue data and the management, production and delivery of S1000D electronic documentation. This capability will provide the ILS practitioners with major efficiency and responsiveness improvements for the multi-nation Boxer programme.

Gary Davies LBS Products & Services Director said "The latest military programmes demand ever increasing efficiency and full compliance with logistics information standards such as S1000D and S2000M. LBS products meet these demands. LBS products are already in use at Stork SP Aerospace and Stork Fokker and we are delighted that STORK PWV have selected LBS iLog for use on international programmes such as Boxer. This reaffirms iLog's position as the worlds leading toolset for aerospace and defense logistics."

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The Boxer Vehicle

## UAV Tactical Systems Ltd (U-TacS) selects LBS iLog Integrated Logistics and S1000D Technical Publications solution.

Logistics Business Systems are very pleased to announce that UAV Tactical Systems Ltd (U-TacS) a joint venture company set up by Thales UK and Elbit to produce the Watchkeeper system in the UK have selected the iLog product suite of tools for production and delivery of their LSA, S2000M and S1000D Technical Publications data.

Commenting on the purchase, Miles Robinson LBS Commercial Director, said "We are delighted that U-TacS have selected the iLog toolset. Thales is already a major iLog user and this purchase for the joint venture reaffirms their confidence in the ability of the LBS product suite."



Watchkeeper UAV

## Oerlikon Contraves select iLog Integrated Logistics and S1000D / SCORM 2004 Content Management Solution

Logistics Business Systems are pleased to announce the selection of the iLog suite of tools by Oerlikon Contraves, Rome, Italy. The delivered solution will provide a fully integrated software package covering Logistics Support Analysis, Initial Provisioning S2000M, Electronic Documentation S1000D and e-Learning SCORM capabilities.

Miles Robinson LBS Commercial Director said: "We are delighted to welcome Oerlikon Contraves, Rome into the iLog user community. Their selection of iLog reaffirms its position as the world's leading toolset for integrated logistics support and adds to the already well established use of iLog within the Italian defence industry."

"iLog now includes the capability to create, manage and deliver SCORM 2004 learning content alongside S1000D technical publication content using common processes and tools which coupled with the re-use of technical content between the two disciplines can significantly reduce production costs." He went on to say, "This addition to our Italian customers will be supported in country through our Italian partners SIL, based in Turin, who provide our Italian customers with a localised and expert support capability."



## iLog Goes 3D

Raytheon and LBS continue to deliver market leading capabilities into iLog, the world's leading Integrated Logistics and S1000D Technical Publications solution. Working with our partner ParallelGraphics, the world leader in 3D visual communication, we have integrated the Cortona3D visualization technology into the iLog product suite.

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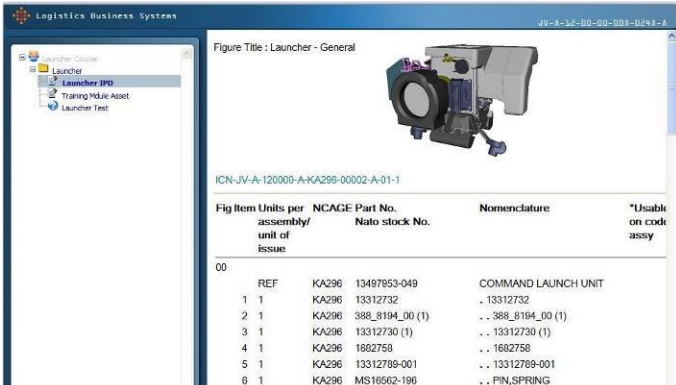
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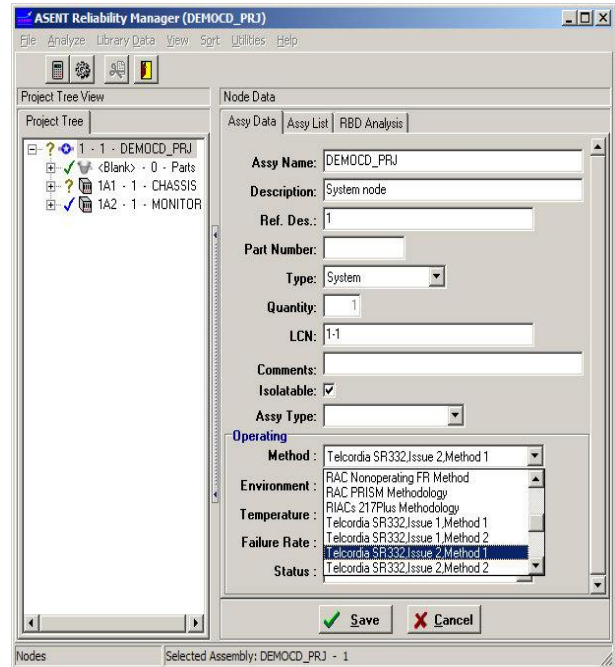
Example of an IPB using Cortona 3D

The seamless integration of the Cortona technology into iLog enables the creation of interactive animated 3D Technical Documentation, Parts Catalogs & Learning from existing CAD assets. Integrating CAD assets and engineering information with the Technical Publications process improves quality and reduces cost through more efficient authoring and updating. This development enables iLog users to deliver:

- ❖ Interactive Electronic Technical Publications (IETP/IETM) using animated 3D simulations to clearly communicate complex mechanical procedures
- ❖ Interactive Illustrated Parts Catalogs (IPC) using 3D 'explosions' to communicate complex assemblies that everyone can understand
- ❖ Interactive E-Learning courses combining 3D assets with training documentation to generate visually realistic, interactive learning

For more information on EAGLE / iLog, contact:  
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 Email: [raytheoneagle@raytheon.com](mailto:raytheoneagle@raytheon.com)  
<http://www.raytheonlogisticstools.com>

support for two new failure rate prediction methods (Telcordia's latest version and 217Plus). Also, ASENT 12.5 is now compatible with Microsoft SQL Server 2005.



Telcordia SR-332, Issue 2

In September 2006, without much fanfare, **Telcordia** released **Issue 2 of SR-332**. This is their latest failure rate prediction methodology, and this new approach yields significantly lower failure rates than the previous issue, as well as covering additional part types. ASENT 12.5 incorporates this new prediction method, in addition to all of the other ones currently available in the tool.

Also included in this version of ASENT, is a bi-directional interface to the **217Plus** tool put out by the Reliability Information Analysis Center (RIAC). If 217Plus is installed on your machine, then ASENT will detect this and provide a menu option to invoke the interface. ASENT automatically exports your product tree and parts data and launches the 217Plus tool. The results are then passed back to ASENT for reporting, or use in FMECA, RBD and Maintainability analyses, or to populate your LSA database.

A new user tailorable Derating Tool has been added to ASENT. You can use an existing derating template, or modify it to fit your needs. This allows you to specify parameters and derating values for each part type.

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## ASENT Version 12.5 Now available

Version 12.5 of ASENT was recently released, and is now being distributed to all users currently under software maintenance. The latest version of ASENT contains many new features, and includes



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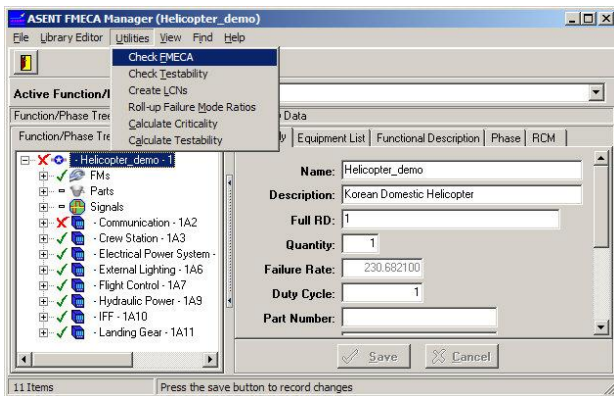
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The output is a familiar Excel spreadsheet that lists each part in your system, and notes whether or not it is compliant. Problem parts are color coded for faster and easier identification.

Ref Des	Part Number	Description	Parameter(s)	Unit	Max Rated	Derated Value	Applied	Compliant
1	1-0001	Derating Test - system mode						
1A1	2-0002	subsys1 - subsystem						
1A2A3	7-0007	Good - modified alt types board						
C0002	100.0000-0003	CAPACITOR CZ	Temperature within rating	Diag. C	125.000	115.000	55.000	Yes
C0003	100.0000-0004	CAPACITOR CPV	Voltage Stress Ratio	Volts	200.000	120.000	100.000	Yes
C0004	100.0000-0005	CAPACITOR CHR	Temperature within rating	Diag. C	125.000	115.000	55.000	Yes
C0005	100.0000-0006	CAPACITOR CHR	Voltage Stress Ratio	Volts	200.000	150.000	100.000	Yes
C0006	100.0000-0007	CAPACITOR CFR	Temperature within rating	Diag. C	125.000	115.000	55.000	Yes
C0007	100.0000-0008	CAPACITOR CFR	Voltage Stress Ratio	Volts	200.000	150.000	100.000	Yes
C0008	100.0000-0009	CAPACITOR CHR	Temperature within rating	Diag. C	125.000	115.000	55.000	Yes
C0009	100.0000-0010	CAPACITOR CHR	Voltage Stress Ratio	Volts	200.000	120.000	100.000	Yes
C0010	100.0000-0011	CAPACITOR CHR	Voltage Stress Ratio	Volts	200.000	140.000	100.000	Yes
C0011	100.0000-0012	CAPACITOR CHR	Voltage Stress Ratio	Volts	200.000	120.000	100.000	Yes

Tailorable Derating Tool Sample Report

The FMECA Manager is perhaps the most visibly different tool in ASENT 12.5. It now has color status flags, similar to those found in the Reliability Tree, reflecting the current status of each assembly or failure mode. These flags are set by ASENT's powerful **completeness checker** and are reset when the data for an assembly or failure mode is modified. Combined with a detailed problem report, these new status flags make tracking down problems quick and easy.



Status Flags from Completeness Checker

In our last release we introduced User Defined Fields for assemblies, but in the FMECA Manager, we have now extended this capability down to the Failure Mode level.

We have also enhanced the **Update Failure Rates** utility found in both the FMECA and Maintainability tools to

allow you to update failure rates from a wide range of sources. You can now use either operating failure rates, non-operating failure rates, or values from user defined fields in your reliability prediction. This allows you to easily manage several different failure rates to reflect different conditions and select the one of interest for the analysis at hand.

ASENT's Assembly Data Manager allows you to manage a library of assemblies, their failure rates, and a great deal of supporting data. ASENT 12.5 includes a new 'Additional Information' button. This feature allows you to attach an unlimited number of memos. This can be particularly helpful in recording important background data or email messages from vendors.

This article just begins to scratch the surface of the capabilities found in the latest version of ASENT. Be sure and visit our website for more details.

**For further information on ASENT, or to arrange an online demo, please contact:**

**Rich Herman at: 972-344-6179**

**Email: [rherman@raytheon.com](mailto:rherman@raytheon.com)**

**<http://www.raytheon.com/asent>**



**EAGLE / iLog  
Training  
Symposium 2007**



Raytheon Technical Services Company LLC and Logistics Business Systems, Ltd. are hosting the EAGLE / iLog 2007 Training Symposium. We are pleased to announce our Training Symposium and invite you to participate. This event is scheduled for Monday the 15<sup>th</sup> through Thursday the 18<sup>th</sup> of October 2007 at the [Loews Ventura Canyon Resort](http://www.loewsventura.com) located in Tucson, Arizona. The purpose of the symposium is to present a forum where EAGLE / iLog users can receive training and network with other customers, partners, and EAGLE / iLog developers. The symposium will provide direct access to senior management and application product developers who will address various end-user topics through a series of technical sessions, presentations and hands-on demonstrations.

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## Tentative schedule of events:

- ❖ Mon 15<sup>th</sup> -- Check-in and late registration is from 8:00 AM until 1:00 PM. Opening General Session begins at 1:00 PM followed by an evening reception at 6:00PM.
- ❖ Tues 16<sup>th</sup> -- Presentations and EAGLE, iLog, and MMIS Forums will begin at 9:00 AM and run until 5:00 PM.
- ❖ Wed 17<sup>th</sup> -- Presentations and EAGLE, iLog, and MMIS Forums will again begin at 9:00 AM and run until 4:00 PM followed by an evening dinner beginning at 6:30 PM.
- ❖ Thu 18<sup>th</sup> -- Presentations will again begin at 9:00 AM and run until 11:00 AM followed by the Closing Ceremony from 11:00 AM until 12 noon.

We have two keynote speakers this year, Mr. Mark Hendrick, Member of Parliament and Mr. Dave Dacquino, RTSC Vice President.

We will also have representatives from the US Army Materiel Command Logistic Support Activity (LOGSA) presenting papers on the new GEIA-STD-0007, Logistics Product Data and on the International Specification for Technical Publications, S1000D. Additionally, William Foreman Boeing Co, Co-chairman of the ASD/AIA S3000L LSA Committee will present an Introduction to S3000L.

Please visit our website [www.raytheonagle.com](http://www.raytheonagle.com), which will be updated as new information becomes available or call the EAGLE Helpdesk at 520-663-6673 for more information.

Hotel reservations can be made at this time. A discounted room rate has been negotiated. Please contact the Resort directly for room reservation and mention you are with the Eagle/iLog Training Symposium to ensure the discounted room rate. The direct line to the resort is 520-299-2020, or 1-800-23-LOEWS.

The fee for this years Symposium is \$400.00. This will be administered by the Ventana Resort staff when making reservations. Again, make sure you mention the EAGLE/iLog Training Symposium hosted by Raytheon when making reservations to ensure your Symposium registration

As in the past, day trips for spouses/significant others and some evening entertainment will be planned.

See You There!



## AIMSS Version 4.7.1 Released

AIMSS Version 4.7.1 is now available for download. Among the new features are:

- ❖ Expression Combination and Sharing
- ❖ Manual Part Add to Part Order List
- ❖ Part List Link enhancement
- ❖ Make Runtime enhancement
- ❖ Check Repair Log Quick View

### AIMSS Expression Combination & Sharing

AIMSS Version 4.7.1 includes Expression Combination and Sharing as an authoring usability enhancement.

The following list summarizes the main features of the new AIMSS expression combination and sharing enhancement:

- ❖ Creation of a New Expressions folder within the AIMSS Structure Editor and combining of like expressions from older IETM projects
- ❖ Creation of a New Expression Chooser to allow for ease of sharing expressions
- ❖ Modification of the existing Expression Editor to provide a descriptions field and Where Used capability
- ❖ Modification of the existing Assertion Editor to allow for expression chooser capability and descriptions

Implementing the above expression enhancements helps to streamline current expression use within AIMSS Author by providing a means to share expressions and providing a common way to maintain existing expressions. This expression feature is also a key element in preparation for implementation of a Table of Contents and Index filtering capability which will utilize existing or newly created expressions.

### Parts Order List Enhancements – Manual Part Add

AIMSS has a Part Order List system that allows the End User of the IETM to add Parts from the AIMSS hierarchical part structure to a List that can be saved as XML, HTML, or tab separated Text documents.

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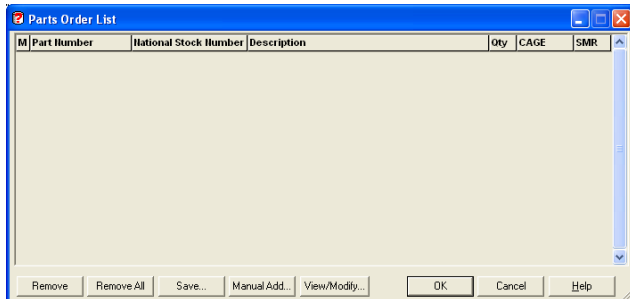


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This list can then be used to order parts necessary to effect a repair.

There are cases where an IETM might reference parts from a third party manual that also need to be procured to complete a task. To address this need, we have enhanced the Part Order List system in AIMSS to allow the End User to manually add parts to the Part Order List that are not contained in an AIMSS hierarchical part structure.

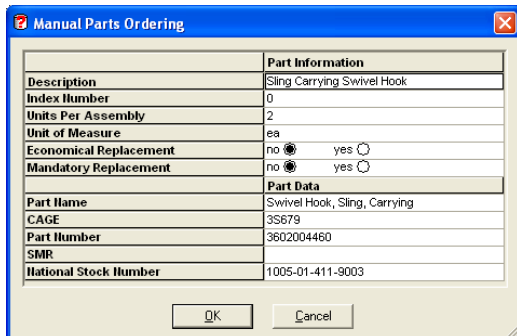
The Part Order List is accessed in both the AIMSS Author and AIMSS Runtime Viewer by choosing the View>>Part Order List... selection from the Main Menu Bar.



Part Order List with No Items

Note that the Part Order list is empty at the start of each IETM session. In order to Manually Add a part to the list, press the Manual Add... button. The Manual Parts Ordering dialog will be displayed.

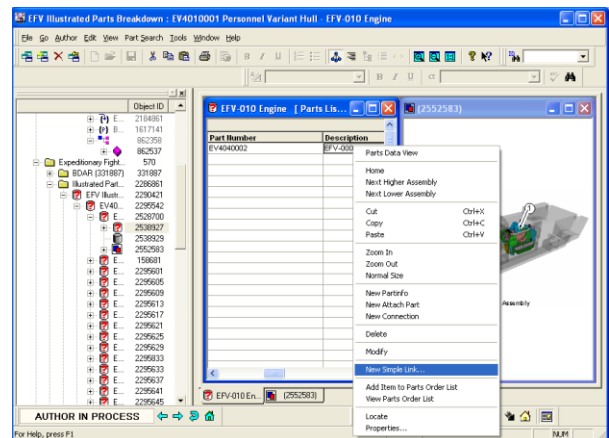
The Fields that are displayed in the Manual Parts Ordering dialog are controlled by the selections made in the Part Information preferences dialog. To access the Part Information preference Dialog, select View>>Preferences from the Main Menu bar and click on the Part Information tab.



Manual Parts Ordering Dialog with Customized Field Selections

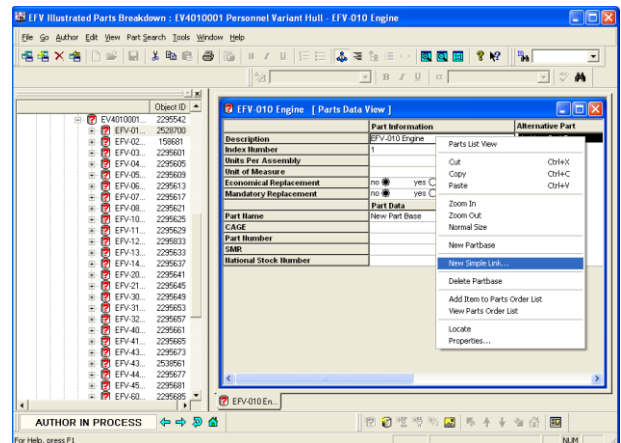
## Part List Link Enhancement

AIMSS has simplified the process of creating Links from Part List Items. Simple Links can now be created from the Part Description of an item in the Part List View to any object within the IETM. Most often, this feature is used to link to the IPB Index Callouts in an associated drawing.



Part List Description Link capability

Links from the Part Description field can also be created in the Part Data View, as shown below:



Part Data Description Link capability

## Make Runtime Enhancement

AIMSS Make Runtime has been improved to copy only those Graphic Files that are used in the specific Version of the Authoring Data that is being fielded as a Runtime Project. This ensures the smallest possible footprint for the Runtime Project.

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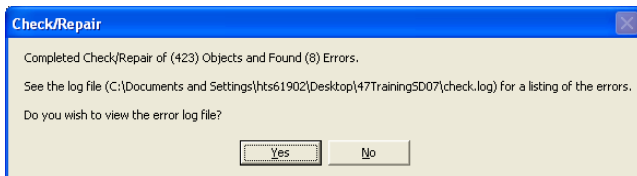
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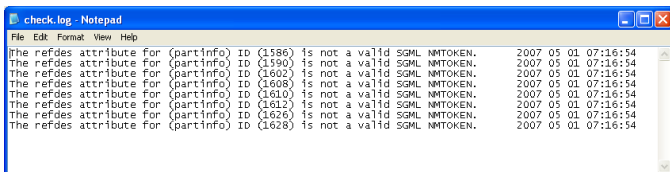
## Check Repair Log Quick View

AIMSS Author now provides a Quick View function for the Check Repair Log. When the specified Check/Repair has finished, the Check/Repair Dialog gives the end user the capability to view the completed log by pressing the Yes button.



Check/Repair Dialog with Quick View buttons

Pressing the Yes button will display the Check Repair Log inside Notepad, enabling the end user to investigate the errors.



Check/Repair Log File Example

For more information about AIMSS or to arrange an on-line demo, please contact:

Robert Schwarzberg: 866-773-0557

Email: [aimss\\_support@raytheon.com](mailto:aimss_support@raytheon.com)

Or visit us on the Web at:

<http://www.raytheonaimss.com>

## iLog Version 2.2 Released

The latest version of iLog (2.2) was released in May, 2007. This version represents a dramatic increase in functionality for the market and technology leading integrated logistics tool set.

EAGLE includes the following major enhancements:

### General Enhancements

- ❖ Upgraded the EAGLE Install to InstallShield Version 12.

- ❖ FrameMaker 7.2 now supported for subtask SGML and XML editing.

### AdHoc

- ❖ Modified Join Common Fields display on Join screen.
- ❖ Enhanced the File Save As functionality for EAGLE operated in a Citrix environment.
- ❖ Added an error checking routine when switching from the default Query Results display to the Alt. Editor.

### Data Configuration Management (only applicable to DCM customers)

- ❖ Created a new LCA Search Window for searching and viewing the Database Audit Trail by LCA.
- ❖ Created a new Audit Trail Archive Application for archiving the DCM Change History Table ZCHGHIST.

### Data Module System

- ❖ Changed EAGLE Editing DTDs for Issue 2.0, 2.1, and 2.2 allow <xref> to be created without an idno attribute for referencing across subtasks.
- ❖ Added Model Identifier, DED 654, values to ZHLP5 for drop down list boxes. Values were taken from the AECMA Website [www.aecma.org](http://www.aecma.org).

### LSA Management

- ❖ Added Secondary Replaceable Unit (SRU) to the Part Application Data tab in the Miscellaneous Additional Information screen.
- ❖ Modified the Packaging Data tab in the Miscellaneous Additional Information screen for 00-60.

### Provisioning

- ❖ Modified the Unit Weight field (Table HA) and the Unit Pack Weight field (Table HF) to display both the actual value stored in the database and the value formatted, as defined by the field's DED.

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## Reliability & Maintainability (RAM)

- ❖ Modified the Reliability, Availability, and Maintainability Indicator Characteristics (Table BD) screen to display Cyrillic (Russian) numeric punctuation correctly.

## Reports

- ❖ Added CAGE Code and Reference Number filtering to the LSA-024 report.

## Tech Manual

- ❖ Created an Epic Plug-in to enhance insertion of graphics while editing XML in the EAGLE Tech Manual System.

## MMIS includes the following major enhancements:

- ❖ Ability to add comments and responses to TIRs - For each TIR customers, suppliers, etc, can submit comments and responses on a particular TIR.
- ❖ Ability to add ATA chapter codes to TIRs - Each TIR can be assigned an ATA Chapter Code, if applicable.
- ❖ Ability to track Firmware and Software versions in ABC and AMC - FIRMWARE and software version information can be input into MMIS. These versions are connected to applicable components, and assemblies. Multiplier firmware/software versions can be tracked per assembly, and be modified over time.
- ❖ Simplified Document Upload System - The document system now determines the MIME type of the document being uploaded, automatically, reducing the potential of a user assigning an incorrect type.
- ❖ UID Support - Ability to create and tag assets using UID constructs 1 and 2. Ability to print 2 dimension UID matrix tags from MMIS, in various sizes.
- ❖ Quality Assurance (attributes based) tracking system - Ability to create defect codes and use these in inspection procedures for quality assurance.
- ❖ Contract Flowdown Viewer - Read-Only consolidated viewer of all contract related information, on one screen.

- ❖ Contract Flowdown Wizard - This wizard allows the user to enter, update, and view all contract related information in one consolidated place.

## AcquirED includes the following major enhancements:

- ❖ Content Management System - Reusable Content in XML Projects.
- ❖ Business Rules Checking - BREX User Definable Rules.
- ❖ FLEXLM License Control.

## Aspect Lite includes the following major enhancements:

- ❖ Release Tab re-designed to include the "Full Index" button
- ❖ Introduction of an IETP and PDF data pre-view capability for DM's released from IPD MGR.

## For more information on EAGLE / iLog, contact:

Anthony Zucco at 520-545-6885

Email: [raytheoneagle@raytheon.com](mailto:raytheoneagle@raytheon.com)

<http://www.raytheonlogisticstools.com>

## Latest Version of Our Tools:

<a href="#">AIMSS</a>	4.7.1 (May 2007)
<a href="#">ASENT</a>	12.5 (May 2007)
<a href="#">EAGLE</a>	7.1.0 (April 2007)
<a href="#">iLog</a>	2.2 (April 2007)
<a href="#">MMIS</a>	7.1.0 (April 2007)

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