

**Raytheon**



*LSDL Newsletter*

**Volume 4, Issue 3  
December 2005**

**Wayne Hawkins  
Director**

## **Message from the Director**



### **Wrapping up a GREAT Year!**

This has been a watershed year from a number of perspectives. We have been working with an ever widening group of customers as more and more organizations find solutions to their business needs in our family of world class tools. This is particularly true with the newest tool in the family, Maintenance Management Information System (MMIS), which doubled the number of installations and now has installations on 3 continents and Great Britain. All four tools in the family came out with new releases during the year providing new and enhanced capabilities in response to customer input.

The EAGLE/iLog User Conference was a great success with over 150 participants from 9 countries. Feedback from those attending was unfailingly positive. It was a great opportunity to network and exchange ideas with fellow logistics professionals in addition to a unique opportunity for our customers to meet the development staff and for us to get direct input from the end users. All these opportunities were wrapped up in the excellent hospitality and comfort that the Omni Tucson excels at providing.

I suggest you visit the EAGLE Web Site where the photos and Conference summary is available for your viewing pleasure. Please point your browser to this site: [http://www.raytheoneagle.com/userconf2005\\_tk.htm](http://www.raytheoneagle.com/userconf2005_tk.htm)

The year also saw a great expansion of our presence on the Web. In addition to expanding the EAGLE Web site, we added a new Suite of pages providing information on MMIS (<http://www.raytheoneagle.com/mmis/index.htm>), an extensive set of self-paced tutorials on ASENT (<http://www.raytheoneagle.com/asent/tutorial/main.html>), which you can download or run from the Web site, as needed. Several commonly referenced documents are also available for download. For your convenience, we provide a central starting point for information on our entire family of world class products and solutions (<http://www.raytheonlogisticstools.com/>). Here you will also find the current Newsletter and archives of past Newsletters. This makes finding that article you are looking for quick and easy!

From a personal perspective, one of the most satisfying aspects of being Director is getting to meet customers, exchanging ideas, and gaining new insight from your perspective. This year provided many of these opportunities as I participated in various industry and government symposia. The year started strong with the Reliability & Maintainability Symposium (RAMS) in January. Other events included the AIA 2005 Spring Product Support Conference where we highlighted our new S1000D system, an industry first; the Society of Logistics Engineers (SOLE) symposium in August; and the EAGLE/iLog User Conference in September. We will be at RAMS again this year and we look forward to seeing you in Newport Beach, California January 23-26.

We would like to thank you for your continued support during 2005 and look forward to working with you in 2006. ***Your success is our goal!***

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## Sneak Preview of Version 12.0

We are offering a sneak preview of some of the new features included in ASENT 12.0. Although the official release won't be until shortly after the event, many of the new features will be showcased at the upcoming RAMS 2006 Symposium. The symposium will be held at the Newport Beach Marriott Hotel in Newport Beach, California on January 23-26, 2006. Please visit our booth in the exhibit area to take part in this special sneak preview.

This short article will briefly describe some of the new features included in the ASENT 12.0 release. With each release there are many minor enhancements that help fine tune the toolkit, however, in this article we will focus on a few of the more notable changes.

### Key New Features

- New Assembly Data Manager
- New User-defined Fields Throughout ASENT
- Enhanced RCM Analysis Tool
- New NAVAIR-00-25-403 RCM Methodology
- Enhanced Set of RCM Reports
- New Reliability With Repair Capability
- New Suite of RBD Analysis Utilities
- New RBD Analysis Reports
- Enhanced Maintainability Tool

**Assembly Data Manager** – A new tool called the Assembly Data Manager has been added to ASENT. This tool allows you to manage Assembly Libraries. A wide range of information can be stored for each assembly. For example, descriptive data, supplier information, failure rate, MTBF, temperature, environment, along with the source, background, and contact for the data. This information can be incorporated into reliability predictions or used to support work on new proposals.

**User-Defined Data Fields** – In addition, to the wide range of data fields already stored in ASENT, you will have the ability to specify user-defined fields throughout the tool.

These fields can be tailored for each project, and provide incredible flexibility. For example, user-defined fields can be associated with Reliability Predictions, FMEA/FMECA, or Maintainability Predictions. Ideal for adding additional comments or remarks fields, status codes, or other fields that may be needed to support a particular project.

**RCM Analysis** – This capability has been greatly enhanced. Maintenance tasks can now be easily managed in a library. Tasks can be defined for each failure mode, and a wide range of data fields now exist to record maintenance intervals, task types, descriptions, and other helpful notes. In addition, to the MIL-STD-2173 and MSG-3 methodologies, we have now added the NAVAIR-00-25-403 RCM methodology. RCM reports have been expanded to incorporate this new data. Figure 1 shows a RCM Analysis screen in ASENT's FMECA Manager.

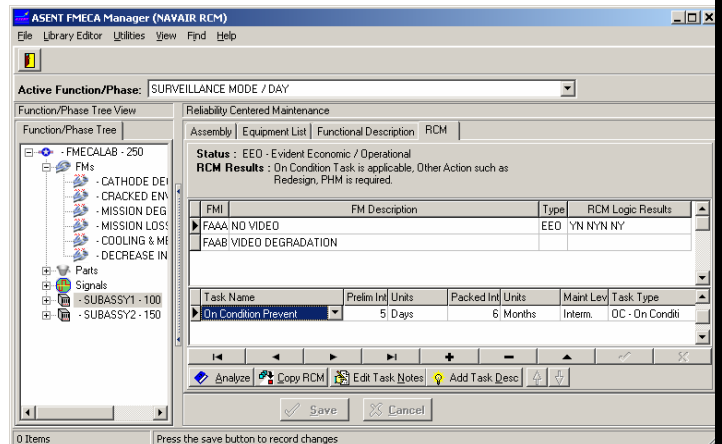


Figure 1 – RCM Analysis

**RBD Analysis Enhancements** – A new Reliability with Repair capability has been added, which implements the approach found in RADC TR-77-287. A new suite of RBD utilities has been added to improve the ease and speed of setting up your RBD models. A powerful, Completeness Checker is now included in our RBD Analysis Suite. Expanded capabilities in the RBD Analysis Worksheet include a "Zoom In / Zoom Out" feature, which allows you to traverse the entire product tree, editing your model as you go. The worksheet also allows you to modify the Mean Time Between Critical Failures (MTBCF), the Mean Time To Restore Function (MTTRF) factors, and required availability. New reports allow you to check availability, dependability, logistic and operational MTBF, and MTTR figures, as well as the available hours for Preventive Maintenance for each level of the model.

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ASENT Sneak Preview of Version 12.0 (continued from page 2)

Figure 2 shows a Reliability Block Diagram for a simple Reliability with Repair model.

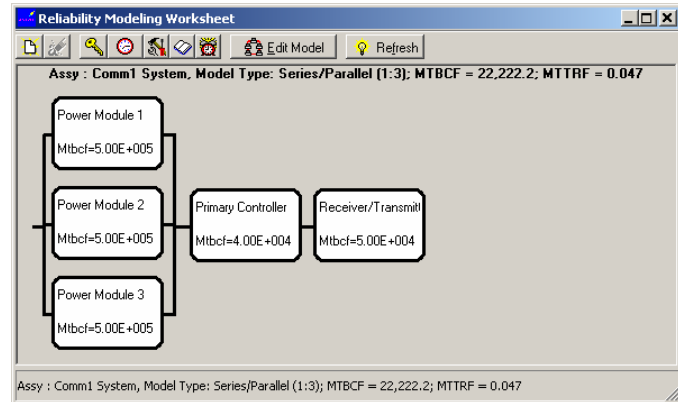


Figure 2 - Reliability Modeling (RBD Analysis)

**Maintainability Enhancements** – Many of these enhancements are the result of in-depth discussions we have had with subject-matter-experts from some of our customer sites (e.g. Lockheed Martin, BAE Systems, Raytheon). This input has allowed us to take an excellent tool and make it truly superb. Here are just some of the additional enhancements that you will find in ASENT 12.0:

Detailed tasks can now be associated with Localization Times, Alignment/Adjust Times, and Verification Times. The user-defined fields mentioned earlier in this article are readily available throughout the tool. Maintainer notes are easily managed for each item, so that additional instructions or important details can be recorded concerning the maintenance of an item. In addition to managing libraries of tasks, you can now manage groups of maintenance tasks. Skill levels and tools associated with each task can also be easily defined. Additional calculations and new reporting capabilities will be included, which allow you to tie isolation information into your maintainability prediction report. Also, we have paid close attention to the layout of menus, and user interface, and made refinements where necessary.

This wraps up a quick summary of some of the new features included in ASENT 12.0. We are confident that you will be pleased with these new changes. Because ASENT continues to evolve based on customer priorities, we welcome your feedback. We pride ourselves in quality customer support. Quick, responsive replies to all questions is our standard. You can be confident that when you select ASENT, you select unequalled support. ✨

For more information on **ASENT**, or to arrange an online demo, please contact Rich Herman at 972-344-6179  
email: rherman@raytheon.com  
<http://www.raytheon.com/asetn/index.htm>



EAGLE



## Lockheed Martin selects iLog for the US Presidential Helicopter

Raytheon Technical Service Company (Raytheon) and Logistics Business Systems (LBS) are pleased to announce the sale of the EAGLE iLog Logistics and Tech Manual software product for use on the Presidential Helicopter. The Presidential Helicopter is a team effort between Lockheed Martin (Owega, NY), Bell Helicopter (Fort Worth, TX) and Westland Helicopters (Yeovil, UK). iLog will be used to produce DEF STAN 00-60 and MIL STD 1388-2B logistics data and ASD S1000D issue 2.2 technical manuals.



"We are delighted to be involved in this high profile contract and look forward to working with the US101 team," said Tony Zucco, Raytheon iLog Manager. "The iLog solution, developed together with our UK partners, LBS, provides an unparalleled capability both in terms of integrated logistics and in support of the S1000D specification for technical publications.

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## Lockheed Martin Selects iLog (continued from page 3)

This prestigious contract confirms our position as the leading supplier of S1000D solutions in the United States."

iLog is used on many of the world's leading aerospace and defense programs including: AMRAAM Missile, Eurofighter Typhoon, Type 45 Destroyer, Astute Class Submarine, ASTOR, Helix, NH90 Helicopter, and Bowman.

Raytheon Technical Service Company LLC provides technical, scientific and professional services for defense, federal and commercial customers on all seven continents, performing:

- Integrated logistics support across product lines; leveraging internal partnerships and drawing on Raytheon's technology leadership to penetrate new external markets.
- Base operations, logistics and maintenance support services to: U.S. scientific research on and around the continent of Antarctica; U.S. Naval Facilities Guam; and several instrumented test and training ranges.
- Comprehensive engineering, manufacturing and depot services; and is the U.S. Department of Defense's largest privatization contractor.
- Operations, maintenance and logistics services to secure and eliminate weapons of mass destruction, maintain safe conditions and monitor compliance with international treaties.

Additional information is available at [www.raytheoneagle.com](http://www.raytheoneagle.com)

Logistics Business Systems Ltd (United Kingdom) is a world leader in Integrated Logistic Support (ILS) systems for the Aerospace and Defense Sector, with clients that include: Agusta-Westland Helicopters, Alenia Marconi Systems, General Dynamics, Italian Navy, L3-Com, Raytheon Company, Rolls-Royce, Thales, VosperThornycroft, UK Ministry of Defence and others.

Additional information at [www.lbs-ltd.com](http://www.lbs-ltd.com) ✦

*iLOG is the strategic product suite from Raytheon and Logistics Business Systems enabling the Integrated Logistics Support (ILS) processes to be operated in accordance with both current and emerging standards.*

*The iLOG suite consists of EAGLE, Acquired and Aspect and meets Def Stan 00-60 or MIL-STAN-1388-2B, ASD S1000D and AECMA 2000M specifications.*

## LSDL and Techy Sky Technologies Join Hands During Beijing, China Product Launch Event

Late last year, Wayne Hawkins, LSDL Director, and Rob Schwarzberg, AIMSS Product Line Manager, traveled to Beijing China to support and participate in an LSDL Product Launch Event conducted by Techy Sky Technologies.

Techy Sky was recently signed as our in-country representative to support sales of all LSDL Products (AIMSS, ASENT, EAGLE, and MMIS) within the Peoples Republic of China.

It was LSDL's pleasure to not only participate in this important product launch but to also share valuable information with our new reseller, Techy Sky. As Confucius once said, "Never Tire to Study – And to Teach Others."

学而不厌  
诲人不倦  
孔子

With this in mind, Wayne and Rob gave several presentations regarding our products, not only to Techy Sky personnel, but also to some very distinguished University Professors invited by Techy Sky.



**Distinguished Guest – Professor Hongcheng Xie from the Jiangsu University of Science and Technology**

The intent was to not only share product information with Techy Sky and their honored guests, but to also impart important information regarding Logistics Management Information systems.

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LSDL and Techy Sky (continued from page 4)



Techy Sky's LSDL Product Launch Event, Beijing, China

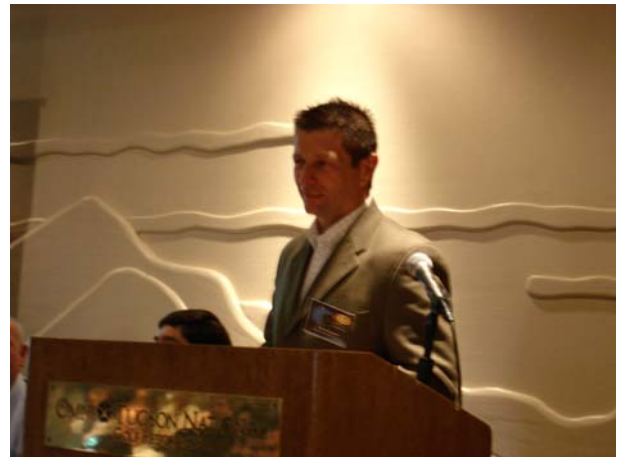
During the visit to China, an important Reseller Agreement was finalized between Raytheon and Techy Sky Technologies. In this agreement, Techy Sky was authorized to be the sole reseller of LSDL products within the Peoples Republic of China. Along with this important agreement, the continued translation of the AIMSS product into Chinese was agreed upon. Techy Sky is the sole distributor of the AIMSS Chinese version to this major expanding market. Partnering with Techy Sky will allow LSDL to share our World Class Logistics software tools with China and provide continued resources for the further development and enhancement of our Products. ✨

Techy Sky Technologies can be contacted as follows:

Techy Sky Limited (Beijing)  
Attn: Lisa Zhang  
Room 2102/03, Tower A  
Jin Yu Guo Ji Plaza  
No48 West Wangjing Road  
Chao Yang District, Beijing, P.R.China  
e-mail: [info@techysky.com](mailto:info@techysky.com)  
web-site: [www.techysky.com/main.html](http://www.techysky.com/main.html)

For more information about Techy Sky or any of the LSDL Products, please contact:  
Robert Schwarzberg: 866-773-0557  
Email: [reschwarzberg@raytheon.com](mailto:reschwarzberg@raytheon.com)

## 2005 EAGLE / iLog Users Conference A Great Success!



Dave Dacquino, RTSC Vice President and General Manager of System and Product Support Solutions (SPSS), was the keynote speaker.



Wayne Hawkins, LSDL Director and Lisa Zhang, Owner of Techy Sky – Partners!

The 4<sup>th</sup> Annual Users Conference was held in Tucson, AZ on September 26-29, and was a resounding success with 150 participants representing 9 countries. Feedback was overwhelmingly positive, as shown by these sample remarks: "Excellent kick-off and opening remarks, especially Mr. Dacquino's address." "It is refreshing to see such commitment and support from the top." "Everyone did a fantastic job." "They went out of their way to make sure it was an informative and enjoyable experience." "The EAGLE personnel are an excellent team." Please go to the Conference website for more: [http://www.raytheonagle.com/userconf2005\\_tk.htm](http://www.raytheonagle.com/userconf2005_tk.htm)



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## Project Open Simplified as AIMSS Continues to Evolve to Meet Customer Needs

The Advanced Integrated Maintenance Support System (AIMSS) has modified the method Authors and End-users use to open AIMSS Interactive Electronic Technical Manual (IETM) projects in direct response to customer requests and to support the streamlining of AIMSS Navy Marine Corps Internet (NMCI) Certification.

**Existing Issue** – AIMSS IETMs are stored in Databases, rather than in simple files. Connecting to a database is a bit more involved than just opening a file. This technological “fact of life” saddled our customers with the dreaded “Registration” process for AIMSS IETMs. Registration involved opening AIMSS, and selecting “Project Register” from the file menu. The User would be prompted for a Project Name and asked to Browse for the Project Database file. Following Microsoft recommended “Best Practices” at the time, AIMSS used this information to enter all of the information needed to open the database into the Windows Registry. Real-world AIMSS deployments at large companies and in the DoD have faced increasingly tighter security requirements. Many of our customer’s Windows Login accounts no longer allow applications that they run to write to the Registry.

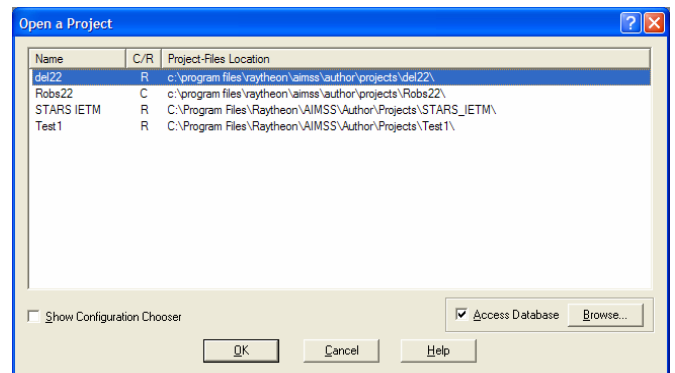
One of the prime examples of these types of limitations is the NMCI specification. The result of these tighter constraints has been increasingly frustrating for our customers.

**Fast Forward to Today** – In order to simplify the project Registration and Open process, AIMSS has adopted a straightforward solution – Get Out of the Registry! Using XML technologies, AIMSS is taking a file based approach for storing all AIMSS Project and Connection information. This approach allows Authors to pre-configure Project deployments and simply copy projects to the end-user machine, ready to run.

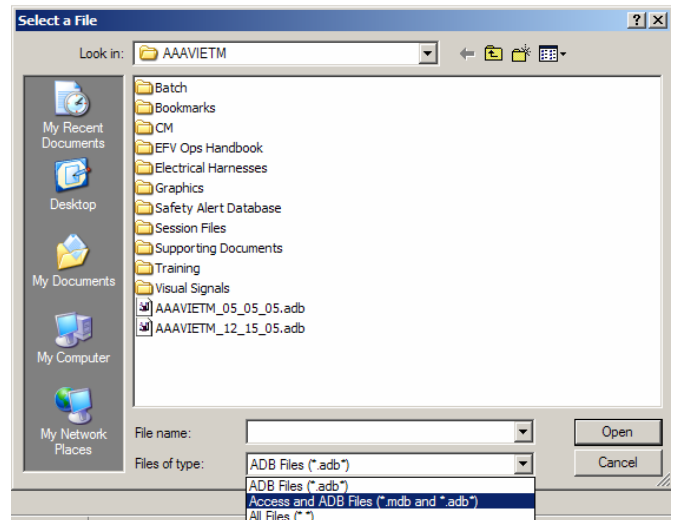
**The New Approach** – This approach allowed other simplifications to be made. Most Windows Users have become accustomed to double-clicking on a file and having it open within the appropriate application. AIMSS now provides for double-click open of both Authoring and Runtime projects.

Author Project folders have a file with the extension ADBA (AIMSS DataBase Authoring). Runtime Project folders have a similar file with the extension ADB (AIMSS DataBase). Double-Clicking on one of these files will launch the appropriate AIMSS application and open the appropriate IETM if it was currently “registered” or not.

Instead of “Registering” a project that has never been opened on your machine before, Project Open now has a browse button that lets you go directly to an ADB or ADBA file and open it. AIMSS reads the Project Name and Location from the file and adds them to your recent project list. If for some reason the IETM Project does not have an ADB or ADBA file, you can still browse for the database (mdb) file and open the IETM.



New AIMSS Open Project Dialog box showing existing projects and new “Browse” button.



After selecting “Browse” the User can simply open an existing project by selecting the project’s ADB or ADBA file. If no file exists the User can select the IETM’s mdb (Database) file. The IETM project will now open and also be added to the existing projects list and recent files list.

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## AIMSS Project Open Simplified (continued from page 6)

This new capability and other new features will be released in our upcoming AIMSS Version 4.6 release available at the end of January 2006. Contact your AIMSS Representative for further details on this new feature or any of the other new features being released this January. ✨

For more information on AIMSS or to arrange an online demo, please contact:

Robert Schwarzberg: 866-773-0557  
Email: [aimss\\_support@raytheon.com](mailto:aimss_support@raytheon.com)  
<http://www.raytheon.com/products/aimss/>

## The major EAGLE 6.0.0 enhancements are:

### ▪ Data Module Integration Enhancements

- Access to Task Data Module Functions from Task Analysis Finder
- Query by Data Module Code on Task Analysis Finder
- Access to Subtask Data Module data from Task Analysis
- Preview Data Module from EAGLE – Using Print Services

### ▪ Selected New 6.0.0 Features

- Program Required Fields
- Column Disabling
- Control by End Item
- LCN Indenture Code Analysis Wizard
- Failure Mode Ratio Running Total
- Pop Up Conversion Application
- AdHoc New Query Results – Display window title in micro-help ✨

For more information on EAGLE / iLog, contact:

Anthony Zucco at 520-663-8461  
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<http://www.raytheonlogisticstools.com>



## iLog 2.0 Released

Raytheon Technical Service Company, LLC (Raytheon) and Logistic Business Systems (LBS) hosted the iLog 2.0 launch event on December 6<sup>th</sup> at the UK's National Motorcycle Museum in Birmingham, England. The event was attended by over 125 iLog users from Great Britain, Italy, Switzerland, France, Germany, Netherlands, Portugal, Sweden, Ireland, United States, Canada, Australia, Russian Federation, and Malaysia. iLog 2.0 includes AcquirED 4.0 and EAGLE 6.0.0. This release demonstrates LBS's and Raytheon's continued support for new releases of the DEF-STAN-00-60 and ASD S1000D specifications.

### Some of the major enhancements to iLog are:

#### ▪ 00-60 & Data Module Enhancements

- Support for Issue 6 of DEF-STAN-00-60
- Support for ASD S1000D Issue 2.0, 2.1 and 2.2 data modules
- Enhanced Bulk Release of Data Modules
- Viewing of compiled Data Modules from EAGLE
- Ability to link multiple End Items to an AcquirED project
- Added CSN Reference capabilities for IPD data modules – Allows Support Equipment, Spares and Consumables to link to the appropriate IPD data module
- Added unique identifiers for Support Equipment, Spares and Consumables so you can reference the parts in text

## LATEST VERSION OF OUR TOOLS

|                              |                     |
|------------------------------|---------------------|
| <a href="#"><u>AIMSS</u></a> | 4.6 (January 2006)  |
| <a href="#"><u>ASENT</u></a> | 11.5 (March 2005)   |
| <a href="#"><u>EAGLE</u></a> | 5.0.2 (May 2005)    |
| <a href="#"><u>MMIS</u></a>  | 5.0.2 (May 2005)    |
| <a href="#"><u>iLog</u></a>  | 2.0 (December 2005) |

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# Raytheon

Customer Success is Our Mission