

Raytheon



LSDL Newsletter

Volume 3, Issue 2
September 2004

Wayne Hawkins
Director



Message from the Director

MMIS the Tool of Choice for PBL

I recently attended the 39th Annual International Conference and Exhibition, sponsored by The International Society of Logistics, and enjoyed meeting many new EAGLE and MMIS users as well as renewing many old acquaintances. The discussions with this group of dedicated professionals are always invigorating. Several speakers had comments and observations that made me reflect on the logistics profession and how our efforts are important to the Warfighter and our country.

One of the speakers was Mr. Louis A. Kratz, Assistant Deputy Under Secretary of Defense for Logistics Plans and Programs. Mr. Kratz emphasized the fact that Performance Based Logistics (PBL) is a fact of life, and is here for the foreseeable future. He stated that the contractors that are fighting this concept need to come on board and get with the program. As you all know our Maintenance Management Information System (MMIS) tool is specifically designed to enable PBL contracts and the management of facilities executing PBL contracts. The increasing interest and acceptance of MMIS as the tool of choice for PBL programs is exciting and we are proud that the Naval Surface Weapons Center (NSWC) Crane facility has selected MMIS as the tool of choice for their Predator FLIR Depot operation.

MMIS has also been selected for many other Navy depot programs (both PBL and traditional repair contracts) as well as on some new Australian army vehicle programs. MMIS brings the connectivity and integration you need and the visibility that your customers demand on successful PBL contracts. All this without extensive software installation, providing connection over the internet with only a Web Browser!

You Are Invited...

The 3rd annual EAGLE/iLog User Conference is just around the corner. The setting is in London and the topics and speakers are first class. If you haven't made your arrangements I suggest you go on-line to:

<http://rtsc.raytheon.com/eagle/userconf2004.htm>

for information and registration. This is an excellent opportunity for our user community in Europe to participate in this exciting information exchange with minimal travel expense (see page 5 for details).

I am looking forward to meeting you at the EAGLE/iLog Conference in London. We will be showcasing the many new capabilities being added to EAGLE, iLog, and MMIS. There is presently a high level of enhancement activity, based on requests from users and new opportunities to exchange data among other related tools, such as AIMSS and ASENT. I will be interested in your ideas, as always, and how we can help you support our men and women in uniform more productively and more responsively. I think many of the enhancements that we plan on incorporating in the next 12-18 months will improve your productivity and reduce cycle time. I'm convinced you will receive an exceptional return on your software investment dollars, and if you have not purchased EAGLE, iLog, or MMIS, now is the time to jump on board!

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See you all in London! ✨



AIMSS Crosses the Great Wall of China

Mainland China is rapidly becoming one of the largest consumer economies in the world. Since the moderation in government policy toward private business some 20 years ago, pockets of entrepreneurship have blossomed on the mainland.

Chief among these new small businesses are high tech companies like TechySky, LTD. This enterprising young company provides technical solutions to larger established industries within China. When the need arose at CETEK, a Chinese electronics company, for a high end IETM, they hired TechySky to research the best possible solution.

In their research TechySky evaluated several different solutions both in the US and Europe. Their search lead them to AIMSS as an IETM solution with unrivaled integration of high end intelligent navigation and native incorporation of existing data and multi-media sources.

AIMSS has the unique ability to natively incorporate and display data created in other formats, such as PDF, directly into the IETM without re-authoring the data. Multi-media such as MP3 and AVI movies, as well as Audio Clips and Flash productions are also easily embedded. These are features that convinced TechySky of the advantages of AIMSS as a high end IETM solution in China.



Bob Pearson, first row right, interacts with his Chinese students during the conduct of AIMSS training in Beijing

TechySky requested a one-week training course on AIMSS Authoring as part of their evaluation of AIMSS. Bob Pearson, LSDL AIMSS Instructor, conducted the training in Beijing, and then went to Zhengzhou to install the software at the main CETEK facility.



Bob Pearson visits the Great Wall

The students in the class were impressed by AIMSS combination of advanced features and ease of use. They were quick to see that building intelligent navigation into the IETM would make the job of their end user much easier. The students were also very quick to start experimenting with AIMSS and many of them created their test projects in Chinese, rather than English. The Version of AIMSS that was used to teach the class was not specifically modified for Chinese; all of the menu selections and titles are English. AIMSS basic architecture, however, allows for creation of IETM Information in other languages, including Asian character based languages, like Chinese. Specific customization of the application for other languages is possible, as shown by the Korean Version that we developed with TechMate of South Korea.

The contrast between Old and New is truly startling, but the vibrancy of Beijing and Zhengzhou foretell of what can only be an ever expanding market for high tech information solutions. AIMSS is leading the way, and with continued involvement, our LSDL software tools have an excellent opportunity for growth within this expanding market. ✨

For more information on [AIMSS](#), please contact Sean Rushing at 520-663-8440
Email: aimss_support@raytheon.com
<http://www.raytheon.com/products/aimss/>



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Highlighting the



Maintainability Toolkit

Key Features

- Powerful Tree Editor
- Built-in Task Time Libraries and Images
- User-definable Judgments / Difficulty Factors
- Mil-Hdbk-472 Calculations (Procedures II and V)
- Availability Calculations
- Corrective and Preventive Maintenance
- Comprehensive Reporting
- Maintenance "what-if" planning

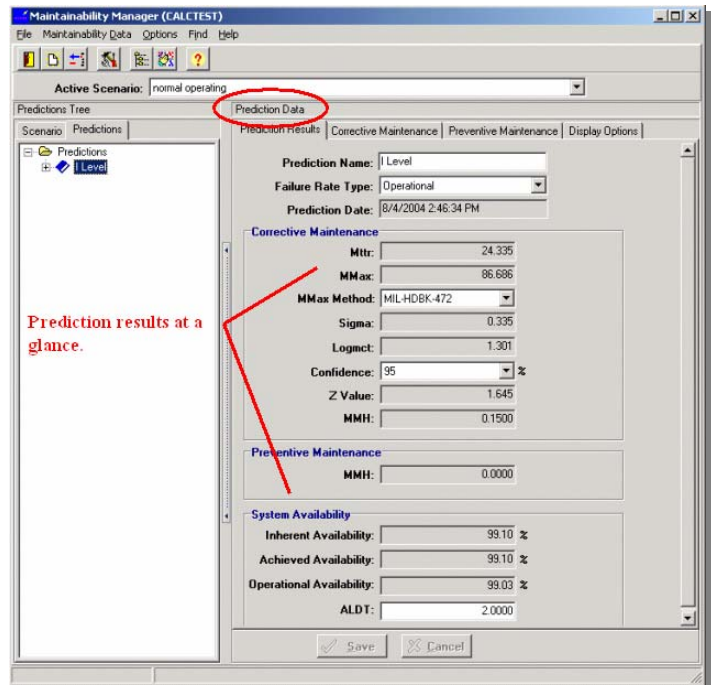


Figure 1 - Prediction Data Results Screen

The ASENT Maintainability toolkit has been optimized to reduce data entry and maximize the use of existing reliability data to help you efficiently manage the maintainability analysis process. All the necessary tools are included to assist you in your analysis. The product tree structure and reliability prediction data is readily available in ASENT's Maintainability toolkit, but users can quickly and easily add covers or other hardware often excluded from reliability predictions, which is important from a maintainability perspective. Both Corrective and Preventive Maintenance analyses are supported. ASENT calculates maintenance times (both mean and max, i.e. MTR, MMaxCT, etc...) and outputs the result in both minutes and hours (see Figure 1).

Organizational, Intermediate, and Depot levels of repair are fully supported for procedures II and V of MIL-HDBK-472. The tools powerful "what-if" mode instantly models the impact of various design and maintenance tradeoffs in real time.

ASENT's built-in task libraries (MIL-HDBK-472, RADC-TR-84-165) greatly reduce the time spent entering data. Also, since replacement tasks are often the same as remove tasks, only listed in the reverse order, ASENT allows you to enter these with a single click of the mouse (see Figure 2).

The tasks are then automatically entered and the appropriate task times are pulled from ASENT's built-in task time libraries (see Figure 2). When you combine this information with customizable Task Libraries, and the ability to enter Judgments as difficulty factors for working in hard to reach or adverse conditions, you get a powerful combination of maintenance planning tools.

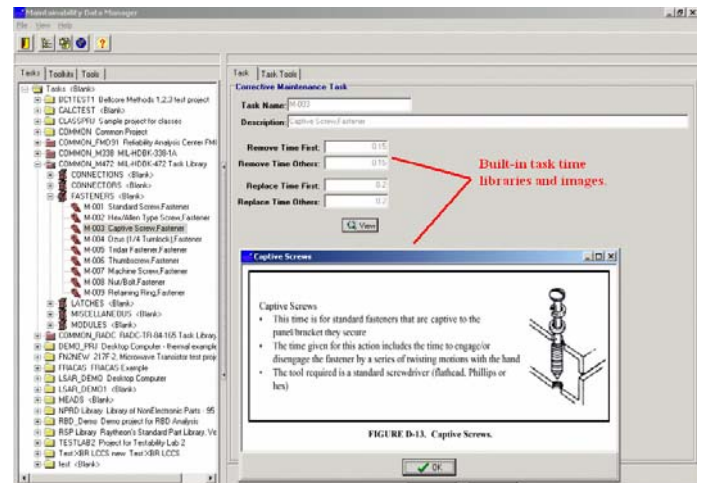


Figure 2 - Built-in Task Libraries and Images

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Highlighting the ASENT's Maintainability Toolkit (continued from page 3)

Inherent, Achieved, and Operational Availability are calculated as part of the analysis and are prominently displayed, along with other analysis results on the prediction results screen shown on Figure 1 above. With ASENT, the analysis results are consolidated on one, easy to read page, so that the affect on your system can be quickly determined. Of course, the Maintainability Toolkit comes with an extensive suite of reports. ASENT's comprehensive reporting allows users to quickly

slice the data, so that they can view just the information they want. The convenient Excel format makes it particularly easy to incorporate outputs into customer deliverables.

Prediction results at a glance (see Figure 1), built-in task time libraries and images (see Figure 2), a familiar spreadsheet interface (see Figure 3), the flexibility to add judgments and difficulty factors, and extensive modeling capabilities all help put ASENT's Maintainability Toolkit into a class by itself. ✨

Item RD	Name	Description	Quantity	Fakrate	K factor	K*FR	FDI Time	Disassembly Time	User Set	Interchange Time	User Set	R
1A1	Mag Assy	Magnetometer Assembly	1	13.000000	1	13.000	2.00	1.00	<input checked="" type="checkbox"/>	1.00	<input checked="" type="checkbox"/>	
1A2	Mag Det	Magnetic Detector	1	188.400000	1	188.400	4.00	8.00	<input checked="" type="checkbox"/>	8.00	<input checked="" type="checkbox"/>	
1A4	PwrSupply	Amplifier-Power Supply	1	171.000000	1	171.000	2.00	1.00	<input checked="" type="checkbox"/>	1.00	<input checked="" type="checkbox"/>	

Figure 3 - Corrective Maintenance Spreadsheet

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



EAGLE iLog Used in Raytheon Programs

Raytheon-Tucson Product Support has been awarded a contract to supply LSAR in DEF STAN 00-60 format and Technical Publications in AECMA S1000D format. The Raytheon Team will be using the EAGLE iLog application to meet these requirements. The following iLog components are being used:

- EAGLE DEF STAN 00-60 for LSAR
- AcQuired for a S1000D Common Source Database (CSDB)
- MatriX viewer for viewing the S1000D IETP

Team EAGLE is working with the AMRAAM Logistics personnel to convert existing MIL-STD-1388-2B data to DEF STAN 00-60 format. Both AMRAAM and Raytheon North Texas Logistics personnel were trained on AEMCA S1000D, AcQuired and MatriX during the first week of September. Team EAGLE will be providing on going consulting for the next 5 years in support of the AMRAAM DEF STAN 00-60 and AECMA S1000D project. Other Raytheon sites using EAGLE iLog include Falls Church, VA and El Segundo, CA. ✨

For information on **EAGLE iLog**, or to arrange an online demo, please contact Tony Zucco at 520-663-8461
email: raytheoneagle@raytheon.com
<http://rtsc.raytheon.com/eagle/index.html>



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Raytheon



Logistics Software Development Laboratory and Logistics Business Systems Announce Strategic Alliance in Support of S1000D

Tucson, Arizona, and Preston, England - July 30th, 2004
Raytheon technical Services Company LLC (RTSC) the creators of EAGLE and Logistics Business Systems (LBS) the world leaders in integrated logistics support software today announced that they have formed a strategic alliance to support the increasing demand for S1000D compliant software solutions to support the US defense industry.

"The pedigree of iLog in supporting international S1000D projects is unsurpassed. It is the most widely used S1000D production and management system in the world, supporting over sixty clients in nine countries and almost every major defense program to emerge in Europe for the last 5 years."

Wayne Hawkins, LSDL Director
Miles Robinson, LBS Commercial Director

Products: The Complete Solution for S1000D

iLog EAGLE. An enhanced integrated logistics support software system. Its LSAR (Logistic Support Analysis Record) relational database (based on and fully compatible with MIL-STD-1388-2B, MIL-PRF-49506 or DEF STAN 00-60) provides a complete logistics architecture. iLog EAGLE goes beyond the specifications by adding engineering drawings, technical manuals, video support, and other functions.

iLog AcquirED - Common Source Database (CSDB). It has become the de-facto standard for the AECMA/ASD S1000D Common Source Database. AcquirED enables the production and management of modular units of information in accordance with AECMA 1000D and Def Stan 00-60 Electronic Documentation requirements.

iLog AcquirED - Publishing Station. It is an automated Interactive Electronic Technical Publication (IETP) builder that integrates into the CSDB, and an implementation of the S1000D IETPX specification, which produces an XML dataset to the standard.

iLog Print Services - Pagination Engine. Print Services is a pagination engine running as a web service for the rendering of SGML/XML data modules as PDF documents.

iLog Matrix - IETP. Matrix is the Interactive Electronic Technical Publication (IETP) viewing application. It is integrated into the **Publishing Station** application so that complete IETPs can be published at the touch of a button. Matrix has a built in search engine for fast and easy retrieval of information and supports the use of all known image types including CGM and SVG. ✨

For more information on these products: <http://www.lbs-ltd.com/>

2004 EAGLE / iLog User Conference



The 2004 User Conference will be held in London, UK from October 11th thru 13th. This is our 3rd annual User Conference and, based on the attendance and success of the prior two years, it

promises to be another exciting and important event that you would not want to miss. This is the unique opportunity for you to:

- **Meet other users**
- **Speak with our software developers**
- **Provide your ideas and requests**
- **Receive hands-on advanced training**
- **Share your knowledge and experience**
- **Learn about new developments**

This 3rd Annual User Conference is expected to bring together many EAGLE and iLog users from approximately nine countries representing several different organizations. This is the time and place where ideas, experience and knowledge can be freely shared to the benefit of all users and participants.

The User Conference organizers have put together a first class three-day Program, which includes exciting topics, seminars, and expert speakers from the Defense Logistics Industry, the Raytheon and LBS software development teams, and the user community.

The Program includes seminars of great interest to the EAGLE / iLog user community, covering not only current topics but also future trends and developments.

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2004 EAGLE / iLog User Conference (continued from page 5)

SEMINARS

- AcquirED Release 4 Overview
- Advanced Database Querying
- Aspect/EAGLE Integration: Current Status and Future Requirements
- Australian Defense Force Implementation of EAGLE and MMIS
- EAGLE Full File/Bulk Loading Data
- EAGLE MMIS Configuration Management System
- EAGLE Release 5 Overview
- e-Learning and Technical Documentation Integration
- iLog 3D
- iLog.net Overview
- LBS Research and Development
- Legacy Technical Publication Conversion into XML using EAGLE
- Life Cycle Costing – The Integrated Way
- Logistics/Support Modeling Overview
- MMIS – Depot Maintenance Management Using EAGLE
- PLCS and iLog
- Technical Documentation and End-to-End Process

LATEST VERSION OF OUR TOOLS

AIMSS	4.5	(Oct 2004)
ASENT	11.0	(May 2004)
EAGLE	4.5.3	(Dec 2003)
MMIS	4.5.3	(Dec 2003)

LSDL PRODUCT SUPPORT

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For more information on our products:

<http://www.raytheonlogisticstools.com>

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In addition to this exciting list of seminars, there will be guest speakers, advanced hands-on training and product demonstrations. You will have a unique opportunity to meet the tool developers, tell them what you need, and learn how these tools can greatly increase your success and the success of your customers.

And last, but not least, you will have the opportunity to exchange your ideas and experience with other users and develop long lasting professional relationships. ✨

Time is running out... Register TODAY!

<http://rtsc.raytheon.com/eagle/userconf2004.htm>

Raytheon

Customer Success Is Our Mission