LSDL Newsletter

Volume 5, Issue 4
December 2006

Wayne Hawkins
Director

Message from the Director

2006 EAGLE/iLog Conference a Rousing Success

As 2006 comes to a close, we have a lot to be thankful for. First are our customers, new and old, who have made our tools the best in the world. Second our team of dedicated and very hard working people. Together they have made it possible for our tools to be known and used around the world. AIMSS, ASENT, EAGLE, MMIS and iLog are synonymous with great logistics tools. We look forward to 2007 with optimism and plans for continued growth.

We have just concluded our fifth annual EAGLE/iLog user conference in London UK. I am pleased to announce that it was a very successful conference. We highlighted our S1000D solution and the acceptance we have found among customers seeking S1000D solutions with several sales and installations for this new product. We had over 85 users from nine countries attending the conference. A survey we conducted suggested that all had a great learning experience.

In This Issue…

One of the highlights of the conference was a visit to Parliament House. A Member of Parliament, Mark Hendrick MP from Preston, UK, hosted a cocktail reception for the conferees. Pictured below are Wayne Hawkins, Miles Robinson, Mark Hendrick MP, and Gary Davies. (see article on page 7).

W. Hawkins, M. Robinson, M. Hendrick, G. Davies

I attended the fall AIA conference in Hilton Head South Carolina, 6-9 November. During the conference, Raytheon and their Navy partner on the AAS-44 Performance Based Logistics (PBL) project received the Secretary of Defense award for the best Sub-System level PBL project for 2006. There were 25 other projects vying for this coveted award. It is always special when your peers recognize your efforts and single you out for an award like this. This is another example of the Maintenance Management Information System (MMIS) software promoting successful execution of a PBL program. MMIS is the ***proven*** PBL enabling tool. (see article on page 6)

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The next conference where we can show off our tools is the annual RAMS conference. This year the conference will be held in Orlando from 22 -25 January. In keeping with the R & M focus of the show, we will be highlighting our ASENT tool, however we will have all of the tools, and their technical experts, available for any questions or requests you might have.

It is time to start preparing budgets for 2007. In that regard do not forget to plan and budget for the 2007 user conference which will be held at the Lowes Ventana Canyon Resort in Tucson Arizona. Next year's conference will be held from the 14th thru 17th October. We are planning several special guests -- you do not want to miss it! For more information visit:

http://www.raytheoneagle.com/userconf2007.htm

Ron Newman moves to Greener Pastures

After over 30 years with Hughes Aircraft Company and Raytheon Technical Services Company LLC, Ron retired to join O'Neil and Associates, Inc. as Director of eTool Products. Ron has been a member of the LSDL team for over 10 years. As the Director for Sales and Marketing, he has made major contributions to the success of the organization. Some of his key program wins were, gAME, JEOD, and IConvert. These programs brought in over $30M in Bookings and Sales to the company. It is a sad day to lose a long time friend and member of the team. Ron, we wish you the best of luck in your new position and look forward to doing business together in the future.

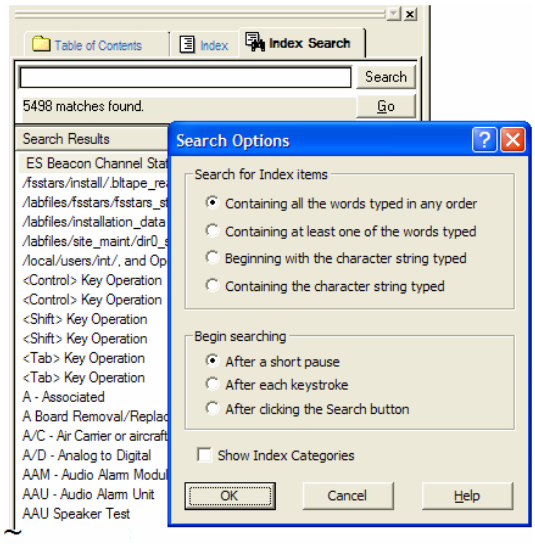
Highlighting AIMSS Version 4.7

AIMSS Version 4.7 has been released and contains some exciting new enhancements, including improvements to the Index, Annotations, and XML Export

Index Enhancements -- AIMSS **Index Search** has been improved, providing the User with more flexibility to conduct searches of the Index. One of the improvements discussed below is dynamic continuous search, sometimes called "Word Wheel" search. This option is available if the User selects either of the first two **Begin Searching** options.

There are several new options available for how to conduct searches. To access the Search Options, the User can select **View>>Preferences** and press the **Index Search Options…** button on the **Preferences** dialog or Index Search Options can be accessed from the Index Search window of the TOC/Index via the context sensitive Right-Click menu. Either selection displays the Search Options dialog.

The search options control which items the search returns, and when the search begins, in addition to whether or not the Index Categories are displayed as part of the search results. Following is a description of the Search Options dialog box:



Index Search Options Dialog

Search for Index Items:

- **Containing all the words you typed in any order** – Uses whitespace to separate words *or partial words* that are *all* contained in any order in an index entry.

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For example, the search pattern "**lo do**" would return the index entry "**Do**or Hex Bolt **Lo**cations" since the partial words **lo** *and* **do** are contained in the entry.

- **Containing at lease one of the words you typed** – Uses whitespace to separate words or partial words, *any one of which* is contained in an Index Entry. The search pattern "**lo do**" in this case would return "OL565 Power Switch **Lo**cation" in addition to "**Do**or Hex Bolt **Lo**cations" since "**lo**" alone is contained in the entry.
- **Beginning with the character string typed** – The entry must *begin* with all of the characters typed in the order they were typed. The search pattern "**Ann**" would return the entry "**Ann**otations". If the search pattern were extended to "**Annn**", "Annotation" would not be returned.
- **Containing the character string typed** – The entry must *contain all* of the characters typed *in the order they were typed*. This includes spaces as a legitimate character in the search pattern. "**of c**" would return the entry "Number **Of C**ylinders"

Begin Searching:

- **After a short pause –** Searches for the search pattern a moment after one stops typing.
- **After each keystroke –** Executes the search after each key is pressed.
- **After clicking the Search button –** Waits to search until the **Search** button is pressed.

Show Index Categories – Includes Index Categories in search results when checked and omits them when unchecked. One cannot "Go" to Index Categories; they are merely used to organize Index Entries. Double-clicking on an Index Category in a search result list will display that category in the main Index, allowing User to see the topics it contains.

Annotation Enhancements – AIMSS Version 4.7 provides some exciting annotation enhancements to streamline the comment and review process. These annotation enhancements include the ability to:

- Automatically save a session file for each annotation comment created
- Run Annotations that include a reference to a session file which will restore the saved session and Navigate to the Annotation location
- Automatically create individual Annotation files for each annotation comment
- Pre-Pend Annotation File names when Auto Create Annotation Files is enabled
- Unload a specific Annotation file or Unload All Annotation files
- Multi-select Load and Merge files
- View individually formatted Annotation files within a Browser

Auto Save Session – The Auto Save Session capability allows for the automatic creation of a session file for each new Annotation comment.

Run Capability – The Annotation Run capability is at the heart of the Annotation enhancements and is available in both AIMSS Author and Runtime. If the associated annotation comment has a session file, the Run button will be enabled. When the User selects Run, the current session will be closed and a restore session will be performed. This facilitates the IETM restoring the state of all variables, navigation history, and navigating to the location of the Annotation stored in the session file. This ensures that the IETM is restored to the same state as when the annotation comment was originally created. There is now no need for Users to go through the manual process of creating AIMSS Bookmarks or save session files for individual annotation comments.

Enhanced XML Export - AIMSS XML Export has been enhanced to break down the exported instance into more easily reusable pieces. Rather than a single file instance, the XML is exported into individual files that are entity referenced to bring them together under the main instance document. A new AIMSS XML Document Type Definition (DTD) (AIMSS4VX.DTD) has also been provided and is installed into the AIMSS/Author/SGML directory.

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

Robert Schwarzberg: 866-773-0557
Email: aimss_support@raytheon.com

http://www.raytheonaimss.com

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Team EAGLE Releases New Version of the iLog Suite of Tools

The latest version of iLog (2.1) will be available the first week in December, 2006. This version represents a dramatic increase in functionality for the market and is a technology-leading integrated logistics tool set. With this new release users will have a seamlessly integrated product with increased functionality in all areas.

iLog 2.1 introduces Aspect Lite, a new product for producing S1000D Indentured Parts Data Modules (IPDs) without S2000M provisioning. This new product allows users to create S1000D IPDs - without the overhead of S2000M provisioning - when integrated iLog provisioning data is controlled by EAGLE.

EAGLE includes a complete new discipline for Reliability Maintainability and Testability (RMT) analysis. It can be used for Reliability, FEMCA, Testability and Maintainability analysis. The RMT system is completely integrated with the current EAGLE process and allows users to generate logistics data from the above analysis.

EAGLE 7.0 includes the following major enhancements:

- Support for Epic 5.2 XML editing of Subtasks
- Hotspotting available when editing Subtask XML
  - Launched from Epic – Same as AcquirED
- Data Module Bulk Release
  - Allow uses to query for which Data Modules to release
- Support for <idstatus> data
  - XML Editing option
  - Capabilities expanded to include all elements and attributes
  - Store generic XML by End Item, for example: Copyright Data
- EAGLE S1000D Users Manual
- Database Schema Help
- XP look and feel
- RMT Discipline
  - Generate LSAR Data from RMT Analysis
  - Reliability Analysis
  - Failure Mode, Effects and Criticality Analysis (FEMCA)
  - Testability Analysis
  - Maintainability Analysis
- LSAR Reports Uploaded to Document Storage
- Documents Tied to Part
  - Available on Tool Bar (Like Artwork/Drawings)

The major enhancements to the AcquirED family of tools include:

- AcquirED
  - Support for ATA 2200 data modules
  - XML content management capability
  - Enhanced LCMS SCORM functionality
- Matrix
  - Issue 2.3 multimedia support
- Process DM Editor
  - EPIC 5.2 Support
- AuthorIT
  - LSAR Hotspotting
  - EPIC 5.2 Support
  - Integration with XML CMS

The MMIS major enhancements include:

- Lessons Learned Application
- Support for UID/RFID
- Database Schema Help
- Customizable Menu by User
- FRACAS Field Failure Wizard
- Parametric Data Analysis Tool
- Linking of Child Travelers
- Track Actual Operation Hours vs. Standards
- As Built Load from standard File
- Preventative Maintenance LSAR Task Linking

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

Anthony Zucco at: 520.545.6885
Email: afzucco@raytheon.com

http://www.raytheoneagle.com

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ASENT FRACAS Selected for ASTOR

ASTOR, the Airborne Stand-Off Radar program being supplied by Raytheon Systems Limited (RSL) to the UK Ministry of Defense, is an advanced ground surveillance system which will be jointly operated by the RAF and the British Army.

The system provides a highly effective 24-hour surveillance and target acquisition capability. It delivers wide area, all weather surveillance and reconnaissance imagery in near real time for national, theatre and tactical headquarters.

ASTOR utilizes the Bombardier Global Express new-generation business jet, equipped with advanced AESA radar. The system consists of five aircraft, which, in service, will be known as the Sentinel R1, and a number of Ground Stations.

ASTOR Tactical Ground Station

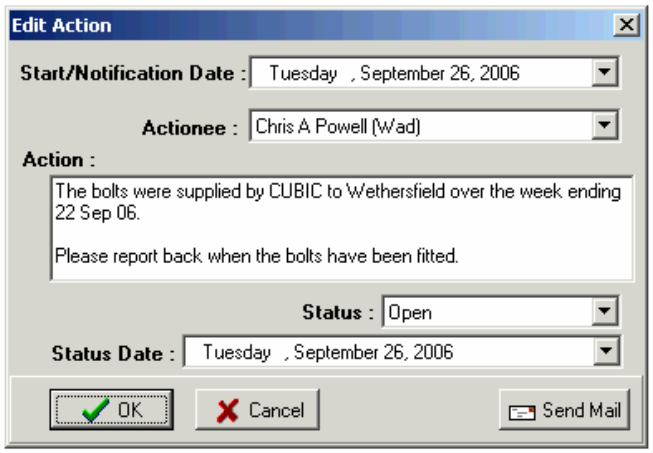
Tactical Ground Stations are based on Steyr 6x6 improved medium mobility load carriers, while Operational Level Ground Stations consist of purpose built transportable ISO containers.

The ASENT FRACAS (Failure Reporting and Corrective Action) tool was selected by ASTOR as the Defect Reporting and Corrective Action tool of choice for the project. This enterprise wide solution was chosen for the simultaneous multi-user access it provides to a single integrated database, as well as its responsiveness across several widely dispersed sites with varying levels of connectivity and bandwidth.

ASTOR Sentinel Flyover

The extent of this connectivity is demonstrated daily by engineers at L3 Greenville connecting and updating data on the server located in the United Kingdom.

Many of the unique capabilities of the ASENT FRACAS tool were enhanced as part of this effort, with the graphics storage and retrieval capability being extended to video, Acrobat PDF files and Microsoft Word documents. These data formats were in addition to the standard graphic formats such as JPEG, JPG, WMF, GIF, BMP and TIF that are also supported by ASENT.



Email Notification of Action Items

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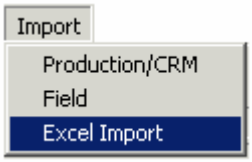
A new set of capabilities were added to track actions taken on any failure report, and to assign actions to team members. Team members are notified by email of action assignments and updates. The graphic on the previous page shows an example of assigning an action and notifying the actionee by email.

The ASENT team continues to work closely with the ASTOR program, and enhances the FRACAS tool, as needed. In addition to the enhancements made for the ASTOR program, the FRACAS tool has undergone some architecture changes to make many of the display attributes, menus, and data import types database driven. This provides greater flexibility for tailoring the FRACAS environment, when desired by individual customers, without the need to modify and distribute new client software.

An example of this is the new Excel data import format which allows failure data to be imported via an Excel template. New menus were added to the FRACAS Session Manager by merely updating the menu data on the server.



Import Menu

Above is shown an example of a data-driven import menu in the ASENT FRACAS tool. Users can import production or field data from either an Access or an Excel format. This provides an easy and automated way to collect data that has been recorded off-line and consolidate it into a central FRACAS database.

This article just begins to scratch the surface of the capabilities found in ASENT's FRACAS tool. Be sure and visit our website for more details.

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

Rich Herman at: 972-344-6179
Email: rherman@raytheon.com

http://www.raytheoneagle.com/asent

SAS-PASS Wins DoD Performance Based Logistics award.

Raytheon Space and Airborne Systems (SAS) Precision Attack and Surveillance Systems (PASS) division Wins Department of Defense (DOD) Performance Based Logistics (PBL) Award for AAS-44 PBL (project).

The AAS-44 PBL (known as the H-60 FLIR PBL by the Navy) has been selected as the DoD PBL Award Winner in the Subsystem Category for 2006. Awards are given in three categories; system, subsystem, and component. Nominations are culled by the Army, Navy, Air Force, Coast Guard, DLA and other DoD agencies. After the nominations are culled the best candidates are submitted to DoD for final selection. There is one award winner per category per year. This is the second year the awards have been given. Winning this award is a great achievement for the Program, CPS, PASS, SAS and Raytheon.

The AAS-44 PBL program just started its fourth year of execution enabled by a fully funded delivery order for FY07. During the prior three years the program has provided 100% availability based upon requisitions filled on time. The engineers have improved the reliability of the system by 40%. They have trained over 200 Navy Avionics Technicians to enable them to meet their mission requirements by improving their maintenance capabilities. Program Management and Supply Chain have created the first Public Private Partnership between Raytheon and a DoD depot - a project for which the program received the R6 Sigma Presidents Award in September 2004. Outstanding results achieved through innovation and dedication. Evidence of why the program was selected for the award.

A large amount of uncharted territory has been mapped by the program as they define the opportunities and possibilities of the PBL business. Their efforts have been benchmarked by many others attempting to enter the PBL business environment. The recognition this award brings is well deserved. If you see a member of the AAS-44 PBL team please take a minute and give them your congratulations on this award. Their efforts have helped us see what is possible in the PBL business.

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iLog-on-Thames: Second Biennial London iLog Users Conference

We would like to thank all the iLog users who attended the 2006 iLog User Conference and made it such a successful event. This year's conference was held at the Hilton, London Docklands and was attended by iLog users from over 20 companies from 9 countries. The conference was opened by Mike Mahaffey, Director of Raytheon, who gave a presentation on Performance Based Logistics – The future of defense logistics.

From left to right: Gary Davies (LBS), Ian Boulton (LBS), Mark Sprague (Raytheon), Miles Robinson (LBS), Wayne Hawkins (Raytheon), Anthony Zucco (Raytheon), Mike Mahaffey (Raytheon)

The intensive two day program outlined the iLog product strategy and demonstrated the many new and exciting features of iLog 2.1. We were delighted with the positive feedback regarding the new features of the forthcoming release. Once again the conference gave our customers a great opportunity to share, with others, their experiences of implementing the standards and our tools. Presentations were given by Raytheon, LBS and Integrated Vendors. Thank you to the following presenters: Paul Allen (LBS), Ian Boulton (LBS), Aaron Feltman (Raytheon), Connell Gallagher (Parallel Graphics), Ajay Gupta (Old Dominion University), James Rosas (Raytheon), Chris Turner (LBS), Dave Tyler (AAC USA), Mark Sprague (Raytheon), Greg Wieber (Raytheon) and Anthony Zucco (Raytheon).

Presentations including case studies on MMIS, review of new and future iLog capabilities, iLog SCROM features, iLog Web features and analysis of industry trends in tech manuals and logistics.

The iLog team captured some really valuable feedback regarding specific enhancements customers would like to see incorporated into the product set and these have been fed into the product development process.

On day 2 of the conference, the delegates were treated to an afternoon reception at the Houses of Parliament, hosted by Mark Hendrick MP. Mark Hendrick, Member of Parliament for Preston, gave a speech welcoming the delegates and saying how pleased he was to be hosting LBS for the second time.

The 2007 iLog User Conference will take place on 14th to 17th October 2007 at the Loews Ventana Canyon resort, Tucson, Arizona.

Team EAGLE in Norfolk

On November 1st, 2001 Norfolk, Chula Vista, Goleta RTSC Depots transitioned from IPS mainframe database to EAGLE. Over 17,000 asset repair records were re-mapped to the new system. Currently there are over 33,000 asset repair records in Norfolk's EAGLE database. In 2003 they began transitioning to MMIS. Their goal is to be 100% MMIS web-enabled by November 2006.

The EAGLE/MMIS Team in Norfolk, Virginia is an extension of Tucson's EAGLE/MMIS development team. They support Norfolk, Chula Vista, and Goleta RTSC Depots and their customers with EAGLE/MMIS. They also provide direct support to the FAA customer in Oklahoma City and Raytheon NCS. Some of their capabilities include:

- EAGLE/MMIS Help Desk
- MMIS Consulting
- MMIS Setup and Training
- MMIS Product Enhancements
- Report Development
- MMIS Hosting

MMIS has become a proven PBL (Performance Based Logistics) tool. Customers like; AEGIS, NATO Sea Sparrow and NESP (USC-38) are using MMIS in Norfolk as their toolset to manage their assets and metrics.

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PBL capabilities include demand based inventory management, requisition tracking, due-in tracking, workflow, and PBL metrics reporting.

Currently the EAGLE/MMIS Team in Norfolk supports over 40 programs. In addition to the PBLs, they also support other customers like; NAVICP, Patriot, STARS, ATCBI-6, DASR, SURC and GBS. Norfolk's MMIS database tracks over 6,300 parts through the depot repair process. Additionally, MMIS is used for As-Built/As-Maintained configuration control, warranty tracking, and FRACAS failure data collection.

Some of the MMIS enhancements developed in Norfolk include:

- Lessons Learned Database module - Used to track and document lessons learned, issues and solutions on a project, system, or facility; thus, helping to prevent wasted time spent re-analyzing known issues.
- Quality Assurance module – Used to track QA acceptance and rejections on items in repair.
- UID capability to meet the DoD mandate.
- Reporting module – Used to facilitates deployment of reports
- Requisition module for Air Traffic Management – Used to track field demands and asset due-ins
- CONUS animated map module – used to track field demands and due-ins.
- Awaiting Parts module – Used with SAP MM10 report to assist Item Managers in material receipt for repair items awaiting parts.

From left to right: James Mauldin, Roger Pickerel, Richard Negron

Currently the Norfolk EAGLE/MMIS team is partnered with Old Dominion University to support development efforts and new technologies.

For more information please contact:

Richard Negron at: 757.852.2123
Email: Richard_a_negron@raytheon.com

Latest Version of Our Tools:

AIMSS	**4.7 (August 2006)**
ASENT	**12.0 (June 2006)**
EAGLE	**7.0 (December 2006)**
iLog	**2.1 (December 2006)**
MMIS	**7.0 (December 2006)**