

Message from the Director



Global Scope

Logistics by its very nature is global in scope, supporting personnel and equipment throughout the world, so it is only natural that our tools and sales efforts should also be global. This past quarter has been a prime example of that global scope. I joined Mark Behrens and Bob Pearson in supporting a conference, highlighting our tools, being conducted in China by Techy Sky, our in country reseller. The conference was well attended by over 200 engineers and students. Mark conducted an introductory EAGLE training course for a capacity audience earlier in the week. Bob highlighted the operation of AIMSS, available in Chinese, and provided a brief overview of ASENT. All these presentations were very well received, judging from the questions and comments from the attendees. Mark and Bob have articles about these latest experiences in China in this issue of the newsletter. I would like to thank Lisa Zahng for her kind hospitality to the team during our visit.



Members of the Techy Sky team after the conference

Back in the States, Ian Boulton and James Rosas presented our S1000D solution at the Lockheed Martin Technical Publications conference, and generated a lot of interest and follow on contacts.

The following week we were in Orlando exhibiting our tools at the SOLE 2008 conference. I am always pleasantly surprised and energized by the number of people that we talk to at these gatherings and their enthusiasm for the profession and our ability to make them more productive. We have a number of new capabilities scattered throughout our various tools, some are somewhat subtle but have a very profound positive effect on the productivity of our users.

Come to the EAGLE/iLog training symposium and learn about these latest enhancements to the tool set. Being under maintenance, most users receive and install the latest versions of the tools, and have a number of these time and money saving capabilities available, but may not know it! Come to the symposium and discover the treasures that are already yours! As usual, we will have a number of presentations on different subjects, including our S1000D solution, so if you have not had the opportunity to learn about this great approach, you have another chance! Our domain experts and tool developers will be there to answer your questions and I am looking forward to some exciting discussions, which have become one of the hallmarks of this gathering. See you there!

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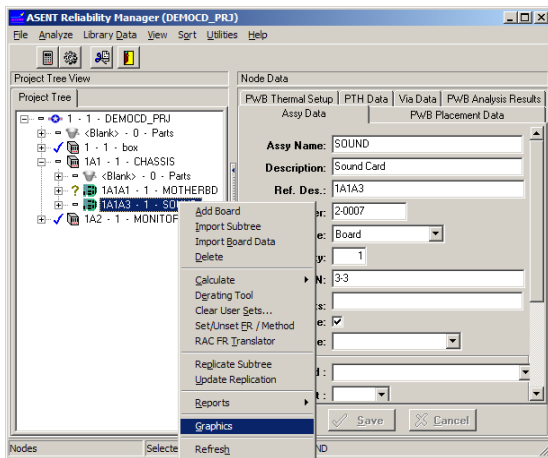
September 2007



ASENT's Graphical Advantage

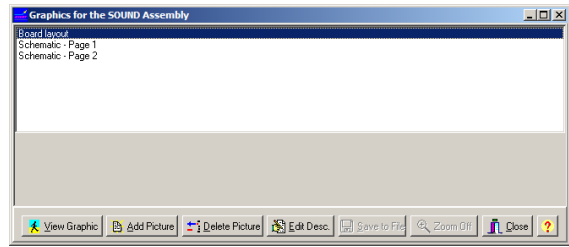
Most Reliability and Maintainability tools are quite limited in the type of data that they are able to store and display. They provide part lists or task lists in some sort of data grid format, but often omit important design information that was used for the original analysis. While this level of documentation may initially seem adequate, later, when the contract requires updates to the analysis, it becomes painfully clear that this approach did not capture all of the necessary design information.

When confronted with the requirement to perform an update submittal, the analyst is presented with two alternatives, both of which are distasteful: 1) start the analysis from scratch on the current design, or 2) attempt to resurrect a previous revision of the design documentation, something drawing systems are typically not optimized for. Either option involves a lot of manual labor. This is not a pleasant thought when you realize that another update will be required in the near future, since most contracts require quarterly or annual updates throughout the product life cycle.



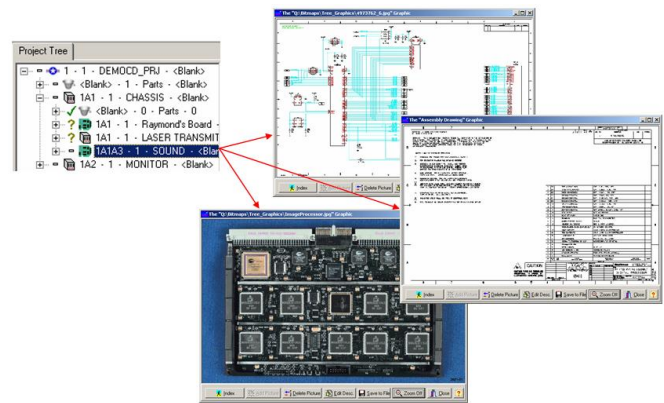
Graphics Menu Option

ASENT provides a welcome alternative, which allows you to be more productive, making analysis updates less cumbersome.



Graphics Index for Selected Assembly

In addition to data that most tools provide, ASENT's built-in graphic capabilities allow you to capture the schematic, bill of materials/assembly drawings, photos of the hardware, video, and associated vendor documentation. This allows you to easily store and manage all of the necessary design information, and have it readily available when its time to update your analysis.



Assorted Graphics and Drawings

Later, graphics or drawings can be exported to files for use in reports or for printing. Since they are stored on the server database, they are immediately available to all of the project users, regardless of whether the analyst is different, or their computer has been upgraded or changed out - no more lost files! All you need for the update is the current design documents and the design changes become easy to identify and address. Saving the current documents allows you to build a history of the design through the project life cycle, something that can be very useful for Failure Reporting and Corrective Action (FRACAS) efforts, later on.

A wide variety of graphics formats are supported (e.g. JPG, GIF, TIF, WMF, MPG, MPEG, AVI, WMV, MOV) in addition to Adobe PDF files and Word Documents.

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Capturing this data makes it much easier, later on in the project, to determine what design changes have been made (e.g. parts being moved on the board, changes in part numbers or the addition of cooling aides).

You control how the information stored in the ASENT database is displayed. Using Windows file association tool to choose a specific tool for a file extension, ASENT invokes the viewer you selected to display images, video, Word Documents or Adobe PDF files. A built-in, default viewer is provided for all other graphic formats.

In the Maintainability Analysis you can attach graphics and video to tasks (in addition to the graphics you can attach to assemblies) to illustrate the conduct of the task, both proper and incorrect, and capture any tips on how to approach the task. Initial sketches are provided for all Mil-Hdbk-472 tasks, but you can add other illustrations or replace the existing ones. You can use the video capabilities of ASENT to demonstrate to your customer how your analysis efforts have produced a system that is quick and simple to maintain with short video clips of the maintenance actually being performed!

The Maintainability Manager then becomes a repository for the graphics you have collected during the development project, and these graphics and video can be easily transferred to AIMSS to support an Interactive Electronic Technical Manual, a computer driven maintenance guide.

The ASENT Graphical Advantage provides you with a rich resource. It allows you to perform analysis updates more productively, make presentations and analyses more effective, all while making your professional life simpler.

The ability to store, manage, and view graphics is just one of many useful tools that you will find in ASENT 12.5. There are many opportunities throughout the year where you can join us online to become better acquainted with ASENT. If you would like to arrange a special online meeting specifically for your group or company, please contact us.

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

Rich Herman at: 972-344-6179
Email: rhorman@raytheon.com
<http://www.raytheonagle.com/asant>

LSDL Provides Training and Consulting to Techy Sky Technologies in Beijing, China

In August, Mark Behrens, LSDL Principle Software Engineer, traveled to Beijing, China and provided training and consulting to Techy Sky Technologies. Techy Sky Technologies, headquartered in Beijing, China, is the sole authorized reseller of LSDL products within the Peoples Republic of China. During Mark's two week visit with Techy Sky, Mark provided detailed design information on the EAGLE/MMIS database schema, EAGLE client and functionality of MMIS.



Techy Sky employees in Beijing, China receiving EAGLE and MMIS training.

In particular, Mark addressed several software issues peculiar to EAGLE and MMIS being operated with Chinese as the working language of the Oracle database and the Windows client. In addition, Mark provided EAGLE training that covered; EAGLE database objects and general information, the differences and similarities between MIL-STD-1388-1A, MIL-STD-1388-2B, MIL-PRF-49506, DEF STAN 00-60, and GEIA-STD-0007 and how they are addressed by EAGLE. Mark provided EAGLE and MMIS training, and introductory training on EAGLE's Reliability, Maintainability and Testability (RMT) Discipline, Data Configuratiion Management Discipline and EAGLE's SGML/XML Technical Manual capabilities.

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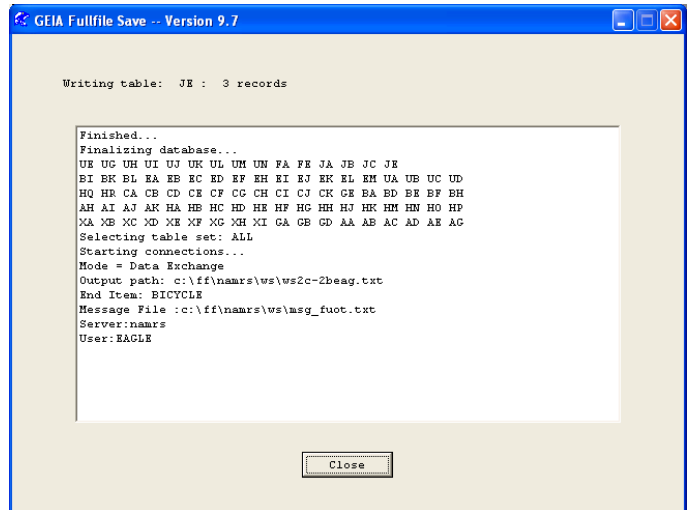


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Mark concluded his visit by providing an EAGLE/MMIS presentation and demonstration at the Techy Sky ILS Technology and Solutions Conference hosted by Techy Sky.



Mark Behrens, center right, during EAGLE and MMIS training at Techy Sky in Beijing, China.



GEIA Fullfile status dialog

For convenience, the EAGLE GEIA-STD-0007 system allows the user to manipulate logistics data using the complete GEIA-STD-0007 syntax (i.e. long entity names), or the abbreviated "eight letter" column names as found in MIL-STD-1388-2B and DEF STAN 00-60. This flexibility provides advanced users the ability to work with the data using familiar short names, while allowing novice users to see the "plain English" names they can easily understand.

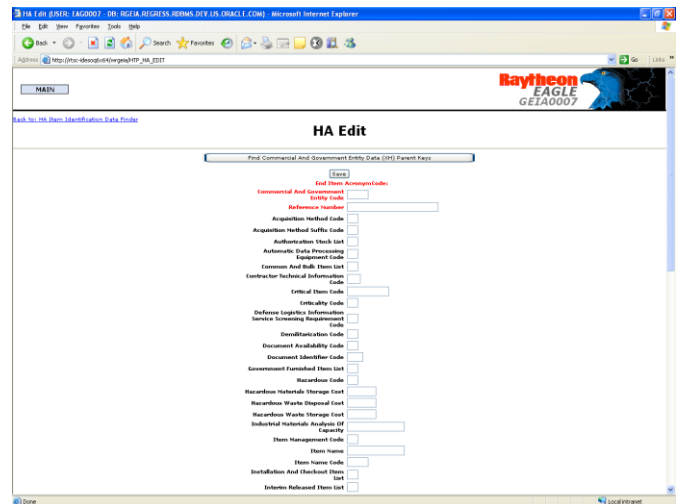


EAGLE now supports GEIA-STD-0007

Team EAGLE is pleased to announce two solutions to provide data compliant with the new GEIA-STD-0007 specification.

Users of EAGLE who maintain their data in MIL-STD-1388-2B will soon have a new option of producing a GEIA-STD-0007 compliant Full File in addition to their MIL-STD-1388-2B, DEF STAN 00-60, and EAGLE Proprietary (fixed column and XML) based full files. In cases where existing data remains unchanged but needs to be provided in the new format, the new Full File application brings a simple, nearly transparent solution.

For new programs with contract data requirements specifying GEIA-STD-0007, a brand new version of EAGLE has been developed as a standalone application to meet this need. Utilizing a new XML entity management system, EAGLE GEIA-STD-0007 provides the flexibility of XML data interchange with the rock-solid performance of the relational database model utilized in EAGLE's current 1388-2B and DEF STAN 00-60 solutions.



EAGLE Web GEIA HA Edit screen

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Once the data is ready for submission to the customer, the new EAGLE GEIA-STD-0007 system provides XML data interchange in the form of GEIA-STD-0007 Full File and Change File import/export, as well as the export of each of the GEIA-STD-0007 transaction sets: Provisioning, Packaging, and Task Analysis, as well as a simple interface for performing data transformation using the standardized stylesheets.

In addition to the integrated support for the standardized GEIA-STD-0007 validation stylesheet, EAGLE GEIA-STD-0007 users also enjoy the data integrity features found in the existing EAGLE database solutions. Knowing that bad data cannot be entered into the EAGLE database, coupled with the final check against the GEIA-STD-0007 validation stylesheet, users of EAGLE GEIA-STD-0007 can be confident that their data will be accepted by the customer.

For more information on EAGLE / iLog, contact:
Anthony Zucco at 520-545-6885
Email: raytheoneagle@raytheon.com
<http://www.raytheonlogisticstools.com>

Bob gave an overview of the AIMSS and ASENT tools including case studies of how these tools have simplified the analysis of complex systems and improved field maintenance.

Bob highlighted ASENTs advanced Client Server Architecture, Concurrent development capability, simple tree structured interface and intuitive graphic thermal profiles. The extensive use of industry standards for Reliability, Maintainability, Availability, Testability, and Thermal Analysis were of particular interest to both the professors and industry managers in attendance.

The AIMSS presentation included AIMSS history and the advantages of being able to embed subject matter expert knowledge and decisions into the technical data. The trade studies presented showed how AIMSS has provided integrated intelligence real-world solutions to the FFA on the STARS program and General Dynamics on the Expeditionary Fighting Vehicle program.

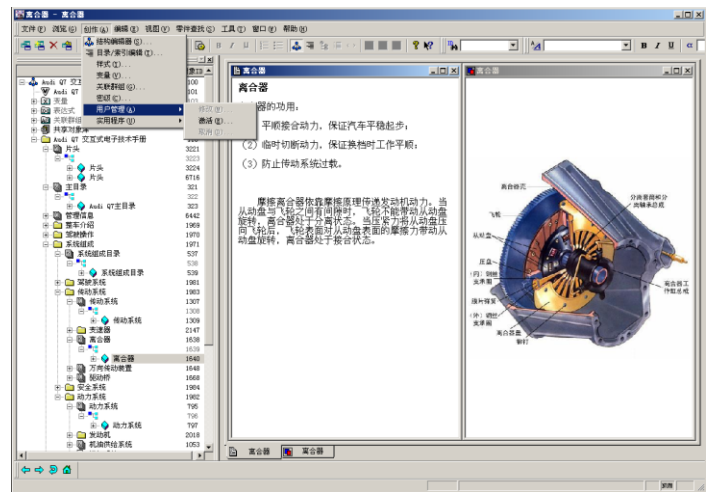
The conference included a demonstration by Techy Sky of an IETM highlighting the features as well as the maintenance of a BMW automobile.

学而不厌
 诲人不倦
 孔子

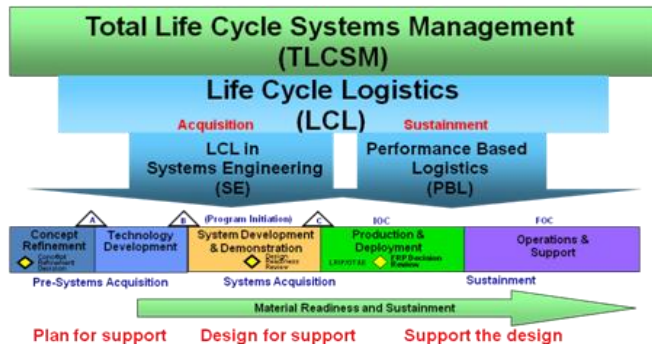
LSDL Shows its Wares in China

In early August LSDL Director Wayne Hawkins travelled to China with Mark Behrens and Bob Pearson to support our in-country reseller, Techy Sky Technologies with their annual Logistics Conference. The Conference was well attended by both Chinese industry and academia.

Wayne gave presentation on Lifecycle Logistics, and how the LSDL toolset supports the concept with all tools accessing one centralized database that is maintained over the entire product lifecycle.



Example IETM in AIMSS Chinese Version



The LSDL Product Solution

Mark gave an in-depth presentation on how LSDL products specifically support Life Cycle Logistics from EAGLE LSAR planning through MMIS fielded operations and configuration control.

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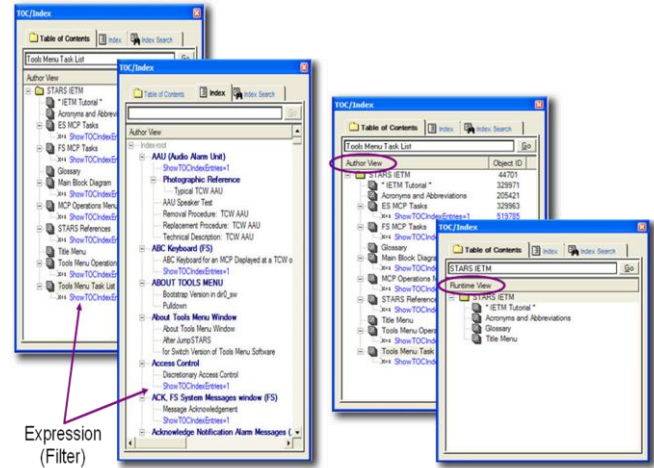
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The presentation highlighted how project partners around the globe can maintain a real-time view of fielded systems using the EAGLE Web portal. The case study Mark chose was the SAS Hunter Strike Systems (HSS) AN/AAS-52, with its noted FRACAS and Mission Assurance improvements.



EAGLE/MMIS – A Total Solution for AN/AAS-52

State and show the applied filters, possibly hiding some of the entries.



Filter Expressions in TOC and Index and Author Views.

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

Rob Schwarzberg: 866-773-0557
 Email: aimss_support@raytheon.com
<http://www.raytheonaimss.com>



AIMSS adds Filtering to Table of Contents and Index

The next release of AIMSS, scheduled for December of this year will include Table of Contents (TOC) and Index filtering.

This capability will allow TOC and Index entries to dynamically change based on hardware/software configuration changes and operational environment variations.

The Author will be able to structure the TOC and index so that the End User sees only those entries that pertain to his current situation.

Each entry in the TOC or Index can now have a filtering expression added to it.

The Author will have 2 views of the TOC and Index available to him. The Authoring View will allow him to see, add, modify, and delete the filtering expressions. The Runtime View will apply the current IETM Runtime

Latest Version of Our Tools:

AIMSS	4.7.1 (May 2007)
ASENT	12.5 (May 2007)
EAGLE	7.1.0 (April 2007)
iLog	2.2 (April 2007)
MMIS	7.1.0 (April 2007)

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