EAGLE Publishing System (EPS) – Product Overview

S1000D User Forum 2013 and S-Series-Specification Day

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About Team EAGLE

• Part of Raytheon Intelligence, Information and Services (IIS), a business of Raytheon Company

• 38 software developers and specialists based in Tucson, Arizona and Dallas, Texas

• Developing Logistics Support software products since 1985

• Over 2500 users in 22 countries across 60 companies

• 3 Main Product Lines:
  EAGLE Logistics Support Analysis Record (LSAR) - Logistics Management Information (LMI)
  EAGLE Web – Distributed Review and Comment tool (web-based)
  EAGLE Maintenance Management Information System (MMIS) – Operations and Depot (PBL) (web-based)
EAGLE - One Database = Data Integrity & Reuse
EAGLE Publishing System (EPS)

Author, manage and publish ASD S1000D and MIL-STD-40051-1 Interactive Electronic Technical Manuals (IETM) data
Some Features and Highlights of EPS

- **ASD S1000D & MIL-STD-40051 Common Source Database**
  - Automated workflow and configuration management of data
  - Integrated editor and authoring tools to assist productivity and accuracy
  - Extensive analysis of authoring errors and inconsistencies
    - Powerful Search and Replace wizard

- **Fully Integrated with EAGLE LSAR**
  - Population of data modules from LSAR Task data
    - Personnel requirements, Support Equipment, Consumables & Spares
    - Task Narrative changes made in EPS are automatically saved back to the LSAR
    - LSAR and Technical Manuals match each other
    - Engineering changes flow into the technical documentation
    - Technical Writers enhance the LSAR Task Narratives
  - Generate Illustrated Parts Data modules (IPD) directly from LSAR parts data

- **Authoring Tools and Validation**
  - Integrated XML Editor – Edit, Insert objects and references and validate
  - Search and Replace across CSDB maintaining data configuration

- **S1000D Projects**
  - Validate data against BREX data modules
  - Create and edit Publication Modules for customized IETM Table Of Contents (TOC)
  - Preview data modules directly in trilogiReview and as PDF
Populate procedural data modules directly from EAGLE LSAR task data

Data Module Associated with Maintenance Task from EAGLE LSAR

LSAR Task Data reference:
LCN, ALC, LCN Type, Task Code etc.
Create Illustrated Parts Data modules from LSAR Data

- Associate an IPD data module with the LSAR
- Drag LSAR provisioned parts over to the IPD parts list
- For each part add S2000M data that will display in the IPD data module
Populate IPD data modules with LSAR Parts Data

Add the IPD Figures from the Entities

After automatically sequencing and resorting the item numbers (if necessary) – release the LSAR data to populate the IPD data module

Populated IPD data module can be viewed with trilogiReview or as a PDF
Edit data modules in EPS and LSAR narrative with the same editor

Procedural data module not linked to LSAR data

Editing LSAR subtasks used to populate Procedural data module
EAGLE XML Editor

- Integrated into EAGLE for LSAR task narrative and EPS data module editing
- DTD / Schema aware – shows Tags and Attributes and constantly validates XML
- Instant Preview of content as PDF – working hyperlinks and navigation
- Can validate the data module against the project BREX data module
Real-time validation and references

Real-time validation of the XML and references

A deliberate policy of parallel development of reheated and non-reheated versions of the Adour is b in the basic versions of the engine is retained to the maximum extent. Furthermore, progressive upgrading of existing engines a practical possibility test.

This is a broken xref. The reference is invalid.

Insert Internal References with point & click

Insert External References
Open an LSAR subtask for edit

Open LSAR subtasks for edit directly from the data module – no need for technical writers to learn how to navigate the EAGLE LSAR application
Edit multiple LSAR subtasks

- Edit multiple LSAR sub-tasks in the EAGLE XML Editor at the same time
- Narrative changes are saved to the LSAR task narrative
Data Modules can be viewed directly from EPS as either PDF pages or rendered in an IETP view.
View multiple data modules with integrated trilogiReview

Select any number of Data Modules from the data grid to view in trilogiReview or another 3rd party viewer.
View data modules with integrated trilogiReview

Render selected Data Modules directly from EPS, hyperlinks in the dataset are functional
Data Analysis and Validation

The Analyze window displays six tabs:

- Parse errors (against the associated schema)
- External References (DM references)
- Internal References (figure and hotspots etc)
- Entity Declarations (entity declarations in the DM)
- Brex Validation (checks the DM against the Project Business rules documented in the BREX data module)
History and Roll Back

Integrated History tool compares the current XML with the XML instance when the data module was checked in, the project sets the allowed number of instances – the data can be rolled back in time.

Select a date/time to compare current XML with:

Changes indicated by color:
- Red = Deleted content
- Blue = Changed content
- Green = Added content
Search and Replace wizard

Search and Replace Wizard can find or change any data or xml tag or attribute in any or all data modules and associated LSAR Task Narratives.

Maintains data integrity by implementing the correct data module workflow.

Can update references to other data modules and update the cross reference table in the EAGLE database.

Summary of changes made – option of release all LSAR data to data modules after change.

Change simulation displayed.
Completion Status and program metrics

Data Grid displays production targets and progress for each data module.

Save icon generates spreadsheets of data grid view.

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View and edit graphics in EPS

View graphics and hotspots from EPS

Open image for edit with EAGLE Image Viewer
Use EAGLE Image Viewer to convert graphics to CGM format and add/edit callouts and hotspots

Add callout lines, text and hotspot regions

Edit existing hotspot names and IDs
### Build Publication Modules for tailored TOC

Create folders that will become IETM TOC

Drag data modules into folders – gray indicates included in the data set

Change order of data modules as required

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### Table

<table>
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<tr>
<th>TECH NAME</th>
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### Diagram
Validate Publication Module data

Use the Publication Module validation tool to check the data set before publishing
Finds broken hyperlinks and folders without content
Export Publication Modules and data, create PDF file using the same data

Complete the Publication Module fields

Publication Module, Data Modules, Entities, DDN and DML exported

Check “Generate PDF files” and select individual or Complete Manual to create PDF from the same data

Set Verification level as required
EPS Summary

- EPS is a powerful, user-friendly application
- Tools provided to assist technical writers produce accurate data efficiently
  - Extensive data validation and BREX checking
  - Data roll-back
  - Search & Replace features to make global changes while maintaining configuration
- Integrated tool to convert graphic file formats and create hotspot regions
- Procedural and IPD data modules can be populated directly from LSAR data
- Integrated EAGLE xml editor
  - Real-time pdf preview shows the technical writer the output and allows navigation
  - Edit multiple LSAR subtasks at the same time
  - Constant background validation checking
- View data directly with trilogi or as pdf
- S1000D Publication Module editor and data validation tools
- Publish manuals as trilogi data sets or as pdf documents with a TOC
- Publish manuals as MIL-STD-40051 IADS-ready datasets
- Only one database to establish and one client install for EPS and LSAR
- All data accessible through the LSAR Ad Hoc Query and Reporting tools
End of Presentation

Thanks for your attention

Any Questions?

For more information, collect a brochure or see a live demonstration of any of the EAGLE Logistics Products visit the Raytheon EAGLE Booth (B02) staffed by:

Anthony Zocco – Program Manager
Mark Sprague – Product Manager
David Jacques – Support Engineer