USAFA S1000D Technology Conference

Howard Schwartz, Ph.D., VP Content Technologies
Lou Iuppa, VP Business Development
Harvey Greenberg, XML Evangelist
Rhonda Wainwright, Sales Manager
Objectives of this Conference

About SDL
- Provide an overview of SDL and example S1000D customers
- Site Case Study: NSWC Panama City Division
  - US Navy Representative: Ron Stonecypher, Tech Data Manager, NSWC PCD

What you need to know about S1000D
- Discuss the challenges of adopting S1000D and what it takes to get there
- Explain the importance of a CSDB (Common Source Data Base) and the publishing process to S1000D

Technology: Best of Breed Approach
- Provide high-level product overviews of Contenta S1000D CSDB and LiveContent IETP
- Product demonstrations: LiveContent and Contenta S1000D
Recognized Leader in Global Information Management

- Publicly traded company with $250m annual revenues
- Award-winning and profitable with long term financial stability
- Over 2000 employees in 50 offices across 32 countries
- 700+ deployments of enterprise technologies
41 of the 50 Top Global Brands*

*Source: Interbrand, 2008
SDL Group

- “Recognized Leader in Global Information Management”
- Publicly traded company: $250 m annual revenues
- 50 offices across 30 countries / +2,000 employees
- Award-winning and profitable with long term financial stability
- More than 1000 enterprise technology deployments
- 80% of the global translation supply chain use SDL software
- 41 of the 50 biggest global brands rely on SDL

“Structured Content Technologies” division
- +20 years of XML technologies experience
- +80 employees
- Headquarters in Wakefield, Mass/ Belgium
- Over 300 customers in 5 continents
- Global Partner network
SDL’s Structured Content Technologies division merges two technology leaders:
- Component Content Management (CCM)
- Dynamic Publishing
- XML Standards (DITA / S1000D)

Trisoft
- Acquired in 2008 Joint integrated customers with SDL
- Well established CCM in Europe (Nokia, Sony Ericsson, DAF Trucks)
- Strength in DITA Component Content Management and Multilingual Component Management

XyEnterprise
- Strong S1000D and Publishing Technologies
- Extensive US install base and talent

Combined Entity
- More than 300 enterprise customers in XML Component Management and Publishing
- Strongest support of out of the box standards (DITA / S1000D)
- Powerful Multilingual management: powered by integration with SDL GIM technologies
- Strong Global Infrastructure

Technology Strengths
- Strong out of the box support for standards (S1000D)
- Robust CSDB functionality with powerful workflow
- Drives faster ROI and lower TCO through simultaneously managing multiple issues of the S1000D specification in the same CSDB
- Reduces costly effort to migrate content to new Issues of S1000D
- Strongest IETP publishing solution with significant ROI achieved through reduced MTTR and parts sales (through integration with inventory systems)
Selected Customers

Rhonda Wainwright, Sales Manager
Lou luppa, VP Business Development
S1000D Boeing Sites and Programs

- Boeing AWACS – Kent, Washington
- Boeing C-17 – Long Beach, California
- Boeing Australia – Brisbane
**Profile**

AWACS (Airborne Warning and Control System)

Based on a Boeing 707-320B airframe, the E-3 airborne warning and control system (AWACS) provides surveillance, command-and-control (C2), and communications functions for tactical and defensive missions. In service since 1977, it is used by the U.S. Air Force, NATO, United Kingdom, France, and Saudi Arabia.

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**Business Drivers**

- Needed IETP technology that would support 38784B and S1000D
- Several “false starts” in building an S1000D configuration on their own
- Successfully using Contenta and XPP for many years to produce Mil-specs; wanted to add S1000D and IETP support

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**Results**

- Benchmark tests were performed with Trilogi, LiveContent, and Inmedius; LiveContent was selected
- Successfully delivering IETPs in 38784B and S1000D using LiveContent
- Content single sourced, immediately available when approved
### Boeing C-17 Program

**Profile**

C-17 Globemaster III

A high-wing, 4-engine, T-tailed military-transport aircraft, the multi-service C-17 can carry large equipment, supplies and troops directly to small airfields in harsh terrain anywhere in the world day or night. The massive, sturdy, long-haul aircraft tackles distance, destination and heavy, oversized payloads in unpredictable conditions. It has delivered cargo in every worldwide operation since the 1990s.

### Business Drivers

- Need to support both Mil-spec SGML and S1000D Issue 4.0 XML
- Need to deliver IETPs in multiple formats
- Successfully using Contenta and XPP for many years to produce Mil-specs; wanted to add S1000D and IETP support

### Results

- Based on benchmark tests (Trilogi, Inmedius, LiveContent), selected LiveContent
- Decision to deploy Contenta S1000D
- Sharing configurations and expertise across Boeing IDS (Integrated Defense Systems)
Boeing’s presence in Australia is the company’s largest footprint outside the United States. It includes: systems integration, test and development, aircraft weapons, avionics and early-warning systems, aircraft assembly, modification, maintenance and support command, control and communications systems information and surveillance systems, communications and information management systems, and more.

**Business Drivers**

- Need to support both Australian Defence specs (SGML) and S1000D XML
- Need to deliver IETPs in multiple formats
- Successfully using Contenta and XPP for many years to produce Mil-specs; wanted to add S1000D and IETP support

**Results**

- Based on benchmark tests (Trilogi, Inmedius, LiveContent), selected LiveContent
- Decision to deploy Contenta S1000D
- Sharing configurations and expertise across Boeing IDS (Integrated Defense Systems)
- Now offering tech pubs and IETM production services – profit center
Air Force Programs

Tinker, Hill, Warner Robins… and more

- SDL’s technologies are used at ALL ALC’s to support the production of technical data associated with commodities (i.e., common avionics, depot level TOs, support equipment, etc.) for an impressive list of weapon systems.
  - **OC-ALC**: E-3 AWACS, B-1, B-2 and B52 TO’s
  - **OO-ALC**: ICBM
  - **WR-ALC**: C-5, F-15, C-17, C-130 and more…
  - **FMS**: UK AWACS
  - **F16 Program, Ft. Worth, TX**
  - **Automated Change Packages / Loose-leaf Publishing**
  - **Classified and unclassified systems**

Future Potential

*Blueprinting Phase: Expeditionary Combat Support System (ECSS)*
CSC prime, Teamcenter PLM, Unstructured, Legacy Structured and S1000D spec 4.0
Navy Enterprise Subscription License (NESL) Program

- Helps the US Navy to Achieve their Rationalization, Reduction and Centralization Strategy
- FAM List and DADMS Approved
- Integral Component of Standard NAVSEA Integrated Publishing Process (SNIPP)
- Provides access to standard approved and authorized content management, CSDB, publishing, and IETM generation and delivery technologies to ALL Navy Programs and Contractors Supporting Navy Programs
- Hosted access and First Line Support Provided by NAVSEA PHL
- Remote site implementation authorizations provided based on case by case program needs
- Support for S1000D as well as Legacy Navy MIL standards
Benefits of SNIPP

- Standardization of NAVSEA Production
- Reduced Infrastructure
- Compliance with Navy Policies
- Security
- Distribution

NAVSEA/NAVAIR on SDL Contenta:

“a cornerstone in our publishing system”
SDL Components of SNIPP
- A “Best of Breed” Solution

Check in/out → CCM/CSDB → Contenta S1000D → Oracle → XPP → XSL-FO

Publishing: 
- Interactive Electronic Technical Manuals
- Paper/PDF/Type 1: High-value, repetitive, revised, versioned, Automated Change Packages, LOEP, Filing Instructions
- Lower-complexity, one-offs

Authoring: 
- Arbortext

Editorial Workflow
S1000D Navy Sites, Programs and Contractors

- **NSWC – Panama City Division**
- **NUWC – Keyport Division**
- Raytheon Technical Services Company supporting DDG 1000 Program – Zumwalt Class Destroyer
- **NUWC PMS401, Acoustic Submarine Systems**
- NUWC – Newport Division – PMS425 and PMA280
- **Raytheon - NAVAIR - Joint Precision Approach and Landing System (JPALS)**
- CDI Engineering Services – Reconfigurable Transportable Consolidated Automated Support System (RTCASS) Program
- NSWC Louisville - G30, USC N30766
- PEO IWS 7C - Program Executive Office Integrated Warfare Systems 7C Training Systems Directorate
- A number of other Navy sites support other MIL Standards
NUWC Division Newport

- The primary submarine distribution center for combat systems as well as a development site for other submarine systems and some surface combatants.

Classified and unclassified documentation for submarine combat systems

Tomahawk, Communications, Submarine SWFTS and Sonar

Volume ~3000 cd’s/year
NUWC Division Keyport

Located on the Puget Sound across from Seattle, The Naval Undersea Warfare Center (NUWC) Division Keyport, in Keyport, Washington creates, updates and maintains technical documentation for mobile targets, Vertical Launch ASROC and MK 46, MK 50 and MK 54 Lightweight Torpedoes.
Selected Navy Customers – S1000D

NUWC / PMS4012D1 – Submarine Acoustic Systems
  - Contenta S1000D and LiveContent

NESL Authorized Contractors Supporting this Program

  SEA CORP, Middletown, RI
  EG&G Technical Services, Inc. (EG&G), Germantown, MD
  Naval Surface Warfare Center Division Carderock (NSWCCD), West Bethesda, MD
  Intelligent Decision Systems Inc. (IDSI), Centreville, VA
  Lockheed Martin Maritime Systems and Sensors (LM), Manassas, VA
  Progeny Systems Corp. (Progeny), Manassas, VA
  Advanced Solutions For Tomorrow (ASFT), Middletown, RI
  General Dynamics-AIS (GD-AIS), Fairfax, VA
  Raytheon Integrated Defense Systems (Raytheon), Portsmouth, RI
  Naval Undersea Warfare Center Division Newport (NUWC NPT), Newport, RI
  Naval Undersea Warfare Center Division Keyport (NUWC KPT), Keyport, WA
  Mid-Atlantic Regional Maintenance Center (MARMC), Norfolk, VA
S1000D Content Sharing
Completed Effort
- Implemented Contenta S1000D and LiveContent
- Delivered Hydro-Acoustic Information Link (HAIL) System - AN/WQC-7(V)1; Operation and Maintenance IETM.
- ATIS Certified via NSWC IndianHead

Current Activity
- Hydro-Acoustic Information Link (HAIL) System - AN/WQC-7(V)2; Operation and Maintenance IETM
- Developing S1000D 3.0 DMs as part of new Physical Description & Parts Enhancement for TI-08 ARCI (AN/BQQ-10) IETMs
- Active LiveContent Integration to A-RCI sonar system
- Expansion
  - Newly installed Classified Site at Lockheed Martin MS2, Manassas, VA

Future Plans
- Development / Integration of S1000D4.0/SCORM conformant Training Products utilizing Contenta S1000D 4.0 CSDB
- AN/BQN-17A SONAR SOUNDING SETS; Operations and Maintenance IETM development.
- VA Class SLTM IETM development.
Advanced Technical Information Support (ATIS) System Certification

- ATIS is a *technical data library system* used to quickly and efficiently access engineering drawings and technical manuals for the repair and maintenance of ships and submarines.
- ATIS testing performed by AMSEC on the HAIL IETM (SE340-AJ-IEM-010)
  - *The IETM passed in all 3 testing environments as is now ATIS certified*
  - *CD’s are now authorized to be distributed to the fleet*
- NSWC IndianHead accepted AMSEC’s evaluation
- **LiveContent is ATIS Certified**
  - *LiveContent is certified to produce ATIS compatible CDs that can be delivered using the Standard NAVSEA Integrated Publishing Process (SNIPP).*
Joint Precision Approach and Landing System (JPALS)

- JPALS is a GPS based technology that delivers the next generation precision landing system.
  - Compatible for use by all aircraft in the Department of Defense, NATO and civil aircraft; and globally by the international aviation community
  - Adaptable for multiple operating environments on land and at sea
  - Eliminates an interoperability gap among the services, replaces a multitude of currently fielded precision landing systems
  - Gives joint forces commanders the capability to use any aviation asset from any operating environment during any weather conditions

- Prime Contractor – Raytheon
- Remote Installation – Contenta S1000D, XPP and LiveContent - NESL Site, McKinney, TX
- Active LiveContent Integration with Ship and Aircraft Maintenance Systems
JPALS IETM working group used a functionality matrix to compare S1000D-compliant viewers

- Four viewers were compared based on JPALS requirements for viewer functionality
  - PTC, Inmedius, NSIV and LiveContent
  - *SDL’s viewer (LiveContent) was selected*
- LiveContent is on the Functional Area Management (FAM) list as an approved/authorized software application
JPALS IETM Working Group selected SDL’s LiveContent viewer, which provides the following functionality:

- Access (login, suspend and restart, exit)
- Annotation (global data annotation, local data annotation)
- Delivery and distribution (physical media, network distribution)
- Diagnostics and prognostics (user determined entry, software driven entry, dynamic diagnostics)
- External processes (transmittal, retrieval, report transmittal, maintenance data collection)
- Graphics (Pan, zoom, expand, magnify, assembly/disassembly, locator graphics)
- Navigation and tracking (next and previous, return, history, bookmarks, audit trail, dialog-driven interaction, search)
- User operation mode (web browser viewable, stand alone mode, network)
LiveContent viewer is S1000D-compliant

- S1000D is an international specification for the procurement and production of technical publications.
- Information produced in accordance with S1000D is done so in a modular form, called a "data module", which is defined as "the smallest self contained information unit within a technical publication".
- All data modules are gathered and managed in a database, referred to as the Common Source Database (CSDB).
- CSDB enables production of platform independent output in either page oriented or Interactive Electronic Technical Publications (IETP).
- Information at the data module level is not duplicated in the CSDB, so individual data modules can be used many times in the output. Data only needs to be changed once, with the changed information appearing throughout the output.
- S1000D covers technical publication activities in support of any civil or military project air, sea, land vehicle or equipment.
**JPALS - IETM Logical Interfaces**

**Maintenance Console**

- **IETM Viewer**
  - IETM Data
  - Launch IETM Procedure/Return Completion Data
  - Launch Training
  - Training Database

- **Training Browser**

- **Ship Maintenance**
  - Log Data

- **Subsystem 1**

- **Subsystem X**
NSWC Panama City Division
A Site Case Study

Ron Stonecypher
Technical Data Manager
NSWCPCD
Navy S1000D History

- Pre-2004, Multiple small projects by various Commands

- In 2004, Littoral Combat Systems was selected as Test Case for S1000D enterprise implementation.

Database Selection
- Multiple Databases were reviewed
- OPNAV 04 Down selection
- Contenta was currently in use for HM&E
- Contenta was selected to reduce implementation costs and software footprint in the Navy

- Test Server activated in 2005
LCS Test Case

- An ACAT I Project was selected for the initial development.
- Comprised of over 400 data modes

Test Bed Issues
- NMCI
- S1000D Issue Selection
- Government Paradigms
  - Business Rules vs Government Contracting Policies
  - TMCRs, CDRLs, DIDs, etc.
- Developing with forethought to broader Navy implementation
Results – Best Practices

- Computer Hardware Infrastructure
- Conform to S1000D data constructs without deviation
- Determine Style and Baseline
- Standardize Data Module Incremental Size
- Standardize Editor Tools
- Provide Training
Enterprise-wide Implementation

- FY09 NSWCPCD designated as the NAVSEA’s Center of Excellence for S1000D.
  - Mentoring Navy Activities in Acquisition and Sustainment of S1000D data
  - Developing of Navy Training (Classroom/NKO)

- Implementing Standard NAVSEA Integrated Publishing Process (SNIPP)
  - Integration of Contenta database into Distribution Process to the fleet
  - Integration of LiveContent into the TDMIS (Technical Data Management Information System)
  - Integration of LiveContent into Ship Board Servers

- S1000D CSDB Configuration Control Board (Aug 09)
  - Implemented to Control Output Styles across platforms
Distribution

The Leader in the Littorals
The Leader in the Littorals

Navy S1000D IETM

2.1.1 (U) This is the first step3 element within a step1 element. The data module allows up to a fifth level step. The label of this step is: "2.1.1"

2.1.2 (U) Our business rules state that you must have at least two steps of any given level type, so this is the second step3 element. The label of this step is: "2.1.2"

2.1.2.1 (U) Time to use a step4 element. The second step4 element will come after the step5 elements. The label of this step is: "2.1.2.1"

2.1.2.1.1 (U) This is as deep as the step hierarchy goes. It is a step5 element whose label is "2.1.2.1.1".

2.1.2.1.2 (U) The second step5 element. The rest of the text in this para is not of interest so I would not bother reading it. The label should be: "2.1.2.1.2"
The Road Ahead

- Baseline PDF output
- Issue 4.0 Business Rules, TMCR, CDRLs, DIDs, . . .
- Develop IETMs with extensive applicability
- Incorporate Process Data modules into IETMs
- Expand LiveContent use in Tactical Systems
S1000D: How Do You Get There?

And why do you want to?
S1000D is a specification that enables collaboration and interchange, and provides for seamless content reuse

**Collaboration:**
- Issues are not superseded so contracts are written to a specific issue; all those working on a program work to a specific issue of S1000D
- Data Module Requirements Lists (DMRLs) allow all needed content to be identified before authoring takes place. This allows for planning and assignment of DMs to multiple authors for content creation
- Data Dispatch notes are used to export content from a CSDB for delivery to a partner company and to import content received from a partner company into the CSDB
- If S1000D is used by multiple organizations, the S1000D data can be imported and exported easily from one CSDB to another

**Content Reuse:**
- Since content is authored at the data module level and then published through a publication module, it is easy to reuse data modules by simply including them in multiple publication modules.
## S1000D: Challenges of Adoption

<table>
<thead>
<tr>
<th>What is Needed</th>
<th>Details</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep knowledge of the specification</td>
<td>• Knowledge of terminology, understanding of 1000D concepts and numeric systems</td>
<td>Learning curve for new users; Faster deployment with experienced users</td>
</tr>
</tbody>
</table>
| Manage changes to the authoring paradigm   | • Learning to write and think in modules  
• Changing how content is authored, reviewed and published | Success or Failure of a project                   |
| Technical know-how                         | • Knowing how to work with XML, publishing basics, and IETP experience  
• Experience with a CMS                  | Resources available to guide and speed adoption     |
| Technology infrastructure                   | • Authoring Tools  
• Robust CSDB  
• Powerful Publishing Engine  
• APIs to Integrate with Other systems (LSAR/Parts Inventory) | Makes or breaks production environments            |
| Format synchronization for data interchange| • Subcontractors, OEMs, and Service organizations must all adopt S1000D | Seamless data exchange between organizations       |
Each of these applications represent complex processes and specific expertise. No single vendor has the expertise to do all of it well.
# The Myth of the End-to-End Solution

<table>
<thead>
<tr>
<th>Single Vendor In Theory</th>
<th>Single Vendor in Reality</th>
</tr>
</thead>
<tbody>
<tr>
<td>• One vendor can provide all components of the solution</td>
<td>• Each component is complex in its own right</td>
</tr>
<tr>
<td></td>
<td>• No single vendor can do all parts equally well</td>
</tr>
<tr>
<td></td>
<td>• You will feel pressure to buy components you don’t need</td>
</tr>
<tr>
<td></td>
<td>• Components created to fill a perceived product gap are</td>
</tr>
<tr>
<td></td>
<td>designed to sell a suite of products rather than to meet customer production requirements with an industrial-strength solution</td>
</tr>
<tr>
<td></td>
<td>• All components are made by the same vendor and will integrate “out of the box” with each other</td>
</tr>
<tr>
<td></td>
<td>• In reality, software components are developed and maintained by different business units with different development centers</td>
</tr>
<tr>
<td></td>
<td>• Integration is rarely “one-size-fits-all”; so “out-of-the-box” integration is not likely to meet your needs and will require customization anyway</td>
</tr>
<tr>
<td></td>
<td>• In most cases, integration is not a difficult or time-consuming effort; it doesn’t justify forcing a single-vendor solution</td>
</tr>
<tr>
<td>• You get all the functionality that you need</td>
<td>• The “single vendor” theory hides gaps and weaknesses in products; vendors focus on their best components (e.g., Arbortext Editor)</td>
</tr>
<tr>
<td></td>
<td>• Demonstrations of the worst components are avoided (e.g., publishing to paper and/or IETP)</td>
</tr>
<tr>
<td></td>
<td>• Some point solutions are better than others; with a single vendor, you do not have the flexibility to choose the solutions that best meet your specific needs</td>
</tr>
</tbody>
</table>
Specialization breeds focus and expertise
You get to work with top of the line applications in each segment
You get to keep the parts of your infrastructure that are already working
You can more nimbly adopt newer and better technology and standards
“All your eggs are not in one basket”; you can swap out software components without disrupting your entire operation
Some vendors try to simplify the requirements around S1000D by focusing on authoring tools.

Authoring is important, but does not address the major requirements associated with S1000D:

- DMRL creation and management
- DDN creation/management and data interchange
- DMC and ICN creation and management
- Publication module creation and management
- Multi-channel publishing outputs (PDF, IETP)

These tasks do not take place within the authoring process and fall into the domain of a CSDB.

Find a good XML Editor for authoring and a good CSDB for the management of S1000D content—focus on built-in functionality to handle the major requirements listed above.
Why the CSDB Matters

- **The CSDB is the engine of the whole process**
  - You can have a Porsche with a lousy engine
  - But...the engine is critical for ensuring the wheels turn!

- **What you need in a good CSDB:**
  - Ability to work with DMRLs in the format you choose (most people are using Excel or other comma-delimited format)
  - Intuitive method for importing/exporting partner content using a DDN (automated DDN creation, DM export, and import from “reading” a DDN)
  - Functionality for managing DMCs and ICNs, not just the numbers—but also the associated nomenclature
  - Capability for creating Publication Modules as “virtual documents” so XML references to data modules aren’t entered manually
  - Multi-channel publishing functionality to easily produce PDF and/or IETP outputs from the same content
  - IETP “preview functionality” for authors
The publications you are delivering are the whole reason for the job you do and for the technology used to do it!

Publishing is the means of producing an information resource for your internal or external customers

S1000D IETPs should provide state-of-the-art functionality:

- Run-time applicability filtering
- Support for CGM, TIFF, SVG, Flash, 3D images, wire tracing, animations, simulations, virtual task training, digital photographs, and more
- Locator graphics (graphical navigation); Graphic-to-graphic, graphic-to-text, text-to-text, and text-to-graphic linking capabilities
- Customizable “skins” and styles; open architecture
- Support for Process Data Modules and links to external applications
- Revision highlights and incremental update functionality
- Annotations and built-in problem reporting
- Audit trails and forms capabilities
Standard Methodology

Inputs
- Strategic vision and goals
- Current state
- Future requirements
- Leading practices

Discovery

Outputs
- Recommendations
  - Best practices
  - Plan
  - Consistent with vision and goals
  - Addresses current state issues
  - Meets future needs
  - Incorporates success factors
### SDL S1000D Best Practices Deployment

<table>
<thead>
<tr>
<th>Primary Responsibility</th>
<th>Months</th>
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</thead>
<tbody>
<tr>
<td><strong>SDL</strong></td>
<td>1</td>
</tr>
<tr>
<td>SDL Workshop (out-of-the-box)</td>
<td></td>
</tr>
<tr>
<td>Implementation Workshop</td>
<td></td>
</tr>
<tr>
<td>System configuration and deployment</td>
<td>3</td>
</tr>
<tr>
<td>Style sheets finalized</td>
<td></td>
</tr>
<tr>
<td><strong>Customer</strong></td>
<td>2</td>
</tr>
<tr>
<td>Learn S1000D</td>
<td></td>
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<tr>
<td>Adoption, content reuse and change management</td>
<td></td>
</tr>
<tr>
<td>Client sign off</td>
<td></td>
</tr>
<tr>
<td>Client UAT</td>
<td></td>
</tr>
<tr>
<td><strong>Touch Points</strong></td>
<td>3</td>
</tr>
<tr>
<td>XML/S1000D Content Structure</td>
<td></td>
</tr>
<tr>
<td>End-to-end testing</td>
<td></td>
</tr>
<tr>
<td><strong>IT / Admin</strong></td>
<td>4</td>
</tr>
<tr>
<td>Setup and Configure Server</td>
<td></td>
</tr>
<tr>
<td>Install Configured SDL Server</td>
<td></td>
</tr>
<tr>
<td><strong>SDL or Consultant</strong></td>
<td></td>
</tr>
<tr>
<td>Content Creation and Conversion</td>
<td></td>
</tr>
<tr>
<td>S1000D Authoring Training</td>
<td></td>
</tr>
<tr>
<td>IETM Styles</td>
<td></td>
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</tbody>
</table>
Technology Demonstrations

Rhonda Wainwright, Sales Manager – SDL LiveContent
Harvey Greenberg, XML Evangelist – SDL Contenta S1000D
What we’re going to demonstrate

1. Deliver Electronically
   - Type 2 Interactive Electronic Technical Manuals

2. Manage and Automate
   - CCM/CSDB
   - Contenta S1000D
   - ORACLE
   - Check in/out
   - Editorial Workflow

3. Author
   - Arbortext Editor
   - XML Professional Publisher

4. Publish
   - LiveContent Publishing Server
   - XML DB
   - Data Module(s)
   - XSL-FO
   - Type 1 Paper/PDF Technical Manuals
Webinars, Workshops and Wrap Up

Lou Iuppa, VP Business Development
Is S1000D in your future?

Attend our free S1000D Webinar

**S1000D Content Workflow**
Thursday, January 21, 2010

If your organization is adopting S1000D and you need to understand how S1000D content is authored, managed, revised and published, we invite you to attend SDL's free educational webinar designed to help you understand the S1000D content lifecycle.

During this webinar on S1000D Workflow and Content Lifecycle we will discuss:

- Information development planning using a Data Module Requirements List
- Creating and managing content as Data Modules
- Publishing to PDF and IETP using Publication Modules
- Data interchange using Data Dispatch Notes
- Revision management

Jump start your understanding of S1000D by attending this free educational webinar. Space is limited.

Reserve your online seat today!

### Webinar Details
Thursday, Jan 21st
10:00 am Pacific
1:00 pm Eastern
Conducted via Webex

Next Webinar in the S1000D Series

**S1000D Applicability**
April 13, 2010

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**5 Part Series**

- **Part 1 – S1000D**
  Alphabet Soup: Introduction to S1000D Concepts
- **Part 2 – S1000D**
  Content Workflow
- **Part 3 – S1000D**
  Applicability
- **Part 4 - S1000D**
  Interactive Electronic Technical Publications (IETP)
- **Part 5 - S1000D** and Multimedia

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Objectives

- Gain a high level understanding of the S1000D specification
- Experience the project planning process
- Create S1000D content
- Manage content in a CSDB
- Publish an interactive electronic technical manual (IETM)
- Lay foundation for business case

Prerequisites

- Team has XML authoring skills
- Executive sponsor identified, and available for opening and close of workshop
Wrap Up

- Survey
- Product Literature
- Water Bottles
- Buddies

Thank You!