



## Information Management

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Experiences with Migration to S1000D 4.1 Learning Data Modules

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S1000D 1.9 descriptive data modules



S1000D 4.1 learning data modules

# Overview

- Situation before migration
- Conversion steps
- Situation after conversion (now)
- Further steps for the future
- Summary

# Project Situation before Migration

- Data modules are used for the online help system of Cassidian CSDB and managed by CSDB
- Data modules are written by IT department
- About 230 data modules and 30 illustrations
- All data modules based on AS1000D 1.9 descriptive DTD
- Training for CSDB is done by techpub department
- Training courses are created by techpub department (Using screenshots, but mostly not using the above data modules)

# Minimal Targets of Simple Migration

- Conversion from S1000D 1.9 descriptive to S1000D 4.1 learning data modules
- Enable Cassidian CSDB for a basic support of S1000D 4.1 learning data modules (no support of repositories etc.)
- Enable online help system to work with S1000D 4.1 learning data modules

# Characteristics of Project Data

- only descriptive data modules
  - complete project can be migrated to S1000D 4.1 learning data modules
- no use of applicability
  - techcond repository logic is not necessary to be implemented
- no use of warning and cautions
  - structural changes for warning and cautions (always at beginning of content) in schema do not matter
- no exhaustive use of figures and tables
  - structural changes (table and figure not allowed inside para) causing only few manual editing after conversion

# Migration Phase 1 – Data Conversion

- Conversion with XSL transformation using Xalan (Mostly pure data conversion, nearly no adding of additional information)
  - Transfer identification and status section
  - Extend data module code for learning  
Learn code: T40  
Learn event code: C
  - Transfer content of descriptive data modules into content of <learningContent>

# Migration Phase 1 – Data Conversion

- Manual editing (positioning of tables and figures formerly inside <para>) as far as necessary
- Transfer graphic entity declaration with a Perl script in a post process

# Migration Phase 2: Import into Cassidian CSDB

- Extend Cassidian CSDB for basic support of S1000D 4.1 standard (at least learning)
- Extend online help system for use of learning data modules
- Prepare data for file based import into CSDB
- Finally import converted data modules into CSDB

## Actual Situation (after Phase 2)

- Conversion from old source to new S1000D 4.1 learning data modules complete
- No loss of data
- Complete <content><descript> part transferred into <learningContent><description> part
- Migration from ASD 1.9 to S1000D 4.1 caused no impact for users

# Benefits after conversion for old system

- Using the actual standard
- Possibility of putting additional information into data modules
- Having enhanced the functionality of existing CSDB for basic support of S1000D Change 4 as a nice side effect

# Actions for the Future to complete migration

- Create and use also planning, overview, summary and assessment learning data modules
- Create SCORM Package Module
- Use S1000D-SCORM Bridge Toolkit to generate training course

## Vision for work share in the future

- Software development department maintains the learning content data modules for application updates
- Techpub department is responsible for maintenance of the other learning information types and generates training courses

# Summary

- Migration easier than expected
- Migration very similar to an upgrade to S1000D 4.1 descriptive data modules
- No loss of information
- Migration has no impact for users of help system
- To get full advantage of using S1000D learning data modules all learning information types must be used.

Thank you for your attention!

