

S1000D

  
ATA e-BUSINESS PROGRAM

  
AEROSPACE AND DEFENCE  
INDUSTRIES ASSOCIATION

  
AeroSpace and Defence  
Industries Association of Europe

# Taming the Complexity of a Multi-Spec Content Ecosystem



*S1000D User Forum 2012*  
*June 18-21, 2012*

# Agenda

**1** The Challenge

**2** The Impact

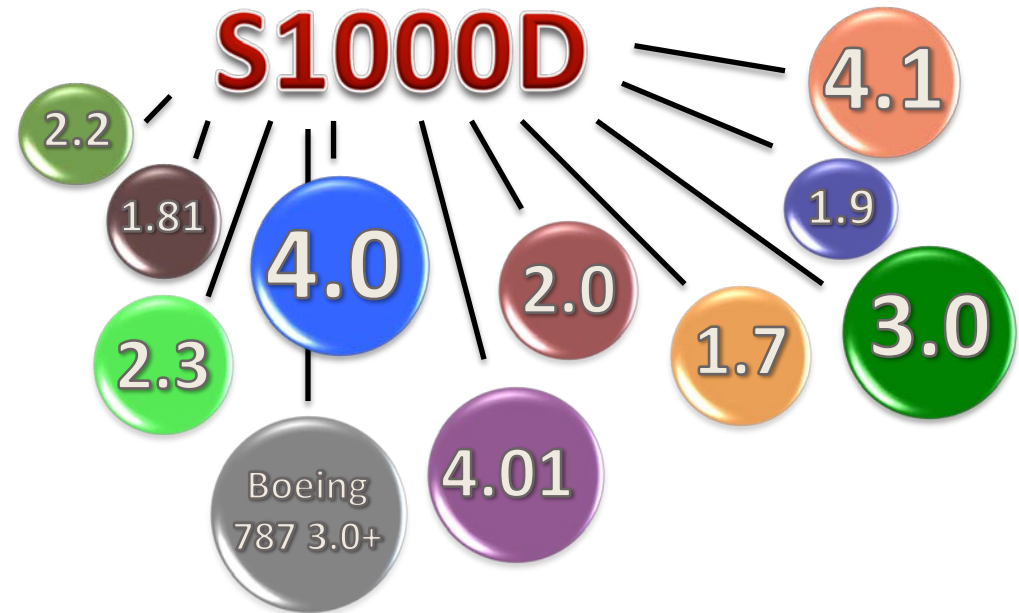
**3** Barriers to Change

**4** Emerging Approaches

**5** Wrap up

# The Challenge:

- Chaotic diversity of specs in use
- Official specs, as well as proprietary derivatives
- Multiple XML specifications, issues, and OEM variants inhibit data usability and portability



iSpec 2200

Proprietary  
DTD

Airbus  
TSM/ RSM

iSpec  
DTD

# Challenge Forces Difficult Choices

## For Operators

- Operate multiple content platforms
- Migrate everything to a single S1000D Issue #
- Convert S1000D data to iSpec 2200

## For OEMs

- Pay for costly 3<sup>rd</sup> party conversion services and in-house QA efforts
- Staff those conversion skills in-house



# Human Factors Impact

## Multiple IETPs impact on technicians

- Training on multiple platforms
- Effectiveness in switching between systems

## Multiple approaches to content layout

- Learn and navigate OEM-specific styles
- Likelihood for human error

*“How information is arranged within a document is a significant issue for the maintenance technician. It can greatly increase the chance for human error not only in the handling of the document, but also in accomplishing the work.”*



# Multiple Specifications Drive Up Costs

- Redundant authoring, larger staff
- Limited reuse
- Higher IT costs
- Increased training costs
- Significant conversion costs
- Higher content latency



# Barriers to Change

## Resistance to Change

- Pride of authorship
- Culture

## Contract Hurdles

- Change of work rules
- Union considerations

## Technological

- Internal skills sets
- Content migration costs
- Technology acquisition costs

*“It’s not pretty,  
...but it works today”*



# Emerging Approaches

- Handle multiple content types in and out
- Use one S1000D content management system
- Adopt a single authoring approach
- Deliver flexibly to a variety of destinations with standardized look and feel
- Automate transformation profiles on-demand





# Approach for Operators

## Content Creation

- One authoring tool
- One authoring process

## Content Delivery

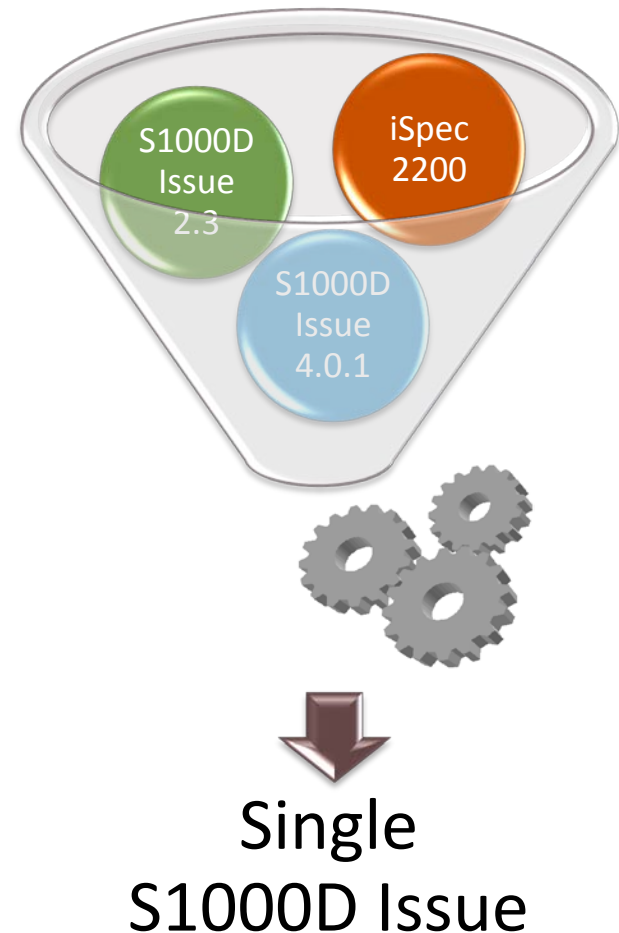
- One IETP

## Transformation

- Standard output

## Usability

- One set of policies and practices
- One approach to data
- One training program



# Approach for OEMs

## Content Capture

- Multi-spec support for multiple suppliers
- Support concurrent programs

## Transformation

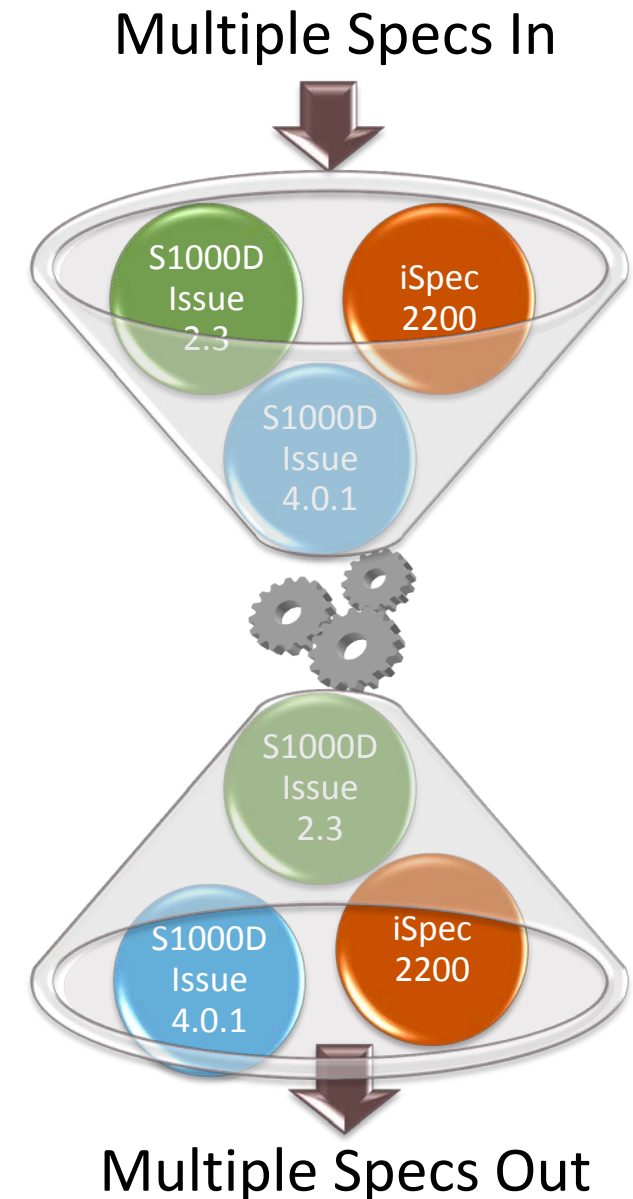
- Create spec-to-spec transform profiles

## Delivery

- Use defined profiles on-demand

## Portability

- Low latency import
- Low latency delivery
- Dramatic reduction in conversion costs



# Benefits of Transformation

## For Operators

- Simplified training
- Improved content usability
- Lower IT costs

## For OEMs

- Improved business agility
- Lower conversion costs



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