Stakeholders Speak: The Boeing Perspective

Open Forum for Standards Developers

Presented by
Joy Fitzpatrick
Standards Specialist,
External Standards Management
The Boeing Company
Overview

- Agenda
  - Boeing and Standards
  - The Great Collaboration
  - Technical Excellence
  - Standards are Data
  - Conclusion
Boeing and Standards

- We develop Standards too!

- 97% of our internal Standards reference external Standards

- ¾ of Standards used at Boeing are external Standards

- We use standards from many types of developers – company, international, regional, national, industry, consortia, partners, customers, and government

Open Forum for Standards Developers
June 20-21, 2006
Boeing and Standards

Customer/Product Support
De-icing
Ground vehicles
Fuel
APUs
Reliability/Maintainability
Payloads

Product
Part
Material
Process
Design
Drafting
Avionics
Crew Systems
Lighting
Electronics
Propulsion
Configuration
Mgmt

Operations
Tooling
Equipment Design

IS
Applications
User Interface
Middleware
Delivery Systems
Security & enterprise systems mgmt

Facilities
Building & Construction
Electrical Codes
Utilities
Asset Acquisition

Quality
Testing
Inspection
ISO 9000
Metrology

SHEA
Health
Safety
Environment
Noise
Emissions

Business Operations
Finance
HR
Labor
Electronic Commerce
Supplier Management

What have I forgotten?
Boeing and Standards

- **Design**
  - Engineers
  - Drafters/Product Definition
  - Customer Requirements/Contracts
  - Regulatory

- **Produce**
  - Manufacturing
  - Planners
  - Tooling
  - Assemblers and installers
  - Mechanics and technicians
  - Inspectors
  - Liaison Engineering
  - Subcontractors
  - Testing
  - QA

- **Acquire**
  - Procurement
  - Receivables inspection
  - QA
  - Supply Chain Management

- **Support**
  - Maintenance
  - Spares Distribution
  - Repair
  - Final Disposition

- **Corporate Management**
  - Standards Management
  - Standards Acquisition

- **Partners**
  - Customers
  - Regulatory Agencies
The Great Collaboration

- We have to work together
  - Boeing employees are the subject matter experts – they provide the technical knowledge to create Standards
  - Boeing is the customer – we are one of the largest Standards users in the world
  - Boeing is a partner – we specify Standards to be used by partners, suppliers and customers
  - We rely on SDOs for your standardization process – that is a valuable area of expertise
Standards for Technical Excellence

- Boeing is committed to standardization and selecting standards based on technical merit.
  - “The safety and technical excellence of aerospace products . . . require that the industry use standards from a wide variety of sources – with the most important criteria being the technical suitability and acceptability of the standard.”
Standards Are Data

- Different users access different data in the same Standard
- That data is used in our design tools – for design drawings, bill of materials, resource planning, testing, production and installation
- Document Distribution vs. Data Dissemination
  - Electronic delivery/access to the data needed by a specific user
  - Integration of data into our design tools
Conclusion

- Standards use is evolving at Boeing as technology changes the use of data in the design and production of our products. We need standards to be easily integrated into our internal design tools and other systems.
- AIA Strategic Standardization Forum for Aerospace http://aia-aerospace.org/ssfa/
- Thank you
  - joy.a.fitzpatrick@boeing.com