

S1000D


ATA e-BUSINESS PROGRAM


AEROSPACE AND DEFENCE
INDUSTRIES ASSOCIATION

 AeroSpace and Defence
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Picture this: new directions for legacy graphics

Technical Track – Legacy Data Conversion
Methodology, Issues, and Best Practices

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Agenda

- Evolving use cases
- Drivers for efficiency
- Standards
- Types
- Conversion challenges and solutions
- Value proposition
- Benefits

Use Cases

Traditional:

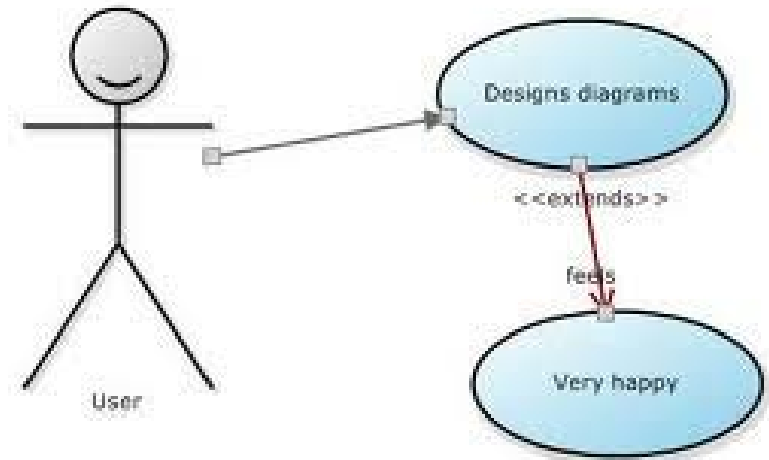
- Visual supplement
- Product assembly/disassembly
- Parts ordering
- Narrative support
- Conceptual overview
- Navigation



Use Cases

Emergent:

- Product lifecycle support
- Prognostics
- Intrusive diagnostics
- Automated logistics
- Asset health monitoring
- Interactive navigation



Drivers for Efficiency

- Integrated logistics
- Data tailoring
- User profiling
- Mobility
- Remote maintenance
- Data reuse



Standards

- Bridge processes
 - Links together concurrent or serial work
 - Promotes data sharing between related processes
- Resist entropy
 - Ensure product information longevity
 - Mitigate technological dependencies



Standards

- **Model**
 - ASME: MBD/MBE
 - ISO: STEP
- **Pictorial**
 - CGM / WebCGM
 - EPS
 - SVG
- **Web**
 - W3C: XML
 - OASIS
- **ILS**
 - ASD/ATA/AIA: S-Series Specs
 - ISO: PLCS
 - ISO: DEX



Types

Dynamic

- 2D / 3D
- Interactive

Static

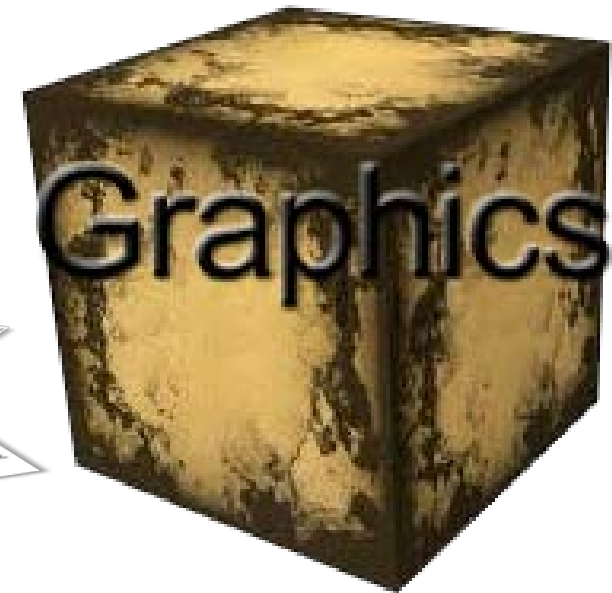
- Bitmap
- Vector

Integrative

Utilitarian

This Old Box

- Manage expectations
- Dump and run like heck?
- Not so much



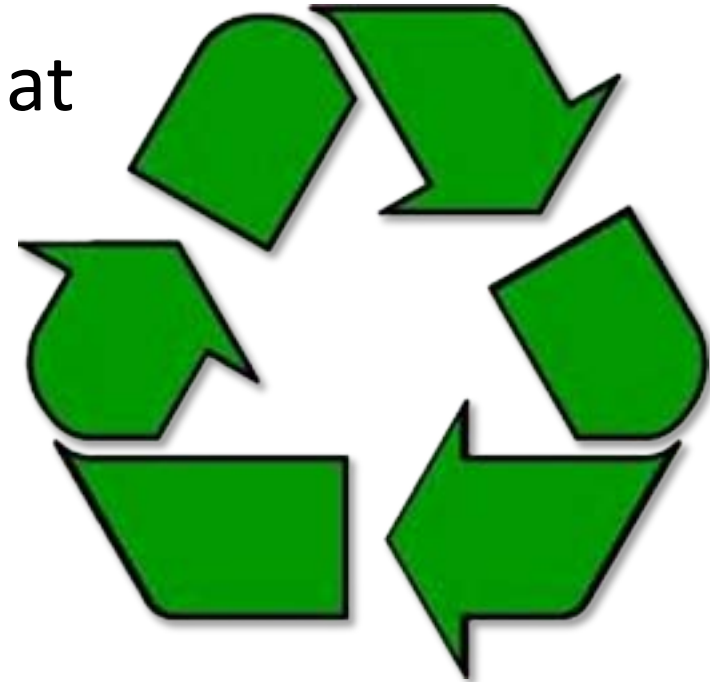
Conversion Challenges

- Poor quality
- Non-original data (copy of a copy...)
- Versioning
- Editable
- Intelligibility
- Unsupported native format
- Re-sizing or re-scaling



Conversion Solutions

- Automated processing
- Manual re-tracing and vectorizing
- Re-scanning
- Translation to standard format
- Filtering and reprocessing
- Re-drawing
- Manage expectations



Value Proposition

Requirements for efficiency-driven logistics

Standards provide the bridge

Overcome conversion challenges

Reap benefits of repurposed legacy graphics

Benefits

Re-purposed legacy graphics:

- Re-usable content
- Extended life of asset data
- Decoupled institutionalized knowledge
- Opportunity for ILS and ALE
- Enhanced accessibility for next generation users



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Thank you


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