Teamcenter Publishing Vision

Stu Johnson
Product Marketing Manager, Teamcenter Visualization
The JT Pipeline

Common “Visualization pipeline” throughout the extended enterprise

Number of Users (Proliferation)

Data & Process Complexity

Interoperable Design

Styling Review
Immersive Design Review
Ergonomics
Virtual Factory
Virtual Functional Build
Assembly Validation
Quality Validation
Spatial Digital Validation
CAE Results
Formal Design Review
PMI
PLM Workflows
Technical Publishing
Supplier Viewing
Extend JT Content For Downstream Consumers

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Basic Tech Pub Workflow

**AUTHOR: Create / Layout / Manage Assets**
- Hidden Line & Shaded Images
- Exploded Views
- Callouts and Symbols
- Thrustlines
- Cross Sections
- PMI / GD&T

**INPUT: Leverage Enterprise Knowledge Assets**
- 3D Models – Teamcenter Visualization
- Image and Drawing repositories
- Product Attributes
- Process data

**Manage Change & Communicate Updates**

**PUBLISH: Export documents for viewing**
- Interactive Publishing (to/from PDM and local data repository)
- Web Publishing
- Print Publishing

**VIEW: Examine authored documents**
- Teamcenter Visualization Publish
- Microsoft Visio
- Web Browser
- Printed Documents

- Add Text, Hyperlinks, SGML, XML, etc.
- Apply automatic formatting
- Export to Technical Publishing / XML/SGML Editor (eg. FrameMaker, Arbortext Editor, xMetaL, XMLSpy)

- Export Outline Capture as an "image" (TIF, EPS, etc.)
- Graphic editing in Adobe Illustrator, Auto-trol, Photoshop, Corel Iso Draw, etc.

- Changes Cause Rework of Some or All
Typical Technical Publishing Use Cases

- Product Manuals
  - User and Owners Manuals
  - Parts and Product Catalogs
- Work Instructions
  - Manufacturing Process Sheets
  - Assembly/Disassembly Instructions
  - MRO – Logistics Support documents
  - Service & Repair Manuals
- General Documents
  - Resource Descriptions
  - Costing & Estimating Documents
  - Product Labels
Teamcenter Publishing Solutions

- Teamcenter Visualization Publish
- Teamcenter Engineering Publish (Engineering 2005 SR1, June ‘06)
- Teamcenter Content Management (Enterprise 2005 SR1, June ‘06)
Leverage existing JT Pipeline & Visualization investments
Reduce time & cost to creating & publish technical documents
Eliminate rework with automated geometry updates

Filter Removal and Cleaning

1. Open Canister Lid

2. Remove gasket, filter1, filter housing to get to main filter

Filter washing:
- Wash the filter in soapy water (Please do not use detergent, do not wash in a dishwasher or using a washing machine).
- Rinse the filter with clean water until the water runs clear.
- Air dry the filter in an oven set at 70°C for 2 hours, or use a dryer.
- Do not use this filter in a humidifier, microwave, oven or near an open flame.

3. Remove Main Filter for Cleaning

The filter should be washed at least once every six months.
Technical documents leverage the power of Teamcenter

- Product Manuals and Work Instructions for configured objects
Leverage the Power of Teamcenter

*Teamcenter +*

- Configuration management
- Change management
- Work flow
- Version Control
- Effectivity

Product, Process, Plant and Resource Configurations

CAD Assy.

Process

Create layout templates with links into TC data

Select & apply Illustration template

Generate and edit technical illustration

Publish Work books

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Leverage the Configured Product Structure
Publishing Options

Teamcenter

Export

HTML

MS Visio

Teamcenter Community (June 2006)
Teamcenter Content Management

- Compound Documents encourage reuse and corporate standards
- Multi-Channel Publishing ensures common content in all publishing forms

SGML/XML based document creation and publishing

- Perspectives (Administrator, Content)
- Query browser
- Content preview Editor plugin (future)
- Active work view
- Cache view

Item info Item create/ update forms

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Typical structure of configured product data

Product Data

Project
- Inventory
- Req'mts
- Schedule
- Location

Supplier
- Bid Info
- Mfg
- Spec.
- Tooling

Engineering
- NX
- PPTA
- PTC

Content Topics
- XML Data
- XML Data
- Links to Graphic
Compound Documents

- “Decompose” document to reuse individual “chunks”
- Leverage Teamcenter to manage document structure
  - Configuration
  - Effectivity
  - Change mgmt
- Manage multiple configurations
  - CBOM
  - MBOM
  - Service BOM
Content Management

Publishing

- Build document from links to Teamcenter content
- Support leading XML applications (e.g., Arbortext Epic, xMetaL, Altova)
- Provide entire content to publishing application (e.g., Arbortext E3, Corena, AntennaHouse)
Publishing Vectors Coming Together

Content Management (XML/SGML)

Visualization Publish

Engineering Publish (Managed Publish)

Community Publish (Collaborative Publish)

Teamcenter 2005

Teamcenter Engineering

Teamcenter Enterprise

XML/SGML-based Structured Technical Publishing

Teamcenter 2007 SR1

June, 2006

Teamcenter 2007 SR1

mid 2007

Visio-based “Basic” Technical Document

2005 SR1

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**INPUT:** Leverage Enterprise Knowledge Assets
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- Process data

**Manage Change & Communicate Updates**

- Add Text, Hyperlinks, SGML, XML, etc.
- Apply automatic formatting
- Export to Technical Publishing / XML/SGML Editor (eg. FrameMaker, Arbortext Epic, xMetaL, Altova)

**PUBLISH:** Export documents for viewing
- Interactive Publishing (to/from PDM and local data repository)
- Web Publishing
- Print Publishing

- Publish final document in XML/SGML, HTML, PDF, CDs, DVDs etc.
- Localize for different languages
- Arbortext E3, Corena, AntennaHouse, etc.

**VIEW:** Examine authored documents
- Teamcenter Visualization Publish
- Microsoft Visio
- Web Browser
- Printed Documents

Changes Cause Rework of Some or All

- Export Outline Capture as an "image" (TIF, EPS, etc.)
- Clean-up in Adobe Illustrator, Auto-trol, Photoshop, Corel IsoDraw, etc.

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Basic Tech Pub Workflow

AUTHOR:
- Layout
- Manage Assets
  - Hidden Lines
  - Exploded Views
  - Callouts and Symbols
  - Thrustlines
  - Cross Sections
  - PMI / GD&T

XML/SGML EDITING:
- Add Text, Hyperlinks
- XML, SGML, etc.
- Interactively format
  - automatically "image" (TIF, EPS, etc.)
- Clean-up in Adobe Illustrator, AutoCAD, Photoshop, Corel IsoDraw, etc.
- Apply automatic formatting
- Export to Technical Publishing / XML/SGML Editor (e.g., FrameMaker, Arbortext Editor, xMetaL, XMLSpy)

DATA MGMT/CONTENT MGMT:
- Teamcenter

PUBLISH:
- Assemble Documents
- Export documents for viewing
  - Interactive Publishing (to/from PDM and local data repository)
  - Web Publishing
  - Print Publishing

AUTHOR:
- Create / Layout / Manage Assets
  - Hidden Line & Shaded Images
  - Exploded Views
  - Callouts and Symbols
  - Thrustlines
  - Cross Sections
  - PMI / GD&T

INPUT:
- Leverage Enterprise Knowledge Assets
  - 3D Models – Teamcenter Visualization
  - Image and Drawing repositories
  - Product Attributes
  - Process data

CHANGE MGMT:

VIEW:
- Examine authored documents
  - Teamcenter Visualization Publish
  - Microsoft Visio
  - Web Browser
  - Printed Documents

MULTI-CHANNEL PUBLISHING:

DOWNSTREAM VIEWING:
- Standard Viewing Solutions

3rd-Party Applications

UGS Applications
Audience Participation –
By a show of hands which serve your needs?

# Teamcenter Visualization Publish
# Teamcenter Engineering Publish (Engineering 2005 SR1, June ‘06)
# Teamcenter Content Management (Enterprise 2005 SR1, June ‘06)

And what use cases do you have for each

Teamcenter Visualization Publish
- Visio-based
- Technical Document

Teamcenter Engineering Publish
- Visio-based
- Tied to Teamcenter BOM

Teamcenter Content Management
- XML/SGML based
- Compound Document
- Multi-channel Publishing

Basic, individual page creation
- Product Manuals
- ...

Basic, managed process and product documents
- Work Instructions
- ...

Sophisticated, standards-based technical publishing
- Training Manuals
- Repair Manuals
- ...

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Discussion/Questions?
Thank You