JDF 1.4
WHAT ARE THE IMPROVEMENTS?
Introduction

- In this program you’ll learn
  - Additions to Job Definition Format (JDF)
  - Enhancements to JMF for JDF 1.4
  - Areas of improvement

- Your speaker, Dr. Rainer Prosi
  - Senior Workflow Architect with The Heidelberg Group since 1998
  - One of the primary authors of the JDF specification
JDF 1.4 – What are the Improvements
Evolution, not Revolution

- Mainly additions and enhancements
- Only minor deprecation
- No massive modifications
Work Completed – JDF 1.4

- Security / Authentication in JMF
- Resource Synchronization with JMF
- Content Creation
- Automated Marks Creation
- Automated Layout for Variable Data
- Packaging & Labels
- Varnishing
- Modeling of Device Modules
JMF Enhancements for JDF 1.4

• JMF was “Fire & Forget” in JDF 1.3

• Reliable JMF Messages
  – Required for reliable costing using JMF
  – Cost calculations require 100% accuracy and security that all costs have been captured.
JMF Enhancements for JDF 1.4

• Reliable JMF Messages (How)
  – evaluate JMF in the HTTP response
  – Subscriptions for reliable Signals
  – Define Resend Policies (whenever it affects cost...)
    • How often and which intervals
      – How long is “Indefinite”
    • Which Messages are resent
      – All consumptions
      – All Status Changes
JMF Enhancements for JDF 1.4

- Encrypted JMF Messages
  - Is the Sender who he claims to be?
  - Don't let anyone else see your data

- JDF Tasks:
  - Add a “Request For Authentication” Message
    - Based on standard PEM MD5 Certificates / SSL
    - Two-way authentication (typically devices are both clients and servers in a JDF environment)
  - Secure URL definition
JMF in JDF 1.4

- Resource Synchronization
  - Send Lists of Resources Controller \( \leftrightarrow \) Device
    - Media Catalogs
    - Operator Lists
    - ...
  - Policies
    - Replace (completely)
    - Remove
    - Incremental (retain existing attributes)
      - E.g. Overwrite the ProductID while retaining technical details of Media
Content Creation in JDF 1.4

- **Scope:** The creation phase of documents or elements of documents, including the conversion to PDF formats. Does not include the transfer of documents to the printers site.

- **Completed Tasks:**
  - Define model of iteration over multiple cycles
  - Specify “Hereish” positioning of elements
  - Define Document Constraints using Preflight Technology
Iterative Processing

- Define the fact that a task may be processed multiple times
- Track details of cycles
  - Time spent
  - Resources used
Anchor elements

Absolute Position

Absolute Anchor Point: Absolute to Parent

Reference Anchor Point: Position Relative to Parent
Automated Marks

High level definition of automated Production Marks in Layout and Stripping

– Mark Position
  • On the press sheet
  • On the folding sheet
  • Relative to page / end product / die cut

– Mark Contents
  • From job
  • From page / sheet
  • From device
  • From real world
Variable Data

• PDF/VT
  – Extract Metadata from Content

• Automatic Imposition
  – Imposition Layout is independent of the number of pages
  – Document Boundaries
  – Describe Multiple Components belonging to one recipient
• Flexo
  – Description of Flexo Plates and Sleeves
  – Flexo Plate Cutting and Mounting
  – Description of mixed technology presses

• Embossing of Braille
• Structural Design (CAD)
  – Specification of shapes in content creation
  – Definition of 1-up design
  – Definition of multi-up Dies
• Production of Dies
• Description of tool sets
• Clean up description of varnishing to allow:
  – Multiple coatings
  – Offline varnishing (not on the press)
  – Spot / full varnishing
• Description of individual modules on a device

Digital printing
  – RIP processes Job #1,
  – Printer prints Job #2

Offset printing:
  – Uncoated job on 5-color device with varnish
  – 4-color job on 6 color device
  – 4-color job on 2 color device (2 press runs)
JDF 1.4
What are the improvements?

Dr. Rainer Prosi
Rainer.Prosi@Heidelberg.com

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