

JDFMAP Prototyping Requirements

1. Introduction

The Semantic Model Workgroup of the PWG, working in cooperation with Rainer Prosi (Heidelberg, CIP4 CTO), has written a specification entitled "Mapping CIP4 JDF to PWG Print Job Ticket v1.0", commonly referred to as JDFMAP [JDFMAP]. This specification defines a normative mapping from XML objects and attributes in the CIP4 Job Definition Format [CIP4JDF] to XML elements in the PWG Print Job Ticket and Associated Capabilities [PWG5108.7]. The objective of the specification is to provide the mapping information for a capability to convert a JDF Job Ticket into a PWG Job Ticket which would produce an equivalent hardcopy output.

The PWG Process [Process] requires that a PWG specification must be prototyped, with the results of the prototype evaluated and discovered errors or unclarities resolved, before final review and voting on acceptance of the specification.

2. Requirements

2.1 Basic Guidelines

There are certain basic guidelines for prototyping, as are identified in PWG Prototyping Policy [Prototype Policy]. These include:

An individual, organization, or vendor can provide notice of prototyping by:

1. Posting a prototype implementation on a publicly accessible web site,
2. Presenting a prototype implementation or slides at a PWG face-to-face meeting,
3. Sending a notice of prototyping to the WG mailing list, e.g.,
"Your *Company Name* has prototyped (the required elements of/all of) the specification and discovered no issues/the following issues," or
4. Sending a notice of prototyping to two or more PWG or WG officers of your [prototyper's] choice. The officers receiving such a notice MUST then send a short, anonymous notice of prototyping to the WG mailing list, e.g.,
"A company/organization/individual has prototyped (the required elements of/all of) the specification and discovered no issues/the following issues."

Note that by provision (4):

- a) The company doing the prototyping can remain anonymous, needing to identify itself only to two individuals who are officers of either the PWG or the specific workgroup generating the specification (in this case, the Semantic

- Model Workgroup). Those individuals are obligated to not disclose the identity of the prototyper if anonymity is requested.
- b) Prototype does not need to cover the entire specification, but should cover at least areas representative of specification contents, as specified by the Workgroup
 - c) The details of the method of prototype and the results do not need to be published, but errors or unclarity encountered in the specification during the prototype effort should be identified.

2.2 Method of Prototyping JDFMAP

2.2.1 Form of Prototype

Because the objective of the specification is to provide the mapping information for automatic conversion from a JDF to a PWG Job Ticket, the prototyping mechanism must be a program or script designed to convert JDF to SM semantics according to the specification. The conversion of the Job Ticket examples may not rely upon human intervention.

2.2.2 Method of Evaluation

Because this is a Semantic Model specification correlating one type of Job Ticket to another, the prototype process does not require actual generation and comparison of JDF and PWG Job Ticket generated hardcopy. Rather, an analysis of the PWG Job Tickets derived from JDF Job Tickets, indicating that reasonable equivalent products would be produced, is sufficient.

2.2.3 Prototype Report

It is the intent of the PWG that there will be no problems with specification clarity or content. Therefore, any such issues encountered during prototype must be reported so that they can be resolved in the final version. Furthermore if, on evaluation, the remapped Job Ticket appears incorrect or the mapping requires significant 'tweaking' to be valid, this should be reported in the prototype report unless it is attributable to a clear error in generating the remapping code which was not a result of an error, omission or lack of clarity in the specification.

2.3 What is to be Prototyped

The intent of the prototype is not to include every possible mapping, but rather to show that the mapping described in the JDFMAP document is feasible/reasonable to implement and unambiguously defined. The conversion of JDF job tickets for the following three types of jobs are sufficient.

- Simplex A4 job (simple job)
- Duplex US Letter job on Glossy media with multiple copies, staple, and letter fold (covers media type, duplex, copies, and common finishing operations for billing/marketing)
- Duplex A3 job with multiple copies, saddle stitch, booklet fold/imposition, and cover (more complex mapping for reports/small publications)

Rainer Prosi provided examples from CIP4 for these three types of jobs. These are posted at <http://ftp.pwg.org/pub/pwg/sm3/examples/>. The prototype effort is to include these three examples.

1. JDF_IPP_Simple.jdf
2. JDF_IPP_GlossLetter.jdf
3. JDF_IPP_Booklet.jdf

Although the conversion of these examples is required, the agency doing the prototype is encouraged to also prototype the conversion of whatever examples posted at <https://confluence.cip4.org/display/PUB/JDF+Samples> or indeed any other examples it wishes to do and report on any problems found in the specification.

3. References

- [CIP4JDF] CIP4, "JDF Specification Release 1.5, December 2013, <http://www.cip4.org>
- [JDFMAP] I. McDonald, R. Yardumian, "Mapping CIP4 JDF to PWG Print Job Ticket v1.0", <ftp://ftp.pwg.org/pub/pwg/sm3/wd/wd-smjdfmap10-20150604.pdf>
- [Process] The Printer Working Group Definition of the Standards Development Process Version 3.0, <ftp://ftp.pwg.org/pub/pwg/general/pwg-process-30.pdf>
- [Prototype Policy] M. Sweet, PWG Prototyping Policy - October 29, 2012, <ftp://ftp.pwg.org/pub/pwg/general/process/pwg-prototype-policy-20121029.txt>
- [PWG5108.07] P. Zehler, "PWG Print Job Ticket and Associated Capabilities v1.0 (PJT)", PWG 5108.7, <ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-pjt10-20120801-5108.07.pdf>