

The Printer Working Group

IPP Job Storage 2.0: Fixing JPS2

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JPS2 - What's wrong with it? (1/2)

- Job Save → Feature solution did not fully satisfy the requirements from the use cases
- Proof Print → Retention time duration for Proof Print Jobs is ambiguous
- "job-password" feature is incompatible with both the Job Save and Proof Print features

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JPS2 – What's wrong with it? (2/2)

- Issues identified at August 2018 F2F:
 - job-save-disposition does not create a Saved Job as defined in JPS2, it saves the output to the specified destination (which may or may not be sufficient to recreate the original Job - all implementation-specific, determined by output mimeMediaType)
 - No way to specify a serialized IPP object representation (application/ipp is a message format, not a serialization format)
 - proof-print asks for a Job to be retained but does not guarantee it is retained indefinitely

JPS2v2: Goals



- 1. Develop a system of attributes that can be used together to support the Job Storage, Proof Print, and Reprint Job use cases from 5100.11-2010 along with those in this deck and other relevant additions. The system MUST resolve all the ambiguity and incompatibility issues described earlier.
- 2. Clean up and deprecate whatever attributes are displaced by this new solution
- 3. Resolve any errata / editorial issues

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Target Use Cases

- Hold Job Until User Release
 - Using User authentication
 - Using Job authentication
 - "job-password" or new "job-print-password"
- Job Save With Password
- Proof Print
 - Job Retention Duration (new "job-retain-until" and "job-retainuntil-time" attributes)
- Use Cases in 5100.11 (Proof Print, Job Save, Reprint Job)
 - Mostly adequate but not clearly satisfied by the IPP attribute semantics

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System Requirements

- Hold a Pending Job (not really a "stored job")
 - Submitted Job stays in 'pending-held' or 'pending' until "released"
 - Release via IPP
 - Release via non-IPP (control panel, management console)
 - Release <u>MAY</u> be guarded by a password (alphanumeric or numeric-only) but not required
- Store a Job for later re-printing
 - Store Only or Print-and-Store (latter different than Proof Print)
 - Associate with user identity
- Proof Print
 - Print one copy of a multiple copy job for review; release remaining copies, to be printed potentially from other input source





- "job-save"
 - Doesn't satisfy all the use case requirements
 - Existing definition has polluted semantics and expectations
- "proof-print"
 - Intersects with "job-save" in certain ways that are vaguely defined
 - Retention duration is not clearly defined (implementationspecific)
- "job-password" / "job-password-encryption"?
 - Does this need to be deprecated? Or does it do what we want it to do for the Hold Job case?

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5100.11 – Additions

- "job-password-repertoire"
 - Defined in <u>IPP Job Password Repertoire</u>
 - Should be deprecated if "job-password" is deprecated
- "job-retain-until" (dateTime)
 - Discussed at the August F2F
- Replacement for "job-save" and "proof-print"

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Next Steps

- Email discussion to discuss proposals for new attributes and semantics
- New draft to be produced for review in January