MFD Face-to-Face Minutes
December 7, 2010

Meeting was called to order at approximately 9:30am (PST) December 7, 2010 and restarted at 9:00am (PST) December 9, 2010.

Attendees

Danny Brennan (IBM)
Peter Cybuck (Kyocera)
Tim Deppa (Okidata)
Lee Farrell (Dec 9 only)
Ira McDonald (High North/Samsung)
Andrew Mitchell (HP)
Joe Murdock (Sharp)
Glen Petrie (Epson - tried to call in)
Amir Shahindoust (Toshiba)
Brian Smithson (Ricoh - Dec 9 only)
Michael Sweet (Apple)
Jerry Thrasher (Lexmark)
Bill Wagner (TIC)
Rick Yardumian (Canon)
Pete Zehler (Xerox - call in)

Agenda Items

1. IP Policy and Minute Taker
    a. Policy accepted with Mike taking the minutes
2. MFD Overall detailed review
    a. ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdoverallmod10-20101117.pdf
    b. Bill provided some background on the overall document
    c. Agreed that new IPP attributes would not be added to the common properties
    d. Q: Has JobProcessingCapabilities schema been updated?
    e. Need to update the various Sheets elements to be consistent in the schema
    f. Agreed to remove ProofPrint elements from the overall document
    g. Agreed to keep RetryInfo elements in the overall document
    h. Agreed to keep geolocation elements in the overall document
    i. Agreed that the UpTime element is in seconds
    j. Action: Pete to provide section 4.7.2 text (description of service-state/state-reasons/state-message).
    k. Agreed to the new section 5 text.
    l. Action: Joe to update Table 58 elements and their descriptions.
    m. Q: Why not use base64Binary instead of hexBinary for binary data? A: Standard XML schema mapping of MIB octetStrings is hexBInary
    n. Agreed that HeaderPrint element should be part of the overall document (print, fax, copy, email, etc. all can use it)
    o. Agreed that DocumentURI element should be part of the overall document
    p. Update JPS2 references to 5100.11
    q. Q: Add OutputDocument size element to job processing elements?
    r. Agreed to leave job state list as-is.
    s. Agreed to the new Section 8 text.
    t. Agreed to the new Section 8.1 text, with typographical corrections and KOctets is 1024 octets, not 1000.
    u. Note: Section 13 (References) needs to be updated for final references
    v. Appendix A: Remove and provide reference and explanation of what WKVs are and how the schema is designed to section 2 intro material.
    w. Abstract: "documented in the PWG Semantic Model XML Schema" instead of "by", plus corresponding cleanup.
    x. Q: InputChannelStatusType - where does DeviceErrors come from?
    y. Remove JobTicketDocumentProcessingElements - Magnification since it is no longer part of the schema

z. Agreed to change "users" to "administrators" in Section 12 intro text.
a. Section 12.1: re-order last sentence
b. Section 12.1.1, item 2: reword to indicate that all status data may be retained or deleted according to local administrative or regulatory policy (not just job history)
c. Section 12.1.1, combined and simplified the last 3 paragraphs into a single paragraph, still needs work.
d. Q: Do we want more or less information in the Section 12 security considerations? Should this just be a reference to IEEE 2600-2008? Do we have additional considerations beyond 2600? Do we make design requirements on service specifications based on 2600, etc?
e. Section 12 text also useful for IDS.
3. XML Schema
a. Version 118 has all changes and should be the one that goes out with MFD Overall
b. New ImagingService abstract base class can be used as the basis of all service classes.
4. Continue discussion of MFD Overall document
a. Action: Bill to rename MFD overall document to wd-mfdmodel10-YYYYMMDD.
b. Reviewed System Service operations:
- Action: Pete to add [Service]Uuid wherever Id is used
- Agreed that the GetSystemElements RequestedElements element should support both well-known groupings and specific named elements, and should not include the top-level Services table since the ListServices operation provides enumeration of services
- SystemStatus SystemeUuid typo - should be SystemUuid
- ListServices: Add counters and IsAcceptingResources
- RestartAllSystemServices: Add choice for IsAcceptingResources
- RestartSystemService: Add choice for IsAcceptingResources
- Rename XxxSystemService* operations and groups to XxxService*
- Add new RestartSystemService to restart the system service itself (may have similarities to one or more Power operations)
- Q: Do you do Power operations on the system object, or just to sub-units, or both?
- ServiceGeoLocation should be SystemGeoLocation for system description elements
- SetSystemElements on PowerXxx elements will fail
- Update PowerTimeout TimeoutEntry to be optional, 0 to infinity
- Add SetSystemConfiguration operation to set individual SystemConfiguration XxxDescription elements (still atomic for all elements that are set…)
- SetSystemConfiguration on PowerXxx elements will fail
- Separate "SetServicePower" and "SetSystemPower" operations to set PowerXxx elements?
c. Power operations and MFD Model document change review Thursday
5. MFD Model change review (Dec 9)
a. ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdmodel10-20101208.pdf
b. Agreed to the changes to the introductory text
c. Agreed to drop table 1 from the conformance terminology since it was inconsistent with RFC 2119
d. Agreed to moving the data types text and tables to section 1.3.4
e. Need to make sure that first-class objects/definitions are capitalized, e.g., "Resource", "Counter", "Work Counter"
f. Make sure "Resource" is in the list of defined terms (it is)
g. Q: Do we need OutputDocumentSize? Still listed in the TransformService draft but also in the deprecated list.
h. Action: Pete to add ImagesCompleted and ImpressionsCompleted to abstract document class in schema
i. Agreed to the updated section 8 counter description with subunit and resettable counter information removed since they are not part of the model.
j. Agreed to the updated section 12 security information.
k. Action: Bill to update schema figures
l. Once all open action items are resolved, post for WG Last Call
6. Q&A
a. Q: Why not use base64Binary instead of hexBinary for binary data? A: Standard XML schema mapping of MIB octetStrings is hexBInary
- Pete proposes to change some data types to base64Binary
- Original use of hexBinary was driven by limitations of early code-generation tools
- Needs further discussion on ML, may be incompatible with IETF standards (do we care?)
- Both are used in different standards
- IDS is using both

- PWG can decide what we want to do - maybe hexBinary for bitmasks and base64Binary for blobs?
- Action: Mike to propose whitepaper/best-practices document for PWG standards, XML bindings, etc.
- Related issue for WSDL definition of SendPrintDocument: encoding type for document data stream? OK to leave definition as-is to avoid breaking .NET.

b. Q: InputChannelStatusType - where does DeviceErrors come from?
   - A: From SubunitStatus, source is Host Resources MIB
c. Q: OutputColorMode from IPP Everywhere?
   - A: PrintColorMode is the name we settled on.
   - Action: Mike to send keyword values for PrintColorMode to MFD list
d. Q: Printer resolution in job ticket?
   - A: Yes.
e. Q: Should the MediaUsedMediaName be in the MediaUsed element?
   - A: Already have MediaUsedSizeName (conforming PWG media size names)
   - Rename to MediaUsedMediaSizeName
   - Site-specific media names must be mapped to PWG standard size names (either the self-describing form or one of the standard legacy size names)

Next Steps / Open Actions

- Next conference call January 13, 2011 at 3pm (EST)
- Take MFD Model to WG Last Call beginning of January
- Take MFD Model to PWG Last Call to span the February F2F
- Follow up with PWG Last Call for Copy and FaxOut services
- Action: Bill to rename MFD overall document to wd-mfdmodel10-YYYYMMDD. (COMPLETED)
- Action: Bill to update schema figures
- Action: Pete to provide section 4.7.2 text (description of service-state/state-reasons/state-message).
- Action: Pete to add [Service]Uuid wherever Id is used in the schema
- Action: Pete to add ImagesCompleted and ImpressionsCompleted to abstract document class in schema
- Action: Joe to update Table 58 elements and their descriptions.
- Action: Mike to propose whitepaper/best-practices document for PWG standards, XML bindings, etc.
- Action: Mike to send keywords for PrintColorMode to MFD list (COMPLETED)