IPP WG Conference Call Minutes
April 5, 2011

Meeting was called to order at approximately 1:00 pm (PST) April 5, 2011.

Attendees

Nancy Chen (Oki Data)
Jochen Faas (EFI)
Paolo Ferraris (Google)
Justin Hutchings (Microsoft)
Haisong Gu (Konica Minolta)
Till Kamppeter (The Linux Foundation)
George Liu (Ricoh - call in)
David May (EFI)
Tim McCann (Konica Minolta)
Ira McDonald (High North/Samsung)
Peter Michalek (Shinesoft)
Andrew Mitchell (HP)
Joe Murdock (Sharp)
Ron Nevo (Samsung)
Glen Petrie (Epson)
Sanjeev Radhakrishnan (Google)
Krithika Santhanam (EFI)
Amir Shahindoust (Toshiba)
Craig Shifman (Konica Minolta)
Brian Smithson (Ricoh - call in)
Michael Sweet (Apple)
Jerry Thrasher (Lexmark)
Paul Tykodi (TCS - call in)
Henning Volkmer (CEO, ThinPrint/Cortado)
Bill Wagner (TIC)
Lida Wang (Kyocera)
Rick Yardumian (Canon)
Pete Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
    a. Policy accepted with Mike taking the minutes
2. Approve IPP minutes from last meeting
    a. ftp://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20110328.pdf
    b. Accepted as posted
3. Action: Mike to post call for review of IPP over USB specification, and make an agenda item for the next IPP WG concall
4. Issue: no charge info URI in TXT record; OK to add chargeuri to TXT record, presence means this is a paid printer, absence means free
5. Issue: No default charset; OK to require default be UTF-8 for IPP Everywhere
6. Issue: How to tell a client what versions of IPP Everywhere are supported?
    a. "ipp-everywhere-supported" attribute or add values to "ipp-versions-supported"?
    b. Separate them, but "ipp-extensions-supported (1setOf type2 keyword)" and put in JPS3.

      c.   Register new values in IPP Everywhere First Edition
7.   Issue: How to configure discovery protocols - "ipp-discovery-supported (1setOf type2 keyword)"?
      a.   OK for admin
      b.   Not necessary to include in registration information
      c.   Only sets use of protocol, not protocol options or client negotiation
      d.   In JPS3
8.   IPP Everywhere First Edition
      a.   ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve10-20110326.pdf
      b.   Abstract: extension of (not superset) IPP, don't list specific IPP versions or discovery protocols, add some sort of "direct printing" terminology
      c.   Line 166-169: Change to "is to allow Clients, particularly …"
      d.   Add 2.x Imaging Terminology to import terminology from RFC 2911, ISO DPA, etc. (copy boilerplate from IPP/2.0)
      e.   Add Discovery to Other Terminology
      f.   Add Direct and Indirect Imaging terminology
          -    Direct is the client connecting without an intermediary (in a different administrative domain) to an Imaging Device or local print server
          -    Indirect is the client connecting through a Cloud Imaging Provider
      g.   Add Coloring to Other Terminology
      h.   Section 3: Drop the "Per the pwg process, ", add page break before section
      i.   Section 3.1: Collapse 1-item bullets to the parent sentences
      j.   Line 186: Lose the "and so forth", including document format or e.g. document format
      k.   Line 194: "driverless" in quotes
      l.   Move rationale starting on line 227 to top of section 3.1, given the documents listed below, …, add a first sentence to state the need for IPP Everywhere (problem statement from charter?), add some sort of "direct printing" terminology
      m.   Lines 199-200: "im- ages" join
      n.   Line 225: drop "and SLP services", move SLP to separate reference to schema (normative reference below)
      o.   Line 229, 231: "Use" instead of "Utilize"
      p.   Line 233: Drop list of document formats
      q.   Consider OpenXPS as standard document format?
      r.   Section 3.2: Numbered subsections with titles for use cases
          -    Expand out and include use cases that are out of scope
          -    Re-add Samsung use cases that were deemed out-of-scope
          -    Merge list of use cases with Cloud Imaging
          -    Action: Mike to post call for use cases to both ipp and cloud ML
      s.   Section 4: WS-Discovery of IPP?
          -    W3C/Microsoft says no
          -    But you could extend WS-Print to support this too
      t.   Line 268: Coloring instead of "filtering" (or keep filtering)
      u.   Section 4: Need use cases for Bluetooth, NFC, UPNP, and other protocols
      v.   Table 1: Add new attributes (printer-uuid, ipp-extensions-supported, plus ldap stuff) with notes
      w.   Section 4.2: Add section on usb_XXX keys in the TXT record.
      x.   Add normative reference to PWG Command Set spec
      y.   Add conformance requirements for HTTP Upgrade if printer supports TLS?
          -    Verify that we don't already say this in IPP/2.0 SE
      z.   4.2.2: Make conditional based on auto-geolocation or configured values, configuration by administrator, no "manually", look up DNS behavior for no value
      a.   Do we need SNMP additions? Not now, but later via PWG document (NOT IETF) filtered through MFD Model

    b.   4.2.3.1: Expand "air" (auth-info-required), change "print" to "imaging"

    c.   Line 309: Reference RFC4559 and JPS3

    d.   4.2.3: Specifically mention SHOULD omit key/value pairs with default values

    e.   Issue: Sync with IDS to define any additional uri-authentication-supported values in JPS3 and 4.3.2.1

    f.   4.2.3.2: Add RFC references, "imaging" instead of "print"

    g.   4.2.3.3: Add RFC 4122 and JPS3 reference

    h.   4.3: Add RFCs for LDAP, SLP, and filtering

    i.   Add 4.4 UPNP discovery

    j.   Action: Andrew to provide section 4.4 UPNP discovery text

    k.   Q: Do BMLinks discovery too? Joe will provide a use case, we can decide later.

    l.   Section 5: "Protocol Binding", add intro that states that other bindings can be extended to support IPP Everywhere semantics such as WS-Print and JMF

    m.   Section 5.1: Add reference to JPS3

    n.   Tables 2-6: Add notes for attributes newly required
        -    Vote: 11-2 in favor of the list of all attributes
        -    Vote: 6 will review

    o.   Add note at beginning of section 5 to talk about IPP/2.0+, IPP/2.1+, and IPP/2.2+ in required for column

    p.   Table 3: Add notes for Paid Print (Charge Print) and printer-geo-location

    q.   printer-geo-location: noValue/unknown value tag if not set

    r.   printer-icc-profiles: IPP/2.1+

    s.   printer-icc-profiles: Clarify description to limit to proofing and color managed workflows.

    t.   Add table to JPS3 for table colorant names and sRGB values

    u.   Tables 2-6: Notes use (note N) and not superscript N.

    v.   Table 6: job-impressions, job-impressions-completed
        -    Review RFC 2911 definition and update
        -    Actually printed, not received by the printer

    w.   Section 6: Remove conformance for JPEG, PDF, add OpenXPS
        -    Q: Make OpenXPS required? No, not compatible with low-end printer
        -    Q: Transform from PWG Raster to OpenXPS - how to get job ticket embedded? That is a function of the IPP Printer when it generates the PDL for the marking engine
        -    Q: Do we want to address non-IPP delivery/job tickets/etc? For further discussion on the mailing list.

    x.   Make one conformance level for IPP Everywhere with conditional support for different bits (PIN printing, etc.)

9.   JPS3
    a.   Did not get to this

10. PWG Raster
    a.   Did not get to this

Next Steps / Open Actions

- Next IPP WG conference call April 18, 2011 at 1pm (EST)
- Review JPS3 and PWG Raster spec updates
- Action: Mike to post call for use cases to both ipp and cloud ML
- Action: Andrew to provide section 4.4 UPNP discovery text
- Action: Mike to post preliminary Cloud Imaging WG web page, rename wiki page (COMPLETED)
- Action: Ira to post prtMarkerSupplies and prtMarkerColorant mappings, with DMTF and MFD refinements as new "printer-supply (1setOf text)" and "printer-supply-description (1setOf

text)" printer description attributes (colorant folded into supplies) (COMPLETED)
- Action: Mike and Paul to reach out to label/portable printer vendors to join IPP WG discussions (ONGOING)