



# Printer Working Group Plenary Meeting Minutes

New Orleans, LA  
5 November 2002

Submitted by Bill Wagner, NetSilicon, PWG Secretary on 12 November 2002

## 1 Time and Place

Chairman Harry Lewis convened the PWG Plenary meeting at 8:35 CST on 5 November at the Bourbon-Orleans in New Orleans, LA. It was one of a set of PWG group meetings held the week of November 4 through November 8, 2002, including:

- Monday - uPnP Imaging
- Tuesday morning – Plenary
- Tuesday afternoon - XHTML-Print
- Wednesday - Print Services Interface
- Thursday – Semantic Model (including some IPP matters)
- Friday - IPP-FAX and UPDF, running concurrently

The Plenary meeting adjourned at 10:10

## 2 Agenda

The Plenary Meeting agenda:

- Self-Introduction of Attendees
- Discussion of next meetings details and 2003 Schedule
- Status Reports from the constituent working groups
- Miscellaneous items of Business
- Discussion of Proposed New Activities
  - Web based management
  - Font
  - Expanded IPP Capabilities

### 3 Meeting Attendees

Attendee	Company	Email Address
Acosta, Rod	Agfa/Monotype	<a href="mailto:rod.acosta@agfamonotype.com">rod.acosta@agfamonotype.com</a>
Ahmad, Athar	Minolta/QMS	<a href="mailto:Athar_ahmad@minolta-qms.com">Athar_ahmad@minolta-qms.com</a>
Berkema, Alan	HP	<a href="mailto:alan-berkema@hp.com">alan-berkema@hp.com</a>
Bigelow, Jim	HP	<a href="mailto:jim-bigelow@hp.com">jim-bigelow@hp.com</a>
Brodeur, Cameron	Ricoh	<a href="mailto:Cameron.brodeur@ricoh-usa.com">Cameron.brodeur@ricoh-usa.com</a>
Dozier, Mabry	Minolta	<a href="mailto:Mabry.Dozier@minolta-qms.com">Mabry.Dozier@minolta-qms.com</a>
Farrell, Lee	Canon	<a href="mailto:Lfarrell@cis.canon.com">Lfarrell@cis.canon.com</a>
Hall, David	HP	<a href="mailto:dhall@hp.com">dhall@hp.com</a>
Lewis, Harry	IBM	<a href="mailto:harryl@us.ibm.com">harryl@us.ibm.com</a>
Miyazawa, Shunsaku	Epson	<a href="mailto:Miyazawa.shunsaku@exc.epson.co.jp">Miyazawa.shunsaku@exc.epson.co.jp</a>
Nagasaka, Fumio	Epson	<a href="mailto:nagasaka.fumio@exc.epson.co.jp">nagasaka.fumio@exc.epson.co.jp</a>
Ota, Junichi	Ricoh	<a href="mailto:ohta@ussj.ricoh.com">ohta@ussj.ricoh.com</a>
Regnier, Alain	Ricoh	<a href="mailto:alain@rpo.ussj.ricoh.com">alain@rpo.ussj.ricoh.com</a>
Sekine, Hitoshi	Ricoh	<a href="mailto:Hitoshi@ussj.ricoh.com">Hitoshi@ussj.ricoh.com</a>
Songer, Gail	Peerless	<a href="mailto:gsonger@peerless.com">gsonger@peerless.com</a>
Soord, Geoff	Software 2000	<a href="mailto:Geoff_soord@sw2000.com">Geoff_soord@sw2000.com</a>
Taylor, Bob	HP	<a href="mailto:bobt@hp.com">bobt@hp.com</a>
Thrasher, Jerry	Lexmark	<a href="mailto:thrasher@lexmark.com">thrasher@lexmark.com</a>
Tronson, Ted	Novell	<a href="mailto:ttronson@novell.com">ttronson@novell.com</a>
Uchino, Atsushi	Epson	<a href="mailto:uchino@eitc.epson.com">uchino@eitc.epson.com</a>
Wagner, William	NetSilicon	<a href="mailto:wwagner@netsilicon.com">wwagner@netsilicon.com</a>
Whittle, Craig	Sharp	<a href="mailto:cwhittle@sharplabs.com">cwhittle@sharplabs.com</a>
Wright, Don	Lexmark	<a href="mailto:don@lexmark.com">don@lexmark.com</a>
Yang, Yiruo	Epson	<a href="mailto:yyang@eitc.epson.com">yyang@eitc.epson.com</a>
Zehler, Peter	Xerox	<a href="mailto:pzehler@crt.xerox.com">pzehler@crt.xerox.com</a>

### 4 Future Meetings

#### 4.1 Next Face-to-Face Meeting

The next Plenary and set of face-to-face meetings are scheduled for:

Monday – Friday January 20-24, 2003

Sheraton Kaanapali Beach Resort

2605 Kaanapali Parkway

Lahaina, Hawaii 96761

An announcement has been sent out on the PWG Announce distribution list and posted on the web. It is recommended that reservations be made by the provided fax form.

The proposed week's schedule is below; there are potential changes to accommodate interaction between different working groups and with the 1394 group, and other pending changes as well. Please check the web for an updated week schedule.

### January 2002 Proposed Meeting Schedule

Day	Date	Group
Monday Morning	20 Jan	XHTML-Print
Monday Afternoon	20 Jan	IPP FAX
Tuesday	21 Jan	Plenary Web Management BOF Character Repertoire BOF (sequential)
Wednesday	22 Jan	uPnP Print & Scan (going late)
Thursday	23 Jan	Semantic Model
Friday	24 Jan	PSI

#### 4.2 2003 Schedule

The previously proposed schedule for 2003 was *again* modified. Since the April meeting set was increased to 5 days, the set was shifted to March 31 to avoid the Easter Monday conflict. This is subject to further review.

Novell's hosting a meeting at Provo remains scheduled for December; suggestions to move the meeting were not approved.

#### 2003 PWG Schedule

Week of	Location
January 20	Maui, Hawaii
March 31	Washington, D.C.
July 14	Vancouver, B.C.
October 6	N.Y.C.
December 1	Provo, Utah

## 5 Working Groups Status Reports

The activities in the PWG constituent working groups were briefly reviewed.

IPP – Tom Hastings/Harry Lewis  
 PWG Semantic model – Peter Zehler  
 XHTML-Print - Don Wright  
 IPP-FAX Status - Gail Songer  
 PSI - Alan Berkema  
 Printer MIB Update – Harry Lewis  
 MIB – Harry Lewis

## 5.1 IPP

### 5.1.1 Status of IETF and ISTO IPP Documents

Harry presented the IPP status document emailed by Tom Hastings. The status report is accessible at:

<ftp://ftp.pwg.org/pub/pwg/ipp/document-status/status-of-ipp-docs-021101.pdf>

Summary is:

<a href="#">Previously Published IPP RFCs (that haven't been obsoleted)</a>	7 documents
<a href="#">Newly published RFCs as of September 2002:</a>	3 documents
<a href="#">Obsoleted RFCs</a>	2 documents
<a href="#">IPP WG IETF Standards Track IPP Internet-Drafts</a>	5 documents
<a href="#">IETF IPP Documents submitted by individuals</a>	1 document
<a href="#">IPP Internet-Drafts no longer on the IETF Standard Track</a>	3 documents
<a href="#">Approved PWG IEEE-ISTO IPP standards</a>	4 documents
<a href="#">Proposed PWG IEEE-ISTO IPP standards</a>	7 documents

Tom had identified several issues, which were discussed:

Issue	Text	Conclusion
1	EXPERIMENTAL documents become historic which is a lower status than OBSOLETE. Should we re-issue these 3 above documents as Informational and revised for IPP/1.1	Take no action
2	The AD said the security model [of the Printer Installation Extension] is all wrong; the client needs to be able to protect itself. IPP WG is withdrawing progressing this on the IETF Standards track.	Take no action w/r IETF. See below w/r to ISTO.
3	The IESG has some confidentiality and authentication issues with INDP notification. IPP WG is withdrawing progressing this on the IETF Standards track. Should we make INDP a PWG IEEE-ISTO standard?	Take no action w/r IETF. See below w/r to ISTO.
4	The IESG has some confidentiality and authentication issues with MAIL-TO notification. IPP WG is withdrawing progressing this on the IETF Standards track. Should we make INDP a PWG IEEE-ISTO standard?	Take no action w/r IETF. See below w/r to ISTO.
5	[With respect to "Distributed Notification Service and IPPGET Client Behavior"] and IPPFAXWG, which is REQUIRING support of IPPGET Delivery Method: Is redirection an option of an IPPFAX Receiver? If yes, then the IPPFAX Sender MUST support redirection as specified in this document.	Redirection Is not a requirement

### **5.1.2 PWG/ISTO Activity on IPP**

In considering the IPP ISTO documents, the Override document may be deprecated in favor of promotion of the Document Object

In general, ISTO PWG standards have been non-networking specific with networking oriented items passed through the IETF. However, IETF-rejected documents may be resubmitted to the PWG ISTO for consideration. It is a question of whether there is sufficient interest to resubmit them to the ISTO, or to treat defined capabilities as individual extensions.

Also, considering the increased activity on IPP and the likelihood that these additions will be considered by the PWG rather than IETF, the question was raised of whether a PWG IPP group with chair be established to guide generation of IPP ISTO standards. There was no conclusion.

Several new IPP issues will be discussed after the scheduled Semantic Model working group meeting. These include the promotion of the Document to full object status and the proposed new set of "Actual" attributes.

## **5.2 Semantic Model**

Peter presented a quick status summary. The effort is going well. The intent is to do a walk-through of the specification at Wednesday's meeting. The schema is less stable and is subject to modification as usability and reusability is exercised in implementations such as the intended use of the semantic model for PSI and UPNP.

## **5.3 XHTML-Print**

Don reported that this is also progressing well. The specification has been reviewed by the several authors and the intent is to do a page-by-page review at the working group meeting. It is possible that the effort may be done today and there may not be a need for an XHTML-PRINT session in Hawaii.

The 48-hour notice has just come from the RFC editor that the application/multiplexed draft has been approved and will be RFC 3391.

## **5.4 IPPFAX**

Gail Songer presented a concise statement that substantial work has been accomplished in the definition of a Streamable PDF Fax data format. The specification will be reviewed by the working group on Friday. This progress has been due largely to the substantial support from Adobe. This represents a major turn-around in the IPP FAX, which did languish for some time because of the difficulties with TIFF-FX and extensions.

## **5.5 PSI**

Alan Berkima reported that the PSI effort, which began with a very aggressive schedule, is running behind, but still close to schedule. It was intended that the specification be ready for a page-by-page review during the November working group meeting. However, there are still some major issues to be resolved, including the representation of capabilities (as distinguished from attributes), the appearance of requested attributes, etc. The present draft is at level 0.92. It is intended to complete some work items and progress to level 0.93 this week. The weekly phone conferences will continue.

## **5.6 MIB**

Harry reported that the editors continue to modify the Printer and associated MIBs to address IESG issues. As Ron Bergman had indicated in October, the Printer and Finisher MIBs were modified by extracting all the Type 2 and Type 3 TCs into a separate MIB defined in the same documents. There are no technical changes. We are continuing to look to release of these documents as RFCs soon.

## **5.7 UPDF**

Harry reported that the effort is essentially complete in terms of the stated objective of providing a printer driver format and that the principals are looking to co-ordinate with driver applications.

In addition, there is increased interest in using UPDF work to implement the capabilities aspects required for PSI, the Semantic model, and possibly IPP-FAX. There are some issues for use with PSI and the Schematic model because UPDF, predating the model by several years, does not fully align with the semantic model. This potential realignment is intended as the major item of discussion at the Friday UPDF meeting.

# **6 General PWG Business**

## **6.1.1 New Agreement**

New ISTO agreement for members was signed by Harry. The document will be posted on the PWG Web site.

## **6.1.2 Document Draft Naming**

Recent email traffic has pointed out problems in the assignment of numbers and naming for PWG-ISTO drafts. A New policy /process document is needed to be drafted to specify a naming scheme for drafts. The new policy will probably also specify document format mandating html and PDF. It may still allow the use of the Microsoft Word format for working documents.

## **6.1.3 DHCP Config for SNMP Traps**

Considering that it would be considered of some interest to PWG members, mention was made of Ira McDonald's message that there is a proposal to include addresses of SNMP

Notification Receivers and network management stations as a DHCP Option to facilitate SNMP trap configuration.

#### **6.1.4 Print standard Universe**

Although nothing further has been done specifically toward documentation and liaison, Semantic Model seeks to set consistency among different standards related groups. These include:

- PODI
- FSG
- CIP4
- UP3i (finishing)
- Java Print API
- uPnP

## **7 New Activities**

### **7.1 WEB Services Device Management**

Bill Wagner gave a short presentation on the uses and possible approaches to Web Services device management. This presentation is PWG FTP site at

<ftp://ftp.pwg.org/pub/pwg/wsm/R&A.ppt>

The presentation offered both a monitoring-only approach (Cameras) and an approach allowing set of parameters and download of files (Missiles). IBM, for one, indicated a solution without missiles would not be of interest.

The group expressed moderate interest in pursuing this, and a BoF (Birds of a Feather – startup meeting) is scheduled for January.

Harry indicated that a mail list will be started for the activity and Bill said that he will offer a draft charter.

In conversation, it was agreed that the first step (after identifying the need) is to research existing protocols and activities in this vein. Suggestions included:

1. WebDAV (RFC2318 and RFC3253), and specifically the application of WebDAV to network management  
<ftp://ftp.ietf.org/internet-drafts/draft-presuhn-nmwebdav-00.txt>
2. BEEP (Blocks Extensible Exchange Protocol) RFC3080 and specifically Using the Simple Object Access Protocol (SOAP) in Blocks Extensible Exchange Protocol (BEEP) RFC3288
3. Work of the proposed IETF xmlconf working group (see IETF PROCEEDINGS OF THE FIFTY-FOURTH INTERNET ENGINEERING TASK FORCE - <http://www.ietf.org/proceedings/02jul/168.htm>)

Although none of these is directly applicable to the Web management of imaging devices, either in object or in application, there are techniques and methods that are applicable and that may be useful to consider.

## **7.2 FONTS**

Elliot Bradshaw has proposed a draft charter for Character Repertoires. There has been some discussion on the list and there is a show of general interest. However, with Elliot not in attendance, there was no further discussion at the plenary meeting. There is a BoF (Birds of a Feather – startup meeting) planned for the January meeting.

## **7.3 IPP Job Ticket**

Harry again brought up the proposal for extending IPP to carry a capabilities document and a job ticket. He is co-coordinating this activity with the Semantics Model principals. Capabilities means more than a listing of attributes.