



Printer Working Group Plenary Meeting Minutes

Portland, Oregon
18 June 2003

Submitted by Bill Wagner, NetSilicon, PWG Secretary

1 Time and Place

The Portland PWG meetings were held at the Weston Alder, in downtown Portland, during the week of June 15. The schedule for the week is represented below. The schedule included a meeting with the Free Software Group on Tuesday, and a joint plenary meeting on Wednesday night, with the intention of increasing the interaction between the two printing-oriented organizations. The FSG presentations given during the Tuesday sessions have been made accessible at:

ftp://ftp.pwg.org/pub/pwg/fsg/June2003_meeting_slides/

| Day | Group |
|---------------------|--------------------------------------------|
| Monday (June 16) | - Device Management |
| | - Character Repertoire |
| Tuesday (June 17) | FSG Tracks |
| | - FSG OP PAPI (8am-11am) |
| | - FSG OP JTAPI (12pm-3pm) |
| | - FSG OP Printer Driver/Renderer (3pm-6pm) |
| | - FSG OP Plenary (7pm-9pm) |
| Wednesday (June 18) | - Plenary (Morning) |
| | - IFX (Afternoon) |
| | - Extended Plenary (Evening) |
| Thursday (June 19) | - Semantic Model |
| Friday (June 20) | - PSI |

2 Agenda & Schedule

Chairman Harry Lewis started the PWG plenary at 8:30 AM PDT.

Harry presented the agenda for the basic plenary meeting:

- Self-Introduction of Attendees
- Discussion of 2003 Schedule
- Project Details and Reports from the constituent working groups
- Discussion of next meetings details
- Status of IETF Standards Review of

After a break at 10:15, attention concentrated on the latest version of the PWG Process document until 12:00 noon, at which time the Plenary was adjourned for lunch. The IFX/IPP-FAX meeting ran from 1:00 to 5:00, followed immediately by the scheduled PWG/FSG Joint Plenary with the FSG. At 6:30, after the joint Plenary, the PWG plenary reconvened to continue work on the Process document. This work continued to 8:10 PM when the June 2003 PWG Plenary meeting was dismissed.

3 Meeting Attendees

| Attendee | Company | Email Address |
|-------------------|------------------|------------------------------------------------------------------------------------|
| Berkema, Allan | HP | allan.berkea@hp.com |
| Bradshaw, Elliott | Oak Technologies | elliottBradshaw@oaktech.com |
| Carney, Dennis | IBM | dcarney@us.ibm.com |
| Farrell, Lee | Canon | lfarrell@cis.canon.com |
| Kellerman, David | Northlake | david-kellerman@nls.com |
| Lewis, Harry | IBM | harryl@us.ibm.com |
| Nagasaka, Fumio | Epson | nagasaka.fumio@exc.epson.co.jp |
| Ohtake, Shin | FujiXerox | Shin.ohtake@fujiXerox.co.jp |
| Seeler, Rick | Adobe | rseeler@adobe.com |
| Songer, Gail | Peerless | gsonger@peerless.com |
| Thrasher, Jerry | Lexmark | thrasher@lexmark.com |
| Tronson, Ted | Novell | ttronson@novell.com |
| Uchino, Atsushi | Epson | uchino@eitc.epson.com |
| Wagner, William | NetSilicon | wwagner@netsilicon.com |
| Yang, Yiruo | Epson | yyang@eitc.epson.com |
| Zehler, Peter | Xerox | pzeehler@crt.xerox.com |

4 Review of Previous Plenary Minutes

The published minutes of the April Cyberspace meeting (pwg-0304.pdf) were accepted

5 Future Meetings

5.1 Dates

The 2003 schedule is as discussed. It was concluded that an additional meeting group in August, coordinated with the planned uPnP imaging meeting in Irvine CA, would be desirable. The chairman will investigate the feasibility of this. [The Chairman determined that the uPnP meeting was rescheduled to September, too close to the October PWG meeting to warrant attempting a joint meeting.] The remainder of the 2003 schedule remains as previously proposed.

| Week of | Location/Comment |
|--------------|--------------------------------------------------------------------------------|
| August 12-13 | PSI Interop Vancouver Wa Just companies with PSI implementations to test |
| October 6 | NYC |
| December 1 | Provo, |

5.2 *NEXT Meeting Agenda*

A discussion of the working groups requirements suggested the following preliminary agenda for the October meeting.

| Day | Activity |
|-----------|---------------------------------------------------------|
| Monday | PSI/SM |
| Tuesday | WBMM |
| Wednesday | Plenary/IFX/CR |
| Thursday | Notifications/Discovery/IPP extensions (new activities) |
| Friday | Open |

6 Reports from Constituent Working Groups

6.1 *Character Repertoire-CR*

Elliott Bradshaw said that the group charter has been submitted for formal approval. The primary document of the groups has been completed and is regarded as mature. There remains the question of prototyping and interpretational test, nominally necessary to proceed to candidate standard by the new process.

The group needs to consider what extension of the effort and additional projects should be considered.

6.2 *Web Base Monitoring and Management - WBMM*

Bill Wagner summarized group activity since January. The group charter has been submitted for formal approval. An extensive scenarios document has been developed and is currently being analyzed to evolve into a requirements document.

The submitted charter has been revised significantly from that proposed in January. This revision reflects the desire by the group to develop a modern Management Data Model and to address intra and extra enterprise management in a consistent ways.

With this increase in scope, the group must address three related activities:

- Design of Imaging Device and Service Management Models
- Definition of the set of operations necessary to access the management elements
- Identification of the transport methods necessary to communicate in the different scenario environments.

6.3 *IPP FAX - IFX*

Gail Songer indicated that the PDF IX document is being stabilized. Prototyping and test is being considered preparatory to being submitted as a candidate standard. There are several receiver implementations but only one sender implementation has been identified.

There are still a few points to be resolved in the IPP Fax document –specifically notification

6.4 Semantic Model – SM & IPP Extensions

Peter Zehler stated that the SM activity was in good shape. There are inter-dependencies on other documents both within the group and in IETF/IPP extension documents. However, the basic model is complete with regard to structure. Continuing editing is necessary to accommodate new elements and to synchronize changes among the Document Model, Overrides, Jobex and Futures documents.

The intent for the Thursday working group meeting is to go over the Document Object specification, close issues, finalize and put out to last call. The Override document does not have many issues and will also be addressed. If there is time, the group will look at major issues in the Jobex document, but the intent is to resolve remaining Jobex issues in coming conference calls.

Once these documents are stable, there will be a complete edit on Semantic model document prior to last call.

Peter's group has also been the focal point for IPP extensions including Document Object, override and Jobex documents. The group has completed the "Actuals" document, which has passed last call and will be formalized shortly. Peter also pointed out that there are many approved IPP extensions but there have been no interoperability tests since IPP V1.1. This suggests the need for a unified IPP 1.2 effort to collect these extensions and to allow a reasonable compatibility test.

6.5 Print Services Interface -PSI

Alan Berkema stated that the PSI specification has been in last call since the last face to face, and had been subjected to a lot of review and enhancement. An August compatibility test is scheduled. As of this point, there are only two participants identified.

There was some discussion of how to get more interest in and implementations of PSI. Alan observed that the original intent was Bluetooth printing. But the capacities have been extended to support an extensive Internet printing service. The problem of interest relates to business issues, since PSI does not facilitate or improve existing business but rather opens up the potential for new ones. There was no resolution of this issue.

6.6 Additional Activities

Harry Lewis gave a brief summary of the status of the remaining projects.

- **XHTML-Print:** Transferred to W3C - PWG maintains copyright for existing work.
- **UPDF-Universal Print Driver Format:** Being Merged with PSI capabilities.
- **PWG-IPP Extensions:** Being addressed in conjunction with the Semantic Model activity

7 New Activities

The group discussed the need to establish new working groups to address the continuing IPP activities and the needs of several working groups for a general solution to notifications and device/service discovery. There is the general problem of getting resources to work on these projects. In preparation for addressing notification, the chairman will:

- Request that the authors of the IPP Notification Internet Drafts send a message to the IETF requesting the right to retract these documents and regain copyright.
- Investigate the potential for staffing additional working groups

8 General PWG Business

The Chairman identified the follow general PWG business issues:

- Fuji-Xerox and its participant representative Shin Ohtake are welcomed as a new PWG member
- Participants of member companies that have not paid the 2003 membership dues are requested to do what they can to expedite payment.
- All member companies are requested to check and, if necessary, update their company logos on the PWG web site.
- Please check your companies listing of IPP compatible products on the PWG web site. The organization has received complaints that some information was not correct. Please send update information on current implementations to Chairman Harry Lewis.
- The terms of the current PWG officers expire in September 2003. The organization requires that the offices of chairman, vice chairman and secretary must be filled. The duties of these officers are listed in the PWG Process document. Although this document is currently under revision, definition of duties is quite similar in both versions. Nominations are open and should be submitted to the current chairman or the secretary. (The secretary does not intend to run for re-election.) The Chairman will make a formal announcement over the PWG Announce list.

9 Review of the Latest Process Document

The organization has been working with the SM and other working groups to modify the basic documentation of the standards development and publication process. The draft reviewed was based on the version posted by Dennis Carney on April 14.

<ftp://ftp.pwg.org/pub/pwg/general/process/pwg-process20-20030327-process document>

It addressed the issues brought up at the Cyberspace meetings in April and was further revised in response to comments from Don Wright from an ISTO perspective.

Denis edited the document in real time during the discussions. The following notes relate to subjects that had more than passing discussion to indicate the basis for some of the changes. These notes cover Process Document discussion during both the morning and evening sessions of the PWG.

Discussion of voting rights and restructuring description to accommodate extensive use of conference calls, email voting, and change of the nature of the organization to paid membership. Also, acted to separate requirements for working group voting from plenary voting.

Formal Approval was defined as being votable by all paid up member companies, one vote per Member Company in good standing, with the poll conducted via email. There are no attendance requirements.

Working Group meeting votes require attendance by some representative of the member company in two of four last face-to-face or conference call meetings.

There was extensive discussion on the fact that the method of revising the process document was not in the original document. It was generally decided to define this in the new version, and to follow this process in reviewing and voting on the new document.

It is our understanding that the revised process document need not be reviewed by the ISTO.

The meeting as suspended at 12:00N and restarted at 6:30 PM.

There was a general review of the document from the start with specific consideration of identified issues.

In a discussion of working group officers, the notion was to require a full compliment of officers and Editors. However, there may be some doubling up. This idea evolved into requiring that the PWG chair must ensure adequate group leadership of all working groups, implying that a working group without leadership is to be disbanded.

In general, the remaining changes were agreed-to as documented

There was some redistribution of information in the working draft and candidate specification sections.

After discussion, it was decided to restore the original Urgent Proposals paragraph, with a different name. This paragraph gives the steering committee the right to bypass steps in the standards approval process in unusual circumstances.

The FTP site procedures additions were accepted. However there was the question of who maintains the FTP site, and specifically the index file. The responsibility for ensuring that the Web and FTP site are maintained properly was not determined.

The IP section is again left as because this is what member companies agreed to when entering the organization. A change here would require full approval of the legal organizations of all members.

Added a provision that the process document change not including the IP section may be approved by a formal approval vote as defined in the document.

This edited version of the procedure document is version 2 and will be submitted to the PWG for formal approval.

The meeting was concluded 8:10 PM.

10 Joint FSG/PWG Plenary

The Joint FSG/PWG plenary was held from about 5:30 to 6:30 PM. The intent of the joint meetings was to consider in what ways the PWG and FSG work cooperatively. Most PWG members had joined FSG discussions on Tuesday, which included an overview of FSG activities. The FSG was looking to see where PWG fits in. The joint Plenary evolved into a general presentation of PWG objectives and activities.

10.1 Attendees

| | | |
|--------------------|-----------------------------|------------------------------------------------------------------------------------|
| Alimpich, Claudia | IBM | alimpich@us.ibm.com |
| Carney, Dennis | IBM | dcarney@us.ibm.com |
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| Hamzy, Mark | IBM | hamzy@us.ibm.com |
| Hemstreet, Charles | HP | Charles.kemstreet@hp.com |
| Jacobs, Norm | SUN | Norm.Jacobs@sun.com |
| Kampeter, Till | Mandrake | Till.kamppeter@gmx.net |
| Lewis, Harry | IBM | harryl@us.ibm.com |
| Mihara, Osamu | Fuji-Xerox Printing Systems | Mihara.osamu2fxps.co.jp |
| Nagasaka, Fumio | Epson | nagasaka.fumio@exc.epson.co.jp |
| Ohtake, Shin | FujiXerox | Shin.ohtake@fujiXerox.co.jp |
| Petrie, Glen | Epson | Glen.petrie@eitc.epson.com |
| Songer, Gail | Peerless | gsonger@peerless.com |
| Thrasher, Jerry | Lexmark | thrasher@lexmark.com |
| Toratani, Tasumasa | Canon | Toratani.yasumasa@canon.co.jp |
| Tronson, Ted | Novell | ttronson@novell.com |
| Uchino, Atsushi | Epson | uchino@eitc.epson.com |
| Wagner, William | NetSilicon | wwagner@netsilicon.com |
| Yang, Yiruo | Epson | vyang@eitc.epson.com |
| Zehler, Peter | Xerox | pzehler@crt.xerox.com |

10.2 Review of PWG Activities

It was observed that the Semantic Model activity is a good example of a consistent approach provided over multiple standard activities by having overlapping participants

Continued inter-participation would be encouraged by identify what is being done in each group and what else is needed in each group.

It was observed that Feedback on unofficial level (e.g., Tom and Ira) may suggest changes and additions. There is no guarantee that these will be fully incorporated.

Quick Summary of PWG group activities:

Character Repertoire -

Current target is for feeble devices driven by feeble clients - content oriented

Should group address:

- font parameters (name, family, style, appearance, weight, vendor, version, encoding etc)?
- Color spec
- Contact sensitive
- Media margins, dimensions, col support

IPP

We have 1.1 plus many extensions.

Should there be an IPP1.2 effort to

- collect these extensions in an integral document
- provide for compatibility testing
- Set the bar higher and verify.
- Enlarge minimum operations/attributes sets so drivers can have better baseline.
- Allow integral use of job ticket instead of individual parameters
- Provide for general query of capabilities rather than attribute check.

Semantic Model -

FSG applied the model at a level between IPP (lower end) and JDF (higher end) – may be good reference for what features/granularity of values should be considered for inter mapping

Additional Considerations

There was a brief run through of the other PWG activities, which were believed to be of less interest to FSG.

Finally, it observed that the FSG architecture is intended to specify a uniform printing mechanism for LINUX/POSIX. The group will be will be generating reference drivers and establishing Print systems. These should be considered use cases to identify and test PWG product.