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## Attendees

Harry Lewis	IBM
Bill Wagner	NetSilicon
Fumio Nagasaka	Epson
Peter Zehler	Xerox
Jerry Thrasher	Lexmark
Dennis Carney	IBM
Ted Tronson	Novell
Atsushi Uchino	Epson
Yiruo Yang	Epson
David Kellerman	Northlake
Lee Farrell	Canon
Gail Songer	Peerless
Elliott Bradshaw	Oak
Rick Seeler	Adobe

### Via Phone

- Rob Buckley
- Ira McDonald
- Tom Hastings

# PDF/Is:

Itinerary for PDF/Is Discussion (1 hour)

- 20 min: Overview of changes to PDF/Is since Maui.
- 5 min: Recap of PDF/A meeting.
- 10 min: Review new IP statement from Adobe (waiting for VP approval).
- 15 min: New issues.
- 10 min: Wrap up

PDF/Is Changes:

- Elimination of all PDF/Is profiles: Blind interchange is now possible as all consumers must support all necessary features. Things that are still optional for consumers: DSigs, Text searching.
- ICCBased sRGB color space is now the only supported color space. (pg. 23)
- Gray scale images now must be implemented as Indexed sRGB color. (pg. 24)
- Encryption was removed - both Standard and PPK.
- Page ordering for duplexed documents are now indicated in format. Allows consumers to order pages correctly. (pg. 17)
- Originator ID images are now required and tagged in format for easy identification and replacement if document is forwarded. (line 884)
- Stream tags (the document ID) have been added to aid consumers in finding the end of a stream if the stream data is corrupt or not supported. (pg. 17)
- Invisible Text is now permitted. Allows OCR supporting producers to embed searchable text. (pg. 19)
- JBIG2 T.89 profiles 2 and 3 were added (originally only 1 and 4 were supported) since they are mostly subsets of profile 4. (pg. 13)
- Flate compression will be allowed for non-image data streams. Useful for compression of content streams, especially if they contain invisible text. (pg. 14)
- Both formats (PDF/Is and PDF/A) were modified slightly to facilitate making PDF/Is a subset of PDF/A when PDF/A becomes a full standard. (pg. 30)
- Content Streams can now be fully streamed - multiple Content Streams per page are now allowed and they need not be determined at the beginning of the page. (pg. 17)

PDF/A:

- PDF for Archiving. [www.aiim.org](http://www.aiim.org)
- Driven by government orgs, PDF plug-in developers, and Adobe.

- Currently an ANSI working group, will be moved to an ISO group in Oct.
- It's desirable to make PDF/is a subset of PDF/A, but - PDF/A won't be done for another year or more.
- Changes achieved at PDF/A meeting:
  - Docs may be Digitally Signed.
  - Invisible text does not require a font to be embedded.

New Issues:

- Rob Buckley:
  - Aware of two patents (Xerox & Scansoft) that may relate to PDF/is.
  - Xerox - RE35657
  - Scansoft - 5778092
  - Royalty free for TIFF-FX but might not be for PDF/is.
  - Are these patents essential?
  - \*\*\* Call out in known-IP issues in PDF/is spec.

Wrap-up:

- Interop testing:
  - Producers: Adobe (late Summer / Early Fall), ?
  - Consumers: Not a problem... multiple implementations.
- Are we ready for last call?  
Yes, it sounds like it

# IPP Fax:

## Previous decisions:

Document-format – only application/pdf.

Document-format-versions-supported – Allowing any flavor of PDF, and requiring PDF/is.

document-format-version - Move to JobX spec.

digital-signature - Moved to JobX spec. (JobX spec is finished, and out for comments)

## Administrative Operations

All administrative operations, including the set-ops and enable-printer/disable-printer will be allowed but only if TLS has authenticated the user and the user has rights to perform them.

## Sender-URI Stamps.

The format will provide an indirect link to the image of the stamp in the header of the document. Must be visible on at least the first page, recommended that if on more than one page SHOULD be cached. Optional in PDF/is and required in IPPFax. Change the name to "Originator identifier image".

## Scaling

**At a minimum, an IPPFAX receiver MUST be able to render the sizes A4 and NA Letter and be able to print on at least one of those two sizes.** The Receiver MAY scale down at most 10% (PDF/is directives may prohibit this scaling), overflow to another page, or truncate. If the Receiver does truncate then it must notify the Receiving User.

Scaling MUST be isomorphic, if any scaling is done.

**ADD to Page notification warning of truncation or overflow.**

## New Media Name

We agreed on the new "media" name that means a choice of media. Following "choice\_" will be repeated with complete self-describing size name values, separated by "\_". For example, IPPFAX will defined the value:

'choice\_iso\_a4\_210x297mm\_na\_letter\_8.5x11in'

to mean that either ISO A4 or NA Letter is acceptable. The names must be in alphabetic order in order to give a single keyword value. Defined in JobX

## Open Issues:

Should we require the receiver to implement job-impressions-supported and job-media-sheets-supported? (And specify an upper-bound?) Attributes support left to implementation/site policy. Leave upper-bounds to printer policy.

copies and collating: Table 5 indicates that sheet-collate MUST be "collated". Should copies be anything but 1 because we can't be sure that a printer can collate over many copies? Force copies to 1. Collation becomes mute. MUST NOT.

In document-object spec, should we have a new attributes to indicate which attributes will be overridden? If so, we should pick this up. TomH will investigate. Pushed to Futures Spec. Not a requirement for IPPFax

For an archiving system, never update job-media-sheets completed. Update job-k-octets but should not do page level notifications (progress, warning, errors) but would get job level notifications.

Do we need a job-complete state that indicates saved but will never be printed? YES: Job states: pending, archiving, archived. (These will be used when an IPPFAX Receiver is saving the job instead of printing it) Move to JobX spec?

## Media-Ready

Should it stay or should it go? (See sequence of emails)

It might be ready when the command was executed, but not when the job is processed. Does not require human intervention to enable the printer to use the paper size. Don't require this attribute.

## Notifications

Need warning notification when scale, truncate, overflow

“What should a consumer do if a MUST in PDF/is is not followed? Warn the consumering user, attempt to find the next page and continue. In IPPFax ippget notifications, can we send an indication that the page didn't render properly? “

Notification spec will be ejected from the IETF in a week. We can notify the IETF that we want to remove it from the standards track. Carl-Uno would draft a note to the IETF (signed by all the active editors - Bob, Tom and Harry) stating the intentions.

Want notification on EACH page error/warning, two new categories under job progress. Can't get just get job-progress without getting these two new alerts. However we need an editor for the spec.

Email -

IFX> Proposed new Job and Document events (IPP Notifications)

Email -

IFX> Shortest path for IPPFAX w/ IPP events

**IFX> Proposed new Job and Document events (IPP Notifications)**

Hi folks, Wednesday (11 June 2003)

Per an action item of mine from last week's PSI telecon (3 June) and in preparation for our IFX telecon on IPP Notifications and IPPGET this afternoon, below are all of the currently defined IPP events:

'printer-state-changed' REQUIRED

(sub-events)

'printer-restarted' OPTIONAL

'printer-shutdown' OPTIONAL

'printer-stopped' REQUIRED

'printer-config-changed' REQUIRED

(sub-events)

'printer-media-changed' OPTIONAL

'printer-finishings-changed' OPTIONAL

'printer-queue-order-changed' OPTIONAL

'job-state-changed' REQUIRED

(sub-events)

'job-created' REQUIRED

'job-completed' REQUIRED

'job-stopped' OPTIONAL

'job-config-changed' OPTIONAL

'job-progress' OPTIONAL (page-level progress)

I propose (for IPPFAX) two new job progress sub-events:

'job-progress' OPTIONAL (page-level progress)

(sub-events)

'job-error' OPTIONAL (page-level error)

'job-warning' OPTIONAL (page-level warning)

I propose (for IPP Document object) a new set of document events:

'document-state-changed' REQUIRED (if Document object supported)

(sub-events)

'document-created' REQUIRED

'document-completed' REQUIRED

Also worth considering are the (oddly, undefined) 'job-processing' and 'document-processing' events.

Comments?



## **IFX> Shortest path for IPPFAX w/ IPP events**

Hi folks, Thursday (12 June 2003)

We had a long discussion at yesterday's IPPFAX telecon - showing that there are some anomalies/loose ends in our current Notifications spec.

Dennis Carney suggested a 'shortest path' approach for IFX, PSI, WBMM:

1) Convert the former Internet-Drafts for IPP Notifications and IPPGET to IEEE format and 'last call' them for Candidate Standards with no new events (just a few Notes per various IESG 'last call' comments).

- We need editors. Gail might, Ira would help, volunteers?

2) Then 'last call' IPPFAX/1.0 for Candidate Standard without the (possible future) 'job-error' or 'job-warning' events.

- IPPFAX/1.0 clients request 'job-state-changed' (network chatter) or 'job-completed' (and 'error-count' and 'warning-count' in the 'notify-attributes' list) or just use Get-Job-Attributes polling.

3) Revise the IEEE Notification specs (taking our time - good point, Dennis) and define new events for IPPFAX/1.1, PSI/1.1, WBMM, etc. (see proposed extensions below).

Comments?