

Status of IPP FAX

presented by Lloyd McIntyre, Xerox
at the Internet WG meeting at
IETF51, August 5-10, 2001, London

IPP FAX Time Line

- Started IETF discussions summer 1998
- Printer Working Group standard project
 - Started September 2000
 - Originally called “High Quality Document Distribution” (QUALDOCS)
 - Renamed to IPP FAX to help recognition
- Target completion: this Summer
- Bake Off: this Fall

What is IPP FAX?

- Immediate, reliable, secure Internet transfer of high-quality Universal Image Format (UIF) (enhanced TIFF/FX) documents
- Uses the standards track Internet Printing Protocol (IPP/1.1), RFC 2911 and 2910, September 2000
 - Most Printer vendors currently shipping IPP
 - Internationalization: document charset and language identified
- Immediate capability query, prompt job accept response, and subsequent printing completed notification
- IPP is layered on HTTP/1.1 sessions with default port 631
- Uses Transport Layer Security (TLS, RFC 2246)

UIF (Universal Image Format)

- Higher UIF conformance requirements for each TIFF/FX Profile: S, F, J, C, L, M:
 - 200, 300, 600 DPI REQUIRED for B/W
 - 200, 300 DPI REQUIRED for color
 - Resolution not constrained
 - ImageWidth not constrained
- MIME type - self describing subset of:
 - tiff/image; application=uif; profile=s,f,j,c,l,mcfjls

IPP FAX Protocol

- Get-Printer-Attributes request/response operation
 - query for profiles and CONNEG options supported
 - media supported, media loaded, resolutions, etc.
- Print-Job operation to submit UIF document
 - End-to-end document transmission with prompt response: all data received, all attributes validated
 - OPTIONAL off-ramp support (mailto:, fax:, ...)
- IPPGET Event Notifications
 - Events for each page and last page printed
 - Either Sender polls or Receiver sends events
 - Reliable: uses IPP/1.1 protocol

IPP FAX Specifications, 7/27/01

- Universal Image Format (UIF)
 - <ftp://ftp.pwg.org/pub/pwg/QUALDOCS/uif-spec-06.pdf>
- IPP FAX Protocol (IFX)
 - <ftp://ftp.pwg.org/pub/pwg/QUALDOCS/ifx-spec-06.pdf>
- IPP/1.1 Model and Semantics (RFC 2911)
- IPP/1.1 Encoding and Transport (RFC 2910)
- IPP Event Notifications and Subscriptions
 - [draft-ietf-ipp-not-spec-06.txt](#)
- IPPGET Delivery Method for Event Notifications
 - [draft-ietf-ipp-notify-get-04.txt](#)

IPPFAX contacts

- IPPFAX Web Page:
<http://www.pwg.org/qualdocs/index.html>
- To send to ifx@pwg.org mailing list, you must first subscribe:
- To subscribe to the ifx@pwg.org, send mail to majordomo@pwg.org:
 - 1) leave the subject line blank
 - 2) put the following two lines in the message body:
subscribe ifx
end