Internet Printing Project
Conference Call - February 26, 1997

The meeting was called to order at 4:05 PM EST.

Attendees:

Bob Herriott - Sun
Carl-Uno Manros - Xerox
Roger Debry - IBM
Peter Zehler - Xerox
Randy Turner - Sharp
Don Wright - Lexmark
Tom Hastings - Xerox
Jim Walker- Dazel
Scott Isaacson - Novell
Steve Zilles - Adobe
Stan McConnell - Xerox

Agenda

- Requirements
- Directory
- Protocol
- Time to start the Prototype sub-group
- Model
- Administrative issues
    - Web page orientation
    - Carl-Uno's Object Model

Requirements

- Minimal number of responses to the existing documents.
- Deadline of comments is still March 5, 1997.
- New document targeted for March 7, 1997.

Directory

- Keith Carter has been posting his work to the mailing list.
- No formal work has been done.
- Getting this document done by the IETF meeting depends on the progress of the model work.

Protocol

- Asad from Netscape (415-937-3153, asad@netscape.com) is willing to start working on a Protocol.
- Bob Herriott will try to setup a meeting and a call on March 7. He will notify the list of the details.
- Recent posting seem to indicate that using POST versus a new method would have little difference in performance for printing.
- RFC2068 is the HTTP/1.1 Specification

- Discussion on usage of the ACCEPT Header which is new for HTTP/1.1
- A conforming IPP server will have to deal with both HTTP and IPP responses.
- Usage of MIME is still an issue for the Protocol group.

Prototype Efforts

- There are several prototyping efforts underway
- Potential leaders of this effort should be identified in the next week and selected at the conference call next week.

Administrative

- Authors should create a generic name for their documents that will always be the latest version. The documents will be stored in the historic directory with version numbers
- a minutes subdirectory off of new_xxx should be create for storing meeting and conference call minutes

Model

- New Model document (version 1.4) has been recently posted.
- Minutes have also been posted
- Major open issues
    - Marked with the work ISSUES in the document
    - Are there enough operations?
    - Are the right operations available on each object type?
    - Does the model need to address the issue of breaking a job into multiple segments (i.e. POSTS)?
- Discussion on the need for an attribute that reveals if the Printer is a spooling Printer or not. Is there a need for more than just TCP/IP flow control? Do we need a bidirectional channel? Can all of the status info be sent back in the responses (synchronously)? Since all LARGE jobs will have to be split up by the application segmenting, we know that we will have to do some sort of segmenting. The term chunking should not be used for segmenting since it overlaps with MIME chunking.
- If we choose to make a mapping of IPP model semantics over HTTP we will haver several documents - one for mapping over HTTP/1.0 and one for mapping over HTTP/1.1
- Should Job State Reasons include any printer state reasons? Also, in 1.4 we said that all Printer Status attributes were returned in the Job Submit response. We also stated that the semantics were based on the Printer status just befor the job "is submitted". However, we need to rethink this. If we put printer state reasons in the Job status attributes and we return Job Status attributes rather than Printer Status Attributes, then we solve the problem presented in the scenarios.

End of meeting.