

1 Subj: Brief Minutes of IPP Telecon, Dec 2, 1998  
2 From: Tom Hastings  
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5 Attendees: Maulik Desai, Tom Hastings, Bob Herriot, Swen Johnson, Harry  
6 Lewis, Carl-Uno Manros, Ira McDonald, Hugo Parra, Richard Shockey, Pete  
7 Zehler

8 Agenda:

9 1. IETF43 plans, week of 12/7  
10 2. IPP San Diego plans, 12/16 and 12/17  
11 3. SLP printer template  
12 4. IPP Bakeoff interoperability testing  
13 5. FAX over IPP discussion  
14

15 1 IETF43, Orlando, week of 12/7

16 The IPP Meeting will be Wednesday, 12/9, 9-11:30AM

17 The topics will be:

18 1. Briefly summarize the IPP/1.0 documents forwarded to the IESG for  
19 publication as Informational RFCs  
20 2. IFAX  
21 3. Security

22 Richard Shockey has sent out invitations to the IFAX folks to join the  
23 IPP meeting. There is no IETF charter for "real-time" FAX. IFAX is  
24 store and forward over SMTP. But IPP looks like it meets 95% of the  
25 requirements for real-time FAX over the Internet. Keith Moore, has been  
26 supportive of using IPP for real-time FAX. We will wait to see if the  
27 Area Directors want a charter update or not.

28 The IFAX group will meet Thursday, 12/10, 9-11:30AM

29 2 IPP San Diego plans, 12/16 and 12/17

30 The agenda for San Diego will be:

31 1. IPP Implementer's Guide, Carl-Uno Manros  
32 2. IFAX, Thursday, Richard Shockey  
33 notification will be handled as part of this topic, Tom  
34 Hastings  
35 3. testing - what goes into the test plan, Peter Zehler  
36 4. Security - Randy Turner  
37 5. Extensions - Tom Hastings

38 3 SLP printer template

39 We did not have time to cover this topic. Ira McDonald will send out an  
40 updated version based on the comments from the Tucson meeting. We will  
41 not discuss SLP templates at the San Diego meeting, but will handle the  
42 template on the mailing list.

1 4 IPP Bakeoff interoperability testing

2 Novell will host the bake-off, probably the week of March 8, 1999. The  
3 IETF meeting is the following week, and Brain Share is the week after  
4 that. Hugo Parra and Peter Zehler will firm up plans and announce to  
5 the list. Peter will send out an early ping to judge the interest  
6 level. There may be a limit of attendees to around 50. We agreed to an  
7 earlier cutoff on signing up for attendance of Feb 1, 1999, based on our  
8 experience with the September bakeoff.

9 Peter will produce an updated test plan.

10 5 FAX over IPP

11 Most of the telecon was brainstorming using IPP for real-time FAX. In  
12 Richard Shockey's words, IPP/1.0 has 95% of the features needed for FAX  
13 already. For example:

14 1. immediate feed back whether the data was properly received or not  
15 2. ability to query the device for its capabilities  
16 3. the ability to handle TIFF and TIFF/FX as a document format  
17 4. ability to poll for job printed

18 The following issues were raised:

19 5.1 IPP server relays a job to a FAX dial-up or SMTP mail address

20 Need a way for the client to pass a phone number (a complete E164) or an  
21 e-mail address in a job submission. Then the IPP server relays the job  
22 to the specified FAX number or SMTP mail address.

23 The group preferred adding a Job Template attribute(s) which can be  
24 queried, rather than adding a parameter to a URL.

25 5.2 Does the client and/or the server convert to TIFF/FX?

26 Whose job is it to convert a document to TIFF/FX, the client's or the  
27 server's? Or does it depend. Do we have to extend IPP for both  
28 scenarios? The client can query the IPP Printer object (server) to  
29 determine which document formats it will accept. If the server accepts  
30 only TIFF/FX, then the client must convert to TIFF/FX and insert water  
31 marks. If the server supports other formats, then the server converts  
32 those formats to TIFF/FX and adds the water marks (but would we'd need  
33 to add an attribute from the client to indicate its contents?).

34 5.3 Is watermarking required for every page or just the first page

35 U.S. Law only requires watermarking on the first page, but most  
36 implementations watermark all pages. Is there a European law requiring  
37 watermarking on all pages? However, if current practice is to watermark  
38 all pages, IPP FAX should probably also.

1 5.4 Should watermarking be 128 character CSID or VCARD?  
2 Should the current FAX practice of a 128 character CSID be used, or the  
3 newer, more general VCARD, which is an electronic business card?

4 5.5 How does an IPP server indicate which phone numbers it supports?  
5 How does an IPP server that accepts an IPP print job and dials a PSTN  
6 line to send a FAX, indicate which document formats it will accept and  
7 convert to TIFF/FX (or whatever is necessary)? If the IPP server is  
8 only a front end for FAX

9 5.6 Need additional job status when relaying jobs  
10 Need better job status feed back when jobs are relayed. When the server  
11 is finished relaying the job to another IPP server, FAX machine, or mail  
12 server, the job isn't really completed. Should its state remain in  
13 'processing' until the job is printed at its final destination or should  
14 the job transition to 'completed' as soon as the job is relayed? This  
15 is a general problem for IPP, not just when the server is acting as an  
16 outbound gateway to FAX or e-mail. For example, IPP gatewaying to an  
17 LPD print system. It may be considerable time before the job is printed  
18 on the LPD print system.

19 One possibility is adding more job-state-reasons to indicate the status,  
20 such as 'completed-relaying'.

21 SMTP is a relaying protocol and has the concept of last hop with  
22 notification (RDN and MDN).

23 The IPP notification proposal being developed may also help and should  
24 take into account relaying scenarios.

25 5.7 How does an IPP server map phone numbers to a remote IPP server?  
26 It was pointed out that an IPP server that only makes a phone call, is  
27 not as useful or cost-effective as one that takes the long distance  
28 phone number and maps it to a remote IPP server that is just a local  
29 phone call away from the number. Then it uses the Internet to relay the  
30 job to another IPP Printer that in turn places the phone call.

31 There is some work on "rules-based" IP Service.  
32 We discuss whether the client should consult a directory service first,  
33 or should send the job to the IPP Printer that does whatever it wants to  
34 support the supplied phone number, including rejecting the job.

35 At the IETF43 meeting on Tuesday 17:00 - 18:00, there is a BOF, called  
36 TPC.INT, on E164 Resolution to IP Service which is dealing with this  
37 problem. There is also a Gateway location BOF, called IPTTEL, on  
38 Thursday, 15:30 - 17:30.

39 The above issues and others will be discussed at the IETF43 IPP meeting,  
40 Wednesday, December 9, 9:00 - 11:30.