ICQ Chat Session

Participants: gleclair ,Shimura ,Brian ,Jerry
Description:
Created On: Monday, July 31, 2000

<gleclair> This is the 1394 PWG Active list - It is running!
<gleclair> Is anyone else here yet?
<Brian> Hey, guys!
<Shimura> Good day
<gleclair> Hi all
<gleclair> We have some late arrivals that haven't tried to sign in yet......
<gleclair> We can get started and I'll work with them on the sidelines.
<gleclair> So
<gleclair> Agenda topics
<Brian> Hey, I'm just excited that it works...
<gleclair> Yeah, amazing stuff....;-)
<Shimura> I'm joining from Japan!
<gleclair> That is really cool. Other than the fact that it is very early for you.....
<gleclair> I guess it beats jet lag though!
<Brian> That was strange - my chat window just went away
<Brian> Brian moves eyebrows inward in puzzlement
<gleclair> ICQ docs say that if you go through an HTTPS firewall you may get disconnected
<gleclair> It's okay since I'm online via dialup and will post the minutes.
<gleclair> I'll see if you leave and can advise if you missed a point.
<Brian> To keep things as simple as possible, I'm at home connected through via wireless LAN and DSL. Maybe the wireless LAN...
<gleclair> That is also a possibility.....
<gleclair> I'm just on POTS
<Brian> The oldest technology is almost always the most reliable....
<Brian> It's like 100 degrees in my house, maybe my antenna is melting... ;-)
<gleclair> Okay
<gleclair> So back to agenda
<Brian> As far as the PWG goes, I have to admit that I've done nothing. I'm just reading my action items now.
<gleclair> I'm reading your action items too....;-)
<Brian> BTW, how do you turn on the logging feature?
<Brian> D'Oh, found it.
<gleclair> You needed to doanload the message archive plugin
<gleclair> I have it and have it on
<gleclair> <gleclair> You needed to doanload the message archive plugin
<gleclair> I have it and have it on
<Brian> Chuck is trying to join us, but is not accepted on the list.
<gleclair> He needs to request access to the list. I'm waiting to see the admin message......
<Brian> Hold on...
<gleclair> I just changed it to anyone can join
<gleclair> see if that helps
<Brian> Chuck is being told that "the rate limit is being exceeded.
<gleclair> ????
<gleclair> By ICQ or something else?
<Brian> He can't even cnnect to ICQo
<gleclair> My connectionThen the rate limit is maybe from the HP FW?
<Brian> He's gonna try to reboot.
<gleclair> Okay
<Brian> I think maybe it is the firewall, but a reboot is always worth a try.
<Shimura> Absolutely
<Brian> Looks like I had two action items:
<Brian> Brian Batchelder will issue an e-mail that proposes a "Scope and Purpose" for the Printing Profile.
<Brian> Brian Batchelder will write up the process for defining a service on 1394.3 and publish it prior to the next
<Brian> teleconference. teleconference.
<gleclair> Okay -
<Brian> I keep getting bumped off! Is there an error log I can check?

<gleclair> I think the scope & purpose are first step
<gleclair> error log - dunno
<gleclair> scope - we discussed at SF
<Brian> I agree.
<Brian> Yup. I think it is just a wordsmith job.
<gleclair> Scope: Provide a set of criteria for printing devices that will allow other devices to interoperate with them using the P1394.3 PPDT transport.
<Shimura> I think profile defines a set of services and it's identity
<gleclair> Criteria would include:
<gleclair> Config Rom
<gleclair> Services
<gleclair> Identity? - please elaborate Shimura-san
<Shimura> I means that how to identify if it is compliant with the profile
<gleclair> Okay
<Brian> Excellent point.
<gleclair> The mechanism could be a entry in Config ROM to identify as a compliant node
<gleclair> Also
<gleclair> Compliance would be an issue of specific responses to input conditions
<gleclair> Hi Jerry
<gleclair> Welcome
<Jerry> I finally got it working...
<gleclair> We're in the middle of discussing scope
<Brian> Our minutes also included:
<Brian> * Minimal common data format (MDF)
<Brian> * Transport stack compliance
<Brian> * Minimal common status service
<Brian> * Vendor unique pass-through services
<Brian> * "How to define a service"
<gleclair> Yes, these were things to cover
<gleclair> Another stab at it
<Shimura> I feel we need to discuss about services themselves before discussing "how to define a service"
<gleclair>
Provide a set of criteria for 1394 printing devices , including Config ROM and basic services, that will allow other devices to interoperate with them using the P1394.3 PPDT transport
Provide a set of criteria for 1394 printing devices , including Config ROM and basic services, that will allow other devices to interoperate with them using the P1394.3 PPDT transport
Provide a set of criteria for 1394 printing devices , including Config ROM and basic services, that will allow other devices to interoperate with them using the P1394.3 PPDT transport
Provide a set of criteria for 1394 printing devices , including Config ROM and basic services, that will allow other devices to interoperate with them using the P1394.3 PPDT transport
<gleclair> Sorry, multiple pastes
<gleclair> What are you comments on the services - Shimura-san
<Shimura> I missed your question. please reword
<gleclair> You mentioned we should discuss the services before "How to define...."
<Brian> We did disucss "how to define a service" at the last meeting.
<gleclair> Specifcally - do you mean what kinds of services or is there something else?
<gleclair> We have some ways of defining the service from the P1394.3 draft
<Shimura> I think "How to ..." dependdepends on the characteristic of service
<gleclair> Does the profile plan to extend that? We had discussed that in SF, too
<gleclair> What are characteristics that matter?
<Brian> Do you mean whether it is proprietary or standardized?
<Shimura> No. whether or not, we need to have some set of services in the profile, like job submission, status monitoring ...
<Brian> At the meeting in SFO, we decided to add a minimal data format and a minimal status capability.
<gleclair> Those seem to be the two basic services
<gleclair> Job submission and Status
<gleclair> So
<gleclair> Are we mixing terms here?
<gleclair> a job submission service allows a client to access the print device and submit a job.
<gleclair> Is the job submission service also used to transfer the data?
<Brian> I think I was assuming that.
<gleclair> Okay - just confirming
<Brian> I also assumed that job submission was REALLY simple.

<gleclair> agreed
<gleclair> However,
<Brian> Don was supposed to post a proposal, but I never saw it.
<Brian> Of course, I didn't do mine either...
<gleclair> if job submission 'service' is also used to transfer the data
<gleclair> is there a different job submission service for each data format a device supports (potentially more than one with different subvmisssion requirements)
<Shimura> I guess it should be common.
<gleclair> So is job submission a service? or just a set of operations on the 'print-data-type-X' service
<Brian> Common.
<Brian> Job submission is the service. The data format is just that: the format of the data, in this case, images.
<gleclair> If it's common, then the service definition should include the supported data formats and encodings
<Brian> Yes, and a mechanism for extending them.
<Brian> It's a lot like DPC or the AV/C Printer Subunit.
<gleclair> So, we have a basic job submission service, with a minimal data format and possibly others
<gleclair> ... other formats
<gleclair> repeat for Brian
<gleclair> So, we have a basic job submission service, with a minimal data format and possibly others
<gleclair> other formats
<Brian> Agree.
<Shimura> Do we have common job submission definition here?
<gleclair> Hasn't been define yet
<Brian> I guess so. It would be nice if we could just point to some simple standard. Does anyone know any?
<gleclair> UPnP guys were talking about IPPLite
<gleclair> Seems too heavy for this
<gleclair> If we have minimal raster format
<Brian> Agree.
<gleclair> The idea was that the client would send the bits and the printer would 'do the best it could'
<gleclair> the image format would contain 'hints' that the printer could use
<Brian> We might want a start of job and end of job.
<gleclair> size, res colorpsace, scale or crop
<gleclair> most basic, yes
<Brian> Some image formats don't contain hints, so I think we will need to communicate the minimum.
<gleclair> Review
<gleclair> Job submission
<Brian> Part of the job submission might also query some basic attributes of the printer.
<gleclair> Service that allows client to submit job to printer
<gleclair> discovered by reading ConfigROM?
<gleclair> Supported formats in ConfigROM (atleast any public advertised ones
<gleclair> What attributes do you want to provide in submission service?
<Brian> If the service describes the formats, that same service could be used on non-1394 transports.
<Jerry> Would this service also include "control" of some of the printer's attributes that may be found in
<Jerry> config rom. (ie paper size, type etc)?
<Brian> Like selecting from multiple input trays?
<Jerry> Basically a Job Control Language
<gleclair> If we're looking at real simple devices, then the client could get that info and try to control it
<Brian> Yes, a JCL, but super simple.
<gleclair> are we defining a basic control service as well.
<Brian> Isn't the control part of the job submission?
<gleclair> Or are we leaving that to a specific data format
<Brian> I think the data format just describes the bits.
<gleclair> Existing streams mix the bits and the control
<gleclair> A simple device may only support one size
<gleclair> 4x6 photo paper
<gleclair> the client may want to know the size
<gleclair> yet, there are no options
<Shimura> Who scale the image?
<gleclair> A more flexible device may have a multi-size tray
<Brian> I think the printer scales if it can.
<gleclair> scaling - in a moment
<gleclair> The client can receive min-max size of tray or list of paper sizes?
<gleclair> Which / or both should we support?

<Brian> I'm going to go away fo Oops. Ignore that if it came through
<gleclair> Also, should we include info that while client may select a size, it may require external synchronization (i.e. human)
<gleclair> to make sure correct paper is installed in printer device?
<Brian> The trick is to provide enough features to be valuable, without re-inventing IPP...
<Shimura> It sounds like job status.
<Jerry> My guess isFor very simple devices, that type of information is generally some type of pulldown in the driver window
<Jerry> however most use some sort of JCL (IE 1284.1 or PJL) to actually deliver the settings.
<gleclair> there may not be a driver window
<Brian> BTW, is anyone else getting disconnected?
<Jerry> So the basic settings are delivered via Config ROM??
<gleclair> basically, we're looking for two peer devices to find each other
<Brian> Config ROM is easy, but not portable to other physical links.
<gleclair> If they can work with the minimal format, then they 'know what to do'
<Jerry> And they the Client device makes a best guess control setting
<gleclair> If you want to support a legacy stream, then you can query to your hearts content
<gleclair> If the stream also allows setting, then you can control the device like current desktop OS
<gleclair> The idea with a minimal format was to enable the widest level of interop.
<gleclair> If a client sees the device has really tiny area - it must make a decision that
<gleclair> a : this is not useful - advise the user
<gleclair> b: scale or transform the data to work with what's there
<gleclair> So what are the basic operations for a job submission service
<Shimura> In your senarioIs querying device capablities a part of job submission?
<gleclair> Create a job (with these attributes)
<gleclair> Close Job()
<gleclair> Cancel Job()
<gleclair> I think the querying could be possible
<gleclair> I go back to a very simple format though
<gleclair> I think the devices may find each other and transfer the data gattributes that were read from ROM
<gleclair> sorry - trnasfer data based on attributes .....
<Jerry> Attributes which include???
<Shimura> You mean the way to transfer data depends on attributes?
<gleclair> Sorry - the actual content depends on the attributes
<gleclair> We need to discuss the behaviors of the minimal connection
<gleclair> Must both ends scale, crop , etc.
<gleclair> Or do weleave that to the client......;-)
<gleclair> my feeling is that at a minimum, the printing service must report what it has available.
<gleclair> This may be fixed without any options.
<gleclair> Shoudl we define that as something queried through the submission service or simple read from ROM?
<Jerry> Would this be delivered via Config Rom, or by a Status Query using PPDT?
<Jerry> Never mind
<gleclair> I think the minimal format can be in ROM
<gleclair> IMHO
<Jerry> So a printer would report Paper Size,Type, Duplex etc via ROM leaves??
<Shimura> I think minimal format information is not necessary in the ROM because device says that it is compliant with the profile somewhere.
<gleclair> I mean the device configuration
<gleclair> As Jerry said - paper size & type are two that come to mind
<Jerry> Also something about supported resolutions etc for image formats
<Shimura> So, you don't intend to define common image SIZE?
<gleclair> Resolution and size are interesting
<Jerry> Where'd Brian go???
<gleclair> There may be a variety of devices with different sizes and resolutions
<gleclair> Brian is trying to reconnect - or so I thought
<gleclair> Sources may have different sizes
<gleclair> That's why I feel we should push the scaling onto the client.
<gleclair> a printer will crop
<Shimura> Were there any discussion about image source in SF?
<gleclair> Just about a common format - there has also been discussion in Bluetooth SIG and UPnP community
<Jerry> I think Don was looking at trying to propose some common Raster image format to all
<gleclair> Yes
<gleclair> He was going to do that
<Jerry> He's not finished yet....

<gleclair> Publish an idea on some requirements
<gleclair> UPnP discussion is veering away from Raster as minimal format though.....
<Jerry> We are also discussing the Job Submission/Status etc as well in the BT group.
<Jerry> We'll probably end up solving the same problem twice....
<gleclair> Or once with a simpler approach
<Jerry> Hopefully
<Jerry> My thoughts is that in Config ROM (1394) and in SDP (BT) we can deliver basic make or break information
<Jerry> (ie I want to use this box or not)
<gleclair> I agree
<Jerry> and use some sort of very basic Job Submission Commands to set basic parameters
<gleclair> I think this is - does it have the service and capabilities I want
<gleclair> Set basic params
<gleclair> Is this a - select from what the device offered?
<gleclair> or
<Jerry> (ie number of copies, portriat/landscape etc) things that aren't part of the normal data stream
<gleclair> abstract set of attributes that may or may not match
<gleclair> So, one by one
<gleclair> copies - device can enumerate that it does max-copies (range 1..n)
<gleclair> Portrait - lanscape - Device supports rotation (0,90,180,270)
<Jerry> If duplex is available (use or not)
<Jerry> If duplex is available (binding direction)
<Jerry> Select paper type (if multiple)
<Jerry> Select paper size (if multiple)
<gleclair> others?
<Shimura> collation
<Jerry> I've got a list of about 10 or eleven diffenent actions that may come into play.
<gleclair> what are values for duplex - yes no
<gleclair> binding ?
<gleclair> Then let's itemize them all
<Jerry> Long edge of the paper or short
<gleclair> Collation is option on copies - correct?
<Shimura> Yes
<Jerry> I made a list for the BT group that I can post to the reflector tomorrow as a start.
<gleclair> okay
<gleclair> I've got to get going
<Jerry> Also don't forget to include "Printer Default" for all.
<Jerry> OKAY...
<gleclair> So I will post the summary and raw copy to the reflector by tomorrow
<Shimura> okay
<gleclair> Hopefully, we can get more done next time.
<Jerry> Signing off.
<gleclair> Thanks much guys
<gleclair> Bye
<Shimura> bye