



1394PWG Meeting Minutes
P1394.3 Working Group
7-8 February 2000

Hotel Monteleone
New Orleans, LA

Attendance:

Chair: Greg LeClair Epson
Secretary 1: Lee Farrell Canon
Secretary 2: Larry Stein Warp Nine Engineering
Editor: Peter Johansson Congruent Software

Don Wright Lexmark
Jerry Thrasher Lexmark
Brian Batchelder HP – Vancouver
Chuck Rice HP
Alan Berkema HP
Dave Kuntz HP
Akihiro Shimura Canon
Takashi Isoda Canon
Shigeru Ueda Canon
Osamu Hirata Canon
Fumio Nagasaka Epson
Kazuo Nomura Epson
Doug Fritz Microsoft
Mike Felon Microsoft
Vinnie Finn Kodak
Brian Nagy Kodak
Mitsuhisa Kanaya Ricoh

Agenda:

- 1- Introductions
- 2- Agenda Overview
- 3- Old Business
 - Review previous meeting minutes
 - PAR Review
 - SCAT Review
 - PPDT Review
- 4- New Business
 - Isoda-san has a presentation for the issue that Brian B. raised
Initiator service discovery limitation
 - Directory ID types for Private Unit Directories.
- 5- Meeting Close

Meeting was called to order at 8:30AM.

1- Administrivia

A- Introductions

B- April meeting in Tokyo

Nagasaka-san is setting up the April Tokyo meeting. The meeting will be NS building in Shinjaku. Nagasaka-san will recommend hotels in Shinjaku and Akasaka. The 1394PWG will not meet in Japan that week. The PWG will have their normal meetings.

C- Larry needs to send out the January 24 meeting minutes.

D- PAR update

The 1394.3 is now an official working group.

2- P1394.3 Working Group

Alan Berkema made a motion to elect Greg LeClair as chair of P1394.3. Seconded by Peter Johansson. Approved by unanimous vote.

Peter has modified the PPDF draft to reflect the IEEE document standards.

3- Old Business

A- SCAT Review

Class key (in device_ID string) agreed	Mike Fenelon
Completion Status done	Peter Johansson
Feature Directory agreed	Alan Berkema
Initiator Configuration ROM for reverse login agreed	Takashi Isoda
Reverse Logout – how&when? agreed	Brian Batchelder
Service registry reviewed	Brian Batchelder
Service ID directory – discovery agreed	Brian Batchelder
Discovery of PPDT Capable Initiator in Config ROM agreed	Peter Johansson
Abortive Shutdown API agreed/documented	Takashi Isoda
MFP ROM example closed	Peter Johansson

B- Review of draft PPDT_r10 Peter

Review of the PPDT_10 draft with the modifications from the previous meeting. Format changed to meet IEEE style guide. Only blue and red changes were reviewed. If possible Peter will add an “Initiator Unit Directory” example.

Review of draft 11 which is the first draft of the P1394.3 standard.

4- New Business

A- Support of Multiple Logical Devices in a Single Physical Node – Isoda-san

If an Initiator device can support multiple logical units through one function ID then how can the application connect to the correct service?

Propose adding a Scope_ID

Peter questioned whether this is in scope for the standard at this time. Should it be discussed now or left for ballot comments?

Peter made a motion to move this issue, [Multiple Logical Devices in a Single Physical Node](#), into the scope of the standard. Seconded by Lee Farrell. Discussion. If this issue is in scope then this needs to be resolved prior to going to ballot. This would create a SCAT issue. Vote 6 in favor, 7 opposed, 5 abstain. Motion failed. Issue needs $\frac{3}{4}$ affirmative in order to be added to the SCAT list.

While this issue is not considered in scope for this standard it may be discussed later in the meeting.

5- Back to old business

A- Class Information – Mike Fenelon

In the Device_ID there is a Class field. In 1284-1994 there is no definition for the Class key or what it should be used for.

Change: In section 8.8 change the ‘shall’ to ‘should’ in paragraph 2 and 3 relating to the Classinfo and Class keys.

B- Private Directory ID

Brian questioned the documentation for this in section 8.7.

[Brian made a motion to prohibit the use of a Directory ID entry in a Private Unit Directory](#). Seconded by Peter. Discussion.

Vote: Passed without objection.

4- Back to New Business again

A- Support of Multiple Logical Devices in a Single Physical Node – Isoda-san

If an Initiator device can support multiple logical units through one function ID then how can the application connect to the correct service?

PPDT (unit) precludes concurrent operation of other PPDT Unit on the same initiator mode.

The means that multiple logical devices (ppdt unit) that have the same well-known Service_ID (location identifier) cannot coexist at the same time in the Initiator node.

Isoda-san’s proposal is to add a Unit addressing to the initiator:

Initiator: physical_node/**UNIT**/Service_ID

Discussion.

Use different service names on the Initiator or allow this architecture for the target only?

Greg reviewed the previous discussions on the topic. In November 1998 (Tucson) this was discussed.

The discussion ended without any resolution to this topic.

B- Peter made a motion that the chair forward P1394.3 draft 1.1, subject to editorial modifications, to the IEEE for balloting. Seconded by Alan Berkema.

Discussion involved reviewing the draft.

Peter will the following modifications:

- Change the title to be “data transport” rather than “data transfer”.
- Write the Introduction section with some input
- Replace “Function” with a different word (Peer Unit?).
- Modify note under Figure 10
- Section 4.5, eliminate “...interrogation of available services.”
- Edit Note on 5.2
- Delete ctrl_function 4 and move up 5&6.
- 5.4 - need better description of the truncated queue structure
- Table 3, sec 8.1 – Instance Directory Mandatory status – Remove ‘Y’? Not sure. Should be reviewed later or in balloting.
- 8.2, Table 4. We don’t define the key value for the Service_ID entry. Rewrite the lower sentence to define this value as 80.
- 8.3 – Refer to “...8.5 or 8.6”

- 8.4 Keywords – Need something to specify that the keywords may be chosen from this list but there can be other keywords.
- Table 5 – Remove SBP-2 from this list?
- Annex C table – change ctrl_function numbers
- Figure F-7 – change 4 & 6 in table

No more discussion

Vote: 13 yes, 2 no, 2 abstentions.

Shimura-san feels that we should resolve the Multiple Logical Units for the Initiator prior to sending this draft to ballot.

This closes the business of P1394.3. Until the BRC there will not be any more meetings for the P1394.3.

For 1394PWG we will meet on Tuesday to discuss future plans for 1394PWG. The Tuesday meeting will start at 9:30AM.

Meeting adjourned at 4:50PM.

Day Two – 8 February 2000

Future plans for 1394PWG.

We've achieved two of the three things we set out to do by the original charter:

- 1- Service Discovery via IEEE 1212
- 2- Data Transport via IEEE 1394.3

We have not considered the issue of Common Data Format.
Another is the ability to transport "legacy" data.

Brian suggested that it may be helpful for us to define a common data exchange format for printing with 1394 appliances.

Larry suggested that we address 1284.4 over 1394. This would allow for a common API interface for parallel, USB and 1394. Doug Fritz pointed out that Microsoft intends to maintain a common API already and that this is not necessary for us to address.

Peter suggested that we may want to look closer at the peer to peer environment. Don brought up the use of 1394.3 as a way for MFP devices to communicate internally.

Alan pointed out that one of the issues with the current protocol for peer to peer is that the target device would have to know what device it wants to log into it. He suggested that DEP (Discovery Enumeration Protocol) might be the way to resolve this. DEP is a method to broadcast a list of services or keywords that it needs. The devices that contain those items respond. The DEP initializer can then interrogate the responding devices for details of these services.

UPNP for 1394??

Will the 1394PWG committee be having anymore meetings? Are we done?

Ideas discussed:

- Common format
- Device Profiles
- Profile for 1284.4
- Peer to Peer Solutions
- Device Enumeration Protocol
- SSDP/UPNP
- Jet Send

These items will be posted on the reflector. In the next 6 weeks we'll determine if there is a need to meet in New York in May.

Meeting adjourned until necessary. 10:45 AM

Thank you to everyone for their participation and efforts.

Respectfully submitted,
Larry Stein