# Minutes
## T11.3 FC-LS-4 ad hoc work group regular meeting
## 08 August 2017 – 1:30PM to 3:30PM EDT
## Providence, Rhode Island, USA

The FC-LS-4 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting at Providence, Rhode Island, USA on 08 August 2017, hosted by Hewlett Packard Enterprises. Attendance was 15 people from 9 organizations and is tabulated at the end of this document.

Minutes were taken by Patty Driever (IBM) (pgd@us.ibm.com). Please report any corrections by email to the T11.3 reflector at T11_3@mail.T11.org.

# 1 Opening Remarks

## Introductions

Chairperson Lou Ricci (Dell) opened the regular meeting on Tuesday 08 August 2017 at 09:37 AM EDT and led a round of introductions and thanked Hewlett Packard Enterprises for organizing this week's events.

# 2 Meeting Policy

## 2.1 Attendance and Membership

The chair explained that attendance is recorded electronically at www.incits.org, and explained the procedure. Attendance at this meeting does not count toward attendance at the plenaries of T11 and its task groups (i.e., being here will not get you out or keep you out of membership jeopardy).
The chair stated that all persons present are considered members of this meeting and may vote on questions, limited to one vote per company present. He advised that although T11 does not limit participation in the activities of its work groups to representatives of T11 member organizations, it requires nonmembers to identify themselves as such. Nonmembers that expect they may participate in the activities of T11 regularly were encouraged to become members.

### *2.2 Patents*

The chair indicated that among the rules and policies under which this working group operates are the ANSI intellectual property policies as specified in pages 1-3 of http://www.incits.org/pat_slides.pdf. He displayed these pages without comment or explanation, and directed that questions about the policy should be referred to the questioner's legal counsel or the ANSI General Counsel.

### *2.3 Antitrust*

The chair indicated that among the rules and policies under which this working group operates are the INCITS Antitrust Guidelines. Any member of the meeting is responsible for objecting if he believes discussion in the meeting violates those guidelines. As examples, there should never be discussion of the following topics at any INCITS or INCITS subgroup meeting:

- Any company's prices or pricing policies;
- Specific R&D, sales and marketing plans;
- Any company's confidential product, product development or production strategies;
- Whether certain suppliers or customers will be served;
- Prices paid to input sources; or
- Complaints about individual firms or other actions that might tend to hinder a competitor in any market.

If such discussion is not immediately terminated, it is the chairperson's responsibility to terminate the meeting. The INCITS Antitrust Guidelines are available at http://www.incits.org/inatrust.htm

## 3.0 Approval of Agenda

An agenda for the FC-LS-4 ad hoc work group regular meeting 08 August 2017 was posted as T11-2017-00239-v000.

*Howard Johnson (Brocade) moved and Mark Malcolm (Fujitsu) seconded to accept T11-2017-00239-v000 as the agenda for this regular meeting. Approved by acclamation.*

# 4.0 Past Business

## 4.1 Review of Minutes

*Howard Johnson (Brocade) moved and Mark Malcolm (Fujitsu) seconded to accept T11/2017-00177-v000 as the official minutes for the regular meeting on 06 June 2017. Approved by acclamation.*

## 4.2 Review of Old Action Items

**Action items carried forward from prior meetings:**

**1610-04**      Editor to incorporate 16-427v1 into FC-LS-4 **(CARRY)**
**1612-03**      Editor to incorporate 16-399v1 into FC-LS-4 **(CARRY)**
**1704-01**      Howard to identify text/rules for the size of the response to an RDP when the sender and receiver are not logged in with each other.   **(COMPLETE – see 6.2)**

**New action items from last meeting:**

None

# 5 Old Business

# 6 New Business

## 6.1 How Bad Is It? - (2017-00090-v002) Johnson/Mehta (Brocade)

This item is actually not quite ready so will be deferred to next meeting.

## 6.2 Login Revisited - (2017-00095-v001) Johnson (Brocade)/Hathorn (IBM)

There were a couple of conference calls to working through the text for how an N_Port should respond to an RDP if it is not logged in with the requesting N_Port.  Howard reviewed the current statements within the text and how they relate to the issue at hand.

When it comes to sending a multi-frame sequence in the 'not logged in' case, there is still some ambiguity related to how large these frames can be – suggested to #2 (the case where responding with a multi-frame sequence) add words 'using default login value for Receive Data_Field size". It was noted Howard should also change all instances of 'Data_Field size' to 'Receive Data_Field size'.

Howard then went over a couple more 'Gotchas'. Lou had sent out a note on the Reflector asking is anyone had an issue with changing the Default Login Value from 128 to 256. We got no responses and in at least one case a company that did inquire about this topic indicated support for 256. For Echo and RPBC similar changes are required (although Howard had them inaccurately recorded as 'Buffer-to-Buffer' Receive Data_Field which applies to F_Ports...should simply read 'Receive Data_Field'.

An RPSC Gotcha: It's sent between two N_Ports (including F_Port Controller). But it cannot be sent to the Domain Controller asking about another port (that was removed because it was incomprehensible). So now the statement that 'If the port is currently not in an active state, bit 0 shall also be set to one" cannot happen with this command because the command can't be sent to an inactive port (although it does make sense for RDP). However it was pointed out that this statement is not technically incorrect either (although it will never be set). It was agreed to place a footnote on the table to explain this. "Note: Bit 0 is applicable only if the Port Speed Capabilities are reported in response to an RDP ELS." Or "Note: As a result of RPSC only being sent to ports in the active state, bit 0 does not apply to RPS responses." Or "Bit 0 is applicable only if the Port State Capabilities are reported if the port state is inactive (e.g. in response to an RDP ELS)." Ultimately this 20 minute discussion resulted in a decision being reached to just 'leave it alone' for now.

A proposed RDP text was also needed to reflect the earlier wording agreed to about 'Receive Data_Field size', so Howard covered that as well.

A few other places were noted where the above change of the default Receive Data_Field size to 256 was also applicable.

Howard moved to incorporate this as modified. Seconded by Roger Hathorn (IBM). Motion passed unanimously.

# 7 Unscheduled Business

None

# 8 Project Schedule

| Milestone | Expected Date |
|---|---|
| Last technical input | August 2018 |
| T11 Letter Ballot | December 2018 |
| Forward to INCITS | June 2019 |

## 9   Review of Action Items

**Action items carried from prior meetings:**

**1610-04**        Editor to incorporate 16-427v1 into FC-LS-4
**1612-03**        Editor to incorporate 16-399v1 into FC-LS-4


**New action items:**

**1708-01**        Editor to incorporate 2017-00095-v002 into FC-LS-4
**1708-02**        Howard to post updated 2017-00095-v002


# 10 Meeting Schedule

Request 2 hours at the T11 plenary week in Couer d'Alene, ID, 02-06 October 2017.

# 11 Attendance Check and Adjournment

*Howard Johnson (Brocade) moved and Mark Malcolm (Fujitsu) seconded to adjourn.*
*Approved by acclamation.*

The regular meeting was adjourned at 10:46 AM EDT on 08 August 2017.

**Organization**                **Representative**        **Member Company**


| Organization | Representative | | Member Company |
|---|---|---|---|
| BROADCOM | David Baldwin | | Y |
| BROADCOM | James Smart | | Y |
| BROCADE | Howard Johnson | | Y |
| BROCADE | David Peterson | | Y |
| BROCADE | Steven L Wilson | | Y |
| CISCO SYSTEMS INC | Mike Blair | | Y |
| DELL INC | Lou Ricci | | Y |

| | | |
|---|---|---|
| DELL INC | Erik Smith | Y |
| DELL INC | Alan Rajapa | Y |
| FUJITSU AMERICA INC | Mark Malcolm | Y |
| HEWLETT PACKARD ENTERPRISE | Barry Maskas | Y |
| IBM | Patty Driever | Y |
| IBM | Roger Hathorn | Y |
| NETAPP | Frederick Knight | Y |
| VIAVI SOLUTIONS | Jason Rusch | Y |