

T11.3 FC-LS-4 Ad Hoc Working Group Regular Meeting Minutes

14 August 2019 – 9:00 AM to 12:00 MT

Santa Fe, NM, USA

The FC-LS-4 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting at Santa Fe, NM, USA on 14 August 2019, hosted by Marvell. Attendance was 12 people from 8 organizations and is tabulated at the end of this document.

Minutes were taken by Jason Rusch (Viavi Solutions) (jason.rusch@viavisolutions.com). Please report any corrections by email to the T11.3 reflector at T11_3@mail.T11.org.

1 Opening Remarks and Introductions

Chairperson Patty Driever (IBM) opened the regular meeting on Wednesday, 14 August 2019 at 9:00 AM MT. She led a round of introductions and thanked our host organization, Marvell.

1.1 Attendance and Membership

The chair explained that attendance is recorded electronically at <http://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. She 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.

1.2 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 slides 1-3 of http://www.incits.org/patent_slides.pdf. She 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.

1.3 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 she 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/standards-information/legal-info>.

2.0 Approval of Agenda

An agenda for the FC-LS-4 ad hoc work group regular meeting 14 August 2019 was posted as T11-2019-00238-v001.

Howard Johnson (Broadcom Inc) moved and Roger Hathorn (IBM) seconded to accept T11-2019-00238-v001 as the agenda for this regular meeting. Approved by acclamation.

3.0 Review of Past Business

3.1 Review of Minutes

Minutes for the FC-LS-4 ad hoc work group regular meeting 5 June 2019 have been posted as T11-2019-000184-v000.

Howard Johnson (Broadcom Inc) moved and Mike Blair (Cisco) seconded to accept T11-2019-00184-v000 as the official minutes for the regular meeting on 5 June 2019. Approved by acclamation.

3.2 Review of Old Action Items

Action items carried forward from prior meetings:
None.

New action items from the previous meeting:

1906-01	Mike Blair (Cisco) to post T11-2019-00150-v001.	[COMPLETE]
1906-02	Patty Driever (IBM) to post T11-2019-00177-v001.	[COMPLETE]
1906-03	FC-LS-4 Chair to schedule interim conference call.	[COMPLETE]

4 Old Business

4.1 FC-LS-4: RFC Comment Resolution

[T11-2019-00078-v005, T11-2019-00079-v005] Carlson (Marvell)

The FC-LS-4 editor concluded RFC comment resolution of technical and editorial comments.

Craig Carlson (Marvell) moved and Dave Peterson (Broadcom Inc) seconded to accept T11-2019-00078-v006 and T11-2019-00079-v006 as the RFC Ballot Comment Resolution for FC-LS-4 and forward FC-LS-4 version 4.05 (T11-2019-00213-v001) to T13 for further processing. Motion passed 8-0-0.

4.2 FC-LS-5: Fabric Notification – Is There Anybody Out There?

[T11-2019-00017-v001] Johnson (Broadcom Inc)

Howard summarized the changes made based on discussion and feedback from the previous meeting. The group provided additional feedback on the text describing how Link Integrity events detected by various port types are distributed. The group agreed upon text for F_Port and N_Port, but additional modifications are needed for E_Ports. Howard will continue work on this text for the next meeting cycle.

With the remaining time, Howard led a review and discussion on the proposed text. Time did permit to complete the review. A conference call will be held on 17 September 2019 at 2:00 PM ET to continue this discussion.

4.3 FC-LS-5: Wrapped or Unwrapped?

[T11-2019-00098-v000] Driever (IBM)

Patty led a discussion to clarify how the counter reset token is set and used. It was suggested that this field indicates that one or more of the counters have been reset, not that all of the counters have been reset. It was further suggested that a value of zero be reserved for this field.

Time did not permit to complete this presentation. A conference call will be held on 17 September 2019 at 2:00 PM ET to continue this discussion.

5 New Business

5.1 FC-LS-5: Adding Determinism to Congestion Notification

[T11-2019-00242-v000] Blair (Cisco)

Time did not permit for this presentation. A conference call will be held on 17 September 2019 at 2:00 PM ET to introduce this proposal.

6 Unscheduled Business

None.

7 Project Schedule

Milestone	Expected Date
Last technical input	August 2018
RFC Ballot	December 2018
T11 Letter Ballot	August 2019
Forward to INCITS	October 2019

8 Review of Action Items

Action items carried forward from prior meetings:

None.

New action items from this meeting:

- 1908-01** FC-LS-4 Chair to request that T11.3 accept T11-2019-00078-v006 and T11-2019-0079-v006 as the RFC Ballot Comment Resolution for FC-LS-4 and forward FC-LS-4 version 4.05 (T11-2019-00213-v001) to T11 for further processing.
- 1908-02** FC-LS-4 Chair to schedule interim conference call (60 minutes) on 17 September 2019, 2:00 ET.

9 Future Meeting Schedule

9.1 Interim Conference Call

Request one interim conference call (60 minutes) on 17 September 2019 at 2:00 ET to continue RFC Comment Resolutions.

9.2 Next Plenary Week

Request 4 hours for FC-LS-4 at the T11 plenary week in Coeur d'Alene, ID, October 7-10, 2019.

10 Adjournment

Howard Johnson (Broadcom Inc) moved and Alan Rajapa (Dell) seconded to adjourn. Approved by acclamation.

The regular meeting was adjourned at 12:00 PM MT on 14 August 2019.

11 Attendance

Organization	Representative	Member Company
Broadcom Inc	David Baldwin	Member
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Cisco Systems Inc	Mike Blair	Member
Cisco Systems Inc	J Metz	Member
Dell Inc	Alan Rajapa	Member
Fujitsu America Inc	Mark Malcolm	Member
IBM Corporation	Patty Driever	Group Chair
IBM Corporation	Roger Hathorn	Member
Marvell Semiconductor Inc	Craig Carlson	Member
NetApp Inc	Frederick Knight	Member
Viavi Solutions Inc	Jason Rusch	Secretary