

T11.3 FC-LS-5 Ad Hoc Working Group Interim Conference Call Minutes

17 September 2019 – 2:00 PM to 3:00 PM ET

The FC-LS-5 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held an interim conference call on 17 September 2019. Attendance was 11 people from 7 organizations and is tabulated at the end of this document.

Minutes were taken by Jason Rusch (Viavi Solutions) (jason.rusch@viavisolutions.com). Corrections may be requested either before the subsequent meeting by email to <mailto:jason.rusch@viavisolutions.com> or in-person at the subsequent meeting.

1 Opening Remarks and Introductions

Chairperson Patty Driever (IBM) opened the interim conference call on Tuesday, 17 September 2019 at 2:00 PM ET. She led a round of introductions of those on the call.

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-5 ad hoc work group interim conference call 17 September 2019 was posted as T11-2019-00272-v000.

Mike Blair (Cisco) moved and Roger Hathorn (IBM) seconded to accept T11-2019-00272-v000 as the agenda for this interim conference call. Approved by acclamation.

Craig Carlson suggested that the agenda be modified to move Mike Blair's presentation to old business. It was further suggested by Howard Johnson to move the presentation higher earlier in the agenda to insure he received time in the conference call.

Mike Blair (Cisco) moved and Roger Hathorn (IBM) seconded to accept T11-2019-00272-v000 as modified as the agenda for this interim conference call. Approved by acclamation.

3.0 Review of Past Business

3.1 Review of Minutes

Minutes for the FC-LS-5 ad hoc work group regular meeting 14 August 2019 have been posted as T11-2019-000255-v000.

They will be voted on at the next regular ad hoc working group meeting scheduled for 10 October 2019.

3.2 Review of Old Action Items

Action items carried forward from prior meetings:

None.

New action items from the previous 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.

These action items will be reviewed at the next regular ad hoc working group meeting on 10 October 2019, but this interim conference call was held in response to action item 1908-02.

4 Old Business

4.1 FC-LS-5: Wrapped or Unwrapped?

[T11-2019-00098-v001] Driever (IBM)

Patty continued the discussion on how the counter reset token is set and used. A discussion about how a unique or different value can be specified. Options included a pseudo-random value (e.g. milliseconds to the next second) or simply defining it as a different arbitrary value (e.g. random or pseudo-random number). Howard Johnson suggested a new descriptor be created, which can then be included or not included. Patty will update the wording for the token for the next meeting cycle and bring in text for a new descriptor. The discussion will continue at the next regular meeting.

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

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

Mike introduced the presentation to raise concerns with passive FPIN listeners during SAN congestion. He questioned whether more information could be specified via additional optional descriptors, or if other options exist to better notify passive devices regarding the current congestion.

Time did not permit to complete the discussion during the interim conference call. The discussion will continue at the next regular meeting.

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

[T11-2019-00017-v003, T11-2019-00214-v001] Johnson (Broadcom Inc)

Time did not permit for this presentation.

5 New Business

None.

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

New action items from this meeting:

None.

Action items carried forward from prior meetings:

Review of previous action items will occur at the next regular ad hoc working group meeting on 10 October 2019.

9 Future Meeting Schedule

9.1 Next Plenary Week

Next regular ad hoc working group meeting will be 10 October 2019 in Coeur d'Alene, ID.

10 Adjournment

Howard Johnson (Broadcom Inc) moved and Mike Blair (Cisco) seconded to adjourn. Approved by acclamation.

The interim conference call was adjourned at 3:00 PM ET on 17 September 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
Hewlett Packard Enterprise	Barry Maskas	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