

T11.3 FC-LS-5 Ad Hoc Working Group Regular Meeting Minutes

11 August 2020 – 11:00 AM to 1:20 PM CDT

Virtual Meeting

The FC-LS-5 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a virtual meeting on 11 August 2020, with Zoom meetings hosted by Marvel. Attendance was 15 people from 9 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 virtual meeting on Wednesday, 11 August 2020 at 11:00 AM CDT. She led a round of introductions and thanked our virtual host organization, Marvel.

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 regular meeting 11 August 2020 was posted as T11-2020-00175-v000.

Howard Johnson (Broadcom Inc) moved and Mike Blair (Cisco) seconded to accept T11-2020-00175-v000 as modified 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-5 ad hoc work group regular meeting 3 June 2020 have been posted as T11-2020-00133-v000.

Dave Peterson (Broadcom Inc) moved and Mike Blair (Cisco) seconded to accept T11-2020-00133-v000 as the official minutes for the regular meeting on 3 June 2020. 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:

2006-01 Editor to incorporate T11-2020-00085-v000. [Carry]

4 Old Business

4.1 Fabric Notification – Is There Anybody Out There?

[T11-2020-00013-v004, 014-v004, 0109-v001] Johnson (Broadcom Inc)

Howard led a discussion reviewing the changes to the proposed text from the previous meeting. The changes for the RDF ELS were presented in T11-2020-00109-v001, and included adding a footnote to table 9, modifications to the LS_ACC payload, and correcting a typo in the usage of Fabric Controller versus F_Port controller.

Howard Johnson (Broadcom Inc) moved and Mark Malcolm (Fujitsu) seconded to incorporate T11-2020-00109-v001 as modified into FC-LS-5. Motion passed by acclamation.

Howard then reviewed the changes for the FPIN ELS in T11-2020-00013-v004. He reviewed the changes and suggestions from the previous meeting, including editorial updates, updates to the descriptors for Link Integrity Notification, Delivery Notification, and Peer Congestion Notification.

Howard Johnson (Broadcom Inc) moved and Roger Hathorn (IBM) seconded to incorporate T11-2020-00013-v004 into FC-LS-5. Motion passed by acclamation.

Howard will create an informative annex for formal descriptions of congestion event types and present it at a future meeting.

4.2 FC LAG Control Plane

[T11-2020-00169-v000]

Bharadwaj (Cisco)

Harsha continued the discussion from prior meetings on the FC-LAG control pane proposal. He provided a quick summary of the precious discussion and then highlighted the three stages of FC-LAG creation and described each stage in detail. He also discussed the proposed ELS and descriptors required to support FC-LAG.

The discussion will continue at a future meeting.

4.3 Fabric Controller and FLOGI

[T11-2020-00126-v002]

Peterson (Broadcom Inc)

Dave led a discussion involving which ELS codes in table 9 should require footnotes. Dave will review comments related to Read Link Error Status Block and RRQ and provide an update at the next meeting cycle.

5 New Business

None.

6 Unscheduled Business

None.

7 Project Schedule

Milestone	Expected Date
Last technical input	October 2020
RFC Ballot	TBD
T11 Letter Ballot	TBD
Forward to INCITS	TBD

8 Review of Action Items

Action items carried forward from prior meetings:

2006-01 Editor to incorporate T11-2020-00085-v000.

New action items from this meeting:

2008-01 Editor to incorporate T11-2020-00013-v004.

2008-02 Editor to incorporate T11-2020-00109-v003.

9 Future Meeting Schedule

9.1 Interim Conference Call

None.

9.2 Next Plenary Week

Request 3 hours for FC-LS-5 at the Virtual T11 plenary week October 5-9, 2020.

10 Adjournment

Dave Peterson (Broadcom Inc) moved and Roger Hathorn (IBM) seconded to adjourn. Approved by acclamation.

The regular meeting was adjourned at 1:20 PM CDT on 11 August 2020.

11 Attendance

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Broadcom Inc	James Smart	Member
Broadcom Inc	Steven Wilson	Member
Cisco Systems Inc	Mark Allen	Member
Cisco Systems Inc	Harsha Bharadwaj	Member
Cisco Systems Inc	Mike Blair	Member
Dell Inc	Vinay Sawal	Member
Fujitsu America Inc	Mark Malcolm	Member
Hewlett Packard Enterprise	Barry Maskas	Member
IBM Corporation	Patty Driever	Group Chair
IBM Corporation	Roger Hathorn	Member
Marvell Semiconductor Inc	Craig Carlson	Proj Editor
NetApp Inc	Frederick Knight	Member
Viavi Solutions Inc	Jason Rusch	Secretary