

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

6 April 2021 – 11:05 AM to 12:40 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 6 April 2021, with Zoom meetings hosted by Marvell. Attendance was 12 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). Please report any corrections by email to the T11.3 reflector at T11_3@mail.T11.org.

1 Opening Remarks and Introductions

David Peterson (Broadcom Inc) served as chairperson and opened the virtual meeting on Tuesday, 6 April 2021 at 11:05 AM CDT. The chair led a round of introductions and thanked our virtual 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. The chair 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 INCITS Code of Conduct

The chair displayed the INCITS Code of Conduct policy:
https://standards.incits.org/apps/group_public/download.php/124850/INCITS-CodeOfConduct.pdf.

1.3 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. The chair 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.

1.4 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 they believe 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 6 April 2021 was posted as T11-2021-00083-v000.

Howard Johnson (Broadcom Inc) moved and Barry Maskas (HPE) seconded to accept T11-2021-00083-v000 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 2 February 2021 have been posted as T11-2021-00054-v000.

Howard Johnson (Broadcom Inc) moved and Barry Maskas (HPE) seconded to accept T11-2021-00054-v000 as the official minutes for the regular meeting on 2 February 2021. 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:

2102-01 FC-LS-5 working group members to review how current implementations are using the Sequential Delivery bit (see section 6.6.5.4.2), and whether it can be obsoleted.
[Completed]

4 Old Business

4.1 Fabric Controller and FLOGI

[T11-2020-00126-v005, T11-2020-00266-v000]

Peterson (Broadcom Inc)

This presentation was delayed one more meeting cycle to allow additional time for the group to review.

4.2 Fabric Notifications – Just One More Thing

[T11-2021-00011-v001, T11-2021-00012-v001]

Johnson (Broadcom Inc)

Howard summarized the changes made based on the February meeting discussion, and then provided an overview of the text in detail. He clarified the text identifying what a credit-stalled condition is and the reason for the occurrence (stopped credits versus slowed credits). He also provided a review of the

new text providing “real world” examples of credit stall. He received feedback from the group and will incorporate the new comments into the next revision of the presentation.

The group will review the changes from this discussion and Howard will wrap up the proposal at the next meeting cycle.

4.3 Target Credit Stall: Tying Things Up

[T11-2021-00013-v001, T11-2021-00015-v001]

Johnson (Broadcom Inc)

Howard summarized the changes made based on the February meeting discussion. There was a brief discussion on the new content, and some minor text changes were made based on group feedback.

Howard Johnson (Broadcom Inc) moved and Roger Hathorn (IBM) seconded to incorporate T11-2021-00015-v001 as modified into FC-LS-5. Motion passed by acclimation.

4.4 Sequential Delivery and FC

[T11-2021-00039-v001]

Peterson (Broadcom Inc)

This presentation was deferred to 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	August 2021
T11 Letter Ballot	TBD
Forward to INCITS	TBD

8 Review of Action Items

Action items carried forward from prior meetings:

None.

New action items from this meeting:

2104-01 FC-LS-5 Editor to incorporate T11-2021-00015-v001 as modified into FC-LS-5.

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 June 7-11, 2021.

10 Adjournment

Howard Johnson (Broadcom Inc) moved and Barry Maskas (HPE) seconded to adjourn. Approved by acclamation.

The regular meeting was adjourned at 12:40 PM CDT on 6 April 2021.

11 Attendance

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Broadcom Inc	James Smart	Member
Broadcom Inc	Anil Veerabhadrapa	Member
Cisco Systems Inc	Harsha Bharadwaj	Member
Cisco Systems Inc	Mike Blair	Member
Cisco Systems Inc	Edward Mazurek	Member
Hewlett Packard Enterprise	Barry Maskas	Member
IBM Corporation	Roger Hathorn	Member
Marvell Semiconductor Inc	Craig Carlson	Proj Editor
NetApp Inc	Frederick Knight	Member
Viavi Solutions Inc	Jason Rusch	Secretary