

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

5 April 2022 – 9:00 AM to 11:00 AM CDT

Hybrid Meeting

The FC-LS-5 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a hybrid meeting in New Orleans, LA on 5 April 2022, hosted by Broadcom Inc, with Zoom meetings provided 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

FC-LS-5 group chair Patty Driever (IBM) opened the hybrid meeting on Tuesday, 5 April 2022 at 9:00 AM CDT. The chair led a round of introductions and thanked our host organization, Broadcom Inc, and Marvell for hosting the Zoom meetings.

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 5 April 2022 was posted as T11-2022-00127-v000.

Howard Johnson (Broadcom Inc) moved and Roger Hathorn (IBM) seconded to accept T11-2022-00127-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 8 February 2022 have been posted as T11-2022-00063-v001.

Dave Peterson (Broadcom Inc) moved and Mike Blair (Cisco) seconded to accept T11-2022-00063-v001 as the official minutes for the regular meeting on 8 February 2022. Approved by acclamation.

3.2 Review of Old Action Items

All action items were completed in T11-2022-00092-v000.

Action items carried forward from prior meetings:

- 2104-01** FC-LS-5 Editor to incorporate T11-2021-00015-v002 (Target Credit Stall: Tying Things Up) into FC-LS-5.
- 2106-01** FC-LS-5 Editor to review T11-2021-00121-v000 (Fabric Notification – Editorial comments) and incorporate as appropriate.
- 2106-02** FC-LS-5 Editor to incorporate T11-2021-00012-v003 (Informative Annex A) into FC-LS-5.
- 2112-01** FC-LS-5 Editor to incorporate T11-2021-00125-v004 (Just One More Thing) into FC-LS-5.
- 2112-02** FC-LS-5 Editor to incorporate T11-2021-00135-v006 (Sequential Delivery) into FC-LS-5.

New action items from the previous meeting:

- 2202-01** FC-LS-5 Editor to incorporate T11-2022-00031-v002 (Knock Three Times) into FC-LS-5.

4 Old Business

4.1 Text Proposal for Adding ULP Name Registration/Query to Support NVMe NQNs in FC

[T11-2022-00028-v002]

Bharadwaj (Cisco)

Harsha provided answer to questions from the previous meeting, and the group discussed the resulting changes. A discussion regarding the use of FC-4 or Upper Layer Protocol occurred, with ULP being the consensus. Discussion continued as to whether the content belongs in the Name Server (as written) or in the Management Server. The discussion will continue at the next meeting cycle, at which point a vote for incorporation may be made.

4.2 Fabric Notifications - There's Always Just One More Thing

[T11-2022-00117-v001]

Johnson (Broadcom Inc)

Howard introduced the text proposal, and the group spent the allotted time rewording some of the text. Time did not permit to complete the review and the discussion will continue at the next meeting.

4.3 Fabric Notifications - PNL Technical Comments

[T11-2022-00120-v000]

Johnson (Broadcom Inc)

This content was provided during the 4.2 agenda item.

4.4 Platform Name Login Extension

[T11-2022-00196-v002]

Peterson (Broadcom Inc)

This proposal is included in agenda items 4.2 and 4.3 and will be removed from future agendas.

5 New Business

5.1 Port Notifications - There "Is" Somebody Out There!

[T11-2022-00116-v000]

Johnson (Broadcom Inc)

Time did not permit for this presentation.

6 Unscheduled Business

None.

7 Project Schedule

No changes.

Milestone	Expected Date
Last Technical Input	October 2020
RFC Ballot	August 2022
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:

None.

9 Future Meeting Schedule

9.1 Interim Conference Call

None.

9.2 Next Plenary Week

Request 3 hours for FC-LS-5 at the Hybrid T11 plenary week hosted in Duluth, MN June 13-16, 2022.

10 Adjournment

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

The regular meeting was adjourned at 11:00 AM CDT on 5 April 2022.

11 Attendance

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Broadcom Inc	James Smart	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	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