

Fibre Channel Interconnection Schemes
FC-LS-5 Ad Hoc Working Group Regular Meeting Minutes
15 June 2022 – 10:10 AM to 11:50 AM CDT
Hybrid Meeting

The FC-LS-5 ad hoc work group of the Fibre Channel Interconnection Schemes Task Group held a hybrid meeting in Duluth, MN on 15 June 2022, hosted by Marvell, with Zoom meetings provided by Marvell. Attendance was 10 people from 6 organizations and is tabulated at the end of this document.

Minutes were taken by [Jason Rusch](#) (Viavi Solutions). Please report any corrections by email to the Fibre Channel Interconnection Schemes reflector at fc_protocol@standards.incits.org.

1 Opening Remarks and Introductions

FC-LS-5 group chair Patty Driever (IBM) opened the hybrid meeting on Wednesday, 15 June 2022 at 10:10 AM CDT. The chair led a round of introductions and thanked our host organization, Marvell, 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 15 June 2022 was posted as T11-2022-00197-v000.

Roger Hathorn (IBM) moved and Howard Johnson (Broadcom Inc) seconded to accept T11-2022-00197-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 5 April 2022 have been posted as T11-2022-00142-v001.

Howard Johnson (Broadcom Inc) moved and Roger Hathorn (IBM) seconded to accept T11-2022-00142-v001 as the official minutes for the regular meeting on 5 April 2022. 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:

None.

4 Old Business

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

[T11-2022-00028-v004]

Bharadwaj (Cisco)

This proposal has been deferred to the next meeting cycle.

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

[T11-2022-00117-v001]

Johnson (Broadcom Inc)

Howard reviewed the new text based on the previous meeting discussions. The group provided additional feedback the text proposal and Howard will revise for inclusion at the next meeting cycle.

4.3 Fabric Notifications - PNL Technical Comments**[T11-2022-00120-v002]****Johnson (Broadcom Inc)**

This content was provided during the 4.2 agenda item.

5 New Business**5.1 Port Notifications - There "Is" Somebody Out There!****[T11-2022-00116-v000]****Johnson (Broadcom Inc)**

Howard gave an overview of the presentation and introduced the concept of using Fabric Notifications to handle port decommission/recommission. This process is currently handled manually by the system administrator and can be error prone. The group discussed the advantages of this method versus using RSCN. The technical structure of the ELS commands was provided. Discussions with additional content will resume at the next meeting cycle.

This presentation will be considered for FC-LS-6.

6 Unscheduled Business

None.

7 Project Schedule

No changes.

Milestone	Expected Date
Last Technical Input	October 2020
RFC Ballot	October 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 2 hours for FC-LS-5 at the Hybrid T11 plenary week hosted in Chicago, IL August 9-12, 2022.

10 Adjournment

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

The regular meeting was adjourned at 11:50 AM CDT on 15 June 2022.

11 Attendance

Attendance was 10 people from 6 organizations, with 8 members attending in-person.

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Cisco Systems Inc	Harsha Bharadwaj	Member
Cisco Systems Inc	Mike Blair	Member
Cisco Systems Inc	Edward Mazurek	Member
Dell Inc	David Brown	Member
IBM Corporation	Patty Driever	Group Chair
IBM Corporation	Roger Hathorn	Member
NetApp Inc	Frederick Knight	Member
Viavi Solutions Inc	Jason Rusch	Secretary