Minutes
T11.3 FC-FS-6 ad hoc work group regular meeting
18 August 2021 – 03:00PM – 05:00PM MDT
Santa Fe, NM (Hybrid)

The FC-FS-6 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting in Santa Fe, NM hosted by Broadcom along with virtual conferencing facilities using the Zoom platform provided by Marvell on 18 August 2021. Attendance was 12 people from 7 organizations and is tabulated at the end of this document.

Minutes were taken by Patty Driever (IBM) (pgd@us.ibm.com). Corrections may be requested either before the subsequent meeting by email to pgd@us.ibm.com or at the subsequent meeting in person.

1 Opening remarks & Introductions

Chairperson Dave Peterson (Broadcom) opened the regular meeting Wednesday, 18 August 2021 at 02:28 PM MDT. He thanked our in-person host organization, Broadcom, along with Marvell for setting up the Zoom meeting, and led a round of introductions.

1.1 Attendance and Membership

The chair explained that attendance is recorded electronically at 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. He 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 Code of Conduct

The chair referenced the INCITS Code of Conduct and suggested everyone become familiar with its content. It can be found on the INCITS website at the following link:
https://standards.incits.org/apps/group_public/document.php?document_id=124850&wg_abbrev=eb

It will be reviewed at the plenary meetings and in all Ad Hoc meetings as well.

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 pages 1-3 of http://www.incits.org/pat_slides.pdf. He 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 he 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/inatrust.htm.

2 Approval of Agenda

An agenda for the FC-FS-6 ad hoc work group regular meeting 18 August 2021 has been posted as T11-2021-00193-v000.

Roger Hathorn (IBM) moved and Howard Johnson (Broadcom) seconded to accept T11-2021-00193-v000 as modified as the agenda for this regular meeting. Approved unanimously.

3 Review of Past Business

3.1 Review of Minutes

Minutes for the FC-FS-6 ad hoc work group regular meeting 07 June 2021 have been posted as T11/2021-00155-v000.

Howard Johnson (Broadcom) moved and Roger Hathorn (IBM) seconded to accept T11/2021-00155-v000 as the minutes of the FC-FS-6 ad hoc work group meeting on 07 June 2021. Approved unanimously.

3.2 Review of Old Action Items

Action Items Carried Forward:

None

New Action Items Identified Last Meeting:

2106-01   Everyone to review Raul's proposal (T11-2021-00126-v000) on training signal clarifications for further discussion next time. **CLOSED** - OVERTAKEN by EVENTS

4 Old Business

4.1 Required Changes to FC-SP-2 (No document) Carlson (Marvell)

Craig discussed the need for changes to FC-SP-2 that could take the form of either a new FC-SP-3 project or an AM2 amendment. It was decided to pursue an amendment. Craig will work on crafting a proposal for this.

4.2 Sequential Delivery and FC (2021-00039-v002) Peterson (Broadcom)

This item was deferred for this session and listed for reference only.
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4.3 In/Out of Order Cleanup (2021-00131-v001) Peterson (Broadcom)

This doc is to clean up verbage relative to in and out of order delivery in FS-6. Some amount of rewording was indeed done. Dave will bring it back next time.

4.4 BLSs – Mandatory or Optional (2021-00132-v000) Peterson (Broadcom)

Dave presented a solution to a comment raised in the FCP-5 comment resolution process. He proposed we add a column for Mandatory/Optional in the appropriate table. Dave made a motion we approve T11-2021-00132-v000 for incorporation into FC-FS-6. Seconded by Roger Hathorn (IBM). Motion passed unanimously.

4.5 Platform Name (2021-00196-v000/2021-00133-v000) Peterson (Broadcom)

(2021-00133-v000): Dave discussed confusion around the NAA structure and the Name Value field. We looked at what T10 did in describing this, and Dave will propose changes to T11 FC-FS-6 based on what T10 did (because this group agreed it added clarity).
(2021-00196-v000): Dave showed proposed text changes for FS-6 relative to Howard's proposal shown in FC-LS-5. No objections were present, but we'll wait for the LS-5 proposal to proceed further.

5.0 New Business

5.1 FC-NVMe-3 Project Proposal (2021-00188-v001)

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Dave presented a new project proposal for FC-NVMe-3. Dave made one modification at the request of the group. Dave moved, and Craig Carlson (Marvell) seconded, that the FC-NVMe-3 project proposal as documented in T11-2021-00188-v001 as modified be forwarded to T11.3 for further processing. Motion carried unanimously.

6 Unscheduled Business

6.1

7 Project Schedule

Milestone	Expected Date
Last technical input	October 2021
RFC Ballot	February 2022
T11 Letter Ballot	TBD
Forward to INCITS	TBD

8 Review of Action Items

Action Items Carried Forward:

None

New Action Items:

2108-01   Chair to request T11.3 accept the FC-NVMe-3 project proposal as documented in T11-2021-00188-v002 and forwarded for further processing.

2108-02   Craig to created project proposal for FC-SP-2 AM2.

2108-03   Editor to incorporate T11-2021-00132-v000 (BLSs – Mandatory or Optional) for inclusion in FC-FS-6.

9 Meeting Schedule

9.1 Next Plenary Week

Request 3 hours for FC-FS-6 at the hybrid face-to-face/virtual T11 plenary week 04 October – 08 October 2021.

10 Adjournment

Howard Johnson (Broadcom) moved and Ed Mazurek (Cisco) seconded to adjourn. Approved unanimously.
The regular meeting was adjourned at 04:07 PM MDT on 18 August 2021.

11 Attendance4

Organization	Representative	T11.3 Member Company
BROADCOM LIMITED	Howard Johnson	Y
BROADCOM LIMITED	David Peterson	Y
BROADCOM LIMITED	Anil Veerabhadrappa	Y
CISCO SYSTEMS INC	Mike Blair	Y
CISCO SYSTEMS INC	Ed Mazurek	Y
DELL INC	David Brown	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
MARVELL SEMICONDUCTOR	Craig W. Carlson	Y
NETAPP INC	Frederick Knight	Y
VIAVI SOLUTIONS	Jason Rusch	Y