Minutes
T11.3 FC-FS-6 ad hoc work group regular meeting
08 April 2019 – 02:30PM – 05:00PM EDT
Virtual Conference

The FC-FS-6 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting via virtual conferencing using the Zoom platform on 08 April 2020, hosted by Marvell. Attendance was 15 people from 10 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, 08 April 2020 at 02:30 PM EDT. He thanked our host organization, 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 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.

1.3 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 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 08 April 2020 has been posted as T11-2020-00067-v000.

Howard Johnson (Broadcom) moved and Roger Hathorn (IBM) seconded to accept T11-2020-00067-v000 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 05 February 2020 have been posted as T11/2020-00029-v000.

Howard Johnson (Broadcom) moved and Craig Carlson (Marvell) seconded to accept T11/2020-00029-v000 as the minutes of the FC-FS-6 ad hoc work group meeting on 05 February 2020. Approved unanimously.

3.2 Review of Old Action Items

Action Items Carried Forward:

1910-01   Editor to remove Annex J and any references to it from the next draft version of FC-FS-6. **(To be discussed in 4.1) –** there may be an issue in that it is referenced in an Editor's note in 2019-00071-v004.

1910-02   Dave Peterson to work with Howard Johnson on best means to craft diagrams to ensure they can be incorporated by the editor using FrameMaker **(To be discussed in 5.1)**

New Action Items Identified Last Meeting:

None

4 Old Business

4.1 A Beautiful Day in the Neighborhood (2020-00011-v001 and 2020-00012-v001) Howard Johnson (Broadcom)

Howard picked back up on where we left off on definition of the new Annex (Annex N, using current counting order—may change with removal of Annex J). He decided to tell the story, by describing what each part of the graphs represent in words. He also tried to simplify down and cover more examples in a single graph. Much more English….much clearer.

4.2 Annex J and 00071-v004 Dave Peterson (Broadcom)

Dave Peterson brought up the current Annex and after discussion it was agreed that we should just remove it now.

5.0 New Business

5.1 Congestion Management Informative Annex Diagrams (2020-00068-v000) Johnson (Broadcom)

After showing the changes discussed in Section 4.1, Howard went back to these diagrams to ask which of these we also truly need to include in the informative annex.

Figure D.8 was one that was noted as showing something sufficiently different to also be included.   In particular there may need to be more explanation around the different implementation choices that are all legal.

There was also considerable discussion around the notion of whether a Warning signal MUST be sent before an alarm signal. Based on sample frequency, an implementation may not know a warning level was crossed until it takes a sample, at which point the alarm threshold could have been crossed. Today T0 is defined as when the Warning threshold is reached, but it may need to be changed to be the first sample measurement when either threshold was crossed. TBD

6 Unscheduled Business

7 Project Schedule

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

Once the physical layer work progresses, we will have a better sense of how to set realistic dates for this.

8 Review of Action Items

Action Items Carried Forward:

1910-01   Editor to remove Annex J and any references to it from the next draft version of FC-FS-6. **(CARRY)**.

1910-02   Dave Peterson to work with Howard Johnson on best means to craft diagrams to ensure they can be incorporated by the editor using FrameMaker **(CARRY)**

New Action Items:

None

9 Meeting Schedule

9.1 Next Plenary Week

Request 3 hours for FC-FS-6 at the T11 plenary week in Duluth, Minnesota 01 June – 05 June 2020.

10 Adjournment

Roger Hathorn (IBM) moved and Howard Johnson (Broadcom) seconded to adjourn. Approved unanimously.
The regular meeting was adjourned at 11:27 AM EDT on 08 April 2020.

11 Attendance

Organization	Representative	T11.3 Member Company
BROADCOM LIMITED	David Peterson	Y
BROADCOM LIMITED	Howard Johnson	Y
BROADCOM LIMITED	Steven Wilson	Y
CISCO SYSTEMS INC	Mark Allen	Y
CISCO SYSTEMS INC	Mike Blair	Y
DELL INC	David Brown	Y
DELL INC	Alan Rajapa	Y
FUJITSU AMERICA INC	Mark Malcolm	Y
HEWLETT PACKARD ENTERPRISE	Barry Maskas	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
MARVELL SEMICONDUCTOR	Craig W. Carlson	Y
NETAPP INC	Frederick Knight	Y
TELEDYNE LECROY CORPORATION	Henry Poelstra	N
VIAVI SOLUTIONS	Jason Rusch	Y