

Minutes
T11.3 FC-FS-6 ad hoc work group regular meeting
04 June 2019 – 10:30AM – 12:00PM PDT
La Jolla, CA, USA

The FC-FS-6 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting at La Jolla, California on 04 June 2019, hosted by Broadcom. Attendance was 11 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 Tuesday, 04 June 2019 at 10:16 AM PDT. He thanked our host organization, Broadcom, 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 04 June 2019 has been posted as T11-2019-00144-v000.

Howard Johnson (Broadcom) moved and DJ Brown (Dell) seconded to accept T11-2019-00144-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 09 April 2019 have been posted as T11/2019-00100-v000.

Howard Johnson (Broadcom) moved and J Metz (Cisco) seconded to accept T11/2019-00100-v000 as the minutes of the FC-FS-6 ad hoc work group meeting on 09 April 2019. Approved unanimously.

3.2 Review of Old Action Items

Action Items Carried Forward:

None

New Action Items Identified Last (Interim) Meeting:

1904-01 Mike Blair to research informative Annex J's applicability to Cisco (or perhaps beyond). **(CARRY)**

4 Old Business

4.1 Name Identifiers for the 21st Century (2019-00071-v002) Ralph Weber (T10/Western Digital)

Ralph reviewed some editorial changes identified after the last meeting.

One major agreement was to replace use of 'CID' term and instead define a new term that equates to the 24 bit version of the IEEE Administered Organizational Identifier (which says it can be a CID or an OUI).

Ralph will create a new draft based on all discussed today and come back next time with wording we can hopefully vote to incorporate.

5.0 Scheduled Business

5.1 A Beautiful Day in the Neighborhood (2019-00083-v000) Howard Johnson (Broadcom)

Howard followed up on this morning's presentation in FC-SW-8, in this meeting focusing on the new signaling proposed.

It is a registered function, so end devices that want to participate will register accordingly. There will be 2 types of signals....warning and alarm. The exact 'water mark' levels will be implementation dependent, and not visible to the consumer (i.e. fabric determines the two levels, but there are no commands to retrieve the criteria used).

Signaling is through defining two new ARB primitive values (F1 and F7). Mike Blair raised a concern with how this will affect current DWDM implementations. Howard asserted that this would only be guaranteed to function in FC-FS-6 compliant devices (128GFC/64GFC/32GFC). If the signal is not propagated through, it shouldn't matter. The presence or absence of the signal will not affect functional operation of the attached devices.

These signals are not acknowledged....they are informational only.

The Exchange Diagnostic Capabilities ELS will be used to indicate support for transmitting and/or receiving these signals, by adding a new TLV descriptor. Ability to support alarm/warning/neither as well as frequency of transmission or detection will be included in the descriptor.

The EDC can be resent if there is a reason or desire to alter the prior values sent.

6 Unscheduled Business

7 Project Schedule

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

8 Review of Action Items

Action Items Carried Forward:

1904-01 Mike Blair to research informative Annex J's applicability to Cisco (or perhaps beyond).

New Action Items:

None

9 Meeting Schedule

9.1 Next Plenary Week

Request 2 hours for FC-FS-6 at the T11 plenary week in Santa Fe, New Mexico 12 August – 16 August 2019.

10 Adjournment

Jason Rusch (Viavi) moved and J Metz (Cisco) seconded to adjourn. Approved unanimously. The regular meeting was adjourned at 12:00 PM PDT on 04 June 2019.

11 Attendance

Organization	Representative	T11.3 Member Company
BROADCOM LIMITED	David Baldwin	Y
BROADCOM LIMITED	David Peterson	Y
BROADCOM LIMITED	Howard Johnson	Y
CISCO SYSTEMS INC	Mike Blair	Y
CISCO SYSTEMS INC	J Metz	Y
DELL INC	Alan Rajapa	Y
DELL INC	David Brown	Y
IBM	Patty Driever	Y
MARVELL SEMICONDUCTOR	Craig W. Carlson	Y
VIAVI SOLUTIONS	Jason Rusch	Y
WESTERN DIGITAL	Ralph Weber	N