

**Minutes**  
**T11.3 FC-FS-6 ad hoc work group regular meeting**  
**08 October 2019 – 10:30AM – 12:00PM PDT**  
**Couer d'Alene, ID, USA**

The FC-FS-6 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting at Santa Fe, New Mexico on 08 October 2019, hosted by FCIA. Attendance was 14 people from 9 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, 08 October 2019 at 10:01 AM PDT. He thanked our host organization, FCIA, and led a round of introductions.

### **1.1 Attendance and Membership**

The chair explained that attendance is recorded electronically at [www.incits.org](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. 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](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 October 2019 has been posted as T11-2019-00277-v000.

Roger Hathorn (IBM) moved and Alan Rajapa (Dell) seconded to accept T11-2019-00277-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 13 August 2019 have been posted as T11/2019-00231-v000.

Roger Hathorn (IBM) moved and Alan Rajapa (Cisco) seconded to accept T11/2019-00231-v000 as the minutes of the FC-FS-6 ad hoc work group meeting on 13 August 2019. Approved unanimously.

### 3.2 Review of Old Action Items

#### Action Items Carried Forward:

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

Dave Peterson (Broadcom) made a motion to remove Annex J and any references to it from next revision of FC-FS-6. Seconded by Mike Blair (Cisco). Motion carried by a vote of 6-0-2.

#### New Action Items Identified Last Meeting:

**1908-01** Editor to incorporate 2019-00071-v004 into FC-FS-6. **(CARRY)**

**1908-02** Howard to post 2019-00215-v002 to incorporate text changes identified in this meeting. **(COMPLETE)**

## 4 Old Business

### 4.1 *A Beautiful Day in the Neighborhood (2019-00083-v002 and 2019-00215-v003) Howard Johnson (Broadcom)*

Howard began with sharing some next diagrams of signal behavior (i.e. when the initiative to send a Warning signal or Alarm signal at the next interval is set or when a state is reached to clear the initiative to send either signal). The interval timer is reset any time an interval expires and we're in the 'Clear' state. The next time after that in which

you cross over into the Warning level you can immediately send the Warning signal (because at least one interval has expired since the prior Warning signal was sent). Howard got a fair amount of feedback again on the diagrams, so he will go off and re-work some of them. **Action Item:** Dave Peterson agreed to work with Howard on how to craft these diagrams in a manner/tool that is compatible with FrameMaker.

Howard then picked up from where we left off on the text at the last meeting. More good progress, but still a bit more to go before being ready to incorporate.

## 5.0 Scheduled Business

## 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:

**1908-01** Editor to incorporate 2019-00071-v004 into FC-FS-6.

### New Action Items:

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

**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

## 9 Meeting Schedule

### 9.1 Next Plenary Week

Request 2 hours for FC-FS-6 at the T11 plenary week in New Orleans, Louisiana 02 December – 05 December 2019.

## 10 Adjournment

Alan Rajapa (Dell/EMC) moved and Jason Rusch (Viavi) seconded to adjourn. Approved unanimously.

The regular meeting was adjourned at 11:52 AM PDT on 08 October 2019.

## 11 Attendance

**Organization**                      **Representative**                      **T11.3 Member Company**

Organization	Representative	T11.3 Member Company
BROADCOM LIMITED	David Baldwin	Y
BROADCOM LIMITED	David Peterson	Y
BROADCOM LIMITED	Howard Johnson	Y
BROADCOM LIMITED	Steven Wilson	Y
CISCO SYSTEMS INC	Mike Blair	Y
CISCO SYSTEMS INC	Mark Allen	Y
DELL INC	Alan Rajapa	Y
FUJITSU INC	Mark Malcolm	Y
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
MARVELL SEMICONDUCTOR	Craig W. Carlson	Y
NETAPP	Frederick Knight	Y
VIAVI SOLUTIONS	Jason Rusch	Y
WESTERN DIGITAL	Ralph Weber	N