

**Minutes**  
**T11.3 FC-FS-6 ad hoc work group regular meeting**  
**05 October 2022 – 03:30PM – 05:00PM CDT**  
**Dallas, TX (Hybrid)**

The FC-FS-6 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting in Dallas, TX hosted by SNIA/SFF along with virtual conferencing facilities using the Zoom platform provided by Marvell on 05 October 2022. Attendance was 17 people from 8 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, 05 October 2022 at 02:17 PM CDT. He thanked our in-person host organization, SNIA/SFF, along with Marvell for providing the Zoom meeting facilities, 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 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](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](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 05 October 2022 has been posted as T11-2022-00299-v000.

Jason Rusch (Viavi) moved and Dean Wallace (Marvellm) seconded to accept T11-2022-00299-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 August 2022 have been posted as T11/2022-00241-v000.

Ed Mazurek (Cisco) moved and Jason Rusch (Viavi) seconded to accept T11/2022-00241-v000 as the minutes of the FC-FS-6 ad hoc work group meeting on 09 August 2022. Approved unanimously.

### **3.2 Review of Old Action Items**

#### **Action Items Carried Forward:**

**2206-01** Editor to incorporate T11-2022-00178-v000 into FC-FS-6 (**COMPLETE**)

**2206-03** Editor to incorporate T11-2022-00165-v002 into FC-FS-6 (**COMPLETE**)

#### **New Action Items Identified Last Meeting:**

**2208-01** Anil Mehta (Broadcom) to post T11-2022-00186-v002 with slight modification of the diagram (**COMPLETE**)

## 4 Old Business

### 4.1

## 5.0 New Business

### **5.1 Transmitter Training Signal for single lane 128GFC Transmitter Training (T11-2022-00285-v001) Oteyza (Marvell)**

Anil presented doc 2022-000332-v004 yesterday in FC-PI-8. Raul presented this document he created to put that slide set into text for section 5.8 of FC-FS-6.

Raul Oteyza (Marvell) made a motion to incorporate T11-2022-00285-v002 (with modifications agreed to at this meeting) into FC-FS-6. Seconded by Howard Johnson (Broadcom). Motion carried unanimously.

### **5.2 Link Speed Negotiations/Transmitter Training Flow diagram for 128GFC (T11-2022-00302-v000) Carlson (Marvell)**

Craig presented updates he made to the Link Speed Negotiation/Transmitter Training Flow diagrams in Clause 9.4 (Figures 61 and 62 and 63 and some updates to the variable names).

### **5.3 Comments on T11-2022-00302-v000 (T11-2022-00303-v000) Oteyza (Marvell)**

Raul has comments on Craig's updated document above. The comments were reviewed and necessary modifications agreed to. Raul will post v001 of the document with the agreed to modifications noted.

Craig Carlson (Marvell) made a motion to incorporate T11-2022-00302-v000 and T11-2022-00303-v000 (with modifications agreed to at this meeting) into FC-FS-6. Seconded by Roger Hathorn (IBM). Motion carried unanimously.

Craig Carlson (Marvell) made a motion to approve T11-2022-00089-v001 as modified during this meeting as the draft FC-FS-6 standard and recommend T11.3 initiate an RFC ballot when v002 of the draft is posted. Seconded by Dave Peterson (Broadcom). Motion carried unanimously.

## 6 Unscheduled Business

### 6.1

## 7 Project Schedule

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

## 8 Review of Action Items

### Action Items Carried Forward:

None

### New Action Items:

- 2210-01** Raul to post T11-2022-00285-v002 with resolution to comments as agreed to in today's meeting noted
- 2210-02** Editor to incorporate T11-2022-00285-v002 into FC-FS-6
- 2210-03** Editor to incorporate T11-2022-00302-v000 into FC-FS-6
- 2210-04** Raul to post T11-2022-00303-v001 with resolution to comments as agreed to in today's meeting noted
- 2210-05** Editor to incorporate T11-2022-00303-v001 into FC-FS-6
- 2210-06** Chair to request T11.3 approve T11-2022-00089-v001 as modified during this meeting as the draft FC-FS-6 standard and initiate an RFC ballot when v002 of the draft is posted

## 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 05 December – 09 December 2022.

## 10 Adjournment

Dean Wallace (Marvell) moved and Jason Rusch (Viavi) seconded to adjourn. Approved unanimously.

The regular meeting was adjourned at 04:23 PM CDT on 05 October 2022.

## 11 Attendance

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

BROADCOM LIMITED	Howard Johnson	Y
BROADCOM LIMITED	Anil Mehta	Y
BROADCOM LIMITED	David Peterson	Y
BROADCOM LIMITED	James Smart	Y
BROADCOM LIMITED	Steven Wilson	Y
CISCO SYSTEMS INC	Mike Blair	Y
CISCO SYSTEMS INC	Ed Mazurek	Y
CISCO SYSTEMS INC	Xiaohong Wu	Y
HEWLETT PACKARD ENTERPRISE	Barry Maskas	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
MARVELL SEMICONDUCTOR	Craig W. Carlson	Y
MARVELL SEMICONDUCTOR	Raul Oteyza	Y
MARVELL SEMICONDUCTOR	Dean Wallace	Y
NETAPP INC	Frederick Knight	Y
TELEDYNE LECROY CORP	Henry Poelstra	Y
VIAVI SOLUTIONS INC	Jason Rusch	Y