

**Minutes**  
**T11.3 FC-RDMA ad hoc work group regular meeting**  
**6 Dec 2022 – 9:00AM-10:00AM EDT**  
**Deerfield Beach, FL**

The FC-RDMA ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting on 6 Dec 2022, hosted by SFF. Attendance was 12 people from 8 organizations and is tabulated at the end of this document.

Roger Hathorn (IBM) (rhathorn@us.ibm.com) took minutes. Please report any corrections by email at [fc\\_protocol@standards.incits.org](mailto:fc_protocol@standards.incits.org)

## **1 Opening Remarks**

### ***Introductions***

Chairperson Craig Carlson (Marvell) opened the regular meeting on 6 Dec 2022 at 09:05 AM CST and led a round of introductions and thanked the host (SFF) for providing the meeting facilities.

## **2 Meeting Policy**

### ***2.1 Attendance and Membership***

The chair explained that attendance is recorded electronically at <https://standards.incits.org/apps/org/workgroup/t11>, 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.

### ***2.2 Code of Conduct***

The chair indicated that among the rules and policies under which this working group operates is the INCITS Code of Conduct policy:  
[https://standards.incits.org/apps/group\\_public/download.php/124850/INCITS-CodeOfConduct.pdf](https://standards.incits.org/apps/group_public/download.php/124850/INCITS-CodeOfConduct.pdf).

## **2.3 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.

## **2.4 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>

## **3 Administrivia**

### **3.1 Approval of Agenda**

An agenda for the FC-RDMA ad hoc work group regular meeting 6 Dec 2022 was posted as T11/2022-00206-v000.

***Motion: Howard Johnson (Broadcom) moved and Ed Mazurek (Cisco) seconded to accept T11/2022-00xxx-v000 as the agenda for this regular meeting.***

Approved by acclamation.

### **3.2 Review of Minutes**

***Motion: Howard Johnson (Broadcom) moved, and Ed Mazurek (Cisco) seconded to accept the following document as the official minutes for the previous regular meeting***  
***Approved by acclamation.***

T11-2022-00322-v000.pdf  
FC-RDMA Oct 4, 2022 Ad-hoc Meeting Minutes

## 4 Review of Old Action Items

### Action items carried forward from prior meetings:

None

### New action items from this meeting:

AI 2022-3: Dave Peterson (Broadcom) to post a draft a copy of T11/2022-00374-v000 as a draft of FC-RDMA.

### Completed action items from prior meetings:

2021-1: David Peterson to forward project proposal for FC-RDMA name change to T11 for further processing. – Closed

2022-2: Dave to put together an RDMA tutorial, or find an existing one, including terminology for those not familiar with RDMA protocol

- Complete in Dec, 2022 but deferred to Feb. '23

## 5. Old business

### **5.1 FC-RDMA Draft Standard Development T11/2022-00039-v004 Peterson (Broadcom)**

These charts outline the scope of work for the development of the standard. There was no update made for this meeting.

## 6. Scheduled business

None

## 7. Unscheduled business

### **7.1 Base Draft**

#### **T11/2022-00374-v000 Peterson (Broadcom)**

David produced a base spec with an outline and basic boilerplate content. The protocol will be modeled after the content in the infiniband 1.6 specification minus all the infiniband specific stuff. The document outline is based on the FC-NVMe content. David displayed the content as is and requested to post it as the first revision of the spec. There was discussion on whether there is enough valid content in it for that. You gotta start somewhere was the result.

#### ***Motion:***

***David Peterson (Broadcom) moved and DJ Brown (Dell) seconded to post this as the Rev 0.0 draft of FC-RDMA as initial content.***

***Motion passes 3-1-3***

AI 2022-3: Dave Peterson (Broadcom) to post a draft a copy of T11/2022-00374-v000 as a draft of FC-RDMA.

## 8 Project Schedule

A project schedule was discussed, and results follow.

Milestone	Expected Date
Last technical input	TBD
T11 RFC	TBD
Forward to INCITS	TBD

## 9 Review of Action Items

See 4, Review of Action Items.

## 10 Meeting Schedule

The chair will request 2 hours at the T11 plenary week for FC-RDMA in Tucson, AZ.

No interim conference calls will be scheduled.

## 11 Attendance Check and Adjournment

Company 	Name	Role
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Member
Broadcom Inc	James Smart	Member
Cisco Systems Inc	Harsha Bharadwaj	Member
Cisco Systems Inc	Mike Blair	Member
Cisco Systems Inc	Edward Mazurek	Member
Dell Inc	David Brown	Member
Hewlett Packard Enterprise	Barry Maskas	Member
IBM Corporation	Roger Hathorn	Member
Marvell Semiconductor Inc	Craig Carlson	Group Chair
NetApp Inc	Frederick Knight	Member
Viavi Solutions Inc	Jason Rusch	Member

### ***Motion:***

***David Peterson (Broadcom) moved Ed M. (Cisco) seconded to adjourn. Approved by acclamation.***

The regular meeting was adjourned at 09:45AM EST on 6 Dec 2022.