Meeting Notes: T11.3 FC-RDMA Expert Group
Document: T11-2024-00119-v000
Date: Tuesday April 2, 2024 (4:00pm-5:30pm ET) – F2F/Virtual Meeting
Location: Savannah, GA

The FC-RDMA Expert Group of the Fibre Channel Interconnection Schemes (T11.3) Task Group held a hybrid meeting hosted by FCIA.

Attendance is tabulated at the end of this document.

The meeting report was provided by Roger Hathorn. Please report any corrections by email to rhathorn@us.ibm.com.

1. Opening remarks and introductions   Brown

Chair David Brown (Dell) opened the meeting at 3:55pm. The Chair led a round of introductions and thanked our host organization. Reference was made to the following policies:

1.1 Attendance and Membership: On-line attendance via INCITS website. All person's present are considered members of this meeting and may vote on issues. Attendance at this meeting does not count toward attendance at the T11 Plenary or T11.x Task Group Plenary.
1.2 Code of Conduct
1.3 Antitrust
1.4 Patent Policy Overview

2. Review of agenda (T11-2024-00100-v001)   All

3. Review of last meeting report (T11-2024-00029-v000)   Brown
3.1 Review of old action items   Hathorn

Action items carried forward from prior meetings:
AI 2024-1: Dave Peterson to define the Communication Management RDMA_LS as a sequence that opens and closes an exchange. There is no LS_ACC or LS_RJT response and they cannot be aborted at the Fibre Channel layer. – Open – Roger to propose definition of Unidirectional Exchange to FC-LS-6.

New action items from this meeting:
AI 2024-2: Dave and Roger to work together on better diagramming of RDMA to FC data transfer (see April 2 notes, 4.1)

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
AI 2022-3: Dave Peterson (Broadcom) to post a draft a copy of T11/2022-00374-v000 as initial draft of FC-RDMA. – Complete
AI 2023-1: Dave Peterson (Broadcom) to post an update to T11/2023-00042-v000 to fix the provided links to tutorials – complete.

AI-2023-3: Dave to spin a new revision of the standard with updates from this Aug 1, 2023 discussion (cleanup NVME content, Update FC-4 LS clause 4. – Done (see 2023-000284-v000)
AI-2023-2: Group to read chapter 12 of Infiniband spec rev 1.7 (www.infinibandta.org) to understand Communication Management. – Closed
AI 2023-4: Dave Peterson to send template of agenda to other chairs (to get consistent format across expert groups) – Closed
AI 2023-5: Dave Peterson to create 32K read and 32K write scenario demonstrating any limits put forth by the connection management and first burst size on packet sizes with and without first burst.   – Closed

4. Old business

4.1 Draft Standard development (T11-2024-00043-v003)   Peterson (Broadcom)
We had more discussion on the need to further define the interaction between RDMA and FCP data transfer layers as was discussed last meeting.

Previous note from Patty:
Dave agreed to revise/expand his read/write examples to more closely align with how FCP works today, while also showing the relevant RDMA concepts (such as where the in the Connect IU the target indicates the max size transfer it can accept, and how the BTH/RTH headers would look and how the IUs and FC headers would look and where xfer readies happen, etc.).

5. New business
5.1 None

6. Unscheduled business
6.1 A new draft is posted (T11-2024-00052-v000) with work to date for anyone to review. DJ Brown made some observations and will provide future comments.

7. Review of schedule   All

Milestone	Expected Date
Last new technical input	June 2024
Target T11 RFC	Oct 2024
Target T11 Letter Ballot	April 2025
Forward to INCITS (PR)	June 2025

8. Review of new Action Items   Hathorn

9. Next Meeting Schedule   Peterson
9.1 Next Plenary Week
Request two hours for the next meeting.

10. Adjournment   Peterson
The regular meeting was adjourned by the chair at 4:41 PM

Attendance for this meeting:

Company ⬆	Name	Role
Broadcom Inc	Howard Johnson	Member
Broadcom Inc	David Peterson	Group Chair
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	Patty Driever	Member
IBM Corporation	Roger Hathorn	Member
Marvell Semiconductor Inc	Raul Oteyza	Member