

Minutes

T11.3 FC-NVME ad hoc work group conference call

02 May 2017 – 11:00 AM to 01:00 PM PDT

The FC-NVME ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a conference call on 02 May 2017, hosted by QLogic. Attendance was 8 people from 6 organizations and is tabulated at the end of this document.

Roger Hathorn (IBM) took minutes. Please report any corrections by email to the T11.3 reflector at fc_protocol@standards.incits.org.

1 Opening Remarks

Introductions

Chairman Craig Carlson (QLogic) opened the regular meeting at 08:07 AM PDT and led a round of introductions.

2 Meeting Policy

2.1 Attendance and Membership

The chair explained that attendance is recorded electronically at standards.incits.org/apps/org/workgroup/t11.3/calendar.php, and explained the procedure. Attendance at this meeting does not count toward attendance at 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 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.

2.3 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>

3.0 Approval of Agenda

An agenda for the FC-NVME ad hoc work group meeting 02 May 2017 was posted as T11-2017-0149-v0001

Roger Hathorn (IBM) moved and David Peterson (Brocade) seconded to accept T11-2017-00149-v0000 as the agenda for this regular meeting. Approved by acclamation.

4.0 Past Business

4.1 Review of Minutes

Review of minutes for the previous meeting and conference calls will be done at a future meeting.

4.2 Review of Old Action Items

Action items carried forward from prior meetings:

16-1207-03: David Peterson to look at fixing RRQ requirements in FC-FS-5 – carry

17-0329-1: James to propose text regarding implicit vs. explicit termination of associations and connections that either says only one Disconnect NVMe_LS is sent (either for the association or one of the connections) or a Disconnect NVMe_LS is sent for all connections and the association. Check that... - We will explicitly terminate the association (scope=0). May need to say do this only once. - Carry

17-0329-2: Dave Peterson to provide a proposal for moving discussion of first burst information from other sections (e.g. Data IU Format) to the First Burst section 4.6 to resolve Dell-DB62. – Carry

17-0418-1: Dave Peterson to post T11-2017-00020-0003 with comment resolutions to date. – Complete

17-0418-2: Craig Carlson to propose text for resolution of IBM-r055 to better explain how in-capsule data is translated into offsets within the CMD IU referencing data within the data series. – Carry

17-0418-3; For IBM-r061, the clearing effect table “Power Cycle” changes to Link Offline or Link Failure – folks should review – Carry

New action items from this meeting:

17-0502: Dave Peterson (Brocade) to evaluate login options for applicability to FC-NVMe and propose text for resolution to IBM-r074.

Completed action items from prior meetings:

For action items prior to 04/11/2017, see prior minutes of the 03/28/2017 regular meeting.

5. Old business

5.1 Letter Ballot Comment Resolution – (T11-2017-0020-v003, David Peterson, Brocade)

Rev 1.4 of the draft standard has been posted with comment resolutions completed to date as T11-2017-00145-v00.

Resolutions to comments covered in this discussion were recorded in the comment database. Resolution began with comments in sec 4.14 Port Login/Logout.

No objections were heard to a proposal by David Baldwin and Roger Hathorn (Through comments in the document) that Process Login and N_Port Login be explicit. Editor will remove all references via associated comments.

Roger Hathorn (IBM) proposed that the Initiator/Target bits in PRLI/PRLI LS_ACC be eliminated as the initiator and target roll is implied by the originator and responder of the PRLI request (Initiators send PRLI, targets respond). There was concern about current usage of them in the FCP world, but specifics were not provided. Roger challenged the group to bring in specific actual uses in the next meeting and the comment is left open.

Resolution ended at the beginning of clause 7.

6. Scheduled business

Scheduled business is the old business.

7. Unscheduled business

None

8. Discussion of Progress and Plan

No discussion

9 Review of Action Items

Action items carried from prior meetings:

See 4.2


10 Meeting Schedule

The next work group meeting will be on June 7, 2017 in Anchorage, AK.
Interim conference calls will be held for two hours each on 4/18 from 1-3 EST, 5/02 from 1-3 EST, 5/23 from 12-2 EST.

11 Attendance Check and Adjournment

Craig Carlson (QLogic) moved and Roger Hathorn (IBM) seconded to adjourn the meeting. Approved by acclamation.

The regular meeting was adjourned at 01:00 PM PDT.

Company 	Name	Role
Broadcom Limited	David Baldwin	Member
Broadcom Limited	James Smart	Member
Brocade	Howard Johnson	Member
Brocade	David Peterson	Member
IBM Corporation	Roger Hathorn	Member
Keysight Technologies Inc	Stephen Didde	Member
NetApp Inc	Frederick Knight	Member
QLogic Corporation	Craig Carlson	Group Chair