

# Draft Minutes

## T11.3 FC-SB-5 Work Group regular meeting

### February, 2013

### Palm Springs, CA

The FC-SB-5 working group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting in Palm Springs, CA, on February 05, 2013, hosted by the Fibre Channel Interface Association (FCIA). Attendance was is tabulated at the end of this document.

Minutes were taken by Roger Dickerson (Oracle) (Roger.Dickerson@oracle.com). Please report any corrections by email to the T11.3 reflector at t11\_3@mail.t11.org.

#### 1 Opening remarks

#### 2 Introductions

Chairperson Roger Hathorn (IBM) opened the regular meeting Tuesday, February 05, 2013 at 2:00 PM PST. He thanked our host, FCIA, and led a round of introductions.

#### 3 Attendance and Membership

The chair explained that attendance is recorded electronically at [www.t11.org/att](http://www.t11.org/att), 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.

Those responding are included in the attendance record. They were advised that by remaining in this meeting, they submit themselves and their organizations to INCITS policy for intellectual property, antitrust, and guest membership policy.

No one in attendance indicated they are not a member of INCITS T11.

#### 4 Intellectual property

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.

## **5 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>.

## **6 Approval of Agenda**

An agenda for the FC-SB-5 working group regular meeting February, 2013 has been posted as T11/13-027v0.

***Roger Hathorn (IBM) moved and Lou Ricci (EMC) seconded to accept T11/13-027v0 as the agenda for this regular meeting. Approved unanimously.***

## **7 Review of Past Business**

### **8 Review of Minutes**

***The December 2012 meeting minutes T11/12-499v0 were approved unanimously. Lou Ricci (EMC) moved, and Patty Driever (IBM) seconded the motion to approve the minutes. Approved unanimously.***

### **9 Review of Old Action Items**

***Review of old items occurred after the new presentations. All old items were closed based on the information presented.***

## 10 Old Business

*There were no old business items held over from previous meetings.*

## 11 New Business

*These presentations were introduced at this meeting.*

**- SB-5 Definition updates                      13-033v0                      Scott Carlson (IBM)**

Scott Carlson (IBM) continued the work to update the Definition section to conform to ISO document requirements. Section names and numbers appear on separate lines.

Added action item SB5-017, Editor to review heading section and numbering rules.

**- SB-5 TIN/TIR text updates                      13-034v0                      Scott Carlson (IBM)**

Scott Carlson (IBM) added updates to the Test Initialization section 6.4.7, and Test Initialization Result section 6.4.8. These changes clarified many details concerning these TIN/TIR functions, and resolved several letter ballot comments.

**- Letter Ballot Comment from Oracle                      12-495v0                      Mike Roy (ORACLE)**

Mike Roy (Oracle) provided another ballot comment regarding the TIR response. By following the rules of reserved bits, an older control unit will interpret a TINC function as a TIN function. The channel is not allowed to send a TINC to a control unit that does not support SB-5 I/O Discovery. A legacy control unit may send a TIR response to a TINC function, and the channel should accept the response.

A motion was made to add these comments to the comment database. Patty Driever (IBM) made the motion, and Lou Ricci (EMC) seconded, and the motion was approved.

**- Letter Ballot Comment Resolution                      Roger Hathorn (IBM)**

**FC-SB-5 Rev 1.0 = T11/12-203v0  
Letter Ballot Comment Database = T11/12-321v4**

Roger Hathorn (IBM) continued to work through the letter ballot comments. The comment status is: 377 Accepted, 47 Rejected, 12 Open. The Adobe X Reader tool is used to track comment changes.

Added action item SB5-018, Roger to upload 13-071v0 to reflect the progress during this meeting.

**- Letter Ballot Comment Resolution**  
**FC-SB-5 Rev 1.0 = T11/12-203v0**  
**Letter Ballot Comment Database = T11/12-385v3**

**Roger Hathorn (IBM)**

Roger Hathorn (IBM) updated the database to reflect the 3 new documents presented. Worked through additional comments until the meeting time expired. The comment status is: 54 Accepted, 11 Rejected, 1 Open. The Adobe X Reader tool is used to track comment changes.

Added action item SB5-019, Roger to upload 13-075v0 to reflect the progress during this meeting.

## 12 Unscheduled Business

*There were no unscheduled business items.*

## 13 Project Schedule

Milestone	Expected date
Last Technical Input	June 2012
T11 Letter Ballot	August 2012
Forward to INCITS	April 2013

## 14 Review of Action Items

SB5-001: Scott Carlson (IBM) to re-write Table 4 to express TINC/TINCR as a variation of TIN/TIR functions. Move content from 6.4.9 under 6.4.7 and re-organize to reflect that TINC is a sub-function of TIN just as extended TIN is a sub-function of TIN. Move content from 6.4.10 under 6.4.8 and re-organize to reflect that TINCR is a sub-function of TIR just as extended TIR is a sub-function of TIR. Re-wording will also be necessary. Re-work any other parts of the standard to remove reference to TINC or TINCR as new IUs.

SB5-001 No updates presented December 2011.

SB5-001 **CLOSED** by approving 12-039v0, February 2012.

SB5-002: Lou Ricci (IBM) to review existing SB-4 implementations to determine if the FCP data transfer models are compatible with Transport Mode transfer models.

SB5-002 **CLOSED** by approving 12-040v0, February 2012.

SB5-003 April 2012: Mike Roy to post document 12-152v1.

SB5-003 **CLOSED** April 2012: Mike Roy posted document 12-152v1.

SB5-004 April 2012: Scott Carlson to incorporate Cancel changes 12-152v1 into a new Cancel proposal.

SB5-004 **CLOSED** May 2012: Scott Carlson posted 12-203v0, verified included 12-152v1 - Cancel.

SB5-005 April 2012: Roger Hathorn to post document 12-119v1, Scott Carlson, Editor to incorporate.

SB5-005 **CLOSED** May 2012: Scott Carlson posted 12-203v0, verified included 12-119v1 – Incorrect Length.

SB5-006 April 2012: Roger Hathorn to post document 12-039v2, Scott Carlson, Editor to incorporate.

SB5-006 **CLOSED** May 2012: Scott Carlson posted 12-203v0, verified included 12-039v2 - TINC/TINCR.

SB5-007 April 2012: Scott Carlson, Editor to incorporate 12-148v0.

SB5-007 **CLOSED** May 2012: Scott Carlson posted 12-203v0, verified included 12-148v0 - REC.

SB5-008 June 2012: Roger Hathorn to request T11.3 to forward T11/12-203v0, SB-5 Draft Revision 1.00, and conduct a letter ballot.

SB5-008 **CLOSED** August 2012:

SB5-009 August 2012: Lou Ricci to bring in a straw man proposal for resolution to letter ballot comment (EMC-2)

SB5-009 October 2012: **POSTED:CLOSED** Lou Ricci posted 12-400v0. Refinements needed based on meeting feedback.

SB5-010 October 2012: **POSTED:CLOSED** Lou Ricci to post 12-400v1. Refinements needed based on meeting feedback.

SB5-011 October 2012: **POSTED:CLOSED** Roger Hathorn to post 12-321v2. Refinements needed based on meeting feedback.

SB5-012 October 2012: **POSTED:CLOSED** Roger Hathorn to post 12-385v1. Refinements needed based on meeting feedback.

SB5-013 December 2012: **POSTED:CLOSED** Roger Hathorn to post 12-321v4. Refinements needed based on meeting feedback.

SB5-014 December 2012: **POSTED:CLOSED** Roger Hathorn to post 12-385v3. Refinements needed based on meeting feedback.

SB5-015 December 2012: Scott Carlson to post 12-455v1. Refinements needed based on meeting feedback.

SB5-015 December 2012: **CLOSED** Scott Carlson posted 13-033v0 to replace 12-455v1.

SB5-016 December 2012: Scott Carlson to post 12-456v1. Refinements needed based on meeting feedback.

SB5-016 December 2012: **CLOSED** Scott Carlson posted 13-034v0 to replace 12-456v1.

SB5-017 February 2013: Scott Carlson to review the Definition section heading format rules.

SB5-018 February 2013: **POSTED:CLOSED** Roger Hathorn to post 13-071v0. Reflect comments resolved at February meeting.

SB5-019 February 2013: **POSTED:CLOSED** Roger Hathorn to post 13-075v0. Reflect comments resolved at February meeting.

## **15 Meeting Schedule**

Request 2 hours at the next T11 plenary week.

## **16 Adjournment**

*Lou Ricci (EMC) moved and Patty Driever seconded to adjourn at 6:45PM PST. Approved unanimously.*

## 17 Attendance

BROCADE [Howard Johnson](#)

BROCADE Dave Peterson

BROADCOM Pat Thaler

CISCO SYSTEMS Landon Noll

DELL Hiren Desai

EMC [Louis Ricci](#)

EMC Eric Smith

EMULEX David Baldwin

EMULEX Gautam Shiroor

FUJITSU AMERICA Sandy Wilson

HEWLETT-PACKARD Nadaraha Navaruparajah

IBM [Henry May](#)

IBM [Roger Hathorn](#)

IBM [Patty Driever](#)

LSI CORP. [John Lohmeyer](#)

NETAPP [Frederick Knight](#)

ORACLE Roger Dickerson

QLOGIC CORP. [Craig W. Carlson](#)