

Draft Minutes

T11.3 FC-BB-6 ad hoc work group regular meeting

05 October 2011 - 1 PM to 4 PM MDT

Albuquerque, NM

The FC-BB-6 ad hoc work group of the Fibre Channel Protocol (T11.3) Task Group held a regular meeting at Albuquerque, NM on 05 October 2011, hosted by FCIA and Chris Lyon. Attendance was 30 people from 20 organizations and is tabulated at the end of this document.

Minutes were taken by Bill Martin (Emulex) (bill.martin@emulex.com). Please report any corrections by email to the T11.3 reflector at T11_3@mail.T11.org.

1 Opening remarks

1.1 Introductions

Chairperson Claudio DeSanti (Cisco) opened the regular meeting Wednesday, 05 October 2011 at 9:00 AM MDT. He thanked our host, FCIA and Chris Lyon, and led a round of introductions.

2 Meeting Policy

2.1 Attendance and Membership

Claudio DeSanti explained that attendance is recorded electronically at 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).

Claudio DeSanti 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.

Two persons identified themselves as a member of an organization that is not a member of T11. They were encouraged to become members.

2.2 Patents

Claudio DeSanti 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

Claudio DeSanti 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-BB-6 ad hoc work group regular meeting 05 October 2011 has been posted as T11/11-413v0.

Roger Hathorn asked that his item from unscheduled business be moved to follow his other presentation. Howard Johnson asked to reverse the order of his presentations.

Sandy Wilson (Fujitsu) moved and Landon Noll (Cisco) seconded to accept T11/11-413v0 with the changes noted above as the agenda for this regular meeting. Approved by acclamation.

3.2 Review of Minutes

Minutes for the FC-BB-6 ad hoc work group regular meeting 03 August 2011 have been posted as T11/11-345v1.

Bill Martin (Emulex) moved and Roger Hathorn (IBM) seconded to accept T11/11-345v1 as the minutes of the FC-BB-6 ad hoc work group meeting on 03 August 2011. Approved by acclamation.

4 Review of Old Action Items

110608-1 FC-BB-6 editor to incorporate T11/11-209v1 into FC-BB-6. (Completed)

110803-1 Chair will present T11/11-295v1 to T11.3 as the New Project Proposal for the FC-BB-5 Amendment 1 for forwarding to T11 and INCITS. (Completed)

5 Old Business

5.1 FC-BB-5 Amendment 1 draft text

Peterson (Brocade)

(11-403v1)

Dave Peterson presented 11-403v1. There was much discussion about the fact that this was a complete document rather than a delta document. Dave produced a delta document that reflected only the changes that were in 11-403v1, this document was 11-403v2.

Dave Peterson (Brocade) moved and David Black (EMC) seconded to request T11.3 to request T11 to conduct a letter ballot to forward Fibre Channel – Backbone - 5 Amendment 1 (FC-BB-5 AM 1) (T11/11-403v2), INCITS 462-201x AM 1 to INCITS for further processing. The motion passed 15 Favoring, 0 Opposing, 1 Abstaining.

ACTION FC-BB-6 ad hoc work group chair to request T11.3 to request T11 to conduct a letter ballot to forward Fibre Channel – Backbone - 5 Amendment 1 (FC-BB-5 AM 1) (T11/11-403v2) to INCITS for further processing.

6 Scheduled Business

6.1 Distributed FCF

DeSanti (Cisco) (11-026v3)

Claudio started by presenting the diagrams that the proposal is based on. Claudio then presented the proposed detailed text for Distributed FCFs 11-026v3.

6.2 Controlling Switch Redundancy Protocol

DeSanti (Cisco) (11-224v1)

Claudio DeSanti presented the detailed text proposal for Controlling Switch Redundancy Protocol (11-224v1). The group requested several changes, and Claudio agreed to prepare a new revision.

6.3 VA_Port Protocols

DeSanti (Cisco) (11-225v1)

Claudio DeSanti presented the detailed text proposal for VA_Port Protocols (11-225v1). The group requested several changes, and Claudio agreed to prepare a new revision.

6.4 Flexible FDF Connectivity

Ayandeh (HP) (11-391v0)

Siamack Ayandeh presented the description of the requirements for Flexible FDF Connectivity (11-391v0). The group had several questions about the goals and the feasibility of the proposed solution.

6.5 Implicit Logout and Virtual Links

Hathorn (IBM) (11-409v0)

Roger Hathorn presented the description of Implicit logout and virtual links in FC-BB-5. There was discussion and Roger agreed to bring this back to the next meeting for consideration of incorporation.

6.6 FCF Implicit Logout

Hathorn (IBM) (11-435v0)

Roger Hathorn presented the description of Implicit logout in FC-BB-6. There was discussion and Roger agreed to bring this back to the next meeting for consideration of incorporation.

6.7 FC-BB-6 Now Featuring

Ricci (IBM) (11-408v0)

Lou Ricci presented his proposal to for a new Feature Map descriptor (11-408v0). There were questions about whether this was necessary at this point in time, and the specific bits proposed are not desirable to put into this descriptor.

6.8 Changes to the Fabric Configuration Server Model

Crandall (Brocade) (11-220v2)

John Crandall presented his proposal for changes necessary in the Fabric Configuration server in FC-GS-7 to support FC-BB-6. This proposal is informational for the BB-6 working group.

6.9 FC-BB-6: Merge/Split **Peterson (Brocade) (11-402v0)**

Dave Peterson presented his proposal discussing how to merge or split domains (11-402v0).

6.10 FC-BB-6: Manual Configuration and Automatic Configuration **Peterson (Brocade) (11-401v0)**

Dave Peterson presented an issue with manual vs. automatic configuration of membership lists (11-401v0). There was significant discussion on the use cases presented.

6.11 FC-BB-6: Link Flapping **Peterson (Brocade)(11-400v0)**

Dave Peterson presented cases that cause links to bounce (11-400v0). There was significant discussion on the use cases presented.

6.12 FC-BB-6: Multiple Virtual Domain Use Cases **Johnson (Brocade)(11-396v0)**

Howard Johnson presented use cases for multiple virtual domains. The conclusion of his presentation was that in future development that FC-BB-6 should not limit the use of multiple virtual domains IDs in a single virtual domain.

6.13 FC-BB-6: Notification of Non-delivery Evaluation **Johnson (Brocade)(11-397v0)**

Howard Johnson presented notification of non-delivery to review agreements from the previous meeting.

6.14 FC-BB-6: Neighbor Node Identification Concerns **Johnson (Brocade)(11-398v0)**

Howard Johnson presented some considerations necessary fro neighbor node identification (11-398v0).

6.15 FC-BB-6: Distance Considerations **Johnson (Brocade)(11-399v0)**

Howard Johnson presented concerns about receiver overrun due to distance considerations in FC-BB-6. There was a large amount of discussion about whether this was actually an issue.

7 Unscheduled Business

No unscheduled business was presented.

8 Project Schedule

Claudio DeSanti (Cisco) reviewed the project schedule:

Last New Technical Input:	<u>February 2012</u>
Letter Ballot:	<u>August 2012</u>
1st Public Review:	<u>December 2012</u>

9 Review of Action Items

111005-1 FC-BB-6 ad hoc work group chair to request T11.3 to request T11 to conduct a letter ballot to forward Fibre Channel – Backbone - 5 Amendment 1 (FC-BB-5 AM 1) (T11/11-403v2) to INCITS for further processing.

10 Meeting Schedule

Request 8 hours at the T11 plenary week hosted by FCIA in St Petersburg, FL, 5-9 December 2011.

11 Adjournment

Lou Ricci (IBM) moved and Horst Truustedt (Emeritus) seconded to adjourn. Approved by acclamation.

The regular meeting was adjourned at 5:30 PM MDT on 05 October 2011.

12 Status of Open Proposals

Document Title	Number	Disposition	Author
FC-BB-5 Amendment 1	T11/11-403	Forwarded for letter ballot. Latest version T11/11-403v2	Peterson (Brocade)
Distributed FCF Specification	T11/11-026	Carry for further development. Version available was T11/11-026v3	DeSanti (Cisco)
Changes to the Fabric Configuration Server Model	T11/11-220	Presented for discussion only. Version available was T11/11-220v2	Crandall (Brocade)
Redundancy Considerations	T11/11-224	Carry for further development. Version available was T11/11-224v1	DeSanti (Cisco)
VA_Port Protocols	T11/11-225	Carry for further development. Version available was T11/11-225v1	DeSanti (Cisco)
Flexible FDF Connectivity	T11/11-391	Carry for further development. Version available was T11/11-391v0	Ayandeh (HP)
Multiple Virtual Domain Use Cases	T11/11-396	Presented for discussion only. Version available was T11/11-396v0	Johnson (Brocade)
Notification of Non-delivery Evaluation	T11/11-397	Presented for discussion only. Version available was T11/11-397v0	Johnson (Brocade)
Neighbor Node Identification Concerns	T11/11-398	Presented for discussion only. Version available was T11/11-398v0	Johnson (Brocade)
Distance Considerations	T11/11-399	Presented for discussion only. Version available was T11/11-399v0	Johnson (Brocade)
Link Flapping	T11/11-400	Carry for further development. Version available was T11/11-400v0	Peterson (Brocade)

Document Title	Number	Disposition	Author
Manual Configuration and Automatic Configuration	T11/11-401	Carry for further development. Version available was T11/11-401v0	Peterson (Brocade)
Merge/Split	T11/11-402	Carry for further development. Version available was T11/11-402v0	Peterson (Brocade)
Now Featuring	T11/11-408	Bring back when there are features to put into this. Version available was T11/11-408v0	Ricci (IBM)
Implicit Logout and Virtual Links	T11/11-409	This will be incorporated as part of the VA_Port proposal T11/11-224. Version available was T11/11-409v0	Hathorn (IBM)
FCF Implicit Logout	T11/11-435	This will be incorporated as part of the VA_Port proposal T11/11-224. Version available was T11/11-435v0	Hathorn (IBM)

13 Attendance

Organization	Representative
BROADCOM	Pat Thaler
BROCADE	David Peterson
BROCADE	Howard Johnson
BROCADE	John Crandall
BROCADE	Steven L. Wilson
CISCO	J Metz
CISCO	Joe Pelissier
CISCO SYSTEMS	Landon Noll
CISCO SYSTEMS, INC.	Claudio DeSanti
EMC	David Black
EMC	Erik Smith
EMULEX	William R. Martin
ENDL TEXAS	Ralph Weber
FUJITSU AMERICA, INC.	Sandy Wilson
HEWLETT-PACKARD	Siamack Ayandeh
HEWLETT PACKARD CO.	Krishna Babu Puttagunta
HUAWEI SYMANTEC	Michael Ko
HUFFERD ENTERPRISES	John Hufferd
IBM	Louis Ricci
IBM	Roger Hathorn
IBM	Scott Carlson
INTEL CORPORATION	Prafulla Deuskar
JDSU	Jason Rusch
JUNIPER	Joseph White
LSI CORP.	John Lohmeyer
MELLANOX TECHNOLOGIES	Diego Crupnicoff
NETAPP	Frederick Knight
ORACLE	Roger Dickerson
QLOGIC CORP.	Craig W. Carlson
SELF	Horst Truedstedt