

FC-BB-2 Ad Hoc Meeting Minutes 02-05-02

1. Introductions

Steve Wilson opened the meeting at 9:10am Pacific Time on Tuesday, February 5th, 2002, in Huntington Beach, CA.

2. Approval of BB-2 Meeting agenda. (02-048v0)

Previous Ad-hoc minutes were approved.

3. Review of old BB-2 action items:

Action Item #4: Steve Wilson to request management companies to discuss discovery techniques. (Carryover) Done.

Action Item #15 – All to investigate new requirements for management and forward them to Steve Wilson. (Carryover) Done.

Action Item #28 – Murali Rajagopal and Ralph Weber will work together to create an FC-BB-2 Service Considerations proposal. Done.

Action Item #29 – Raj Bhagwat will present a FC Entity Routing Support proposal using existing algorithms. Done.

Action Item #31 – All. Need to look at Discovery and FC-BB-2 Management. Done.

Action item #32 - Murali to add security to FCIP Entity in Fig 1. Done.

Action item #33: Murali to revise Figure 26 to reflect FCIP Entity within the topology diagram with help from group. Carryover.

Action item #34: Murali to modify item b) in 13.2.2.2

Action item #35: All to provide input to clause 15 and 16. Carryover

Action item #36: Ralph Weber to post question on reflector on Class 4 use. Done it will be included.

Action item #37: Bob Snively to define connection Usage Code, for the short frame. In Progress

Action Item #38: Bret Ketchum to define B_port identification (same as SW-3 action item)

Action item #39: Editor to include 01-603v0 into next rev of FC-BB-2. Done.

Action item #40: Don Fraser to craft text that describes detection and reporting of link anomalies for potential inclusion in FC-BB-2. Done –presented today.

4. Old Business:

None

5. Scheduled New Business:

5.1 IETF WG and FCIP SubWG Status Update (not a posted document)

Murali Rajagopal had several representatives give updates.

Anil Rijhinshani gave an update of the FCIP MIB. Find more at IETF.

Dave Peterson says SLP is progressing and security is the only outstanding issue.

Ralph Weber is updating the encapsulation text to include Class 4.

The 4 hour meeting on Friday could update many things and the goal is for a last call soon.

Charles Monia presented 02-077v0 on iFCP. IFCP is on revision 9. He expects some security changes.

Added NA(P)T support, "liveness test" message, and Diffserv to MPLS mapping to the text.

5.2 FC Entity and SF Authentication (02-020v1)

Ralph Weber presented on how NATs have changed the requirements leading to use Authenticated Short Frames (ASF). There are at least three entwined standards that need to work together. FCIP, FC-SEC and FC-BB-2. FCIP may authenticate TCP connections independent of this proposal which will authenticate at the point to point or switch to switch level.

Elaborate security breach scenarios were discussed and general misunderstanding was agreed upon.

Optional implementations provide multiple scenarios to be considered. The interdependencies between the IETF and T11 will be pursued further and will probably entail a letter from T11 to IETF explaining what T11 standards plan to address.

Ralph made a motion to include this in the standard and Murali seconded it. There were no objections so the document will be included.

5.3 B_Port Model (02-087v0)

Bret Ketchum presented on how the B_Port model will be included in BB-2. Bob Snively raised questions about how frames would be routed to the different data engines in a single Link End Point. The accompanying text will need to be added for the VB_Access and B_Port behavior.

5.4 EBP ILS (02-088v0 and 02-089v0)

Bret Ketchum presented on ELPs which are very similar to ELPs.

5.5 Keep Link Alive (02-090v0)

Bret Ketchum presented on the BKA SW_ILS. The range of milliseconds to a second will be used when no other traffic is present. It was suggested to have a retry of the command before shutting the link down. Bret will add a retry to this and make this applicable to VE_Ports as well.

Bret will bring in revised documents in April and will receive command codes for these commands.

5.6 FSPF Extensions for BB-2 (02-078v0)

Raj Bhagwat proposed that any non-FC link is BB2 link which includes the ATM , SONET or FCIP link. He proposes to have VE_Ports be applicable to SONET and ATM as well as FCIP.

The extension would include the transport type in the Link Descriptor. He would use a reserved field to include the type of transport. Some objected to put this information in the Fabric Configuration Server

instead of the routing payloads to keep them architecturally clean and separate.

The second half of the proposal described changing the cost of the link to represent the bandwidth of the link instead of the baud rate. This will be explored more off line.

He also proposed using Hello Timers to detect link failures and most preferred to do Bret's BKA proposal.

5.7 Detection and Reporting of Link Anomalies (not a posted document)

Don Fraser presented on four methods to lose connectivity between FC switches on IP or other WAN links. The way that the fabric needs to be notified needs to be documented.

Action Item 40: Mike O'Donnell to provide text as to how the fabric should be notified of the failure of a WAN link.

He proposes the IP connection could be dissolved for 5 reasons. 1) Loss of (layer 1) Carrier –the Virtual ISL is broken 2) Repeated Loss of Synchronization (layer 2?) 3) Expiration of idle link keep-alive timer 4) On command of the Control and Services Module 5) Loss of FCSW ISL.

Action Item 41: Don Fraser to arrange the update the Link Anomalies proposal and post it to T11.

5.8 Generic Framing Protocol

Neil Wanamaker presented on the ITU-T G.7041 standard. He requests a mapping in BB-2 to G.7041.

Action Item 42: Neil Wanamaker to make proposal to incorporate G.7041 into BB-2.

FC-BB-2 Document Update (02-030v0)

Anil Suggested that items 2 and 3 of 15.5.4.1 be deleted since connection allegiance is not a goal of FCIP.

7. Review of BB-2 Action items and Status.

7.1 Status:

No additional status was discussed.

7.2 Action Items

Action item: Murali to revise Figure 26 to reflect FCIP Entity within the topology diagram with help from group.

Action item 33: Murali to modify item b) in 13.2.2.2

Action item 34: All to provide input to clause 15 (Protocol Procedures) and 16 (Service Considerations).

Action item 36: Bob Snively to define the Connection Usage Code for the short frame.

New Action Items:

Action Item 40: Mike O'Donnell to provide text as to how the fabric should be notified of the failure of a WAN link.

Action Item 41: Don Fraser to update the Link Anomalies proposal and post it to T11.

Action Item 42: Neil Wanamaker to make proposal to incorporate G.7041 into BB-2.

8. Meeting Schedule:

8.1 Future Meetings

Requesting 4 hours at next plenary meeting

9. BB-2 WG Meeting adjourned at 12:54 pm.

10. Attendees:

Attendee	Company
Scott Kipp	McDATA
Steve Wilson	Brocade
Michael O'Donnell	McDATA
Anil Rijhsinghani	McDATA
Dave Peterson	Cisco
Ken Hirata	Vixel
Raj Bhagwat	Lightsand
Murali Rajagopal	Lightsand Comm.
Bob Snively	Brocade
Claudio Desanti	Andiamo
Jeff Warren	Extreme
Ralph Weber	ENDL
Bill Krieg	Lucent
Jeff Mendiola	Sony
Greg Koellner	Inrange
Predrag Spasic	HP
Bill Moody	Crossroads
Neil Wanamaker	Akara
Scott Feller	Agilent
Charles Monia	Nishan

Rich Ramos	MTI
Roger Cummings	Veritas
John Lohmeyer	LSI Logic
Don Fraser	Compaq
Bill Collette	CNT
Bret Ketchum	CNT
Bob Dugan	IBM
Larry Lamers	San Valley
Craig Carlson	Qlogic
Horst Truedstedt	Truefocus
Elizabeth Rodriquez	QPkets
Mike Segre	Inrange
Mau Nguyen	Sony
Jim Nelson	Vixel
George Penokie	Tivoli
Charles Monia	Nishan
Anuraj Maunder	SANera Systems
Wayne Gentry	UNISYS
David Weber	LSI
Predrag Spasic	HP
David Black	EMC

These minutes submitted by Scott Kipp. Any discussion items or important points that have been accidentally omitted or incorrectly reported should be appended to the fc reflector (i.e. used by T11.3 TG for business and technical discussion).