

## **FC-BB-2 Ad Hoc Meeting Minutes 12-03-01**

### **1. Introductions**

Steve Wilson opened the meeting at 316p Central Time on Monday, December 3rd, 2001, in Austin, TX.

### **2. Approval of the 12/03/01 BB-2 Meeting agenda: Agenda was approved. (01-613v0)**

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)

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

Action Item #21 – Murali Rajagopal to add a note in BB2 to say that BBW SONET mapping is different from the native SONET mapping being defined in 10GFC. (done)

Action Item #22 – Murali Rajagopal to incorporate document 01-342v1 into the next draft of BB-2. (done)

Action Item #24 – Murali Rajagopal to incorporate agreed changes to figure 1 in FC-BB-2. (done)

Action Item #25 – Andy Helland and Larry Lamers will combine their model presentations in a single set of diagrams. (Done)

Action Item #26 – Steve Wilson to arrange an FC-BB-2 conference call to discuss model diagrams (2<sup>nd</sup> week in November, 1-3pm during FCIP authors conference call). (done)

Action Item #27 - All. Investigate FC-BB-2 B\_Port interoperability clarification. (Done)

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

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

Action Item #30 – Ralph Weber will present a Time Sync proposal. (Done)

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

### **4. Old Business:**

None

## **5. Scheduled New Business:**

### **5.1 IETF WG and FCIP SubWG Status Update (01-nnnv0)**

IETF Meeting next week in Salt Lake City

Interim meeting with T11 in February (Huntington Beach) Three days

FC Encapsulation. (includes class 4 SOF/EOF codes)

ISCSI, FCIP and iFCP security in process.

FCIP Sub Working Group (drafts for FCIP, FCIP MIB, and FCIP Discovery)

iFCP doc is available as 01-495v0 – Charles Monia is requesting feedback.

IPFC WG (new FC Mgmt MIB

RFC 2837 – FC FE MIB has minor corrections needed.

IPS MIB Work (new SCSI MIB started – SCSI MIB Work Monday of T10 Week)

iSCSI – New draft available

### **5.2 FC-BB-2 Document Update (01-492v1)**

Murali Rajagopal reviewed editorial changes incorporated into FC-BB-2 version 5.2.

Action item: Murali to add security to FCIP Entity in Fig 1.

Figure 24 drew discussion on validity of components of the FC-BB-2 Functional Model

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

Action item: Murali to modify item b) in 13.2.2.2

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

Discussion ensued on the inclusion of Class 4 within FCIP encapsulation and its required documentation in FC-BB-2.

Action item: Ralph Weber to post question on reflector.

### **5.3 Multiple Connections – T11/01-xxxv0**

Bob Snively presented on above. Introductory material

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

### **5.4 B-port Identification.**

Action Item: Bret Ketchum to define B\_port identification (same as SW-3 action item)

### **5.5 Latency Delay and Timer Considerations (01-603v0)**

Ralph Weber presented on IP Network transit time, and how to establish and maintain a synchronized value, checking IP Network transit times in incoming FC Frame Encapsulation headers.

Charles Monia suggested that a connection could be dropped to recover timed out frames. Mike O'Donnell answered that there is nothing that would preclude this from occurring.

Motion to include this in FC-BB-2 (accepted)

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

## **5.5 Compaq Requirements for FC-WAN Gateways (01-nnnv0)**

Don Fraser presented on lessons learned from initial FC over ATM implementations. They want WAN link down and visible via FC Hello Protocol. Gateways must detect and report that WAN link is down. Potentially use RLIR process. Would like standards and gateways be modified to detect and report intermittent WAN circuits. CNT suggests that this is better solved by SLA's.

Action item: Don Fraser to craft text that describes detection and reporting of link anomalies potential inclusion in FC-BB-2

## **5.6 FC-BB-2 Device Model (01-598v2)**

Murali presented a BB-2 Model that includes B\_ports. Suggested that this be the basis for future BB-2 models.

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

### **7.1 Status:**

No additional status was discussed.

### **7.2 Action Items**

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

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

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

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

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

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

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

Action item: Murali to modify item b) in 13.2.2.2

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

Action item: Ralph Weber to post question on reflector on Class 4 use.

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

Action Item: Bret Ketchum to define B\_port identification (same as SW-3 action item)

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

Action item: Don Fraser to craft text that describes detection and reporting of link anomalies for potential inclusion in FC-BB-2

## 8. Meeting Schedule:

### 8.1 Future Meetings

Requesting 4 hours at next plenary meeting

## 9. BB-2 WG Meeting adjourned at 5:50 pm.

## 10. Attendees:

Attendee	Company
Steve Wilson	Brocade
Michael O'Donnell	McDATA
Louis Odenwald	LSI Logic
Ken Hirata	Vixel
Charles Binford	Pirus Networks
Murali Rajagopal	Lightsand Comm.
Bob Snively	Brocade
Claudio Desanti	Andiamo
Bill Martin	Gadzoox
Ralph Weber	ENDL
Bill Krieg	Lucent
Jeff Mendiola	Sony
Greg Koellner	Inrange
Predrag Spasic	HP
Robert Griswold	Crossroads
Neil Wanamaker	Akara
Michael Nguyen	Ariodata
Charles Monia	Nishan

Rich Ramos	MTI
Anup Tinnoda	SV Sytsems
Vit Novek	Sun
Don Fraser	Compaq
Bill Collette	CNT
Bret Ketchum	CNT
Kumar Malavali	Brocade
Larry Lamers	San Valley
Craig Carlson	Qlogic
Horst Truedtedt	Truefocus
Elizabeth Rodriquez	Lucent

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These minutes submitted by Michael E. O'Donnell. 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).