

Minutes

T10 SBP-2 working group
T10 RCB working group
T13 Tailgate working group

October 7, 1997

Attendees:

Larry Lamers	Adaptec	Mike Bryan	Seagate
Tom Lenny	Compaq	Ed Patrick	Seagate
Jeff Wolford	Compaq	Steve Finch	SSI
Peter Johansson	Congruent	John Ta	SSI
Rajeev Nalawadi	Intel	Frank Campbell	Solution Technology
Linda Sanchez	Intel	Dave Evans	Symbios
Darrell Redford	Iomega	Bryce Leach	TI
Gary Brandvold	Maxtor	Bill Frank	WD
Pete McLean	Maxtor	Tom Hanan	WD
John Fuller	Microsoft	Jonathan Hanmann	WD
Nelson Arata	National Semi		

1. Opening remarks

The chair called the meeting to order and thanked Steve Finch and SSI for hosting the meeting. It was announced that this was an approved working group meeting of technical committees T10 and T13 operating under NCITS rules. The attendees introduced themselves and the attendance list was passed. It was agreed that since the forwarding of the project proposal for the RBC (Reduced Block Command) project had occurred, all of the charter goals of the Diskboys group had been accomplished and the name would be disbanded.

2. Agenda

The agenda was presented and two additional items were added. Discussion of the proposed changes to SPC-2 (T10/97-256r0) and discussion of the security annex for SBP-2 (T10/245r0).

3. Review of minutes [T10/97-249R0] and old action items

No comments were made to contents of previous minutes.

- 3.1. Mike Bryan - new rev of Reduced Block Commands: Done, PDF version passed around at meeting.
- 3.2. Peter Johansson - Bidirectional ORB proposal for printers. Done.
- 3.3. Peter Johansson - new rev of SBP-2: carry forward.
- 3.4. Jeff Wolford/John Fuller - Power mode change times/Unsolicited status: Done.
- 3.5. Jeff Wolford/Tom Lenny - SMART status polled? Done.

4. Tailgate document [T13/1248D]

4.1 Resolution of letter ballot comments

Reviewed proposed responses (T13/D97151r0) prepared by Jonathan Hanmann.

Agreed to reference ATA-4 and add statement that overlapped I/O and command queuing are implemented using SBP-2 protocol and not ATA-4 methodology.

Recommend the T13 chair take an action item to confirm whether or not the patent statement is correct.

The editor is to change normative notes to become normative parts of the document where appropriate.

The editor is to change the term “hung” to “non-responsive”

The group agreed that the document should remain a standard.

Jonathan Hanmann is to turn a new rev of the letter ballot comment resolution, D97151R1.

John Fuller moved that working group recommend to the T13 plenary that D97151 as modified (R1) be adopted as the response to letter ballot comments for project 1248D (T13/D97009r0). Seconded by Gary Brandvold. Passed 9-0-1.

5. Reduced Block Commands [T10/****D]

Pete McLean reviewed activities that occurred at the T10 meetings in regard to this project. T10 submitted the project proposal as a replacement to the STS project previously approved. T10 also approved that a new device type be assigned to the RBC device type. Document number for working document will be T10/97-260r0.

5.1 Review new document format

Committee did quick walk thru the document giving the editor input and suggestions on changes to be made in the document. Purpose was to insure that RBC format and content are in alignment with goals of project.

Issue started out to be how can the host determine the setting of the Write Cache Enable. Resolution after much discussion: Mode page is back. Mode sense/select is in with limited mode page. The WCE state (not control) will be in the page, plus mode Read/Write Capacity functionality. Read/Write capacity command is out, Read capacity command is not included, function accomplished via mode page. Keep control of WCE in Synchronize Cache command. Mode page to be clause 5.

The need to address block addresses larger than 32 bits was raised. The group agreed it is an issue, but no consensus as to how at this time.

Is annex A normative or informative? Keep? Definitely keep, informative or normative to be resolved later, but normative appears to be favored.

Config ROM and CSR annex will be normative, the model will be informative.

5.2 Power mode changes timers was resolved on reflector.

5.3 SMART status polled

To be accomplished by test unit ready. There is still an issue about value to be used.
Action item: Verify with Ralph Weber the sense code for SMART.

5.4 Review removable commands

Most things needed appear to be in RBC. Darrell Redford will turn a new revision to be reviewed at the next meeting.

Need get event notification (from MMC2/SCSI). How to find out when media changed? Possibly unsolicited status instead of GESN.

Issue about formatting and security, what level of access is required: SBP-2 password and/or media based password.

Commands that need to be defined for removable devices: Format unit; Prevent/allow media removal; Read capacity perhaps, might be in mode page and therefore not needed; Seek (with immediate); additional mode pages (fewer than before). Also additional sense codes if needed (i.e., not in SPC)

5.5 Editorial review

It was agreed that the bulk of the time at the november meeting would be devoted to an editorial review of RBC.

5.6 Changes to SPC-2

Reviewed T10/97-256r0. Minor change in text associated with SEND DIAGNOSTIC command description. Changes will be made to indicate that Mode Select will check only fields that are changeable and not fields that are not changeable and the host must issue Mode Sense after a Mode Select to see if changes were made and for rounded field final values. Mode Select only valid of SP bit set.

Peter Johansson will update this proposal and present at T10 in Palm Springs.

Micheal Bryan to update RBC as T10/97-260r1.

6. SBP-2 [T10/1155D]

6.1 Resuming isoch streams after reset

No one had proposals to discuss, removed from agenda.

6.2 Bidirectional ORB for printers

Peter Johansson's proposal in T10/97-244. Peter to pursue this further and bring back more information at next meeting.

6.3 Editorial review (clauses 11 and 12)

Editorial review of clauses 11 and 12 will be done at the November meeting.

6.4 Security extensions

It was agreed to add statement that length value greater than 28 shall result in an illegal parameter length error. It was agreed to clarify when false login counter was reset, that is, only power on reset, successful login or successful logout.

Peter Johansson to update T10/97-245.

SBP-2 is to be closed to new functions, except for the bi-directional ORB.

It was moved, seconded and unanimously agreed that Peter Johansson is to take agreed to updates of 1155D to T10 for inclusion into baseline version.

It was suggested that SBP-2 may be ready to go to letter ballot after inclusion of Security changes and maybe the Bidirectional ORB material.

7. Review of action items

Johnathon Hanmann to turn rev Tailgate letter ballot response. D97-151R1.

Peter McLean verify with Ralph Weber the sense code for SMART.

Peter Johansson will update T10/97-256r1 and present at T10 in Palm Springs along with other agreed upon updates for inclusion into baseline version.

Peter Johansson to update T10/97-245.

Micheal Bryan to update RBD as T10/97-260r1.

Darrell Redford to come bring in proposal for Section 5 of RBC.

8. Call for patents

IBM, Maxtor and Compaq may have patents related to password protection of disk drives. The chair asked that these companies exam their patents to determine their applicability and whether they would comply

Microsoft has patent application on bulk transfers on 1394. John Fuller will investigate

9. Meeting schedule

November 3-4,1997: At T10 plenary week in Palm Springs hosted by Adaptec.

10. Adjournment