

Accredited Standards Committee*
InterNational Committee for Information Technology Standards (INCITS)

Doc. No.: T13/08-150r0

Date: January 5, 2009

Reply to: Mark Overby

To: T13 Membership
From: Mark Overby
Subject: T13 Plenary Meeting (Santa Ana, CA) -- December 16-18, 2008

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of the Previous Minutes
5. Document Distribution
6. Review of Previous Action Items
7. Call for Patents
8. Old Business
9. New Business
10. Liaison Reports
11. Review of Action Items
12. Meeting Schedule
13. Adjournment

Results of Meeting

1. Opening Remarks

Dan Colegrove, the T13 Chair, called the meeting to order at 0905 Tuesday, December 16th, 2008. Dan Colegrove thanked Western Digital for hosting.

As is customary, the people in attendance introduced themselves, and a copy of the attendance list was circulated.

The Chair briefly reviewed the meeting rules: T13 is a Technical Committee of INCITS and operates under INCITS rules. Anyone with interest in the work of the committee is free to attend and take part in discussions. However, motions and votes are limited to member organizations, one vote per member organization.

The Chair also noted that T13 operates under the INCITS antitrust guidelines. There should never be discussion of the following topics at any INCITS or an 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.

Policies and Procedures and antitrust guidelines for INCITS are available at the web site at www.incits.org. T13 operates under these policies and procedures augmented by the T13 procedures at the T13 web site at www.t13.org.

*Operating under the procedures of The American National Standards Institute.

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2. Approval of Agenda

Curtis Stevens moved, Dan Colegrove seconded, that the agenda be approved as revised. The motion passed by unanimous consent. Later during the meeting the agenda was revised to add new items. Dan Colegrove moved, Bill Martin seconded, to amend the agenda to add four additional items as shown (8.5.27 - 8.5.30).

3. Attendance and Membership

The Chair reviewed the rules for membership and attendance:

3.1 Membership

An individual from an organization new to T13 must attend at least one T13 plenary meeting before requesting voting membership. After that meeting, the representative may request membership from the T13 chair stating expertise and material interest in the scope of the committee and pay the required fees to INCITS. The time when membership becomes effective has just changed. Membership now becomes effective at the start of the next meeting the organization attends assuming the organization attends one of the next two meetings.

3.2 Fees

Current INCITS memberships fees are 1200.00 USD. Alternates are included in the membership fee.

Mailings of committee documents are available to any interested party after each plenary meeting. The cost for mailings for one year is 300.00 USD for mailing in the USA and 400.00 USD for mailing to a location outside of the USA.

Persons with questions or requests regarding membership fees and/or subscriptions for mailings should contact Barbara Bennett, ITI Standards Operations, at bbennett@itic.org.

3.3 Attendance

In addition to payment of fees, there are also minimum attendance and participation requirements to maintain voting membership status on T13. A representative from a member organization must attend two of every three plenary meetings and vote on at least every other letter ballot. If a member organization fails to have a representative in attendance at two of the last three T13 plenary meetings or vote on every other letter ballot, they are warned that failing to attend the next T13 meeting or to vote on the next letter ballot will result in their voting membership being terminated.

Attendance at a working group meeting does not affect voting membership status in T13.

The T13 voting membership during the meeting was 21 organizations.

The number of eligible voting members required for establishing a quorum was 7. 11 Member organizations were present at the start of the meeting, thus a quorum was present.

The following individuals attended:

Table 1: Attendance List

Attendee	Company		Attendee	Company
Mark Overby	NVIDIA		Dan Colegrove	Hitachi GST
Steven Wells	Intel		Bill Martin	Emulex
Sumit Puri	Fujitsu		John Geldman	Lexar Media

Table 1: Attendance List

Attendee	Company		Attendee	Company
Takao Shirai	Toshiba		Frank Shu	Microsoft
Fred Knight	NetApp		Joseph Chen	Samsung
David Landsman	San Disk		Jim Hatfield	Seagate
Patrick Hery	Toshiba		Curtis Stevens	Western Digital

Mark Overby moved, Bill Martin seconded, that Apple be exempted from membership jeopardity for this meeting. The motion passed with unanimous consent. Eutorian was not present at the meeting and was dropped from membership. The new membership is 20, with a quorum of 6.

4. Approval of the minutes from the previous T13 plenary meeting (e08139r0)

Dan Colegrove noted that Phoenix was not listed as attending, but they were at the meeting. Mark Overby moved, Dan Colegrove moved, that the minutes be approved as revised.

5. Document Distribution

No documents were distributed.

6. Review of Previous Action Items

1. Dan Colegrove to forward EDD-4 project proposal to INCITS for processing. [Completed]
2. Dan Colegrove to forward committee recommendations for renewal of standards to INCITS. [Completed]

7. Call for Patents

The Chair displayed the patent policy. A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. This document is also on the INCITS web site at www.incits.org/help/ansi_sdo.html. Section 1.2.11 of that document contains the ANSI patent policy.

The Chair then called for patents and/or patent applications that may be necessary to comply with the requirements in T13 standards, draft standards, technical reports, or draft technical reports.

There was no response to the call for patents.

8. Old Business

8.1 INCITS Change in RD1 [Colegrove]

Mark Overby moved, Dan Colegrove seconded that, in accordance with INCITS Reference Document 1 (RD-1), clause 2.2, INCITS TC T13 elects to adopt the public access model defined in that clause. The public access model includes:

public access to all documents except those explicitly available to members only,
short-term guest attendance at committee meetings, and
notification to those accessing the documents or attending meetings that they are expected to abide by the relevant INCITS patent and anti-trust policies.

Curtis Stevens requested a roll call vote.

AMD: Not Present
Apple: Not Present
Dell: Not Present
Emulex: Yes
Fujitsu: Yes
HP: Not Present

Hitachi GST: Yes
 IBM: Not Present
 Intel: Yes
 Kionix: Not Present
 Lexar Media: Yes
 LSI: Not Present
 Microsoft: Not Present
 NetApp: Yes
 NVIDIA: Yes
 Phoenix: Not Present
 Samsung: Not Present
 SanDisk: Yes
 Seagate: Yes
 Toshiba: Yes
 Western Digital: Yes

The motion passed with 11 yea, 0 nay, and 0 abstentions.

8.2 ATA/ATAPI-7: 1532D

8.2.1 ISO Status

Dan Colegrove stated that he has sent the revised ISO volume 2 and has received a new round of requests from the ISO editor. Dan Colegrove stated that he was continuing to work with the ISO editor to answer the continuing questions on the material.

8.3 HBA-2 Standard Project: 2014-D

Mark Overby stated that the project was pending the next draft of ATA8-AST for further work.

8.4 ATA/ATAPI-8 Projects

8.4.1 AT Attachment 8 - Command Set (ATA8-ACS)

8.4.1.1 *INCITS Status*

Dan Colegrove stated that ACS has been published and that this agenda item could be removed.

8.4.1.2 *ISO*

Mark Overby moved, Curtis Stevens seconding, we recommed that ISO document numbers for ATA-8 as part 100 be AAM, 200 be ACS, 300 AST, and 400 APT. Curtis Stevens stated that he would work on getting ISO started for ACS-2.

8.4.2 AT Attachment-8 - Parallel Transport (ATA8-APT)

8.4.2.1 *ATA8-APT Open Issues (e07177)*

Mark Overby stated that all open issues have been handled.

8.4.2.2 *Review of Draft*

Mark Overby noted that he was unable to prepare a draft for letter ballot because the SAT-2 project for T10 did not complete letter ballot comment resolution at the previous T13 meeting. He expected SAT-2 to be completed

8.4.3 AT Attachment-8 - Serial Transport (ATA8-AST)

8.4.3.1 *Review of Draft*

Curtis Stevens stated that he is waiting to work on the next version pending the release of the next draft of ACS-2.

8.4.4 AT Attachment-8 - Architecture Model (ATA8-AAM)

8.4.4.1 *INCITS Review*

Dan Colegrove stated that AAM has been published and this agenda could be removed.

8.4.4.2 ISO Status

Mark Overby and Curtis Stevens agreed to hold this until ACS begins process through ISO.

8.4.5 ATA8 Schedule Review

AAM and ACS have been published. The proposed schedule for the remaining items is to have APT letter ballot in January, AST letter ballot in June.

8.5 ACS-2 Project 2015-D [Stevens]

8.5.1 ACS-2 Open Issues List (e07172) [Stevens]

Curtis Stevens reviewed the current revision of the open issues list and took feedback and status updates. He also agreed to post a new revision. Curtis recommended that the previously approved general statistics all be combined into the single, existing, general statistic page. Curtis Stevens moved, Jim Hatfield seconded, that the previously approved general statistics be merged into the existing general statistic page. The motion passed with 7 ayes, 0 nays, and 5 abstentions.

8.5.2 SCT Zone Control (e07169) [Colegrove]

Dan Colegrove asked that this item be deferred to the next meeting.

8.5.3 Device Statistics

8.5.3.1 Ad Hoc Teleconference Report [Chen]

Joseph Chen reviewed the teleconference report from the teleconferences.

8.5.3.2 Additional device statistics - Solid State (e06184) [Chen]

Joseph Chen reviewed revision 11 of his solid state statistics proposal. During the proposal it was suggested that other proposals on the agenda be reviewed to compare against what remains in this proposal.

8.5.3.3 Additional device statistics - Errors (e06181) [Chen]

Joseph Chen reviewed the latest revision of his proposal to add statistics for errors. There was significant discussion about the meaning of several of the statistics. Revisions were made to the statistics based on feedback from the group.

Jim Hatfield moved, Joseph Chen seconded, that e06181r11 as revised (r12) be incorporated into ACS-2. The motion passed with 10 ayes, 0 nays, and 2 abstentions.

8.5.3.4 Alternative Media Solid State Statistics (e08135) [Hatfield]

Jim Hatfield reviewed revision 1 of his proposal based on feedback from JC64.8 about statistics that could be reported for various health and device indicators for SSD. Jim Hatfield moved, Steven Wells seconding, that e08135r1 as revised (r2) be incorporated into ACS-2. Curtis Stevens moved, John Goldman seconded, that the motion be postponed to Thursday morning. The motion to postpone was debated. The motion to postpone passed with 8 ayes, 3 nays, and 2 abstentions. On Thursday, the debate on the main motion resumed. The main motion was amended to incorporate e08135r3 into ACS-2. The main motion passed with 10 ayes, 0 nays, and 2 abstentions.

8.5.4 Freefall Feature Set Enhancements (e06162) [Chen]

Joseph Chen was unavailable, so this item was deferred to the next meeting.

8.5.5 Security Command Update (e07104) [Chen]

Joseph Chen was unavailable, so this item was deferred to the next meeting.

8.5.6 Extended Security (e07189) [Chen]

Joseph Chen was unavailable, so this item was deferred to the next meeting.

8.5.7 Sanitize Command (e07197) [Geldman]

John Goldman reviewed revision 3 of the proposal for a new command to erase contents of a device.

During discussion of this proposal, extensive discussion was held about the definition of user data in the context of how the sanitize command (and other commands) affect that data. A definition of user data was formed by Curtis Stevens and proposed to the group as open issue #63 in the ACS-2 open issues list. Curtis Stevens moved, John Goldman seconded, that the text in open issue #63 be accepted as a new definition for user data. Jim Hatfield noted that he was uncomfortable voting on this definition without also analyzing places where user data was used. The term of user data was reviewed in SECURITY ERASE UNIT. John Goldman moved to call the question, Mark Overby seconded. The motion to call the question passed with 5 ayes, 4 nays, and 3 abstentions. The main motion passed with 7 ayes, 4 nays, and 1 abstentions.

8.5.8 Set Features Set Policy (e07121) [Hatfield]

Jim Hatfield asked that this be deferred to the next meeting.

8.5.9 SSD Identify (e07153) [Shu]

Frank Shu stated that he felt that part of this proposal has been covered by other features and that the optimal write size part of the feature was lacking interest. Therefore, Frank asked that this proposal be removed from the agenda for future meetings.

8.5.10 Change Host Vendor Specific to Scratch Pad (e07159r0) [Stevens]

Curtis Stevens asked that this be deferred to the next meeting. Curtis asked that this be deferred to ACS-3.

8.5.11 New DMA Commands (e08129) [Hatfield]

Jim Hatfield reviewed revision 2 of his proposal to add DMA versions for several existing PIO-only ATA commands. Jim Hatfield moved, John Goldman seconded, that e08129r2 be incorporated in ACS-2. The motion passed with 2 ayes, 1 nay, and 7 abstentions.

8.5.12 Reporting Non-Volatile Write Cache (e08116) [Livacarr]

Steve Livacarr was not present, so this item was deferred to the next meeting.

8.5.13 Extended Power Conditions (e08120) [Hatfield]

Jim Hatfield reviewed revision 5 of his proposal to add additional controls. Jim received feedback from the group and agreed to turn another revision for the next meeting.

8.5.14 ATA String identifying the OEM (e08130r0) [Stevens]

This item was removed from the agenda as it had already been completed.

8.5.15 Protocol Identifier for TrustedFlash (e08126) [Landsman]

Dave Landsman asked that this be deferred until T10 had resolved the identical issue in that committee for the assignment for trusted flash in the duplicate list that they maintain. The group agreed to defer until T10 had decided at the next meeting.

8.5.16 DRAT (e08137) [Knight]

Fred Knight moved, Curtis Stevens seconded, that e08137r2 as revised (r3) be incorporated into ACS-2. The motion passed with 5 ayes, 1 nay, and 4 abstentions. Jim Hatfield stated that he voted no because a deterministic read was not required.

Fred Knight moved, Bill Martin seconded, the the motion to approve e08137r2 as revised be reconsidered. The motion passed with unanimous consent. Discussion on the motion to approve e08137r2 as revised (r3) resumed

with requested changes to the document to further tighten language around requirements for the deterministic behavior. The motion passed with 10 ayes, 2 nays, and 0 abstentions.

8.5.17 PUIS Update to Power Management state diagram (e08142) [Hatfield]

Jim Hatfield presented a proposal to fix some missing data in the power up in standby feature set in relation to the power management state machine diagram. The group reviewed his proposal

8.5.18 DCO Clarifications (e08140) [Hatfield]

Jim Hatfield presented a proposal for clarifying DCO behaviors for various conditions involving the return of data after an error condition. The committee reviewed the material and suggested changes which Jim agreed to incorporate for the next revision. He agreed to turn a new revision for the next meeting.

8.5.19 Maximum LBA Range Supported Proposal (e08146) [Wells]

Steven Wells reviewed a proposal to be able to report a limit on the number of LBA ranges that can be passed with a dataset management command. During discussion it was agreed that the requirement for sorting the LBA range being dropped should be removed from the proposal and considered differently. Steven agreed to bring this proposal back to the next meeting after dataset management was published in ACS-2 r1 to make sure that the changes line up with what is being incorporated.

8.5.20 Reservations for iVDR (e08148) [Hatfield]

Jim Hatfield presented a proposal to convert several words from vendor-specific to reserved for iVDR. Dan Colegrove, Curtis Stevens, Mark Overby, and Bill Martin all stated strong opposition to converting vendor-specific to a reserved use as this could break any number of existing devices and compatibility with existing hosts or software. Curtis and Mark both stated that they could potentially support a request from iVDR to get 3 words to be assigned by T13 (likely from existing reserved material). Jim Hatfield noted the feedback and stated that he would consider that for the next meeting and revision of the proposal.

8.5.21 Synchronize with SATA 2.6 (e08143) [Hatfield]

Jim Hatfield reviewed material for synchronizing ACS-2 with changes made to SATA 2.6.

8.5.22 Review of problems with e08121 [Stevens]

Curtis Stevens raised an issue with the incorporation of this proposal and how to handle the reporting of supported and enabled. The committee viewed this as editorial and asked Curtis to do what he felt was correct for the next revision of ACS-2. Curtis agreed to make changes for revision 1 of ACS-2.

8.5.23 Obsolete TCQ (e08152) [Overby]

Mark Overby reviewed his proposal for obsoleting the TCQ feature set. The committee reviewed the changes and suggested double checking to make sure all elements were removed. Mark agreed to do this and discuss at the next meeting.

8.5.24 ASC/ASCQ Recommendations for ACS-2 [Overby]

Mark Overby discussed how he intended to document recommended ASC/ASCQ codes for error outputs for existing commands in ACS-2. The committee thought the proposed approach would probably work and Mark agreed to post the first revision for the next meeting.

8.5.25 Alternate Unit Exception Methods [Stevens]

Curtis Stevens discussed an alternate method of reporting the unit exception condition by using bit 1 of the status register and removing the obsolete tag. There were some concerns with this approach. Curtis Stevens asked all companies to review if this approach would work for further discussion at the next meeting.

8.5.26 Device Alert Log Page (e08151) [Geldman]

John Geldman gave a presentation on a potential approach to handle alerting and maintaining data about using this as an alert system for reporting specific types of failures related to SSD (predictive and non-predictive). Mark Overby raised the question about how this differs from SMART status today. John noted that he was looking for the

equivalent of automotive warning lights for the SSD. Mark responded noting that the mechanism for unit exception reporting adding to ACS-2 could be sufficient with new ASC-ASCQ values. Steven Wells noted that any data here should merely be how to report the condition and that the causes of the condition should be covered in JC64.8 or another similar SSD / Flash specific body. Dave Landsman, Jim Hatfield, and Mark all agreed with this position. Discussion then revolved around the need of being more specific in the types of conditions reported, but there was no strong objection to that as T10 has this model today for informational exceptions.

Discussion then moved to Jim Hatfield's SSD statistics proposal to tie the various SSD statistic and error reporting together.

8.5.27 IDENTIFY DEVICE data log (e08156) [Stevens]

Curtis Stevens presented the first proposal of adding a log page to allow for more IDENTIFY DEVICE data. Curtis agreed to continue developing the proposal for the next meeting.

8.5.28 Moving PACKET feature set (e08157) [Stevens]

Curtis Stevens discussed moving the packet feature set into a separate standard from ACS. There was significant discussion about how this would be accomplished. Mark Overby noted that it would require changes to AAM as well and he would be willing to do the work for AAM. Curtis stated that he would continue developing this idea and bring a project proposal to the net meeting.

8.5.29 SET FEATURES revert to default behavior after reset (e08158) [Colegrove]

Dan Colegrove presented material to change the behavior of the revert SET FEATURES operation. He stated that while ACS-2 had attempted to specify the behavior of hardware and software resets for this, but that it now appears that there is not consensus. Other parties wanted to research this further for the next meeting and Dan agreed to leave the issue on the agenda for the next meeting.

8.5.30 American Numbering for ACS-2 (e08154) [Martin]

Bill Martin displayed a proposal for T13 to use the same numbering scheme that T10 and T11 use. He noted that this had been determined to be acceptable to ISO when documents are transmitted to them. Bill Martin moved, Mark Overby seconded, that e08154r0 be incorporated into ACS-2. The motion passed with 11 ayes, 0 nays, and 0 abstentions.

8.5.31 Project Schedule

Curtis Stevens stated that he was going to post revision 1 and would like to approve proposals at the next meeting and letter ballot in April.

8.6 EDD Erratum

8.6.1 INCITS Status

Dan Colegrove believed that the EDD had been published, but that he had not received a summary before the meeting from INCITS.

8.7 EDD-4 [D2132]

Curtis Stevens stated that he would turn an initial draft of EDD-4 with the approved proposal from the previous meeting. Jim Hatfield and Curtis also noted that they would be bringing in proposals against EDD-4 at the next meeting.

8.8 ATA/ATAPI-6 Amendment [Stevens]

8.8.1 Signatures in ATA/ATAPI-6

Curtis Stevens reminded the group of the issue. The issue is that the device field was removed as part of the signature in ATA-7 because of problems and he would like to do this as an amendment to ATA-6 as this is what is being

relied upon for SATA 2.6. Jim Hatfield noted that this would be fixed with the alignment of SATA 3.0 with ACS. Curtis noted that this would not help SATA 2.6 devices and he will proceed forward with the amendment process.

8.9 T13 reflector, FTP, and web site setup

8.9.1 INCITS KAVI conversion

Bill Martin noted that INCITS was trying to move their master organization page onto KAVI and were reporting difficulty in converting. No other news was reported.

9. New Business

9.1 Amendment for ATA8-ACS Project Proposal (e08144) [Hatfield]

Jim Hatfield moved, Mark Overby seconded, that e08144r1 be forwarded to INCITS for further processing as a new project. The motion passed with 12 ayes, 0 nays, and 0 abstentions.

9.2 ATA8-ACS Amendment (e08145) [Hatfield]

Jim Hatfield reviewed the changes that he would like to make as part of the project to amend ACS. Jim asked for feedback on the proposal for discussion at the next meeting.

9.3 Items from the Reflector

None were reported. It was noted that the reflector is currently having issues in sending e-mail to all members.

10. Liaison Reports

10.1 T10 [Colegrove]

10.1.1 SCSI to ATA Translation (SAT) Working Group Report [Overby]

Mark Overby reported that SAT-2 is wrapping up letter ballot and SAT-3 is open.

10.1.2 Reading of SSD LBA Pointer Managed Blocks [Knight]

Fred Knight thought this had been covered with DRAT and could be removed.

10.1.3 Power Management Issues [Hatfield]

Jim Hatfield thought this had been covered sufficiently during discussion of the power management proposal.

10.1.4 RD1 Change Reaction [Colegrove]

Dan Colegrove stated that this was covered during our vote to adopt the public access model and that this issue was resolved.

10.1.5 General T10 Report

Dan Colegrove stated he would post the report from John Lohmeyer on T10 activities.

10.2 T11 [Colegrove]

10.2.1 RD1 Change Reaction [Colegrove]

Dan Colegrove stated that this was covered during our vote to adopt the public access model and this issue had been resolved.

10.3 JEDEC

10.3.1 Liaison Report [Overby]

Mark Overby reported that JC64.8 has completed work for the 1.8" form factor SSD and handed off to SFF. He also noted that the other JC64.8 activities were covered during discussion of device statistics.

10.4 IEEE

10.4.1 IEEE1667

John Gledman reported that they are working on material on how to use 1667 with ATA. No expected changes to T13 standard.

10.4.2 INCITS Liaison Opportunities

Dan Colegrove reported no new material received.

10.5 Trusted Computing Group [Hatfield]

Jim Hatfield reported that TCG storage related documents will be published in 2009.

10.6 SFF [Colegrove]

Dan Colegrove reported that SFF has taken up an item from JC64.8 at JEDEC for 1.8" SSD devices.

10.7 IDEMA [Colegrove]

10.7.1 4K Physical

Dan Colegrove reported that there is no meeting scheduled until February 2008.

10.7.2 HDD & SSD Reliability

Dan Colegrove had no data to report.

10.8 CFA [Geldman]

John Geldman reported that CFA has begun work on the next version of CF that will no longer rely on ATA-4.

10.9 Serial ATA IO [Hatfield]

10.9.1 General Report

Jim Hatfield stated that work was proceeding on the SATA 3.0 integration team.

10.9.2 Document precedence between SATA and T13

Jim Hatfield reported on the issue that was first uncovered during the read-write-verify discussions where a feature completely defined in one spec may have interactions with a feature in the other document and there are conflicts. There is no proposed resolution at this time, but further study and discussion is needed.

10.10 SNIA

10.10.1 SSSI

Dan Colegrove reported no material of interest to T13 at this time.

11. Review of Action Items

1. Dan Colegrove to change sign-in sheet to comply with public access model
2. Curtis Stevens to change the website to comply with the notification of the public access model
3. Dan Colegrove to forward new project proposal for amending ACS to INCITS

12. Meeting Schedules

12.1 Authorization of Ad-Hoc Working Groups

Dan Colgrove moved, Mark Overby seconded, that an editors session be authorized for following the plenary meeting. The motion passed with unanimous consent.

12.2 Next Meeting

Table 2: Next Meeting Information

Date	Location	Host	Contact
Feb 17 - 19, 2009	San Jose, CA	NVIDIA	Mark Overby

12.3 Long term meeting schedule

12.3.1 T11 Conflict in 2010

Dan Colegrove moved, Mark Overby seconded, that the October 2010 meeting be moved to the 10th - 14th of October, 2010. The motion passed with unanimous consent. Dan Colegrove moved, Mark Overby seconded, that the April 2010 meeting be moved April 20th - 22nd, 2010. The motion passed with unanimous consent.

12.3.2 Review schedule and host volunteers

The future schedule was reviewed. A discussion was held on the number of meetings and if it should be reduced based on the current global economy and travel restrictions that are being placed on many companies. No decisions were made, but it was agreed to revisit the issue and the next meeting.

13. Adjournment

Mark Overby moved, Dan Colegrove seconding, that the meeting be adjourned at 1219 PT, 18 December 2008. The motion passed with unanimous consent.