

Minutes, Technology Group on Distribution 14 August 2002

Advanced Television Systems Committee

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The Advanced Television Systems Committee (ATSC), is an international, non-profit membership organization developing voluntary standards for the entire spectrum of advanced television systems.

Specifically, ATSC is working to coordinate television standards among different communications media focusing on digital television, interactive systems, and broadband multimedia communications. ATSC is also developing digital television implementation strategies and presenting educational seminars on the ATSC standards.

ATSC was formed in 1982 by the member organizations of the Joint Committee on InterSociety Coordination (JCIC): the Electronic Industries Association (EIA), the Institute of Electrical and Electronic Engineers (IEEE), the National Association of Broadcasters (NAB), the National Cable Television Association (NCTA), and the Society of Motion Picture and Television Engineers (SMPTE). Currently, there are approximately 160 members representing the broadcast, broadcast equipment, motion picture, consumer electronics, computer, cable, satellite, and semiconductor industries.

ATSC Digital TV Standards include digital high definition television (HDTV), standard definition television (SDTV), data broadcasting, multichannel surround-sound audio, and satellite direct-to-home broadcasting.

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Minutes, ATSC Technology Group on Distribution

14 August 2002, 10:00 a.m. – 4:00 p.m.
National Association of Broadcasters, Washington, D.C.

1. WELCOME, INTRODUCTIONS, AND DETERMINATION OF QUORUM

Chairman Ralph Justus (CEA) called the meeting to order at 10:00 a.m. at the headquarters of the National Association of Broadcasters in Washington, D.C. He thanked NAB for hosting the meeting and welcomed those in attendance. He asked each person to identify themselves. The attendance list is given in **Attachment 1**.

2. APPROVAL OF PROPOSED AGENDA

Chairman Justus asked for consideration of the draft agenda (**Attachment 2**). Mark Richer (ATSC) suggested an agenda item on recent correspondence with CableLabs regarding DASE. It was decided that this issue would be covered under the T3/S17 report as Item 14.1. Art Allison (NAB) suggested adding an item to the T3/S8 report dealing with SCTE liaison activities. This suggestion was accepted and added as Item 9.4.5. The agenda was accepted as modified.

3. APPROVAL OF THE DRAFT MINUTES OF JUNE 25, 2002 MEETING

Chairman Justus called member's attention to the draft Minutes of the June 25, 2002, T3 meeting, which were distributed to the T3 reflector on August 7 (**Attachment 3**). Secretary Jerry Whitaker (ATSC) stated that an editorial correction had been identified by Mike Dolan (consultant). Mr. Allison offered an additional editorial correction. No further changes were requested and the draft Minutes were accepted as revised.

4. OPENING REMARKS

Chairman Justus observed that T3 has made considerable progress in moving important documents forward since the last meeting, and he thanked all participants for their hard work.

5. COMMENTS BY THE PRESIDENT (MARK RICHER)

Mark Richer (ATSC) reported on current activities within the organization. He called members attention to correspondence from Dick Green at CableLabs regarding DASE, which will be discussed later in the meeting.

Mr. Richer reported that administrative changes relating to the ATSC reflectors and other member resources have been implemented, based on direction from the Board. He added that a new password for the Members' Only area of the Web site will be distributed shortly. Mr. Richer said a new phone bridge system has been installed at ATSC headquarters, and that the organization will transition soon from the current service. He said the new system will provide greater flexibility for members and reduce operating costs.

Other items covered in Mr. Richer's briefing included:

- ATSC plans to begin offering sponsorships for the newsletter
- A seminar on DTV is planned for October in Mexico
- A seminar on DTV is planned for October in Toronto
- A session on DTV is in the planning stages for the CES show in Las Vegas

5.1 Status of Ballots

Mr. Richer reported on the status of current ballots (**Attachment 4**), specifically:

- ATSC Membership Ballots
PSIP A/65A Amendment 2; 22 yes, 0 no (approved August 6, 2002)
Editorial Privilege: 23 yes, 0 no
PSIP A/65A Amendment 1A: 20 yes, 2 no (approved August 12, 2002)
Editorial Privilege: 20 yes, 3 no
ARM closes August 16, 2002
- T3 Membership Ballots:
Content ID and Labeling for Transport 12 yes, 5 no (approved August 8, 2002)
Editorial Privilege: 14 yes, 2 no
A/53B Amendment 2 closes August 14, 2002
Transport Stream File System closes August 15, 2002

5.2 Other

There were no other items to report.

6. BRIEF REPORTS ON ACTIONS FROM THE PREVIOUS MEETING

The following action items resulted from the T3 meeting of June 26, 2002.

- 1) Henderson to post a note to the T3 and T3/S10 reflectors advising members that work is about to begin on revising A/54 Section 10, and asking for volunteers to assist in the project. *Completed*
- 2) Dolan to send a copy of T3-558, the draft ARM Standard, to ATSC staff for the issuance of a four week ballot of the ATSC membership. *Completed*
- 3) Whitaker to clear the T3/S18 reflector member list and to set aside the resource as inactive. *Completed*
- 4) Allison to establish and chair an ad hoc group involving—among others—the chairs of T3/S8, T3/S13, and T3/S14A for the purpose of coordinating work with SCTE on aggregated tables, and to report back at the next T3 meeting on progress made. *Ongoing, assigned to architecture Team*
- 5) Dolan to report to T3/S13 that T3 has authorized a new work item for the specialist group to develop and draft a revision to A/90 (A/90A) that addresses the issues identified in document S13-105. *Completed*
- 6) Narasimhan to report to Shah and T3/S14A that it is the consensus of T3 to go forward with developing the draft satellite broadcast standard, and to not wait for the A/53B Annex C work (now underway) to be completed. Instead, since the Annex C amendment is likely to be completed prior to a T3 ballot on the draft satellite broadcast standard, T3 believes the T3/S14A document should move forward, with updates relating to the A/53B amendment integrated when finalized. *Completed*
- 7) Shah to call upon Whitaker as needed to assist in addressing remaining editorial issues relating to the draft satellite broadcast standard, with the goal of posting the document to the T3 reflector at least two weeks prior to the August 14 T3 meeting. *On agenda*
- 8) Eyer to forward to ATSC staff Amendment 2 to A/53B, T3/S8-475rev. 4, for the issuance of a four week T3 ballot. *Completed*
- 9) Eyer to forward to ATSC staff Amendment 1A to A/65A (Directed Channel Change) for the issuance of a four week ballot of the full membership. *Completed*

- 10) Eyer to integrate into Amendment 2 to A/65A the three outstanding items outlined at this meeting—tighter system time tolerance, usage of caption service descriptor, and clarification of cable descriptor usage—and to forward the revised document to ATSC staff for the issuance of a ballot of the full ATSC membership. *Completed*
- 11) Eyer to forward to ATSC staff the draft Content Identification and Labeling standard for the issuance of a ballot to T3. *Completed*
- 12) Richer, with input from Dolan and others, to draft a letter to the convenier of ISO TC 36 SC9 Working Group 1 (André Chaubeau) expressing ATSC's urgent need for completion of ISAN work, and explaining that ATSC is basing some of its standards on ISAN and V-ISAN, and has held work in abeyance waiting for completion of this work. *On agenda*
- 13) Eyer to report to T3/S8 that T3 has accepted T3/S8-477rev. 1 as a list of requirements for the VSB enhancement work of the specialist group. *Completed*
- 14) Whitaker to bring back to T3 at the next meeting a proposed revision of A/65A incorporating PSIP Amendments 1A, 2, and 3 to be known as A/65B, which will be presented to T3 for consideration and approval. *On agenda*
- 15) Adams to report to T3/S17 the following motion, approved at today's meeting: "Moved that T3-574R0 be revised to be use the language from T3-571 for any sentences where a difference exists." The specialist group shall revise T3-574R0 accordingly. *On going*
- 16) Dolan to form an ad hoc group to address standards architecture issues and to report back to T3 at the August 14 meeting with recommendations for going forward. *Completed, on agenda*

7. NEW WORK ITEMS FOR DISCUSSION

7.1 Assigned by Board of Directors

Mr. Richer reported there were no new work items assigned by the Board of Directors.

7.2 Implementation Subcommittee

Art Allison (NAB), Chairman of IS, reported there were no work items to discuss.

7.3 Other

There were no other work items.

8. REPORT OF THE SPECIALIST GROUP ON VIDEO AND AUDIO CODING, T3/S6 (BILL MILLER)

William Miller (ABC), the chair of T3/S6 reported on current activities within the specialist group (**Attachment 5**).

8.1 Status Report

Mr. Miller said that the specialist group met by conference call on August 6 to address a directive from T3 to investigate alternate modes of audio and video compression for possible use in the robust transmission mode being examined by T3/S9. He said the major area of discussion was JVT compression, an extension of the MPEG-2 toolkit being standardized by ISO. The group plans to report to T3 on the potential for use of JVT by the December 2 T3 meeting. He said that work has not yet begun on audio issues.

Mr. Richer suggested that the specialist group might consider issuing an RFP seeking input on alternate compression modes. Mr. Miller agreed with the idea, however, he added that before proceeding, he would want to secure more participation in the specialist group. Mr. Miller took an action item to post a "call for participants" note to the T3 reflector and other ATSC reflectors as appropriate.

Mr. Miller said that T3/S6 might want to submit liaison comments to JVT. Chairman Justus suggested that, should T3/S6 wish to submit comments to the next JVT meeting on October 9, that such correspondence be posted to the T3 reflector for comment. He added that, in the event of a difference of opinion on the liaison document, Mr. Richer would serve as the arbitrator.

8.2 Liaison relating to MPEG and ITU-T

Mr. Miller recommended that ATSC consider upgrading its MPEG liaison to Class A. He said the organization also should look at ITU-T liaison or direct representation. Mr. Richer said he was willing to take these ideas to the Board, but would require additional background and rationale. Miller said he would send Mr. Richer the backup information.

9. REPORT OF THE SPECIALIST GROUP ON DATA MULTIPLEX/TRANSPORT, T3/S8 (MARK EYER)

Mark Eyer (Sony) reported on current activities in the specialist group, which held its most recent meeting yesterday (**Attachment 6**).

9.1 Status of ATSC Ballot: Amendment 1 to A/65A

Mr. Eyer reported that Amendment 1 to A/65A dealing with Directed Channel Change was approved by the membership on August 12, and that the revised A/65A will be posted soon.

9.2 Status of ATSC Ballot: Amendment 2 to A/65A

Mr. Eyer reported that Amendment 2 to A/65A was approved by the membership on August 8 and will be posted to the ATSC Web site. Mr. Richer said that any comments relating to the no votes received will be submitted to T3/S8 for consideration.

9.3 Status of T3 Ballot: Amendment 2 to A/53B

Mr. Eyer reported that the T3 ballot on Amendment 2 to A/53B (Annex C) will close on August 17. Chairman Justus directed T3/S8 to address comments received during this ballot (if any).

9.4 Status of T3 Ballot: T3-581 Content Identification and Labeling

Mr. Eyer reported that the T3 ballot on the Proposed Standard "Content Identification and Labeling for ATSC Transport" was approved on August 8 by a vote of 12 yes, 5 no, and 1 abstention. Comments were received from 7 companies, some of which were substantive. Chairman Justus directed T3/S8 to analyze and address the comments received and to report back at the next T3 meeting on progress made.

9.4.1 Liaison Issues

Mr. Eyer said that a draft liaison letter to the convener of the ISO working group responsible for ISAN (and V-ISAN) has been developed (**Attachment 7**). He said the letter calls attention to the apparent restriction in the assignment of an ISAN value to Works (and thus services) not containing a video element, such as audio-only, data-only, or audio-data services contemplated by ATSC. He explained the letter is framed as a question, since the easiest way to resolve this issue is to have a ruling that the prohibition was not intended. Mr. Eyer reported that it was the consensus of T3/S8 that the letter should be sent, presumably under Mr. Richer's signature. Chairman Justus observed the consensus of T3 that this liaison work should go forward under the general guidelines outlined by T3/S8, with the final content of the letter at Mr. Richer's discretion.

9.5 Status of Work on Advanced EPG Functionality

Mr. Eyer reported that work continues on the Advanced EPG functionality effort, led by Gomer Thomas (Triveni). He said that all basic issues have been studied in some depth, with consensus reached on the general architecture of the proposed system. He said consensus also has been

achieved on many other issues, although significant details still remain to be resolved and considerable drafting work remains to be done.

Mr. Eyer went on to identify an intellectual property rights (IPR) issue relating to the Advanced EPG work. He said the specialist group would like to refer to the TV Anytime specification normatively in the Working Draft document. Mr. Eyer reported the consensus recommendation of T3/S8 that TV Anytime be added to the list of organizations to which ATSC documents may normatively reference. This suggestion was accepted by T3 and Chairman Justus asked Mr. Richer to take the request to the ATSC Board of Directors for approval. Mr. Richer explained that, in order to proceed, he would require certain background information on TV Anytime. Skip Pizzi (Microsoft) took an action item to provide support documentation to Mr. Richer.

9.6 Status of Work on Generalized Transport of Metadata

Mr. Eyer reported that the AHG on Generalized Transport of Metadata, chaired by Richard Chernock (IBM) is in the process of preparing a working document. Specific attention has been given to terminology and timelines (emitted timeline, show timeline, and work timeline). He said much of this work depends on a draft MPEG-2 amendment, which is now working its way through the MPEG document cycle. He said the AHG plans to complete a Working Draft by late winter.

9.7 Status of Work on Transport Issues Related to Enhanced 8-VSB Transmission

Mr. Eyer reported that the AHG on Transport Issues for Robust Transport, chaired by Mr. Allison, continues to hold regular meetings. He said the group is developing an outline to capture transport design and specification issues.

9.8 Status of Work on Review of Transport Sections of A/54

Mr. Eyer reported that progress continues to be made on updating the transport-related sections of A/54. He said the AHG, chaired by Mr. Chernock, has completed its work on Section 4 (Introduction and Overview) and is continuing to work on Section 8 (MPEG Transport Issues). It is the goal of the AHG to complete this effort before the end of the year.

Chairman Justus asked John Henderson (Hitachi), chair of T3/S10, to provide an update on the work of his specialist group on the A/54 revision. Mr. Henderson reported that work continues on Section 10 dealing with receiving systems. He said the group is meeting on a regular basis via teleconference, and that T3/S10 expects to complete its work prior to year-end.

9.9 Other Work Items

Mr. Eyer briefed the committee on a discussion held at yesterday's T3/S8 meeting regarding a request for a dedicated PID that would be used to identify individual transmitters in a distributed transmission system, being considered by T3/S9. He asked Merrill Weiss (Tribune) to brief the committee on the issues involved. Mr. Eyer suggested that this request might be appropriate for the Architecture Team. Chairman Justus agreed, and the issue was deferred to the discussion of the Architecture Team, Item 15.2.

10. REPORT OF THE SPECIALIST GROUP ON RF TRANSMISSION, T3/S9 (JOHN TOLLEFSON)

John Tollefson (PBS) provided an overview of the work underway in the specialist group (**Attachment 8**).

10.1 Status of Robust Mode and Enhance Training Sequence Responses

Mr. Tollefson reported that T3/S9 last met on July 17, 2002. He said Broadcom has overcome some early hardware problems and is now supplying equipment for testing an enhanced training

sequence system. He added there have been no changes in the NxtWave/Zenith or Philips robust mode systems.

10.2 Status of Distributed Transmission Response

Mr. Tollefson reported that the subgroup led by Merrill Weiss has refined the distributed transmission (DX) Working Draft, and that implementation of a DX system is underway in Pennsylvania. He reminded the committee that the DX Working Draft is being considered separately from the effort to develop VSB enhancements, and that some technical and procedural issues are being discussed within T3/S9.

10.3 Lab and Field Testing Status

Mr. Tollefson updated the committee on the status of laboratory and field testing of proposed VSB enhancements, specifically:

- The NxtWave/Zenith and Philips systems laboratory testing is complete.
- The Broadcom system will be tested in the lab and partially in the field.

Mr. Tollefson reported that the lab test analysis sub-group, led by Robert Seidel (CBS), has nearly completed its work. He added that there exists a broad range of opinion within T3/S9 regarding the effectiveness of the robust mode.

Regarding field testing, Mr. Tollefson reported that:

- Certain equipment problems which slowed field testing have now been resolved.
- The 40 test sites in the Washington D.C. area have nearly been completed. Those sites include outdoor, indoor (bowtie), and portable (dipole) measurements. He added that some pedestrian tests will be made.
- The next location for field testing is New Haven, CT.

Mr. Tollefson said the target date for the completion of field tests is the end of September. He reminded the group that VETC has cautioned T3/S9 (and others) to not draw conclusions only from lab test results, explaining that a more complete picture will emerge following field tests.

10.4 S8 Liaison

Mr. Tollefson reported on the liaison work with T3/S8 relating to transport system issues inherent in robust mode transmission. He said the ad-hoc group, led by Mr. Allison, has developed a set of requirements and is meeting regularly to address the issues involved.

10.5 A/54 Revised Draft status

Mr. Tollefson reported that progress continues to be made on revision of Section 9 of A/54 relating to transmission. The ad-hoc group, led by Wayne Bretl (Zenith), expects to complete its work within the next couple of months.

10.6 Schedule

Mr. Tollefson provided an update on the T3/S9 schedule, which he said has been impacted by testing delays. Specific milestones include the following:

- Field testing report analysis expected by end of November 2002
- Recommendations to T3 on standard likely in early 2003
- Recommendations to T3 regarding DX standard may come sooner

The next meeting of T3/S9 is set for August 28, 2002.

11. REPORT OF THE SPECIALIST GROUP ON DATA BROADCAST, T3/S13 (MIKE DOLAN)

Mike Dolan (TerraByte Technology), chair of T3/S13, briefed the committee on the work of the specialist group (**Attachment 9**).

11.1 TSFS Ballot Status

Mr. Dolan reported that the Transport Stream File System Working Draft is still out for T3 ballot, which closes on August 15. Chairman Justus directed T3/S13 to handle any comments received during the ballot.

11.2 ARM Ballot Status

Mr. Dolan reported that the Application Reference Model Proposed Standard is still out for ATSC ballot, which closes on August 16.

11.3 A/90 Errata Task Update

Mr. Dolan reminded the group that an update is planned for ATSC Standard A/90. He said, however, that no progress has been made recently due to summer vacation schedules. Mr. Dolan went on to outline a plan for moving forward, which includes regular teleconferences to divide up the work and begin drafting an amendment.

11.4 Robust Mode Task Update

Mr. Dolan reported that T3/S13 has developed plans for coordinating with the T3/S8 Ad Hoc Group on Transport Issues for Robust Transport. He said joint T3/S8-T3/S13 teleconferences will begin on August 20.

12. REPORT OF THE SPECIALIST GROUP ON SATELLITE BROADCAST, T3/S14-A (DIPAK SHAH)

Dipak Shah (DirecTV), chair of T3/S14A, was unable to attend today's meeting due to scheduling conflicts; however, he did send a brief status report, which Chairman Justus summarized.

12.1 Status Report

The primary work of T3/S14A since the last T3 meeting has been to refine the Working Draft Direct-to-Home Satellite specification. Mr. Whitaker has been enlisted to assist in addressing certain editorial items, with the goal that a reasonably complete document will be available to T3 for review prior to the October 8 meeting.

13. REPORT OF THE SPECIALISTS GROUP ON TRANSACTIONAL SERVICES, T3/S16 (EDWIN HEREDIA)

Edwin Heredia (Microsoft), chair of T3/S16 provided an update on activities within the specialist group.

13.1 Status Report

Mr. Heredia reported on work within the specialist group to standardize the parameters necessary to provide digital broadcast interactive services. Emphasis of work includes:

- Defining the protocols and minimum performance of transport facilities and lower layers for the return channel
- Defining downstream protocols needed to support interactive services

Mr. Heredia said T3/S16 is working to develop a standard that specifies protocols using a combination of broadcast download channels and an interactive two-way channel. He went on to outline a practical home LAN architecture and necessary protocol elements. Mr. Heredia also briefed the committee on the planned protocol modules and layers. He said that work is

continuing through meetings and teleconferences. The next meeting of T3/S16 will be held tomorrow in Washington, D.C.

The meeting broke for lunch at 11:36 a.m.

The meeting resumed at 12:30 p.m.

14. REPORT OF THE SPECIALIST GROUP ON DASE, T3/S17 (GLENN ADAMS)

Glenn Adams (XFSD), chair of T3/S17, provided an update on the work of the specialists group (**Attachment 10**).

14.1 Status Report

Mr. Adams briefed the committee on the changes integrated into the DASE-1 suite of standards since it was elevated to Candidate Standard status. He said that in addition to editorial cleanup, a number of substantive changes were made, including:

- Clarifications, modifications, and additions resulting from internal T3/S17 review
- Implementation feedback from the Korean trials
- Harmonization improvements, including core Java APIs (e.g., java.beans, java.text, java.io), XHTML Basic, Key Events, and Navigation Style Properties.

Mr. Adams called members attention to the revised version of DASE-1, which was distributed to the T3 reflector on July 23, 2002 (**Attachment 11**). He pointed out that each of the eight parts now contains a “Changes” section at the end of the part, which enumerates the changes from the version elevated to Candidate Standard by T3 at the December 5, 2001 meeting.

Mr. Adams also noted that DASE-1 contains normative references to two specifications which have not been finalized: 1) the ARM specification, presently out for ATSC member ballot; and 2) the DOM-2 HTML specification produced by the W3C, presently being transitioned from Candidate Recommendation to Proposed Recommendation. He said these specifications are expected to be finalized prior to final publishing of DASE-1, once it has passes a ballot of the full ATSC membership.

14.1.1 DASE/OCAP Harmonization

Mr. Adams reported that progress has been made on defining the scope and priorities for harmonization of the DASE suite of standards (currently at Candidate Standard status) with the CableLabs Open Cable specification. He said that a detailed technical discussion was held on July 31 and August 1 in Mountain View, Calif. The next meeting of the group is set for October 11 in Washington, D.C.

Mr. Adams expressed optimism that progress would continue to be made on DASE/OCAP harmonization.

14.1.2 Extensions to DASE-1

Mr. Adams outlined possible extensions to DASE-1 that have been discussed within the specialist group. These include:

- *Interaction Channel Option (ICO)*, which accelerates the schedule for the highest priority DASE-2 work items, including a return channel option for DASE-1. Dependencies include DASE-1, JSSE (Sun), and Interaction Channel Protocols (T3/S16).
- *GEM Compatibility Option (GCO)*, which is needed to harmonize the common core for procedural functionality among DASE/OCAP/MHP. Dependencies include DASE-1, Interaction Channel Option (T3/S17), GEM (DVB MUG), and Transport/Signaling (T3/S13).

Mr. Adams explained that these proposed extensions would be in the form of stand-alone documents that add specific features to DASE-1, and as such would go through the usual ATSC standards development process.

Chairman Justus observed consensus on the part of T3 for T3/S17 to proceed in this manner.

14.2 Request Approval of DASE-1 as Proposed Standard

Mr. Adams called upon Kwangkee Lee (Samsung) to brief the committee on correspondence to Chairman Justus and T3 regarding DASE-1 (**Attachment 12**). Mr. Lee explained that the correspondence strongly urged T3 to elevate DASE-1 to Proposed Standard; it was signed by the following persons:

- Jinwoong Kim, Director, ETRI
- Daekap Kang, Deputy Director, KBS Technical Research Institute
- Youngsik Kim, Chief Engineer, SBS Institute of Technology
- Jongseok Park, Vice President, Director of DTV Research Lab., LG Electronics
- Kyungoh Min, Vice President, Visual Display Division, Samsung Electronics
- Dongbok Lee, CTO, Aircode
- Joohyeon Ryu, Head of R and D, Alticast

Mr. Lee noted that the Korean DTV industry had recently completed a successful trial implementation of the DASE-1 Candidate Standard during the World Cup. Based on those trials, the undersigned expressed “strong support for this promotion, and recommend T3 to expedite DASE-1 towards the status of ATSC Standard as quickly as possible.”

Mr. Adams, on behalf of T3/S17, **moved** that DASE-1 (PS/100-1 through PS/100-8, dated July 23, 2002) be forwarded to a vote of the ATSC membership as a Proposed Standard. **Second** by Mr. Seidel. Discussion on the motion followed. Mr. Allison suggested that DASE-1 should not move to a membership ballot without a formal comment period. Mr. Adams responded that this point was discussed by T3/S17, and it was felt that no further input would be likely from a comment period which extended beyond the 7 months that DASE-1 had already been a Candidate Standard.

Before proceeding further, Jeff Krauss (NCTA) suggested that a discussion of DASE/OCAP harmonization would be appropriate. Chairman Justus agreed, and asked Mr. Richer to brief the committee on the DASE/OCAP effort. Mr. Richer provided a detailed summary of the work accomplished to date, saying that issues have been identified and that the work has been generally divided into four areas:

- Procedural engine
- Declarative engine
- Transport issues
- Interactive channel protocols

Mr. Richer said it was apparent to many participants that taking a high-level approach to solving interoperability issues would be the best route to follow. He went on to outline the events leading up to correspondence received from Richard Green of Cable Labs (**Attachment 13**) and Ulrich Reimers of DVB (**Attachment 14**). He observed that while there are a number of details that would need to be resolved, the suggested approach shows promise. Mr. Richer recommended that T3 provide a positive response to these overtures, and that he be directed to work with Dr. Green and Prof. Reimers as appropriate.

Mr. Richer went on to outline the options available to T3 with regard to DASE-1, which include:

- 1) Elevation of DASE-1 to Proposed Standard status
- 2) Elevation of DASE-1 to Proposed Standard with certain caveats
- 3) Leave DASE-1 as a Candidate Standard until the next T3 meeting
- 4) Return DASE-1 to Working Draft status

Chairman Justus opened the floor for further discussion. Views were expressed by a number of committee members, both in support of the motion and in opposition to it.

Chairman Justus called the question. The motion was **approved** on a roll call vote: 20 yes, 3 no, 4 abstain. Chairman Justus thanked T3/S17 and Mr. Adams for their hard work on DASE-1.

14.3 DASE-2 Development Status

Mr. Adams reported that the schedule of DASE-2 has been impacted by DASE-1 Proposed Standard finalization and harmonization activities. He said that defining ICO and GCO will take pressure off of quick delivery of DASE-2, allowing more time to address lower-priority work items for DASE-2.

14.4 DASE/OCAP Harmonization

Mr. Griffiths began discussion on this item saying that he thought that the proposal from CableLabs is a positive step and that ATSC should make a positive response.

Mr. Richer said his recommendation to T3 is a very positive response, which should include an explanation that the approval of DASE-1 today to Proposed Standard should in no way be interpreted as a lack of interest in the proposal that Dr. Green has put on the table. He said, rather, it is the culmination of a lot of hard work over a long period of time. Furthermore, Mr. Richer suggested that the response state that T3 is open to substantive changes, even ones that may not be compatible, if it brings us closer to our goal of interoperability and common specifications with the cable industry. He added that the letter should reflect T3's view that the harmonization framework proposed by CableLabs is a strategy worth pursuing.

Mr. Adams **moved** that Mr. Richer be directed to inform CableLabs that T3 strongly endorses the concept of DASE/OCAP harmonization, that he lead the discussions with Dr. Green and, and that he be directed to work with the DASE/OCAP team to put together a work plan on how harmonization goals can be achieved. **Second** by Mr. Miller. Mr. Dolan spoke in favor of the motion, saying that harmonization with CableLabs is an important activity that should go forward. He went on to suggest that the ATSC liaison to SCTE should inform the Society of this development, and encourage SCTE and CableLabs to get together on the work. The motion was **approved** unanimously on a voice vote.

Chairman Justus observed the consensus of T3 that Mr. Richer's response to the message from Prof. Reimers of DVB should be similar in nature to that already agreed to for CableLabs. Mr. Allison suggested that, as a matter of procedure, the ATSC response to DVB should be that we will first work with CableLabs, followed by harmonization work with DVB. Chairman Justus observed the sense of T3 that the response to DVB should be at the discretion of Mr. Richer.

14.5 DASE Compliance

Mr. Richer identified another area of DASE-1 that will need to be addressed, specifically DASE compliance and testing. He said preliminary discussions have taken place at the Board level on this issue; options include ATSC, CEA, or an outside 3rd party. Mr. Richer suggested that it might be appropriate to form a high-level CEA/ATSC group that includes Mr. Adams and Mr.

Courtney. He added that anyone interested in participating in a group of this type should contact him.

15. OTHER BUSINESS

15.1 SCTE Liaison

Mr. Allison, the ATSC liaison to SCTE, reported that the Society has sent forward DVS-161, which includes aggregated DETs and references A/90, to ballot. Mr. Allison said the references to ATSC work is encouraging.

Mr. Allison went on to suggest that SCTE liaison might prove useful in harmonization work with OCAP. Mr. Richer cautioned that the immediate work on harmonization should be between ATSC and CableLabs. He agreed, however, that SCTE will likely play a role further down the road.

15.2 Architectural Team Status

Mr. Dolan provided background on the Architectural Team effort, and briefed the committee on the proposed scope of the Team (**Attachment 15**). In response to questions from committee members, Mr. Dolan expanded upon the planned area of work for the Architecture Team. Mr. Richer said he thought this was a good idea for a number of reasons, including provision of technical support to the ATSC staff. Mr. Dolan **moved** that the proposed scope be accepted. **Second** by Mr. Pizzi. The motion was **approved** on a voice vote. Chairman Justus tasked Mr. Dolan to lead the initial meeting of the group.

15.3 FCC NOI on DTV Copy Protection

Mr. Krauss noted the issuance by the FCC of a Notice of Inquiry relating to copy protection. Mr. Richer said it might be appropriate for ATSC to file comments, a function that is subject to approval by the Board. He said he would pursue this issue at the Board level.

16. SCHEDULE OF NEXT T3 MEETINGS

The next meeting of the Technology Group on Distribution will be held on October 8, 2002, in the Washington, D.C. area. The final meeting of the year is set for December 2, 2002.

17. ADJOURNMENT

There being no further business, the meeting was adjourned at 3:00 p.m.

Action Items Developed at this Meeting

- 1) Miller to post a “call for participants” note to the T3 reflector, and other ATSC reflectors as appropriate, to facilitate the work of T3/S6.
- 2) Eyer to report to T3/S8 that the specialist group is directed to address comments received during the T3 ballot on Amendment 2 to A/53B (Annex C), if any.
- 3) Eyer to report to T3/S8 that the specialist group is directed to analyze and address comments received during the T3 ballot of the Proposed Standard “Content Identification and Labeling for ATSC Transport” and to report back at the next T3 meeting on progress made.
- 4) Richer to report to the Board of Directors the recommendation of T3 that TV Anytime be added to the list of approved organizations to which ATSC documents may normatively reference.
- 5) Pizzi to provide certain background information to Richer regarding TV Anytime for the purpose of facilitating Action Item 4.
- 6) Dolan to report to T3/S13 that the specialist group has been directed to analyze and address comments received during the T3 ballot of the Transport Stream File System document, if any, and to report back to T3 at its next meeting.
- 7) Adams to forward to ATSC staff the DASE-1 suite of documents, as approved at this meeting, for the purpose of a vote of the full membership of ATSC as a Proposed Standard.
- 8) Mr. Richer to inform CableLabs that T3 strongly endorses the concept of DASE/OCAP harmonization, that he lead the discussions with Dr. Green and, and that he to work with the DASE/OCAP team to put together a work plan on how harmonization goals can be achieved.
- 9) Richer to respond to correspondence from Prof. Reimers of DVB regarding DASE/MHP harmonization, as appropriate.
- 10) Adams to report to T3/S17 that it is the consensus of T3 that the Interaction Channel Option (ICO) and GEM Compatibility Option (GCO) to DASE-1 should be given top priority within the specialist group.
- 11) Dolan to lead the initial organizational meeting of the Architectural Team, and to report that T3 has accepted the scope of work as submitted.

Attachment Links

Attachment 1: Attendance List

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_1_attendance.doc

Attachment 2: Draft Agenda

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_2_draft_t3_agenda_8_14_02.doc

Attachment 3: Minutes from June 25 Meeting

http://www.atsc.org/sg/T3/2002_06_25/T3_579_minutes_6_25_02.pdf

Attachment 4: Status of Ballots

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_4_ballot_status_8_12_02.pdf

Attachment 5: T3/S6 Status Report

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_5_T3S6_Report.doc

Attachment 6: T3.S8 Status Report

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_6_S8_Status_Report_8-14.ppt

Attachment 7: Draft ISAN Liaison Letter

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_7_Liaison_ATSC_ISAN_draft3.doc

Attachment 8: T3/S9 Status Report

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_8_T3S9Report_8_14_02.ppt

Attachment 9: T3/S13 Status Report

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_9_S13_201R0_Status.ppt

Attachment 10: T3/S17 Status Report

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_10_S17_STATUS_20020814.ppt

Attachment 11: DASE-1 Standards Suite (revised)

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_11_DASE_1_PS_20020723-PDF.zip

Attachment 12: Correspondence to Chairman Justus Relating to DASE-1

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_12_Letter2ATSC_T3.pdf

Attachment 13: Richard Green Correspondence regarding DASE/OCAP

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_13_DASE-OCAP_Harmonization_Framework4.doc

Attachment 14: Correspondence from Ulrich Reimers regarding DASE/OCAP

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_14_ATSC_T3_FW_OCAPDAS_EMHP.doc

Attachment 15: Architecture Team Scope

http://www.atsc.org/sg/T3/2002_08_14/Documents/Attachment_15_Architecture_Team_Proposed_Scope_and_Organization.txt