
Approved Minutes
Advanced Television Systems Committee, Inc.
Board of Directors Meeting
National Association of Broadcasters, Washington, DC
May 14, 2002

1. Call to Order; Determination of Quorum; Approval of Agenda

Chairman Phil Livingston called the meeting to order at 1:00 PM at the NAB in Washington, DC. Attendees and phone participants introduced themselves (**Attachment 1**).

Mr. Livingston clarified that item 8 would be discussed as a subheading with item 7 the report on the Membership committee. The agenda was approved and is **Attachment 2**.

2. Comments of the Chairman

Mr. Livingston welcomed everyone.

3. Approval of the Draft Minutes of March 7, 2002.

The drafts Minutes of the Board meeting on March 7, 2002 were approved.

4. Report of the President

a) Membership Report

Mr. Richer presented the membership report (**Attachment 3**).

b) Status of Letter Ballots

Mr. Richer reported the status of letter ballots (**Attachment 4**). He noted that the recently approved Synchronous/Asynchronous Trigger Standard (A/93) is available on the website.

c) Financial Report

Mr. Richer gave the financial report for 2002 as of the end of April (**Attachment 5**). d) NAB2002

Mr. Richer reported that the DTV Store exhibit sponsored by ATSC, CEA, and NAB at the NAB convention in April 2002 was a great success. He thanked the booth sponsors: ATSC Forum, Decisionmark, Digital Stream Technology, Dolby, HDTV Magazine, LG Electronics, Mitsubishi, Panasonic, Philips, Samsung, Sencore, Sharp, Sony, Thomson, and Zenith. He also thanked Zenith for providing the support of Juergen Wiedel. He applauded the DASE demonstration provided by KBS, and closed caption demonstrations.

Mr. Richer noted that there were many ATSC-related papers, and demonstrations of new ATSC related technology at the convention.

Mr. Livingston reported that the ATSC/ARIB meeting held during the convention was informative. He said the ARIB has made a lot of progress in the development of their DTV Standards.

5. Annual Meeting

Mr. Richer announced that over 100 people are registered to attend the annual meeting tomorrow and he encouraged people to attend the reception following this meeting at 5:30 PM. He thanked the Board members who help to line up the speakers and panelists. He also

thanked the meeting sponsors; ATSC Forum, Decisionmark, Harmonic, Microsoft, Tandberg & Zenith.

6. Budget and Finance Committee

Lynn Claudy, chair of the Budget and Finance Committee reported that the group recommends a revision to the dues structure to add individual observers (**Attachment 6**). Mr. Richer explained that the Bylaws allow individuals to become Observer Class Members, but we do not have a specific dues rate for this category. Peter Symes moved that the Board adopt the proposed revision to the dues structure to add a category for individual observers. The motion was seconded and approved.

7. Nominating Committee

Jay Adrick, chair of the Nominating Committee reported that he had heard from many of the Board members regarding whether or not they were interested in being a member of the nominating committee. Mr. Adrick proposed that Brian Smith and Michael McEwen be nominated to fill the Board seats on the nominating committee since they had volunteered. He added that he would solicit all members to fill the non-Board seats on the Nominating Committee. Wayne Luplow moved that Brian Smith and Michael McEwen be appointed to the 2 Board seats on the Nominating Committee. The motion was seconded and approved.

8. Membership Committee

Jay Adrick, chair of the Membership Committee reported (**Attachment 7**) that the group had met on May 7 to review and take action on the goals set forth by the Board. The group decided to conduct a survey via email for input. They also agreed to recommend that the Board restrict access to email reflectors and phone bridges and sections of the website to only members. By doing so, it will be more equitable to those organizations paying for the maintenance of these services via their dues, and it will tangibly demonstrate membership benefits.

Discussion followed on a proposed Access Policy for Website, Email Reflectors and Conference Bridge. Mr. Richer said that the policy is fair because the dues structure is scaled to facilitate membership of organizations and individuals with a direct & material interest in the work of ATSC. Mr. Richer reported that the policy regarding access to the ATSC website, email reflectors and conference bridges has been reviewed by ATSC counsel and it was deemed "reasonable". He added that this policy would enhance member benefits. Some members voiced concern that this may hamper the work at the specialist group levels where experts are encouraged to participate. Mr. Richer noted the clause in the proposed policy granting the ATSC President the ability to exercise exceptions for non-members. Joseph Flaherty moved that the Board adopt the proposed access policy with an addition to indicate that the Board may establish reflectors for its own use and a provision to provide a one-time access trial period for prospective members. The motion was seconded and approved. Tom Hankinson and Glenn Reitmeier voted against the motion.

Staff will begin work to implement the policy and non-members will be notified of the new policy and invited to join ATSC. A transition period of 30 to 60 days will be necessary. The policy with the modifications is **Attachment 8**.

9. Interoperability Ad hoc Report

Mr. Richer reported that the ad hoc group had completed a document that now contained input from NCTA. He said that Craig Tanner had resigned from chairing the group and that he has moderated the last two conference calls, while Jerry Whitaker has become editor of the document. Victor Tawil, MSTV, and Pat Griffis, Microsoft, commended the ad hoc and NCTA for a very informative and well-balanced document. Andy Scott said that NCTA appreciated the opportunity to participate and believed a balance was achieved. He requested a few more days to circulate the document among NCTA members before there is wider circulation of the document. Ralph Justus moved to grant editorial privilege to Mark Richer and Jerry Whitaker if comments come in over the next seven days. The motion was seconded and unanimously approved. The title of the document will be "ATSC Board of Directors-Status of Digital Cable Interoperability" The report will be placed on the ATSC website (**Attachment 9**). Mr. Richer said that staff would issue a simple press release.

10. Goals for 2002

Mr. Richer reviewed the status of the goals for 2002. He noted that many things have been or are in the process of being implemented. He reported that a contract to lease a phone bridge has been signed and it will be installed in June or July.

11. Report of the Technology Group

Ralph Justus reported on the status of T3 (**Attachment 10**). He pointed out that T3 had formally commended Bernie Lechner's work as T3/S6 chair since 1994. The Board also acknowledged his many contributions with applause. The new chair of T3/S6 is Mark Eyer of Sony.

The name change was discussed. Victor Tawil moved that T3 should retain its name of Technology Group on Distribution. The motion was seconded but the vote failed. No alternative names were nominated.

12. Report of the Implementation Subcommittee

Mr. Allison reported on the status of IS activities. He said that recent IS meetings have been lightly attended, but that work is taking place. He reported on an IS Finding (Doc. IS-235) regarding latency on distribution from networks that is now on the website. He also noted that the FAQ is complete and will be placed on the website.

13. Report of the Applications Subcommittee

Ira Goldstone, Tribune, said that the AS had met previously that morning. He reported that the group had a very productive discussion on possible capabilities of an "ideal" receiver, and that AS will be conducting a survey on what should be in a receiver and what services it should provide.

14. DASE Mr. Richer said that the Board needs to begin work on issues related to DASE conformance such as arranging for a custodian for the necessary test suites. He said that ATSC needs to enter into an agreement with Sun and possibly a third party. He recommended that a small working group be formed to work with him on these issues. Ralph Justus offered to arrange for some CEA members to contact Mark for this effort.

15. Appointment of New Liaison to SCTE and to MPEG

Ralph Justus moved that Art Allison be appointed the new liaison to SCTE. The motion was seconded and approved.

Art Allison moved that Sam Narasimhan be appointed liaison to MPEG replacing Regis Crinon. The motion was seconded and approved.

16. ATSC Forum Liaison Report

Mr. Richer reported that he is participating on the ATSC Forum Board of Directors. He noted that the Forum has been active hosting events and workshops at NAB2002. The Forum has been working with the US Trade Development Agency to facilitate meetings with different companies and the FCC for a visiting Latin American delegation. . The Forum's big initiative will be at CITELE this July in Brazil where there will be a concerted effort to promote adoption of the ATSC standard for the hemisphere. Jay Adrick said that visits to Latin America would begin next week.

17. Other Business

Ralph Justus requested a report of ATTC activities at the next Board meeting.

Mark Richer said that he has tried to arrange a meeting with the FCC regarding Homeland Security as it relates to DTV, but has not yet been successful. Mr. Richer said that he will be attending the T3/S17 DASE meeting in Seoul, Korea next week. He noted the significant work being done in Korea and the upcoming DASE trials during the World Cup next month.

Carol Darling of CDTV reported on activities taking place in Canada. She said that CDTV has reorganized in an effort to decide policy issues and is now set up for official voting rather than functioning in consensus mode. She said that with this adjustment, CDTV lost cable membership, but increased broadcaster membership. However, CDTV is working to include cable participation. She said that regulators might announce some DTV decisions in June. She also reported on the experimental transmitter in Toronto currently functioning for internal educational purposes while simultaneously gearing up for external demonstrations. In Montreal, a transmitter was poised to go into operation but the government refused the channel based on protests of concern from the mobile community.

Joseph Flaherty suggested that the ATSC Board hold an executive session during each of its meetings. .

18. Schedule of Board of Director Meetings

Following is the schedule for ATSC Board of Directors meetings in 2002:

June 27 (Chicago at Tribune); Aug. 15; Oct. 22 (PM only) in LA; Dec. 18.

Also in Chicago at Tribune are a T3 meeting on June 25 and an AS meeting on June 26.

Mr. Livingston said that he has a conflict with the June 27 date and asked that one of the vice chairs to run that meeting.

19. Adjournment

Mr. Livingston thanked NAB for hosting the meeting. The meeting was adjourned at 4:15 PM.

Attachments

- Attachment 1: Attendance list
- Attachment 2: Draft agenda
- Attachment 3: ATSC Membership report
- Attachment 4: Letter Ballot report
- Attachment 5: Financial report
- Attachment 6: Finance and Budget Committee report
- Attachment 7: Membership Committee report
- Attachment 8: Access to Website, Email Reflectors and Phone Bridge Policy
- Attachment 9: Board's Status Report on Interoperability
- Attachment 10: T3 report

DRAFT Minutes
Advanced Television Systems Committee, Inc.
Board of Directors Meeting
National Association of Broadcasters, Washington, DC
May 14, 2002

1. Call to Order; Determination of Quorum; Approval of Agenda

Chairman Phil Livingston called the meeting to order at 1:00 PM at the NAB in Washington, DC. Attendees and phone participants introduced themselves (**Attachment 1**).

Mr. Livingston clarified that item 8 would be discussed as a subheading with item 7 the report on the Membership committee. The agenda was approved and is **Attachment 2**.

2. Comments of the Chairman

Mr. Livingston welcomed everyone.

3. Approval of the Draft Minutes of March 7, 2002.

The drafts Minutes of the Board meeting on March 7, 2002 were approved.

4. Report of the President

a) Membership Report

Mr. Richer presented the membership report (**Attachment 3**).

b) Status of Letter Ballots

Mr. Richer reported the status of letter ballots (**Attachment 4**). He noted that the recently approved Synchronous/Asynchronous Trigger Standard (A/93) is available on the website.

c) Financial Report

Mr. Richer gave the financial report for 2002 as of the end of April (**Attachment 5**).

d) NAB2002

Mr. Richer reported that the DTV Store exhibit sponsored by ATSC, CEA, and NAB at the NAB convention in April 2002 was a great success. He thanked the booth sponsors: ATSC Forum, Decisionmark, Digital Stream Technology, Dolby, HDTV Magazine, LG Electronics, Mitsubishi, Panasonic, Philips, Samsung, Sencore, Sharp, Sony, Thomson, and Zenith. He also thanked Zenith for providing the support of Juergen Wiedel. He applauded the DASE demonstration provided by KBS, Samsung, LG Electronics, Aircode, iCube and Alticast; and, the closed caption demonstration provided by NCAM and Zenith.

Mr. Richer noted that there were many ATSC-related papers, and demonstrations of new ATSC related technology at the convention.

Mr. Livingston reported that the ATSC/ARIB meeting held during the convention was informative. He said the ARIB has made a lot of progress in the development of their DTV Standards.

5. Annual Meeting

Mr. Richer announced that over 100 people are registered to attend the annual meeting tomorrow and he encouraged people to attend the reception following this meeting at 5:30 PM.

He thanked the Board members who helped to line up the speakers and panelists. He also thanked the meeting sponsors; ATSC Forum, Decisionmark, Harmonic, Microsoft, Tandberg and Zenith.

6. Budget and Finance Committee

Lynn Claudy, chair of the Budget and Finance Committee reported that the group recommends a revision to the dues structure to add individual observers (**Attachment 6**). Mr. Richer explained that the Bylaws allow individuals to become Observer Class Members, but we do not have a specific dues rate for this category. Peter Symes moved that the Board adopt the proposed revision to the dues structure to add a category for individual observers. The motion was seconded and approved.

7. Nominating Committee

Jay Adrick, chair of the Nominating Committee reported that he had heard from many of the Board members regarding whether or not they were interested in being a member of the nominating committee. Mr. Adrick proposed that Brian Smith and Michael McEwen be nominated to fill the Board seats on the nominating committee since they had volunteered. He added that he would solicit all members to fill the non-Board seats on the Nominating Committee. Wayne Luplow moved that Brian Smith and Michael McEwen be appointed to the 2 Board seats on the Nominating Committee. The motion was seconded and approved.

8. Membership Committee

Jay Adrick, chair of the Membership Committee reported (**Attachment 7**) that the group had met on May 7 to review and take action on the goals set forth by the Board. The group decided to conduct a survey via email for input. They also agreed to recommend that the Board restrict access to email reflectors and phone bridges and sections of the website to only members. By doing so, it will be more equitable to those organizations paying for the maintenance of these services via their dues, and it will tangibly demonstrate membership benefits.

Discussion followed on a proposed Access Policy for Website, Email Reflectors and Conference Bridge. Mr. Richer said that the policy is fair because the dues structure is scaled to facilitate membership of organizations and individuals with a direct and material interest in the work of ATSC. Mr. Richer reported that the policy regarding access to the ATSC website, email reflectors and conference bridges has been reviewed by ATSC counsel and it was deemed "reasonable". He added that this policy would enhance member benefits. Some members voiced concern that this may hamper the work at the specialist group levels where experts are encouraged to participate. Mr. Richer noted the clause in the proposed policy granting the ATSC President the ability to exercise exceptions for non-members. Joseph Flaherty moved that the Board adopt the proposed access policy with an addition to indicate that the Board may establish reflectors for its own use and a provision to provide a one-time access trial period for prospective members. The motion was seconded and approved.

Staff will begin work to implement the policy and non-members will be notified of the new policy and invited to join ATSC. A transition period of 30 to 60 days will be necessary. The policy with the modifications is **Attachment 8**.

9. Interoperability Ad hoc Report

Mr. Richer reported that the ad hoc group had completed a document that now contained input from NCTA. He said that Craig Tanner had resigned from chairing the group and that he has moderated the last two conference calls, while Jerry Whitaker has become editor of the document. Victor Tawil, MSTV, and Pat Griffis, Microsoft, commended the ad hoc and NCTA for a very informative and well-balanced document. Andy Scott said that NCTA appreciated the

opportunity to participate and believed a balance was achieved. He requested a few more days to circulate the document among NCTA members before there is wider circulation of the document. Ralph Justus moved to grant editorial privilege to Mark Richer and Jerry Whitaker if comments come in over the next seven days. The motion was seconded and unanimously approved. The title of the document will be "ATSC Board of Directors-Status of Digital Cable Interoperability". The report will be placed on the ATSC website (**Attachment 9**). Mr. Richer said that staff would issue a simple press release.

10. Goals for 2002

Mr. Richer reviewed the status of the goals for 2002. He noted that many things have been or are in the process of being implemented. He reported that a contract to lease a phone bridge has been signed and it will be installed in June or July.

11. Report of the Technology Group

Ralph Justus reported on the status of T3 (**Attachment 10**). He pointed out that T3 had formally commended Bernie Lechner's work as T3/S6 chair since 1994. The Board also acknowledged his many contributions with applause. The new chair of T3/S6 is Mark Eyer of Sony.

The name change was discussed. Victor Tawil moved that T3 should retain its name of Technology Group on Distribution. The motion was seconded but the vote failed. No alternative names were nominated.

12. Report of the Implementation Subcommittee

Mr. Allison reported on the status of IS activities. He said that recent IS meetings have been lightly attended, but that work is taking place. He reported on an IS Finding (Doc. IS-235) regarding latency on distribution from networks that is now on the website. He also noted that the FAQ is complete and will be placed on the website.

13. Report of the Applications Subcommittee

Ira Goldstone, Tribune, said that the AS had met previously that morning. He reported that the group had a very productive discussion on possible capabilities of an "ideal" receiver, and that AS will be conducting a survey on what should be in a receiver and what services it should provide.

14. DASE

Mr. Richer said that the Board needs to begin work on issues related to DASE conformance such as arranging for a custodian for the necessary test suites. He said that ATSC needs to enter into an agreement with Sun and possibly a third party. He recommended that a small working group be formed to work with him on these issues. Ralph Justus offered to arrange for some CEA members to contact Mark for this effort.

15. Appointment of New Liaison to SCTE and to MPEG

Ralph Justus moved that Art Allison be appointed the new liaison to SCTE. The motion was seconded and approved.

Art Allison moved that Sam Narasimhan be appointed liaison to MPEG replacing Regis Crinon. The motion was seconded and approved.

16. ATSC Forum Liaison Report

Mr. Richer reported that he is participating on the ATSC Forum Board of Directors. He noted that the Forum has been active hosting events and workshops at NAB2002. The Forum has

been working with the US Trade Development Agency to facilitate meetings with different companies and the FCC for a visiting Latin American delegation. The Forum's big initiative will be at CITELE this July in Brazil where there will be a concerted effort to promote adoption of the ATSC standard for the hemisphere. Jay Adrick said that visits to Latin America would begin next week.

17. Other Business

Ralph Justus requested a report of ATTC activities at the next Board meeting.

Mark Richer said that he has tried to arrange a meeting with the FCC regarding Homeland Security as it relates to DTV, but has not yet been successful. Mr. Richer said that he will be attending the T3/S17 DASE meeting in Seoul, Korea next week. He noted the significant work being done in Korea and the upcoming DASE trials during the World Cup next month.

Carol Darling of CDTV reported on activities taking place in Canada. She said that CDTV has reorganized in an effort to decide policy issues and is now set up for official voting rather than functioning in consensus mode. She said that with this adjustment, CDTV lost cable membership, but increased broadcaster membership. However, CDTV is working to include cable participation. She said that regulators might announce some DTV decisions in June. She also reported on the experimental transmitter in Toronto currently functioning for internal educational purposes while simultaneously gearing up for external demonstrations. In Montreal, a transmitter was poised to go into operation but the government refused the channel based on protests of concern from the mobile community.

Joseph Flaherty suggested that the ATSC Board hold an executive session during each of its meetings.

18. Schedule of Board of Director Meetings

Following is the schedule for ATSC Board of Directors meetings in 2002:

June 27 (Chicago at Tribune); Aug. 15; Oct. 22 (PM only) in LA; Dec. 18.

Also in Chicago at Tribune are a T3 meeting on June 25 and an AS meeting on June 26.

Mr. Livingston said that he has a conflict with the June 27 date and asked that one of the vice chairs run that meeting.

19. Adjournment

Mr. Livingston thanked NAB for hosting the meeting. The meeting was adjourned at 4:15 PM.

Attachments

- Attachment 1: Attendance list
- Attachment 2: Draft agenda
- Attachment 3: ATSC Membership report
- Attachment 4: Letter Ballot report
- Attachment 5: Financial report
- Attachment 6: Dues Policy and Structure revision
- Attachment 7: Membership Committee report
- Attachment 8: Access to Website, Email Reflectors and Phone Bridge Policy
- Attachment 9: Board's Status Report on Interoperability
- Attachment 10: T3 report

**ATSC Board of Directors Meeting
Attendance List
May 14, 2002**

Board Members Present

Jay Adrick, Harris
Ed Caleca, PBS*
Lynn Claudy, NAB
Joseph Flaherty, CBS
Ira Goldstone, Tribune
Tom Hankinson, ABC
Ralph Justus, CEA
Phil Livingston, Panasonic (ATSC Chairman)
Wayne Luplow, Zenith
Sam Narasimhan, Motorola*
Robert Plummer, DirecTV
Glenn Reitmeier, IEEE
Brian Smith, Philips
Peter Symes, SMPTE
Victor Tawil, MSTV

Board Members Absent

Wendell Bailey, NBC
Bill Check, NCTA
Michael McEwen, CDTV

ATSC Members and Guests

ATSC President	Mark Richer
ATSC Secretary	Christy Kehlbeck
ATSC Technical Director	Jerry Whitaker
ATSC IS Chairman	Art Allison
Former T3/S8 Chair	Bernard Lechner
CDTV	Carol Darling
Cox Broadcasting	Sterling Davis
Eastman Kodak	Art Cosgrove
Echostar	William Beals
Microsoft	Pat Griffis
NCTA	Andy Scott
Samsung	C.B. Patel
Sony	Ed Barrett
Warner Bros.	Wendy Aylsworth
Zenith (Triveni Digital)	Gomer Thomas

Draft Agenda
Advanced Television Systems Committee, Inc.
Board of Directors
Radisson Barcelo Hotel
NAB, 1771 N Street NW, Washington, DC

May 14, 2002 from 1:00 PM to 5:00 PM

1. Call to Order; Determination of Quorum; Approval of Agenda
2. Opening Comments (P. Livingston)
3. Consideration of Draft Minutes of March 7, 2002 Meeting
4. Report of the President (M. Richer)
 - a. Membership Report
 - b. Status of Letter Ballots
 - c. Financial Report
 - d. NAB2002 - DTV Store
 - e. Other
5. Budget & Finance Committee (L. Claudy)
6. Nominating Committee (J. Adrick)
7. Membership Committee (J. Adrick)
8. Web Site, EMAIL Reflector & Conference Bridge Access Policy (M. Richer)
9. Interoperability Ad-Hoc Report (M. Richer)
10. Status of 2002 Goals (M. Richer)
11. T3 (R. Justus)
 - a. Report
 - b. Consideration of new name for T3
12. IS Report (A. Allison)
13. AS Report (E. Caleca / I. Goldstone)
14. DASE Certification (M. Richer)
15. Appointment of New Liaison to SCTE (M. Richer)
16. ATSC Forum Liaison Report (M. Richer)
17. Other Business
18. Schedule of Future Board Meetings
June 27 in Chicago; Aug. 15; Oct. 22 (PM); Dec. 18.
19. Adjournment

**ATSC Membership Report
May 14, 2002**

New Member:

B2C2
Oregon State University
Pathfire, Inc.

Resignations:

Broadcom
EEPDA
HKPC
Ktech
Lysis absorbed by NagraVision
Mixed Signals filed for bankruptcy
Pace Micro
Pangeatech
Pegasus
Ravisent
Triveni Digital
Verizon

Total Members:

March 7, 2002	154
May 14, 2002	145

Letter Ballot Status

Letter Ballot Description	Vote	Comments
ATSC Ballots:		
Data Broadcast A/90 Corrigendum 1	25 yes; 0 no; 3 abs; 120 nv	Approved April 1, 2002
Editorial Privilege	24 yes; 1 no; 1 abs; 122 nv	
Data Broadcast A/90 Corrigendum 2	23 yes; 0 no; 3 abs; 122 nv	Approved April 1, 2002
Editorial Privilege	21 yes; 1 no; 1 abs; 125 nv	
Synchronized/Asynchronous Trigger Standard	23 yes; 1 no; 3 abs; 121 nv	Approved April 1, 2002
Editorial Privilege	23 yes; 0 no; 3 abs; 122 nv	
PSIP A/65A Amendment 3	25 yes; 3 no; 6 abs; 114 nv	Approved April 1, 2002
Editorial Privilege	29 yes; 1 no; 4 abs; 114 nv	
Data Broadcast A/90 Amendment 1		Closes May 14, 2002
DTV Standard A/53B Amendment 1		Closes May 23, 2002
T3 Ballots:		
PSIP Guidelines - Recommended Practice		comment review
ARM (re-ballot)	8 yes; 2 no; 3 abs; 20 nv	Approved April 23, 2002
Editorial Privilege	9 yes; 0 no; 3 abs; 21 nv	
PSIP A/65A Amendment 2	11 yes; 1 no; 1 abs; 21 nv	Approved April 23, 2002
Editorial Privilege	12 yes; 0 no; 1 abs, 21 nv	
PSIP A/65A Amendment 1	11 yes; 1 no; 1 abs; 21 nv	Approved May 2, 2002
Editorial Privilege	12 yes; 0 no; 1 abs, 21 nv	

ATSC, Inc.
2002 Financial Report as of 4-30-02

	2002 Budget	Jan 1 - April 28 Actual
REVENUE		
Membership Dues	\$ 925,000	\$ 808,521
Seminar Revenue	\$ 64,800	\$ 33,214
Interest Income	\$ 22,000	\$ 3,164
Meeting Sponsorships	\$ 3,000	\$ 1,000
TOTAL REVENUE	<u>\$ 1,014,800</u>	<u>\$ 845,899</u>
EXPENSE		
Program Services:		
Seminars	\$ 60,420	\$ 15,322
ATTC Dues	\$ 50,000	\$ 50,000
Seed Funding for "ATSC Forum"	\$ 100,000	\$ 108,000
Total Program Services:	<u>\$ 210,420</u>	<u>\$ 173,322</u>
Management & General:		
Salaries & Benefits	\$ 622,766	\$ 203,417
Professional Fees	\$ 36,960	\$ 7,853
Travel & Business	\$ 48,950	\$ 8,704
Rent	\$ 47,765	\$ 15,112
Telephone & Internet	\$ 27,502	\$ 6,898
Duplication & Printing	\$ 14,200	\$ 3,209
Office Supplies & Equipment	\$ 12,600	\$ 339
Insurance	\$ 13,125	\$ 3,867
Postage & Shipping	\$ 3,600	\$ 394
Newsletter	\$ 26,800	\$ 6,471
Meetings	\$ 19,100	\$ 1,056
Other	\$ 5,400	\$ 2,553
Total Management & General:	<u>\$ 878,768</u>	<u>\$ 259,873</u>
GRAND TOTAL EXPENSES	<u><u>\$ 1,089,188</u></u>	<u>\$ 433,195</u>
ESTIMATED NET INCOME	<u><u>(\$74,388)</u></u>	

Doc. B/07
31 Jan 2002
[14 May 2002](#) |

**Advanced Television Systems Committee
Dues Structure and Policy**

ATSC, Inc. Dues Structure & Policy

1. Member dues shall be based upon the gross revenue of the organization:

<u>Annual Gross Revenues</u>	<u>MEMBER Annual Dues</u>	<u>OBSERVER Annual Dues</u>
<u>Individual</u>	<u>N/A</u>	<u>US\$ 500</u>
Less than \$10 million	US\$ 1,500	US\$ 1,100
\$10 million - \$50 million	6,200	4,700
\$50 million - \$2 billion	13,000	9,700
More than \$2 billion	15,300	11,500

In instances where the ATSC receives an application from a subsidiary company, revenues for membership dues will be assessed according to those of the parent company unless it can be shown that the parent company's business (other than that of the subsidiary) does not include television in which case they would pay dues at their subsidiary revenue level. If there are multiple subsidiaries of the same parent company seeking membership or renewal, each will pay dues in accordance with the previous sentence.

Universities and governmental organizations may pay at the minimum member dues level.

[Individual Observer status is only available to persons not employed by an eligible organization.](#)

- a. On an annual basis, the ATSC has the right to request documentation in support of a member's stated annual gross revenues.
 - b. Dues of members joining after the first quarter of the year will be pro-rated quarterly.
2. The following schedule for payment and collection of dues shall be adhered to.

December 1: Invoices will be sent for the following years' dues. These invoices will have a due date of January 31.

February 1: Members who have not yet paid will be allotted a thirty-day grace period, and will receive a 'friendly' reminder to remit payment expeditiously. The reminder will notify the member of impending incurrence of late penalties.

March 1: Notice of delinquency will be sent with revised invoice that will include a 5% late penalty. Invoice will have terms of 30 days.

April 1: Notice of delinquency will be sent with revised invoice that will include a 10% late penalty. Invoice will have terms of 30 days.

May 1: Notice of delinquency will be sent with revised invoice that will include a 15% late penalty. Invoice will have terms of 30 days.

July 31: Failure to pay dues shall automatically result in a recommendation by the Board of Directors to the full ATSC Committee to terminate membership in accordance with the Procedures of the ATSC unless the President determines that there are special circumstances.

Members joining mid-year must pay dues within sixty days or a recommendation will be made by the Board of Directors to the membership of ATSC, Inc. to terminate their membership, unless the President determines that there are special circumstances.

The terms of this schedule will accompany all invoices and reminders. The ATSC dues structure will be present on all invoices.

3. Members that wish to rejoin within one year of resignation or termination must pay dues for the previous year.
4. Bank fees associated with dues payment should be paid by the member, but may be waived at the discretion of the President.

**ATSC Membership Committee
Organizing Meeting Report
May 7, 2002**

May 7, 2002, the ATSC Membership Committee held our first committee meeting and tackled the agenda that was previously distributed. While we missed two of our members, we made substantial progress and developed several action items that will require participation from all of us.

Below, you will find the agenda with status or action items noted.

I. Opening Comments

Mark Richer gave background on board reason for creating Membership Committee

II. Consideration of Agenda

Agenda was accepted as proposed

III. Scope of Work

a) Review 2002 Goals

1) Conduct Membership Survey

Action: Committee chairman will request ATSC board at 5/14 meeting to develop areas and topics of questions for survey. Input to be returned to Committee by 5/24. Harris will provide assistance in crafting e-mail based survey that will be conducted during June 02.

2) Consider ways to make ATSC more valuable to its members

Discussion was conducted regarding several membership services. Further discussion is needed and input should be gathered from the membership survey. One topic was discussed in detail...ATSC membership use of ATSC e-mail reflectors, website and conference bridge services. A draft proposal of policy is attached to this message.

Mark Richer presented a proposed change to the ATSC Dues Structure & Policy. (see attached) While this is not in the scope of the Membership Committee, it was of informational value regarding potential new members. Mark will present the proposed policy change to the full board at the next meeting.

Actions: 1) Policy will be presented to full ATSC board for review and adoption at the May 14th meeting. 2) Additional services to members need to be researched and developed based on input from general membership and board. It will be the job of this committee to guide the process.

3) Better explain value of membership

Chairman requested copy of current membership material be distributed to the committee for review and comments. After input from committee members and board, Harris will assist in upgrading membership promotional package. Tara Healy distributed information on the committee reflector... 5/7/02

Action item: Committee members please review material and list recommendations for improvement.

4) Organize and conduct a recruitment drive to obtain 10 new members

Two areas of focus were discussed;

- 1) *What companies and organizations that are part of the overall DTV community are missing from the ATSC membership?*
- 2) *2) Are their companies that have dropped out of ATSC that can be encouraged to rejoin?*

Action items:

- 1) *Send to Membership Committee the list of current ATSC member companies and organizations. Done*
- 2) *Send to Membership Committee the list of companies and organizations that have dropped out of ATSC in the past two years. Done*

Committee members are to review both lists and submit names of companies and organizations that are likely candidates for ATSC membership.. Include contact information if known. Complete task by 5/24/02 List will be reviewed with entire ATSC board to determine best path for approach. It was also decided that we should plan to enlist the help of selected ATSC board members matched to the membership candidate to help with the pitch for membership.

b) Should ATSC look at expanding it's scope?

Preliminary discussion indicates that we need to review and brainstorm this question at our future committee meetings.

IV. Review Action Items

E-mail summary of action items sent to members.

V. Schedule Next Meeting

Next meeting was scheduled for Tuesday May 28th at 2 PM.

Respectfully Submitted

Jay C. Adrick
Chairman ATSC Membership Committee

Email Reflector, Members Area of Website & Conference Bridge Access Policy

ATSC has established and maintains various communications systems to facilitate the work of the organization. These resources include various email reflectors, a members area of the ATSC website and a phone conference bridge. ATSC finances the acquisition, and operation of these systems. The primary source of funding for the ATSC is membership dues. ATSC dues, which are set by its Board of Directors, are scaled in such a way to facilitate membership or observer status of organizations and individuals with a direct & material interest in the work of the organization. Limiting access to email reflectors, the members only area of the web site and use of the conference bridge does not prevent interested parties from participation in the work of the ATSC.

Therefore, use of ATSC email reflectors, the "members only" area of the ATSC web site, and the conference bridge, shall be reserved for use by ATSC Voting Members and Observers. Prospective members of ATSC may be given access to electronic resources for sixty days.

The ATSC Board of Directors may establish electronic resources for its own use.

The President of ATSC may make exceptions to this policy if it is determined to be in the interests of ATSC.

Doc. B/008
14 May 2002

ATSC
Board of Directors

**Status of
Digital Cable Interoperability**

Advanced Television Systems Committee
1750 K Street, N.W.
Suite 1200
Washington, D.C. 20006

The Advanced Television Systems Committee, Inc., (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). ATSC members represent 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.

Status of Digital Cable Interoperability

1. INTRODUCTION

Digital cable interoperability means that content providers, including terrestrial broadcasters, can deliver digital television programming to consumer-owned digital television receivers over cable television distribution plants. The availability of retail-market cable-ready digital television receivers is an important element in achieving digital cable interoperability that has been and still is highly desired by most of the major stake holders - including consumers, cable television operators, broadcasters, content providers, and consumer electronics manufacturers. The consumer expects the same convenience that exists today with analog cable-ready television receivers, where a cable-ready television receiver can be purchased off-the-shelf at retail and connected directly to the cable television system to receive a basic service package, and perhaps some premium services, without requiring a separate set-top box supplied by the cable operator. The cable operator seeks to minimize capital expenses and operational burdens required by having to stock, deliver, and manage digital set-top boxes. The cable operator would like to be able to establish, at the lowest possible cost, a subscriber relationship with a basic tier of services, which can be easily upgraded to premium services. Broadcasters and content providers want assurance that their digital program offerings are universally available in cable television homes, and consumer electronics manufacturers want to be able to offer a wide variety of cable-ready digital television products having features that are differentiable in the marketplace.

Cable operators and the consumer electronics industry have taken an important step towards achieving these objectives by establishing the CEA/NCTA Technical and PSIP Agreements (hereinafter referred to as the "Agreements") that recommended a technical solution for cable operators and consumer electronics manufacturers¹.

In December 1999, prior to the CEA/NCTA Agreements, CEA adopted EIA/CEA-818-D, Part II of which is a standard for a cable-ready digital television receiver that will support the services defined in the CEA/NCTA Agreements. Subsequent to the filing of the Agreements with the FCC on February 21, 2000, the FCC adopted a Report and Order that defines three types of cable-ready digital television receivers. The Type 1 cable-ready digital receiver supports the basic and premium services defined in the CEA/NCTA Agreements.

The ATSC strongly supports the spirit and approach of the CEA/NCTA Agreements and the related ATSC, CEA, and SCTE standards and urges that all industry segments work together to implement both the spirit and the detail of the Agreements as rapidly as possible.

1.a Scope

This document provides an overview of the standards, agreements, and rules that relate to digital cable interoperability. This document does not address interoperability between terrestrial broadcast digital television signals and operator-owned digital set-top boxes currently deployed in cable systems, nor does it address issues relating to must-carry or retransmission consent. This document attempts to capture facts and areas of agreement among the authors representing different industries in the DTV transition process. Where agreement has not been reached, multiple views may be represented.

¹ These Agreements, filed with the FCC on February 22, 2000, were the result of intense negotiations between CEA and NCTA.

2. STANDARDS, AGREEMENTS, SPECIFICATIONS, AND RULES

There are a large number of standards, agreements, specifications, and FCC Rules that relate to the interoperability of consumer electronics products with cable television systems. The relevant documents are listed in the attached Tables 1 through 6 as follows:

Table 1	ATSC Standards
Table 2	EIA/CEA Standards
Table 3	SCTE Standards
Table 4	CEA/NCTA Agreements
Table 5	OpenCable Specifications
Table 6	FCC Rules

By and large, the published ATSC, CEA, and SCTE standards listed in Tables 1, 2, and 3 and referenced in the CEA/NCTA Agreements provide a consistent set of standards that will enable a Type 1 cable-ready digital television receiver to be connected directly to a receiver-ready digital cable television system to provide basic analog programming and both basic and premium digital programming to the viewer.

The key standards in the ensemble are the Network Interface Standard, SCTE DVS/313r5², and the Host-POD Interface Standard, SCTE DVS/295r5. These standards reference many other ATSC, CEA, and SCTE standards, some of which also reference these standards. The CEA/NCTA Agreements also reference many ATSC, CEA, and SCTE standards, but they do not reference DVS/313r5 and DVS/295r5 since neither standard existed in February 2000. As a consequence, there are some inconsistencies between the Agreements and the standards (see Section 4 below).

3. BRIEF HISTORY OF THE DEVELOPMENT OF THE NETWORK INTERFACE AND HOST-POD INTERFACE STANDARDS

3.a Network Interface Standard

- 1) The OpenCable Network Interface Specification (OCI-N), released by CableLabs in October 1999, was the initial document.
- 2) EIA/CEA-818-D Part I, approved and published in December 1999.
- 3) CEA/NCTA Technical Agreement, filed with the FCC in February 2000.
- 4) SCTE 40 2001 (formerly DVS/313r5), adopted by SCTE in November 2001, and, EIA/CEA-818-D Part 1 are the approved documents. Certain differences exist between these two documents.

3.b Host-POD Interface Standard

- 1) DVS/131r7, approved in January 1999, was the initial document.
- 2) DVS/295, introduced in January 2000, was the second document.
- 3) SCTE 28 2001 (formerly DVS/295), adopted in November 2001, is the approved document.

²Many of the standards developed by the SCTE Digital Video Subcommittee have recently been given new numbers by SCTE. Thus what was DVS/313r5 is now SCTE 40, etc. The new numbers are used in this document. Table III includes a cross-reference between the old numbers and the new numbers.

3.c Pod Copy Protection System

- 1) DVS/213, approved in June 1999, was the initial document.
- 2) DVS/301, approved in January 2000, was the second document.
- 3) SCTE 41 2001, adopted in November 2001, is the approved document.

4. TECHNICAL AND PSIP AGREEMENTS

The Technical Agreement predates the adoption by SCTE of the Network Interface Standard, SCTE 40 2001, by over one year and, as a result, there are a number of differences between the documents. No industry participant has asserted that SCTE 40 2001 fails to provide a technical structure that will enable digital terrestrial broadcast signals to be delivered over cable.³ EIA/CEA-818-D Part 1 differs from SCTE 40 2001 in that it adds the option to carry 8-VSB, and that it has different language with regard to closed captioning. Accommodating the requirements of both documents does not represent a technical barrier to building a cable-ready receiver.

The cable industry does not expect receivers to support navigation to an unscrambled service that is not referenced in a Virtual Channel Table. In any event, when broadcasters include a Virtual Channel Table in their broadcast signal, an in-band Virtual Channel Table will be delivered to cable customers. Most cable customers will be in possession of a POD security module to receive cable programming, the overwhelming majority of which will be scrambled on the cable system. As such, the tuning information will be available out-of-band.

The PSIP Agreement, "Carriage of PSIP over Cable Plants," describes requirements, implementation scenarios, and an implementation plan for the carriage of PSIP data over cable television systems. For DTV receivers that do not have a POD security module, there are two interpretations as to how tuning should work:

Position 1: The Agreement does not explicitly address Virtual Channel data and EPG data as separate entities. The Agreement clearly states that "(t)hese requirements are aimed at the *carriage* of PSIP through the distribution chain and not its creation." The intent of this qualification, as understood by those participating in the drafting of the Agreement, was that it applied only to EPG data, and that, obviously, in-band Virtual Channel data would, in some instances, have to be created by the cable operator. In fact, the PSIP Agreement states elsewhere that "if a digital Transport Stream (TS) includes one or more services carried in-the-clear, that TS shall include virtual channel data in-band in the form of ATSC A/65." Otherwise, it would not be possible to navigate in-the-clear programs without a POD module in place. Nevertheless, some in the cable community have said they believe that it is not necessary to provide in-band Virtual Channel data unless the content provider supplies it.

Position 2: The meaning of the PSIP Agreement is clear and no revisions are needed. This Agreement was the result of lengthy negotiations between NCTA and CEA. During these negotiations, the cable industry made clear that these carriage requirements assume the availability of PSIP data from the content provider, and that it would be prepared to support the carriage of PSIP information when made available from the content provider in accordance with the Agreement. CEA agreed with the document.

³ NAB and others filed oppositions to the approval of SCTE Standard 40 2001 as an ANSI Standard because of the way broadcaster-provided PSIP content is addressed, and therefore the way such signals could be presented to and accessed by consumers.

5. IMPLEMENTATION ISSUES

This Section discusses a number of technical and operational issues that relate to the implementation of the CEA/NCTA Agreements to enable support of Type 1 cable-ready digital television receivers. None of these issues is a show-stopper; the necessary standards are in place. Cable operators will, in some cases however, need to obtain the necessary hardware and software to implement the Agreements.

5.a Interoperability Testing (Plugfests)

The Network Interface and Host-POD Interface Standards, SCTE 40 (DVS/313r5) and SCTE 28 (DVS/295r5), are completed. There is a strong need to conduct interoperability tests (frequently called *plugfests*) that will fully exercise these important interface standards. It is important to point out, however, that CableLabs, through the OpenCable process, has now conducted its eleventh certification wave aimed at testing and verifying these very interfaces. These certification waves included hundreds of tests, and more than a dozen companies have participated. It is CableLabs' position that these tests fully exercise all supported functions. Others believe that not all functions allowed by these standards are tested through this process.

5.b Need to Send Additional Event Information

Event information data may be transported either in-band or out-of band. When sent in-band, the PSIP Agreement specifies that the event information data format shall conform to ATSC A/65 PSIP and SCTE DVS-097 Rev. 7 (once it is harmonized with ATSC A/65).⁴ When sent out-of-band, event information data shall conform to SCTE DVS 234r1 (profiles 4 or higher). In-band data may be used by the digital receiver to augment event information data sent out-of-band. In other words, both in-band and out-of-band data may be present to describe certain services. There are no standards or recommended practices that define how tuning options are presented to consumers in this case.

5.c Re-Multiplexing

Since the modulation method and data rate on cable differ from the ATSC 8-VSB standard, cable headends will, in general, have to demodulate and re-modulate terrestrial broadcast signals picked up off-air. It may also be necessary to re-multiplex the broadcast signal. Different scenarios may apply if the broadcaster delivers the signal directly to the cable headend. In any event, it is likely that two broadcast signals will be combined into a single 38-Mbps Transport Stream for delivery using 256-QAM. The re-multiplexing will require rebuilding the PSIP information, MGT, VCT, EIT's, etc. Also, the out-of-band Service Information required to construct the System Information defined in DVS/234r1 as well as the System Information required to support existing legacy set-top boxes must be provided to the out-of-band data transmission system. In most cases it will be necessary to derive some of this information from the terrestrial broadcast PSIP.

5.d In-Band PSIP

Depending on the source of the programs to be carried on a Transport Stream, PSIP information - both the Virtual Channel Table and the EIT's - is likely to have to be rebuilt at the cable system headend.

⁴ DVS/097 has been withdrawn in favor of A/65.

5.e In-Band PSI

The CEA/NCTA Technical Agreement, EIA/CEA-818-D, and SCTE 40 (DVS/313r5) all require that the caption service and content advisory descriptors be present in the PMT. ATSC A/65A requires them to be present in the PMT for cable transmission, but their presence in the PMT is optional for terrestrial broadcast. If broadcasters do not include the descriptors in the PMT, it will be necessary to insert them at the cable headend. There is a need to ensure that packet replacement and timing are done correctly.

5.f Out-of-Band System Information

The CEA/NCTA Technical Agreement, EIA/CEA-818-D Part I, SCTE 40 (DVS/313r5), and the PSIP Agreement all require out-of-band System Information as defined in DVS/234r2. Profiles 4-6 require AEIT data. In the case where the data for the AEIT's is derived from the PSIP information sent in the source signal, it will be necessary to convert the EIT data to AEIT format when cable operators carry this information out of band.

5.g Channel Numbering

Terrestrial broadcast uses a two-part channel number, whereas cable systems use a single-part number. SCTE standards provide the ability for cable to label a channel with either a single-part or a two-part number either with in-band PSIP or with out-of-band System Information. Terrestrial broadcasters believe that they have the right to maintain the two-part number both in-band and out-of-band, and cable system operators believe that they have the right to relabel a broadcast program with a single-part number both in-band and out-of-band. Receiver manufacturers believe that the in-band and out-of-band labels, whether two-part or single-part, should be the same to avoid consumer confusion. This is not a technical issue since the standards will support all possibilities.

5.h Use of 8-VSB Modulation

EIA/CEA-818-D Part I explicitly specifies parameters for 8-VSB and 16-VSB. SCTE 40 (DVS/313r5) and the Technical Agreement do not specify parameters for 8-VSB and 16-VSB. The FCC has acknowledged the use of 8-VSB on cable. Although the documents are not consistent, this is not a technical issue. The cable television industry has said that it does not intend to use 8-VSB or 16-VSB beyond some current temporary situations that are being phased out. The broadcasters and some television receiver manufacturers feel strongly that 8-VSB and/or 16-VSB should not only be allowed on cable, but also encouraged. Since EIA/CEA-818-D Part II requires Type 1 cable-ready receivers to accept 8-VSB signals, there is no implementation problem.

6. TABLES OF APPLICABLE DOCUMENTS**Table 1** ATSC Standards Documents Relating to Cable Interoperability

Document Number	Title	Topic	Status
A/52A	Digital Audio Compression (AC-3) Standard	Audio	Approved Stable
A/53B	ATSC Digital Television Standard	Video, Audio, Transport, and Transmission	Approved Stable
A/65A with Amendment 2	Program and System Information Protocol for Terrestrial Broadcast and Cable	PSIP	Approved Stable Being Revised
A/90	ATSC Data Broadcast Standard	Data Transport	Approved Stable

Table 2 EIA/CEA Standards Documents Relating to Cable Interoperability

Document Number	Title	Topic	Status
EIA-23	RF Interface Specification for Television Receiving Devices and Cable Television Systems	RF Interface Performance Requirements	Approved Has placeholder for yet-to-be agreed values
EIA/CEA-542-A	Cable Television Channel Identification Plan.	Cable Frequency Plan	Approved Stable
EIA/CEA-544-A	Low-Frequency Immunity of Tuners in a Cable System	RF Interface Performance Requirements	Approved Stable
EIA/CEA-679-B, Part B	National Renewable Security Standard (NRSS)	POD Module Interface	Approved Needs to be updated
EIA/CEA-818-D, Part I	Minimum Requirements for Receiver Compatible Digital Cable TV Systems	Digital Cable Network Interface Requirements	Approved Stable Being Revised
EIA/CEA-818-D, Part II	Minimum Requirements for Cable-Compatible Digital TV Receivers	Digital Cable-Ready Receiver Requirements	Approved Stable Being Revised
EIA/CEA-814	Emergency Alert Message for Cable	Emergency Message Standard. Identical to DVS/208r8	Minor problem identified; may need to be revised
EIA/CEA-608-B	Line 21 Data Services	NTSC Captioning and Other Data	Approved Stable
EIA/CEA-708-B	Advanced Television Closed Captioning	Content Advisory Standard	Approved Stable
EIA/CEA-766-A	U.S. and Canadian Rating Region Tables (RRT) and Content Advisory Descriptors for Transport of Content Advisory Information Using ATSC A/65A Program and System Information Protocol (PSIP)	Content Advisory Standard	Approved Stable
EIA/CEA-819	Cable Compatibility Requirements for Two-Way Digital Cable TV Systems	Two-Way Digital Cable Network Interface and Cable-Ready Receiver Requirements	Approved Being Revised
EIA/CEA-861	DVI 1.0 Interface	Digital Video Interface Specification	Approved

Table 3 SCTE Standard Documents Relating to Cable Interoperability

Old Document Number	New Document Number	Title	Topic	Status
DVS/031r5	ANSI/SCTE 07	Digital Video Transmission Standard for Cable Television	QAM Specifications	Approved Stable ITU Standard
DVS/053r7	SCTE 21	Standard for Carriage of NTSC VBI Data in Cable Digital Transport Streams	608-B Captions, etc.	Approved Stable
DVS/157r1	ANSI/SCTE 20	SCTE Standard Methods for Carriage of Closed Captions and Non-Real Time Sampled Video	608-B Captions, etc.	Approved Stable
DVS/167r2		Digital Broadband Delivery System: Out-Of-Band Transport—Mode B	Scientific Atlanta OOB System	Approved Stable
DVS/178r3		Digital Broadband Delivery System: Out-Of-Band Transport—Mode A	Motorola OOB System	Approved Stable
DVS/194r3	SCTE 26	Home Digital Network Interface Specification Proposal with Copy Protection	1394 with 5C	Approved Stable
DVS/208r8	SCTE 18	Standard: Emergency Alert Message for Cable	Emergency Message Standard	
DVS/234r2		Service Information Delivered Out-Of-Band for Digital Cable Television	Defines Cable OOB SI Profiles	Approved Stable
DVS/241r1		Digital Video Service Multiplex and Transport System for Cable Television	Transport Standard Defines In-Band SI	Being revised.
DVS/258r4	SCTE 43	Digital Video Systems Characteristics for Cable Television	Defines Cable Video Formats	Approved Stable
DVS/295r5	SCTE 28	Host POD Interface	Defines Physical Interface and Signaling Protocols	Approved Stable Does not support VOD, etc.
DVS/301r3	SCTE 41	POD Copy Protection System	Defines Copy Protection System Protocols References PH ILA	Approved
DVS/313r5	SCTE 40	Digital Cable Network Interface Standard	Defines the Network Interface. References Many Other Standards.	Approved Stable
DVS/051r2		Methods for Asynchronous Data Services Transport	Asynchronous Data Transport	Approved Stable
DVS/132	ANSI/SCTE 19	Methods for Isochronous Data Services Transport	Isochronous Data Transport	Approved Stable
DVS/311r5	SCTE 42	IP Multicast for Digital MPEG Networks	IP Multicast	Approved Stable

Table 4 OpenCable Specifications Relating to Cable Interoperability ⁵

Document Number	Title	Topic
OC-SP-HOST-CFR-I08-020328	Host Device Core Functional Requirements	Set-Top Box and Cable-Ready Digital TV Receiver Specification
SCTE 40	Digital Cable Network Interface	Specifies the Network Interface
OC-SP-HOSTPOD-IF-I09-020328	Host POD Interface	Specifies Physical Interface and Signaling Protocols
OC-SP-PODCP-IF-I06-011221	POD Copy Protection System	Defines Copy Protection System Protocols
OC-SP-OCAP1.0-I01-011221	OCAP 1.0 Application Platform Specification	Defined common APIs to permit application portability
OC-SP-CDS-IF-I02-020328	Common Download Specification	Defines secure download protocols for updating firmware and applications in the Host
SP-DSG-I01-020228	DOCSIS Set-top Gateway (DSG) Interface Specification	Defines interface for transport of OOB messaging between set-top network controller and CPE

Table 5 February, 2000 CEA/NCTA Agreements

Table	Topic	Comment
Technical Agreement	Defines the Network Interface	Differs from SCTE 40 2001 and EIA/CEA-818-D Part 1
Carriage of PSIP over Cable Plants	Defines Requirements for Carriage of PSIP over Cable Plants	There is a lack of consensus regarding interpretation of certain elements of the document.

Table 6 FCC Reports and Orders Relating to Cable Interoperability

Document	Title	Date
R&O in CS 98-120+ (FCC 01-22)	Carriage of Digital Television Broadcast Signals	Jan 18 2001
R&O in PP 00-67 (FCC 00-342)	Compatibility Between Cable Systems and Consumer Electronics Equipment	Sept 14, 2000
Report & Order in CS 97-80	Implementation of Section 304 of the Telecommunications Act of 1996: Commercial Availability of Navigation Devices	June 1998

⁵ As listed on the OpenCable Web site, 1 April 2002.

Status Report: Technology Group on Distribution

1. INTRODUCTION

This report summarizes the actions taken at the most recent meeting of the Technology Group on Distribution, which was held on April 17, 2002.

2. SPECIALIST GROUP ACTIVITIES

Specific actions were taken that relate to the following specialist groups.

2.1 Specialist Group on RF Transmission

Laboratory testing of the NxtWave/Zenith and Philips systems have been completed. Field testing is now underway. Backward compatibility testing has begun at CRC, and these tests will include the Broadcom proposal. Laboratory testing of the Broadcom system may take place independently of VETC; field testing of the Broadcom system is currently an open issue.

The testing program is running behind schedule. VETC expects to complete their work by the end of July. A sub-group led by Robert Seidel (CBS) has been formed to analyze the test data.

The T3/S9 Work Plan has been revised to reflect delays in various areas. Current schedule highlights include the following:

- Interim test reports due from VETC during May and June.
- May 17 – Broadcom hardware available.
- July 31 – Field test data available to T3/S9.
- September 30 – Revision to A/53 recommended to T3 by T3/S9.

2.2 Specialist Group on Data Broadcast

Work continues on the Transport Stream File System, with a draft document currently being finalized. The following process for moving forward was approved by T3: the TSFS Standard, upon finalization in T3/S8, shall be posted to the T3/S8 reflector for a two week comment period, and if no substantive issues are raised, the document shall be posted to the T3 reflector for a two-week comment period. If no substantive comments are received during this comment period, the document shall be sent to a four week ballot of T3.

2.3 Specialist Group on Satellite Broadcast

Work continues on the draft satellite broadcast specification, which is expected to be ready for consideration by T3 at its next meeting.

2.4 Specialist Group on Data Multiplex/Transport

Bernie Lechner announced that he officially stepped-down as chair at the last meeting of T3/S8 (meeting #53), and that Mark Eyer (Sony) has agreed to take on the task of chairing the specialist group.

T3 unanimously approved the following resolution:

“Whereas Bernard J. Lechner has served as the chair of
ATSC Specialist Group T3/S8 for over 8 years;

And whereas he has given freely of his time in pursuit of technical standards, contributing many man-years to the work of the ATSC;

And whereas he has given dedicated service and made valuable contributions to the work of the ATSC;

And whereas his contributions have led to important enabling technologies relating to digital television;

Now therefore be it Resolved that Mr. Lechner is hereby recognized for his work on behalf of the Advanced Television Systems Committee, and that the Technology Group on Distribution formally takes note of his efforts with thanks and appreciation.”

Specific activities in T3/S8 include the following:

- Work continues on Draft Amendment 2 to A/53B. The document is expected to be presented to T3 for consideration at the June meeting.
- Ballot comment resolution is currently underway for A/65A Amendment 1A
- Ballot comment resolution is currently underway for A/65A Amendment 2
- Work continues on the Advanced EPG Functionality draft standard, with a document expected for T3 consideration at its next meeting
- Comment resolution on the Recommended Practice “PSIP Implementation Guidelines for Broadcasters“ has been completed; further T3 consideration is pending.

2.5 Specialist Group on DASE

T3/S17 is considering its options with regard to moving forward on the DASE Candidate Standard. The specialist group is to bring back a recommendation to T3 at the June meeting. The options include: 1) extend the Candidate Standard status for a specified period of time, 2) recommend that DASE-1 be forwarded to a vote of the full membership, or 3) return the document set to the Working Draft status.

T3/S17 will hold a meeting next week in Seoul, Korea. This provides a valuable opportunity for a number of Korean broadcasters, equipment manufacturers, service providers, and government parties to participate more actively in work on DASE.

Regarding plans for DASE Level 2, T3 has adopted a DASE-2 work plan for the specialist group to follow. T3/S17 has been asked to develop a schedule to carry out the necessary work, with identification of major milestones as appropriate.

T3/S17 has been asked to explore discussions with CableLabs regarding DASE harmonization. Glenn Adams will lead the effort, working through Mark Richer.

2.6 Specialists Group on Video

Comments received on the ballot of Amendment 1 to A/53B (to add Active Format Description to Annex A) have been processed by the comment resolution AHG and the revised document is ready for a ballot of the full membership.

Mr. Eyer reported that he was stepping down as chair of T3/S6 because of his T3/S8 commitments. He announced that Bill Miller (ABC) has agreed to serve as the chair of T3/S6. It was also decided that the scope of the specialist group should be expanded to encompass audio as well as video issues.

2.7 SCTE Liaison

T3 formally recommends that Art Allison be appointed to serve as the ATSC liaison to SCTE. Mr. Allison would replace Regis Crinon in that position.

3. ACTION ITEMS DEVELOPED AT THE APRIL 17 MEETING

The following Action Items were developed at the T3 meeting of April 17, 2002.

- 1) Whitaker to post the ballot results summary provided in printed form at this meeting to the T3 reflector.
- 2) Chernock to post to the Proposed TSFS Standard, upon finalization in T3/S8, to the T3/S8 reflector for a two week comment period, and if no substantive issues are raised, the document shall be posted to the T3 reflector for a two-week comment period. If no substantive comments are received during this comment period, the document shall be delivered to ATSC staff for a four week ballot of T3.
- 3) Chernock to post the draft aggregated event table document developed by Eddie Schwalb to the T3/S13 reflector and to then bring back to T3 a proposal for moving forward, if the specialist group determines that such activity would be appropriate work for T3/S13.
- 4) Shah to distribute an advanced copy of the Proposed Satellite Broadcast Standard, upon finalization in T3/S14A, to the T3 reflector two weeks prior to the next T3 meeting to facilitate review and comment.
- 5) Eyer to form a comment resolution AHG to address comments received during the T3 ballot of A/65A Amendment 2.
- 6) Eyer to form a comment resolution AHG to address comments received during the T3 ballot of A/65A Amendment 1A. The ad hoc group shall consist of the following persons: Weiss (chair), Eyer, Allison, and others which could include commenters.
- 7) Adams to bring to T3/S17 the question of moving forward on DASE-1, currently at Candidate Standard status, and to return a consensus recommendation to T3 at the June 25 meeting. The possible options shall include: 1) recommend to extend the Candidate Standard status for a specified period of time, 2) recommend that DASE-1 be forwarded to a vote of the full membership, or 3) recommend that the DASE specification be returned to the Working Draft status.
- 8) Adams to report to T3/S17 that T3 adopted T3-571 as the DASE-2 work plan for the specialist group to follow, and that T3 directs the specialist group to develop a schedule to carry out the necessary work, with identification of major milestones as appropriate.
- 9) Adams to report to T3/S17 the expression of interest from CableLabs regarding DASE harmonization, and that the specialist group is directed to initiate plans for moving forward on such efforts, working through Richer—initially at least. Adams

shall lead the effort and to report back to T3 as soon as possible on important developments.

- 10) Richer to respond to Richard Green of CableLabs regarding DASE harmonization, reporting that ATSC would like to work with them to the extent possible.
- 11) Adams to draft a response to Brian Aldos, chairman of ITU-R Working Party 6M, regarding correspondence titled "Progress Report on Harmonization of Procedural Functionalities for Interactive TV Applications." Adams shall forward a draft response to Richer for preparation of an official ATSC response.
- 12) Eyer for forward to ATSC staff T3-560r1 as amended by T3/S6-148. Staff shall then send the document to a vote of the full membership.
- 1) Chairman Justus to report to the Board of Directors that T3 recommends that Art Allison (NAB) serve as the ATSC liaison to SCTE