

Minutes

Control Protocols Working Group

Thursday, 01 April 2010
Marriott Kansas City Downtown
200 West 12th Street
Kansas City, Missouri 64105 USA

Chairmen:

Tracy Underhill; 4U Consulting; O; G
Michael Lay; Philips Strand Lighting (Royal Philips Electronics); P; MP

Recording secretary:

Karl G. Ruling; ESTA

Members attending:

Paul Kleissler; City Theatrical, Inc.; P; MP
Peter Kirkup; Zero 88 (Cooper Controls Ltd.); P; MP
Edward A. (Ted) Paget; Vortek Rigging Division of Daktronics Inc. ; P; G
Doug Fleenor; Doug Fleenor Design, Inc.; P; MP
Philip Nye; Engineering Arts; P; G
Ed Garstkiewicz; Harting Inc., North America (Harting KGAA); A; G
Steve Carlson; High Speed Design, Inc.; O; MP
Alan Martello; Horizon Control Inc.; P; MP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
John Huntington; I.A.T.S.E. Local 1; A; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Ken Vannice; Leviton Manufacturing Co., Inc.; P; MP
Tyrone Mellon Jr.; Lex Products Corp.; P; CP
Stuart Cotts; Oregon Shakespeare Festival; P; U
Ron Bonner; PLASA; P; G
Robert Tooker; Production Resource Group; A; DR
Kimberly Corbett; Schuler Shook; P; DE
Mitch Heffer; Entertainment Technology (Royal Philips Electronics), representing USITT; P; U
Eric Cornwell; West Side Systems; O; U

Visitors:

Janell Fleenor; Doug Fleenor Design, Inc.
Erich Friend; Teqniqal Systems

1 Opening remarks

Michael Lay called to order at 9:00. He asked people to turn off their cell phones and PDAs. He welcomed the visitors and Steve Carlson.

2 Attendance

2.1 Introductions of those present and circulation of attendance sheet

A chartreuse sign-in sheet was circulated as those present introduced themselves.

2.2 Determination of a quorum

Mike Lay asked for a show of hands of voters, counted them, and then announced that a quorum was present.

2.3 Recognition of alternate voting members

Rob Tooker and Ed Garstkiewicz were recognized as being the alternate voters representing their companies. They had no principal present. Other alternates who did have a principal present were reminded that only one of them—principal or alternate—may vote on a question.

3 Membership

3.1 Requirements for membership

Mike Lay reminded the assembly that membership is open to all who are affected by the work of the group. People and companies that would be in any interest category other than a manufacturer interest category are at this time particularly encouraged to apply for membership. Voting members are required to attend meetings and to vote on letter ballots. Voting members and their alternates may not miss three consecutive meetings without a loss of voting status.

3.2 Changes to observer status due to lack of attendance

Voting members who have missed the previous two meetings and will be moved to observer status if this meeting also is missed:

None.

3.3 Processing of new membership requests and reaffirmation of members with new companies

The following applications had been received and logged:

- Simon Newton; observer; general interest
- Peter Kirkup; Cooper Controls (Cooper Industries); principal; mass-market producer
- Tracy Underhill; 4U Consulting; observer; general interest (new company and voting status)

Ted Paget moved that their applications be accepted. The motion was seconded and then approved with a show of hands.

Kimberly Corbett asked to be changed from the General interest category to Designer. There were no objections and the change was made.

3.4 Consensus body

The full consensus body during this meeting, including those not present, was:

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	P	CP
Scott M. Blair	High End Systems Inc.	Barco	P	MP
Tom Grimes	High End Systems, Inc.	Barco	A	MP
Paul Kleissler	City Theatrical, Inc.	City Theatrical, Inc.	P	MP
Larry Dunn	City Theatrical, Inc.	City Theatrical, Inc.	A	MP
Peter Kirkup	Zero 88	Cooper Controls Ltd.	P	MP
Edward A. (Ted) Paget	Vortek Rigging Division	Daktronics Inc.	P	G
Ulrich Kunkel	E3 Engineering & Education for Entertainment GmbH	DIN, NVBF Committee	P	U
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP
Philip Nye	Engineering Arts	Engineering Arts	P	G
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	A	G
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP
Gary Douglas	Horizon Control Inc.	Horizon Control Inc.	A	MP
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
John Huntington	City Tech, Ent Tech Department	I.A.T.S.E. Local 1	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP
Tyrone Mellon Jr.	Lex Products Corp.	Lex Products Corp.	P	CP
David Yellin	LightMinded Industries, Inc.	LightMinded Industries, Inc.	P	MP
Michael Karlsson	LumenRadio AB	LumenRadio AB	P	MP
Marcus Bengtsson	LumenRadio AB	LumenRadio AB	A	MP
Stuart Cotts	Oregon Shakespeare Festival	Oregon Shakespeare Festival	P	U
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Robert Armstrong	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Ron Bonner	PLASA	PLASA	P	G
Charles Reese	Production Resource Group	Production Resource Group	P	DR
Robert Tooker	Production Resource Group	Production Resource Group	A	DR
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP
Hans Lau	Sand Network Systems, Inc.	Sand Network Systems, Inc.	P	MP
Yngve Sandboe	Sand Network Systems, Inc.	Sand Network Systems, Inc.	A	MP
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	USITT	P	U
		Total	27	
		Subtotals by interest category	3	CP
			13	MP
			1	DR
			5	U
			4	G
			1	DE

4 Approval of the minutes from the January 2010 meeting

Eddie Kramer moved that the draft minutes of the January meeting be accepted as written. The motion was seconded and then approved with a show of hands.

5 Reading of the call for patents

Tracy Underhill read the following statement aloud to the assembly:

"ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.

"In keeping with the open disclosures policy, I ask if anyone present wishes to notify this working group of the existence of a patent or copyright or other intellectual property that might protect material in a standard being developed by this working group. You need not be the holder of the patent or copyright to notify this working group of its existence."

No protected intellectual property was reported.

6 Reading of the anti-trust statement

Tracy Underhill read the following statement aloud to the assembly:

"The ESTA Board of Directors, the Technical Standards Committee, and the leadership of this working group will reject or nullify any actions that unlawfully restrain trade. Anyone who feels that such an action is being or has been taken is requested to bring that matter to the attention of the chair immediately. Anyone who feels that actions in restraint of trade have been taken and not properly annulled is requested to notify the TSC chair or ESTA president immediately.

"ESTA legal counsel has informed us that violations of the anti-trust laws can have serious consequences. Individuals engaged in certain unlawful conduct can be found criminally liable. An individual convicted of a criminal violation of the Sherman Act may be fined as much as \$1,000,000 and imprisoned for up to ten years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

Karl Ruling, the Technical Standards Manager, held up one of the easy-to-read pamphlets. No restraint of trade issues were reported.

7 Approval of agenda

Mitch Hefter asked that an item 10.2.1 about an IESNA control protocols summary document be added. Ted Paget moved that the draft agenda so amended be approved. The motion was seconded and then approved with a show of hands.

8 Old business

8.1 Standards Maintenance. Any news or action needed on any of these standards? This is a placeholder in the agenda, so we don't forget to maintain them.

ANSI E1.3 – 2001 (R2006), Entertainment Technology - Lighting Control Systems - 0 to 10V Analog Control Specification. Revision, reaffirmation or withdraw in 2011.

ANSI E1.11 – 2008, Entertainment Technology - USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories. Revision, reaffirmation or withdraw in 2013.

ANSI E1.27-1 – 2006 , Entertainment Technology - Standard for Portable Control Cables for Use with USITT DMX512/1990 and E1.11 (DMX512-A) Products. Revision, reaffirmation or withdraw in 2011.

ANSI E1.27-2 – 2009, Entertainment Technology - Recommended Practice for Permanently Installed Control Cables for Use with ANSI E1.11 (DMX512-A) and USITT DMX512/1990 Products. Revision, reaffirmation or withdraw in 2014.

ANSI E1.30-3 – 2009, EPI 25, Time Reference in ACN Systems Using SNTP and NTP. Revision, reaffirmation or withdraw in 2014.

ANSI E1.30-7 – 2009, EPI 29, Allocation of Internet Protocol Version 4 Addresses to ACN Hosts. Revision, reaffirmation or withdraw in 2014.

ANSI E1.30-10 – 2009, EPI 32, Identification of Draft Device Description Language Modules. Revision, reaffirmation or withdraw in 2014.

ANSI E1.31 – 2009, Entertainment Technology – Lightweight streaming protocol for transport of DMX512 using can. Revision, reaffirmation or withdraw in 2014.

8.2 BSR E1.20-20xx, Remote Device Management (revision of ANSI E1.20 - 2006)

Report on third public review that ended March 30, 2010.

Karl Ruling reported that there had been no comments offered during the public review.

Ted Paget moved that the document be sent to the TSC editorial committee for editing, and then returned to the working group for a letter ballot to accept it as an American National Standard. The motion was seconded and then approved by a unanimous show of hands.

8.3 BSR E1.37, Additional Message Sets for ANSI E1.20, Remote Device Management

Report on letter ballot for first public review of BSR E1.37-1. The working group letter ballot runs from 22 March through 19 April 2010, reported Ruling. A few had been returned already.

8.4 BSR E1.17, Architecture for Control Networks revision project

Report on progress of editorial committee and letter ballot for first public review.

Philip Nye asked that it be put on record that he is dissatisfied with the delays resulting from the editorial process in issuing this letter ballot. The documents were submitted before the Autumn meeting and have yet to be issued. Ruling promised to have the documents from the editorial committee edited and the letter ballot issued by the third week of April.

8.5 BSR E1.30, Application level equipment interoperability for control of commonly encountered entertainment technology devices using E1.17

8.5.1 BSR E1.30-1, EPI 23 Device Identification Subdevice

Report on public review that ended March 30, 2010.

Karl Ruling reported that there had been no comments offered during the public review.

Philip Nye moved that the document be sent to the TSC editorial committee for editing, and then returned to the working group for a letter ballot to accept it as an American National Standard. The motion was seconded and then approved by a unanimous show of hands.

8.5.2 BSR E1.30-2, EPI 24 Internet Protocol Properties Subdevice

Report on progress. Task Group was optimistic in Nov 2009 that we would have a document for the April USITT meeting, but no progress was reported at the January session.

Philip Nye reported that an implementation of the draft is going to be in production devices on the market soon. The written document is on Dan Antonuk's agenda.

8.5.3 BSR E1.30-4, EPI 26, (DDL) Extensions for DMX512 and E1.31 Devices

Report on editorial committee & final approval as an American National Standard.

Ruling reported that the working group's letter ballot to approve it as an ANS runs from 22 March through 19 April 2010. A few ballots had been returned already.

8.5.4 BSR E1.30-5, EPI 27 Operation of SDT on Wireless Networks

Report on progress. One comment was received in the first public review, a comment from Philip Nye, which had not been resolved. Dan Antonuk reported at the November meeting that this EPI may no longer be needed because of changes to SDT in the ACN errata.

Philip Nye proposed that development of EPI 27 be removed from the agenda. The document is no longer needed. The motion was seconded. The motion was approved by a supermajority on a roll call vote:

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.	Vote?
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	P	CP	
Scott M. Blair	High End Systems Inc.	Barco	P	MP	
Tom Grimes	High End Systems, Inc.	Barco	A	MP	
Paul Kleissler	City Theatrical, Inc.	City Theatrical, Inc.	P	MP	yes
Larry Dunn	City Theatrical, Inc.	City Theatrical, Inc.	A	MP	
Peter Kirkup	Zero 88	Cooper Controls Ltd.	P	MP	yes
Edward A. (Ted) Paget	Vortek Rigging Division	Daktronics Inc.	P	G	yes
Ulrich Kunkel	E3 Engineering & Education for Entertainment GmbH	DIN, NVBF Committee	P	U	
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP	yes
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP	
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP	
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP	
Philip Nye	Engineering Arts	Engineering Arts	P	G	yes
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP	
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G	
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	A	G	yes
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP	yes
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP	
Gary Douglas	Horizon Control Inc.	Horizon Control Inc.	A	MP	
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP	
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	yes
John Huntington	City Tech, Ent Tech Department	I.A.T.S.E. Local 1	A	U	
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	yes
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U	
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U	
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP	yes
Tyrone Mellon Jr.	Lex Products Corp.	Lex Products Corp.	P	CP	yes
David Yellin	LightMinded Industries, Inc.	LightMinded Industries, Inc.	P	MP	
Michael Karlsson	LumenRadio AB	LumenRadio AB	P	MP	
Marcus Bengtsson	LumenRadio AB	LumenRadio AB	A	MP	
Stuart Cotts	Oregon Shakespeare Festival	Oregon Shakespeare Festival	P	U	yes
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP	
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Robert Armstrong	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Ron Bonner	PLASA	PLASA	P	G	yes
Charles Reese	Production Resource Group	Production Resource Group	P	DR	
Robert Tooker	Production Resource Group	Production Resource Group	A	DR	yes
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP	yes
Hans Lau	Sand Network Systems, Inc.	Sand Network Systems, Inc.	P	MP	
Yngve Sandboe	Sand Network Systems, Inc.	Sand Network Systems, Inc.	A	MP	

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.	Vote?
Kimberly Corbett	Schuler Shook	Schuler Shook	P	G	abstain
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	USITT	P	U	yes

	Yes	No	Abstain	Not present	Totals
CP	1	0	0	2	3
MP	6	0	0	7	13
DR	1	0	0	0	1
U	4	0	0	1	5
G	4	0	0	0	4
DE	0	0	1	0	1
Totals	16	0	1	10	27

Eddie Kramer made a motion that the resolution to the first public review commenter (Philip Nye) shall be to take no action as the EPI is no longer being developed as being unneeded. The motion was seconded and then approved with a unanimous show of hands. (Philip Nye, the one public review commenter, thus voted to accept this resolution to his comment.)

8.5.5 BSR E1.30-6, EPI 28 Independent Device Location Properties

Discussion on the status of this project. It received one comment in the first public review, a comment from Philip Nye, which had not been resolved. Dan Antonuk reported at the last meeting that the problem that this EPI is meant to address might be solved with other changes, and the task group should be able to make a recommendation to go forward or to abandon this EPI at USITT 2010

Philip Nye said that this project is no longer needed. It will be eclipsed by the meta-data project. He then moved that the project be ended. The motion was seconded. The motion was accepted by a supermajority on a roll call ballot.

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.	Vote?
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	P	CP	
Scott M. Blair	High End Systems Inc.	Barco	P	MP	
Tom Grimes	High End Systems, Inc.	Barco	A	MP	
Paul Kleissler	City Theatrical, Inc.	City Theatrical, Inc.	P	MP	yes
Larry Dunn	City Theatrical, Inc.	City Theatrical, Inc.	A	MP	
Peter Kirkup	Zero 88	Cooper Controls Ltd.	P	MP	yes
Edward A. (Ted) Paget	Vortek Rigging Division	Daktronics Inc.	P	G	yes
Ulrich Kunkel	E3 Engineering & Education for Entertainment GmbH	DIN, NVBF Committee	P	U	
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP	yes
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP	
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP	
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP	
Philip Nye	Engineering Arts	Engineering Arts	P	G	yes
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP	
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G	

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.	Vote?
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	A	G	yes
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP	yes
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP	
Gary Douglas	Horizon Control Inc.	Horizon Control Inc.	A	MP	
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP	
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	
John Huntington	City Tech, Ent Tech Department	I.A.T.S.E. Local 1	A	U	yes
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	yes
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U	
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U	
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP	yes
Tyrone Mellon Jr.	Lex Products Corp.	Lex Products Corp.	P	CP	yes
David Yellin	LightMinded Industries, Inc.	LightMinded Industries, Inc.	P	MP	
Michael Karlsson	LumenRadio AB	LumenRadio AB	P	MP	
Marcus Bengtsson	LumenRadio AB	LumenRadio AB	A	MP	
Stuart Cotts	Oregon Shakespeare Festival	Oregon Shakespeare Festival	P	U	yes
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP	
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Robert Armstrong	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Ron Bonner	PLASA	PLASA	P	G	yes
Charles Reese	Production Resource Group	Production Resource Group	P	DR	
Robert Tooker	Production Resource Group	Production Resource Group	A	DR	yes
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP	yes
Hans Lau	Sand Network Systems, Inc.	Sand Network Systems, Inc.	P	MP	
Yngve Sandboe	Sand Network Systems, Inc.	Sand Network Systems, Inc.	A	MP	
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE	abstain
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	USITT	P	U	yes

	Yes	No	Abstain	Not present	Totals
CP	1	0	0	2	3
MP	6	0	0	7	13
DR	1	0	0	0	1
U	4	0	0	1	5
G	4	0	0	0	4
DE	0	0	1	0	1
Totals	16	0	1	10	27

Philip Nye moved that the resolution to the comment he offered in the public review shall be to take no action as the EPI is no longer being developed because it is unneeded. Its proposed function will be served by other EPIs. The motion was seconded and then approved with a unanimous show of hands.

8.5.6 BSR E1.30-8, EPI 30 Time Code Properties

Task Group was originally optimistic in November that we would have a draft resolution document for this meeting, however this slipped to July in the January meeting.

Philip Nye reported no movement, but that by the July meeting there may be some progress. The project is closely linked to EPI 31, on which there is more work being done, so EPI 31 is more likely to be done for the July meeting.

8.5.7 BSR E1.30-9, EPI 31 MIDI System Exclusive Properties

Task Group was originally optimistic in November that we would have a draft resolution document for the January meeting, however has been slipped to the March meeting.

What Philip Nye had to report on this was reported under 8.5.6.

8.5.8 BSR E1.30-11, EPI 33, MetaData Device Identification Subdevice.

Report on project announcement, and progress report from the Task Group.

Work continuing and good progress is being made.

There was a discussion of how the task group might kick around new ideas without introducing them into the formal ANSI process, but still keep the process in the sunlight. Chairman Michael Lay directed that the task group should always feel free to do open background work on feasibility studies for future Working Group projects, but once the feasibility of a potential standard was proven, the Task Group must move this to the Working Group agenda and formally announce the project before documentation of an open ANSI standard could begin.

8.5.9 BSR E1.30-12, EPI 34, E1.31 Universe Synchronization.

Report on project announcement, and progress report from the Task Group.

Nye said that work is continuing, that the task group is waiting on contributions from Ulrich Kunkel.

Philip Nye also gave a heads up on video bridging with Ethernet. There is work in IEEE to time-stamp messages so they can be synchronized. Using some combination of hardware and software, up to 75% of the bandwidth on the wire can be reserved, so you get guaranteed latency. This is all happening at level 2 Ethernet, below the IP level. It's a project to replace the proprietary CobraNet. Synchronization and guaranteed latency are important for audio and video, but they could be useful for ACN and streaming DMX data via SDT. AVNU.org is the industry alliance that is working on this. It is not a purely software thing because it needs to be implemented in the hardware of the switches to work.

8.6 BSR E1.33, Extensions to E1.31 for Transport of ANSI E1.20 (RDM)

Task Group was optimistic in November that we would have a draft document for the July meeting, however a first public review vote would will not probably occur until the LDI 2010 session.

Tracy Underhill reported that not much work has been done. The task group is waiting for Kevin Loewen to offer his contribution. Mike Lay said he'd call Loewen and would try to get a firm commitment from him. If no success, he will confer with Dan Antonuk on the best way to move forward on this.

8.7 Ethernet recommended practice

Confirmation that this document was watermarked as "Obsolete, For Reference Only."

Ruling said that that particular wording seemed a little off-putting to him, so he watermarked the document, "Not for new installations. Reference for legacy systems." It's now posted on the ESTA website for free download with the product description:

"The Recommended Practice for Ethernet Cabling Systems in Entertainment Lighting Applications and the Supplement to the Recommended Practice for Ethernet Cabling Systems in Entertainment Lighting Applications are now bundled together to make one

packet. The combined packet is being offered at no cost as a service to people with legacy systems. The practices described are not current state of the art and are not recommended for new installations."

This seemed to be acceptable to the working group.

8.8 CPWG marketing efforts

8.8.1 Consultant Boilerplate document

ESTA_Boilerplate_For_Specifiers_Rev_006.pdf

Ruling reported that the TSC had approved the boilerplate and putting it on the ESTA website for free access.

8.8.2 LDI Sessions

The ESTA Controls Protocol Working Group LDI 2010 Sessions were discussed.

I Didn't Know RDM Could Do That! – Members of the ESTA Control Protocols Working Group demonstrate useful applications of the ANSI E1.20 – 2006 - Entertainment Technology Remote Device Management over USITT DMX512 Networks standard. Watch and listen as the authors of this standard use a wide array of manufacturers products from the LDI show floor to demonstrate the time and labor saving features of systems using this control protocol.

Moderator: Scott Blair, High End Systems

Panelists: Milton Davis, Doug Fleenor Design; Peter Willis, Howard Eaton Lighting; Robert Goddard, Goddard Design; Robert Tooker, Production Resource Group; Ulrich Kunkel; E3 Engineering & Education for Entertainment GmbH

I Didn't Know ACN Could Do That! - Members of the ESTA Control Protocols Working Group demonstrate useful applications of the ANSI E1.17 – 2006 - Entertainment Technology - Architecture for Control Networks. Watch and listen as the authors of this standard use a wide array of manufacturers products from the LDI show floor to demonstrate the time and labor saving features of systems using this control protocol.

Moderator: Dan Antonuk, Electronic Theatre Controls

Panelists: Philip Nye, Engineering Arts; Alan Martello, Horizon Control Inc. John Huntington, City Tech, Entertainment Tech Department; Kevin Loewen, Pathway Connectivity Inc.; Ulrich Kunkel; E3 Engineering & Education for Entertainment GmbH

ACN and RDM – Perfect Together! – Members of the ESTA Control Protocols Working Group demonstrate the seamless use of the ACN and RDM standards using a wide array of manufacturers products. Let the CPWG demonstrate for you “when it makes sense” to use both of these control protocols in a single system.

Moderators: Dan Antonuk, Electronic Theatre Controls; Scott Blair, High End Systems

Panelists: Milton Davis, Doug Fleenor Design; Robert Tooker, Production Resource Group; Philip Nye, Engineering Arts; Alan Martello, Horizon Control Inc.; John Huntington, City Tech, Entertainment Tech Department; ; Ulrich Kunkel; E3 Engineering & Education for Entertainment GmbH

Mitch Hefter asked for USITT session ideas. There will be meeting tomorrow to set the sessions for next year.

8.8.3 LDI Connectivity Pavilion

The LDI Connectivity Pavilion was discussed. Karl Ruling was given the task of asking if there is space on the show floor for the pavilion.

8.8.4 Protocol Articles

Mike Lay said that Milton Davis and Dan Antonuk had agreed to write some articles for *Protocol* to help publicize the working group's products.

8.8.5 July Plugfest

Will we have one in July? Scott Blair was not present, but the group assumed that he will be organizing a July plugfest. It's a popular and useful event.

9 New business

9.1 Co-Chair Status

Tracy Underhill reported that he is no longer with EDI and cannot continue as co-chair. He started to thank the group for allowing him to serve them, but he was interrupted by thanks from the floor and applause for his years of service as a co-chair on the Control Protocols Working Group and his many technical contributions to the Technical Standards Program. He suggested that people offer nominations for another co-chair. These nominations were offered from the floor:

Doug Fleenor
Eddie Kramer
Kimberly Corbett
Paul Kleissler
Roger Lattin
Stuart Cotts [Note: Cotts withdrew his nomination after the meeting.]
Ted Paget

The selection of the next co-chair to be recommended to the TSC will be by the instant run-off ranked voting procedure used in the past.

9.2 Other new business

None.

10 Other business

10.1 Open ACN

Philip Nye reported that quite a lot of work had been done by Shure, which is working on a demonstrator application. He now needs to merge this into the public ACN code. He also will merge E1.31 into the code.

10.2 Other other business

10.2.1 IESNA docs

Mitch Hefter described the document that the IESNA Controls Protocol group is working on. The draft that had been unofficially sent to him has many errors and omissions. He asked if we want to take on working with the IESNA committee as a formal project or just offer comments?

Ruling argued against undertaking working with the IESNA on their document as a formal project. We have many projects of our own already, and they are being slowed by our limited resources. Eddie Kramer argued for a formal liaison, saying it would be good for us to work together.

Philip Nye reported on that the Audio Engineering Society has published a control protocol summary, and it is a useful document.

Mike Lay suggested we keep this IESNA project on the agenda and Mitch Hefter update us on it. This seemed to be acceptable to the working group, but no motion was made and no vote taken.

The consensus was that Mitch Hefter should send this IESNA committee our specifiers' boiler plate so they will use the correct names when referencing our standards.

10.2.2 USITT sessions

Philip Nye reported that on Saturday afternoon he will be offering "DDL Demystified" at 1:30 p.m. in room 2206 of the convention center. He will describe how DDL works.

11 Schedule for future meetings

It was announced that the next meeting is scheduled for Saturday, 24 July 2010, from 14:00 to 16:00 at the Dallas/Ft. Worth Marriott Solana in Westlake, Texas.

12 Adjournment

Ted Paget moved that the meeting adjourn. The motion was seconded. Hearing no objections, Tracy Underhill declared the meeting adjourned at 11:15.

Working Group Membership and Contact Information as of 7 April 2010

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Tracy Underhill	4U Consulting	4U Consulting	O	G
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	P	CP
Tim Bachman	A.C.T Lighting, Inc.	A.C.T Lighting, Inc.	O	DR
Larry Busch	ADB Lighting Technologies	ADB Lighting Technologies	O	MP
John Sellers	AIM Northwest	AIM Northwest	O	G
André Broucke	André Broucke	André Broucke	O	G
Jon Lenard	Applied Electronics	Applied Electronics	O	MP
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	O	U
Wayne David Howell	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	O	CP
Simon Hobday	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	O	CP
Steve Friedlander	Auerbach Pollock Friedlander	Auerbach Pollock Friedlander	O	U
J. B. Toby	Avolites Ltd.	Avolites Ltd.	O	MP
Shahid Anwar	Avolites Ltd.	Avolites Ltd.	O	MP
Richard Salzedo	Avolites Ltd.	Avolites Ltd.	O	MP
Barbara Wohlsen	Barbara Wohlsen	Barbara Wohlsen	O	U
Tobin Neis	Barbizon Companies	Barbizon Companies	O	DR
Scott M. Blair	High End Systems Inc.	Barco	P	MP
Tom Grimes	High End Systems, Inc.	Barco	A	MP
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Bernardo Benito Rico	Ben-Ri Electronica S.A.	Ben-Ri Electronica S.A.	O	MP
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Soo-Myong Chung	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
Will Wagner	Carallon Ltd.	Carallon Ltd.	O	MP
Steve Roberts	Carr & Angier	Carr & Angier	O	G

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Bob Toms	Catalyst Microsystems LLC	Catalyst Microsystems LLC	O	G
Chuck Seifried	Phoenix Civic Plaza	City of Phoenix	O	U
Paul Kleissler	City Theatrical, Inc.	City Theatrical, Inc.	P	MP
Larry Dunn	City Theatrical, Inc.	City Theatrical, Inc.	A	MP
Fabiano Pina	Clay Paky S.P.A.	Clay Paky S.P.A.	O	MP
Yehuda Shukram	Compulite Systems	Compulite Systems	O	MP
Dietmar Rottinghaus	Connex GmbH	Connex GmbH	O	G
Peter Kirkup	Zero 88	Cooper Controls Ltd.	P	MP
Paul Kenneth McEwan	Zero 88	Cooper Controls Ltd.	O	MP
Edward A. (Ted) Paget	Vortek Rigging Division	Daktronics Inc.	P	G
David Bertenshaw	David Bertenshaw	David Bertenshaw	O	G
Larry Schoeneman	Designlab Chicago, Inc.	Designlab Chicago, Inc.	O	DR
Ulrich Kunkel	E3 Engineering & Education for Entertainment GmbH	DIN, NVBF Committee	P	U
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP
Gary Dove	Dove Systems	Dove Systems	O	MP
Jerry Durand	Durand Interstellar, Inc.	Durand Interstellar, Inc.	O	CP
Jussi Kallioinen	Eastway Sound & Lighting	Eastway Sound & Lighting	O	U
Edward R. Condit	Edward R. Condit	Edward R. Condit	O	G
Ed Jones	Edwin Jones Co., Inc.	Edwin Jones Co., Inc.	O	CP
Joost van Eenbergen	ELC Lighting	ELC Lighting	O	MP
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Adam Bennette	Electronic Theatre Controls Ltd.	Electronic Theatre Controls, Inc.	O	MP
Hans Leiter	ETC GmbH	Electronic Theatre Controls, Inc.	O	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP
Ralph Weber	ENDL Texas	ENDL Texas	O	G

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Philip Nye	Engineering Arts	Engineering Arts	P	G
Eric Johnson	Eric Johnson	Eric Johnson	O	MP
Eric Proce	Eric Proce	Eric Proce	O	U
Erwin Rol	Erwin Rol Software Engineering	Erwin Rol	O	G
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP
Sierk Janszen	Kiss Box	Ground Zero	O	U
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	A	G
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Bill Hewlett	Hewlett Electronics	Hewlett Electronics	O	CP
Steve Carlson	High Speed Design, Inc.	High Speed Design, Inc.	O	MP
Kirk D. Keen	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP
Gary Douglas	Horizon Control Inc.	Horizon Control Inc.	A	MP
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP
Paul J. Clark	HxDx	HxDx	O	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
John Huntington	City Tech, Ent Tech Department	I.A.T.S.E. Local 1	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Geoffrey O. Thompson	Nortel Networks, Inc.	IEEE 802.3/Nortel Networks	O	G
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	O	CP
Michael (Mike) Whetstone	Integrated Theatre, Inc.	Integrated Theatre, Inc.	O	CP
Rob Johnston	Interactive Technologies, Inc.	Interactive Technologies, Inc.	O	MP

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Hamish Dumbreck	JESE Ltd.	James Embedded Systems Engineering	O	MP
David Timmins	Jands Electronics	Jands Electronics	O	MP
Helge Hoffmann	JB Lighting	JB Lighting	O	MP
Josh Gubler	Josh Gubler	Josh Gubler	O	CP
John Mehlretter	Lehigh Electric Products Co.	Lehigh Electric Products Co.	O	MP
Mark T. Kraft	Lehigh Electric Products Co.	Lehigh Electric Products Co.	O	MP
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP
Rick Leinen	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	O	MP
Lars Wernlund	Lewlight	Lewlight	O	MP
Tyrone Mellon Jr.	Lex Products Corp.	Lex Products Corp.	P	CP
Klaus Amling	Licht-Technik	Licht-Technik	O	MP
David Yellin	LightMinded Industries, Inc.	LightMinded Industries, Inc.	P	MP
Andrew Sherar	Lightmoves PLC	Lightmoves PLC	O	MP
Avraham Mendall Mor "Avi"	Lightswitch	Lightswitch	O	U
Simon Alpert	Lighttech Event Technologies	Lighttech Event Technologies	O	CP
Gary Pritchard	LSC Lighting Systems (Aust) PTY Ltd	LSC Lighting Systems PTY Ltd	O	MP
Michael Karlsson	LumenRadio AB	LumenRadio AB	P	MP
Marcus Bengtsson	LumenRadio AB	LumenRadio AB	A	MP
Bart Swinnen	Luminex LCE	Luminex LCE	O	MP
Jim Holladay	Luxence	Luxence	O	G
Torben Kaas Rasmussen	Martin Professional A/S	Martin Professional A/S	O	G
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Stuart Cotts	Oregon Shakespeare Festival	Oregon Shakespeare Festival	P	U
David A. Boller	Organic Machines LLC	Organic Machines LLC	O	CP
William Benner	Pangolin Laser Systems	Pangolin Laser Systems	O	MP
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Robert Armstrong	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Ron Bonner	PLASA	PLASA	P	G
James Eade	PLASA	PLASA	O	G
Charles Reese	Production Resource Group	Production Resource Group	P	DR
Robert Tooker	Production Resource Group	Production Resource Group	A	DR
Paul F. Mardon	Pulsar Ltd.	Pulsar Ltd.	O	MP
Steve Unwin	Pulsar Ltd.	Pulsar Ltd.	O	MP
Stephen J. Tyrrell	Quantum Logic	Quantum Logic	O	MP
Douglas Franz	QVC Network	QVC Network	O	U
Andrew Eales	Wellington Institute of Technology	Rhodes University	O	U
Osedum P. Igumbor	Dept. of Computer Science	Rhodes University	O	U
Nyasha Chigwamba	Dept. of Computer Science	Rhodes University	O	U
Charlie Richmond	Richmond Sound Design Ltd.	Richmond Sound Design Ltd.	O	CP
Martin Farnik	Robe Show Lighting s.r.o.	Robe Show Lighting s.r.o.	O	MP
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP
Mike Blackwell	Philips/Color Kinetics	Royal Philips Electronics	O	MP
John Warwick	Philips/Color Kinetics	Royal Philips Electronics	O	MP
Hans Lau	Sand Network Systems, Inc.	Sand Network Systems, Inc.	P	MP
Yngve Sandboe	Sand Network Systems, Inc.	Sand Network Systems, Inc.	A	MP
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE
Lars F. Paape	Scientific Algorithms and Embedded Systems	Scientific Algorithms and Embedded Systems	O	U
Mick Martin	ShowCAD Control Systems	ShowCAD Control Systems	O	MP
Loren Wilton	Showman Systems	Showman Systems	O	CP
Mark Manthei	Shure Inc.	Shure Inc.	O	G
Kehang Wu	Shure Inc.	Shure Inc.	O	G

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Simon Newton	Simon Newton	Simon Newton	O	G
Jon R. Farley	Sixteenth Avenue Systems	Sixteenth Avenue Systems	O	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	U
Ujjal Kar	Standard Robotics & Lighting	Standard Robotics & Lighting	O	G
Storm K. Staley	Stormwerx	Stormwerx	O	U
Paul K. Ericson	Syska Hennessy Group Lighting Design	Syska Hennessy Group Lighting Design	O	U
Stephen Bickford	T. Kondos Associates	T. Kondos Associates	O	U
Tad Trylski	Tad Trylski	Tad Trylski	O	U
Klas Dalbjorn	Labgruppen AB	TC Group	O	MP
Dominic Vincenty	TPS	Television Production Service	O	DR
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	O	G
Colin Waters	TMB	TMB	O	U
Phillip M. Gallo	TMB	TMB	O	DR
Sean Harding	Trinity Repertory Company	Trinity Repertory Company	O	U
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	USITT	P	U
Torrey Bievenour	Vision Quest Lighting	Vision Quest Lighting	O	G
Eric Cornwell	West Side Systems	West Side Systems	O	U
Ben Darrington	Wireless Solutions Sweden AB	Wireless Solutions Sweden AB	O	MP
John Sondericker III	Wybron, Inc.	Wybron, Inc.	O	MP
Larry Zoll	Zoll Design & Consulting, LLC	Zoll Design & Consulting, LLC	O	U

Key to codes:

P	principal voting member	MP	mass-market producer interest category
A	alternate voting member	CP	custom-market producer interest category
I	individual voting member	DR	dealer or rental company interest category
O	observer, non-voting	U	user interest category
		G	general-interest interest category
		DE	designer

