

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Spring 2009 Meeting Minutes and Committee Reports

March 11, 2009
San Antonio, Texas

Opening & Quorum Determination

- Meeting called to order at 0800
- Attendees were
 - Scott Brierley (m)
 - Lee Eccles(m)
 - David Grebe(m)
 - Sheila Horan (m)
 - Lorin Klein(m)
 - Wayne Klein (a)
 - Greg Kazz (m)
 - John Kolb (m)
 - Gerhard Mayer (m)
 - Steve Nicolo (m)
 - Jim Yates(m)
 - Bob Givens (RCC TG-Chair)
 - Bill Rymer (IFT Rep)

Legend:

(m) Is a member

(a) Is an alternate

(*) Invited Guest/past member

A quorum of members was present.

Meeting Minutes

1/4

Reviewed and approved agenda.

Reviewed the following reports:

- Chairman
- Secretary Treasurer

After reviewing the Committee's financial status and some discussion, it was agreed to ask the IFT for the customary \$1,000 funding for 2010. Our Chair will include the request in the annual report to the IFT.

Committee Reports: (reports follow these minutes)

Nominating Committee, RF, Networks, Data Multiplex, Transducers, Coding/Data Compression, Recorder/Reproduce

Meeting Minutes

2/4

Chair Report, Action Item

Sheila will work with Dan Skelley to allow the TSCC members access to the INET Portal web site. It is expected that this will represent a large amount of review work for the committee.

Nominating Committee Motions and Action Items:

Motion made & carried : To Accept Myron Moodie from SWRI as a TSCC member. He will be in the Class of 2014.

Sheila reported that she has tried unsuccessfully to contact Mike Pizzutii and due to his nonattendance, she has decided to vacate his membership. Myron Moodie will fill his slot, leaving two positions still open. The desire is to fill these with Government members, perhaps from EAFB and NASA for balance.

Jim will contact Dan Skelley about his future involvement plans. This to be closed out at fall meeting.

Sheila reported that she will follow up with the WSMR members who have moved on to other responsibilities and may not wish to continue membership.

ACTION ITEM : Marj will need to reflect the two changes on the web site.

Meeting Minutes

3/4

Recorder/Reproducer Committee:

ACTION ITEM : Lorin requests the Web Site be updated to show Mark Buckley as his Alternate

New Business:

According to the TSCC bylaws, letters of support should be on file for each member, and the Chair asks everyone to send a copy to the Secretary.

Sheila requests that all members have Alternates who need to be approved by the Committee. We will review and approve the Alternates at the Fall meeting.

The Vice Chair will facilitate the Standards Award paper selection process this year. Committee will include: David Grebe, Sheila Horan, Scott Brierley, Lorin Klein, Lee Eccles, and James Yates.

The Chair will work with Bob Givens regarding a joint session at ITC, perhaps in the area of what new standards are needed, perhaps Best Stream Selection.

Meeting Minutes

4/4

Next meeting:

It was agreed that combining the TSCC spring meeting with the RCC meeting makes attendance for the government folks difficult. It was suggested that we move the meeting to Thursday to minimize the conflict. The Chair will also investigate the possibility of holding the meeting in conjunction with an INET meeting since this is seen as the source of the majority of our efforts for the immediate future.

Having no other Topics or Business brought forward, the meeting was Adjourned at 1145.

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Spring 2009 Meeting San Antonio, TX

March 11, 2009

Agenda

800	Call to Order	Horan
810	Attendance and Determination of uorum	Grebe
815	Review and Approve Agenda	Horan
0830	Officer Reports	
	Chair	Horan
	Secretary-Treasurer	Grebe
	Approval and review of last Minutes	
	Financial Status	
	Action Item Review	Horan

Agenda

0900 Committee Reports

Nominating Committee

Yates

New nominations/follow-up on members

Changes since Last meeting

Radio Frequency

Brierley

Data Multiplex

Nicolo

Networking and Protocols

Yates

Transducers

Eccles

Coding/Data Compression

Horan

Recorder / Reproducer

Klein

ETSC Report

Mayer

1000 Old Business

Horan

1200 Lunch

All

1400 New Business

All

1700 Adjourn

All

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Chairman's Report

March 11, 2009

Significant Activity (2008-09)

- Current meeting with RCC – upcoming standards from i-net.
- Awarded Best Telemetry Standards paper award at ITC 2008 (Considerations for Deploying IEEE-1588v2 in DAS and Telemetry Systems - Newton, Grim, Moodie)
- Two TSCC meetings were held - 2008
 - (Spring) March 4th/5th joint TSCC/RCC/TG meeting in Somerton, AZ
 - (Fall) October 27nd in San Diego in conjunction with ITC

Current TSCC Focus Areas

- New Telemetry Standards – i-net
- Membership recruiting – non active members
- Web improvements
- Best paper and special sessions for ITC
- Stay current with bylaws

Treasurer Report

for the Period 10/25/08 thru 3/6/09

■ INCOME	
• Funding Received, IFT	\$0,000.00
■ EXPENDITURES	
• Award Plaques	\$ 365.30
■ Net Increase (Decrease) in Cash	(\$ 365.30)
■ Beginning Cash Balance	\$ 1,979.76
■ Ending Cash Balance	\$ 1,614.46

Action Item Review

Nominating committee Action Items:

Two open membership slots:

- New Chair
- New Vice-chair

Need third nominating committee member

Update on Chuck Weaver and Fil Macias

RF subcommittee action items:

Need to update TSCC website for RF subcommittee members

Need contact information for Gene Law

Action Item Review

Data Multiplex – Action Items:

- Ongoing effort to keep TMATS IRIG 106 Chapter 9 and XML Scheme Current
- TMATS Handbook
- Review Pink Sheets
- Data compression:
Website needs work

Action Item Review

Recorder/Reproducer Subcommittee Action Items:

RCC TG Addressing Ground TM Recorders

- IRIG 106 Chapter 7 -- "Ground Based Digital Recording Standard (Solid State and Disk Systems)"

Anyone Still Using Tape?

- RCC TG considering moving ID-1 and VLDS to the Appendix (not recommended for new purchases)

RMM Security – TG-85

- New RCC POC to STANAG
- RCC Omnibus contract awarded

Digital Recorder Programmers Handbook – TG-83

- Document is in preparation for release by the RCC

Update to IRIG 118 Update on Hold

- IRIG 106 Ch10 format validation techniques

Action Item Review

ETSC Action items:

“WRC Bands” Telemetry Issues:

- *C-Band Systems & Standards, wave propagation, up front evaluation of tracking algorithms & systems*

Investigate potential of existing standards for wireless; e.g., intra-aircraft, RDAU-networking (*IEEE 802.11n and UWB*)

Next ETSC- Meeting

- *Venue: Centre de Congrès “Pierre Baudis”, June 24 - 26, 2009, ETTC 2009 Toulouse, France*

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Nominating Subcommittee

Status Report
March 11, 2009

TELEMETERING STANDARDS COORDINATION COMMITTEE



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RF Subcommittee

Status Report
11 March, 2009

Membership

- Scott Brierley
 - Mark Bender
 - Mark Dapore
 - Lloyd Lautzenhiser
 - Eugene Law
 - Warren Martin
 - Bill McNatt
 - Rich Siegal

Subcommittee Focus

- RF Subcommittee reviews standards dealing with the radio frequency (RF) telemetry link
- Current standards
 - **RCC IRIG-106**
 - **RCC IRIG-118**
 - **RCC RF Handbook**
 - **CCSDS-401**
 - **CCSDS-411**
 - **SGLS**
 - **STDN**
 - **1451.5**

Significant Activity

- No standards reviewed since the Fall meeting

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Data Multiplex Subcommittee

Status Report
March 6, 2009

Membership

- Steve Nicolo
 - Howard Eckstien
 - Alain Hackstaff
 - Bill Rymer
 - Dave Sniffin
 - Erwin Straehley
 - Duane Weaton

Subcommittee Focus

■ Current standards

- IRIG-106
 - Part 1: Telemetry Standards
 - Chapter 3: FM Data Standards
 - Chapter 4: PCM Data Standards
 - Chapter 8: Bus Data Formatting Standards
 - Chapter 9: TMATS
 - Part 2: Telemetry Networks
 - Chapter 4: Packet Telemetry Standards
- RCC IRIG-118: Test Methods
- RCC IRIG-119: Telemetry App's Handbook

Significant Activity

- Joint RCC/TSCC Meeting ITC 2008
- Presented TSCC Data Mux Committee Status at ITC 2008
- Presented paper on Best Source Selection and the need for RCC BSS standards at ITC 2008
- RCC Completed, Distributed and Reviewed Pink Sheets (Oct 2008)
 - Chapter 9 Changes
 - Message Data Attributes New
 - DDML 3.1 Changes
 - Appendix O Changes
 - Derived Parameter English New
- TMATS
 - Work Continues on TMATS Handbook

Open Actions

■ New Work Tasks

- Ongoing effort to keep TMATS IRIG 106 Chapter 9 and XML Scheme Current
- TMATS Handbook
- Explore possible related INET activities

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2009 Networking & Protocols Subcommittee Report

March 11, 2009
Holiday Inn Downtown Market Square
San Antonio, TX

Membership

- Chair - James Yates, L-3 Communications Telemetry & RF Products
- Ken Fischer – L-3 Communications Nova
- Mark McMillan – CEO Amergint (former CEO and founder of RT Logic)
- Have requests out to two more individuals
- Looking for recommendations from other TSCC members

Subcommittee Focus

- RCC IRIG-106 Part 2 (future)
- Currently awaiting release draft standards of iNet working groups
 - CLSWG – CP status on next slide
 - TASWG – Currently at version 0.5.0 (12/19/08)
 - SMSWG – Currently at revision 0.5.2a of the proposed standard (as of 02/19/09)

Subcommittee Focus

CLSWG WORKING CP and STANDARDS STATUS				
CP-00 Outline	Complete			
CP-01 Spectrum, bandwidth, rates, polarization	Complete			
CP-02 Regulatory Specifications, Spectral Masks	Complete			
CP-03 Carrier, Clock Accuracy, Phase Noise and Spurs	Revise			
CP-04 Physical Layer Modulation	Complete			
CP-05 Coding	Complete			
CP-06 & 07 Physical Layer Signal Synchronization and Burst Sequence Format	Complete			
CP-08 TDMA Structure	Complete			
CP-09 & 10 Link layer Packet Framing and Data Handling	Complete			
CP-11 to 13 Link Layer Control Messaging	Complete			
CP-14 Sequencing Information, Startup, Activation, Deactivation	Ongoing			
CP-16 Link Layer Encryption/Decryption	review			
CP-17 MIB for CLSWG3	Draft/review			
CP-REF-1 Channel/Spectrum Usage, System Link Budgets, Channel Model, Transmitter and Receiver Models	Complete			
CP-SQS-REF-1 Transmitter Signal Quality and Receiver Performance Requirement Thresholds for CLSWG3	review			
CLSWG Standards Document	Experimental			

Subcommittee Focus

- SCPS
- No current changes in review

Subcommittee Focus

- CCSDS
- Current Docs in Review

	Document #	Document Name	Type	Date	Issue	Comments Due By
Click Here to Review	CCSDS 911.1-P-2.1	Space Link Extension-- Return All Frames Service Specification	Pink Sheets	12/2008	2.1	3/11/2009
Click Here to Review	CCSDS 911.2-P-1.1	Space Link Extension-- Return Channel Frames Service Specification	Pink Sheets	12/2008	1.1	3/11/2009
Click Here to Review	CCSDS 911.5-P-1.1	Space Link Extension-- Return Operational Control Fields Service Specification	Pink Sheets	12/2008	1.1	3/11/2009
Click Here to Review	CCSDS 912.1-P-2.1	Space Link Extension-- Forward CLTU Service Specification	Pink Sheets	12/2008	2.1	3/11/2009
Click Here to Review	CCSDS 912.3-P-1.1	Space Link Extension-- Forward Space Packet Service Specification	Pink Sheets	12/2008	1.1	3/11/2009

Subcommittee Focus

- CCSDS
- Recently completed reviews

	Document #	Document Name	Type	Date	Issue	Comments Due By
Click Here to Review	CCSDS 301.0-P-3.1	Time Code Formats	Pink Sheets	11/2008	3.1	2/27/2009
Click Here to Review	CCSDS 132.0-P-1.1	TM Space Data Link Protocol	Pink Sheets	12/2008	1.1	2/18/2009
Click Here to Review	CCSDS 232.0-P-1.1	TC Space Data Link Protocol	Pink Sheets	12/2008	1.1	2/18/2009
Click Here to Review	CCSDS 732.0-P-2.1	AOS Space Data Link Protocol	Pink Sheets	12/2008	2.1	2/18/2009
Click Here to Review	CCSDS 135.0-P-3.1	Space Link Identifiers	Pink Sheets	12/2008	3.1	1/23/2009
Click Here to Review	CCSDS 353.0-R-1	Symmetric Encryption	Red Book	10/2008	1	1/9/2009
Click Here to Review	CCSDS 133.1-P-1.1	Encapsulation Service	Pink Sheets	03/2008	1.1	12/31/2008
	CCSDS 702.1-R-3	IP over CCSDS Space Links	Red Book	09/2008	3	12/10/2008

Subcommittee Focus

- CCSDS
- Recently completed reviews

Click Here to Review	CCSDS 910.11-R-3	Space Communication Cross Support--Service Management--Service Specification	Red Book	10/2008	3	11/14/2008
Click Here to Review	CCSDS 401.0-P-19.1	Radio Frequency and Modulation Systems--Part 1: Earth Stations and Spacecraft	Pink Sheets	08/2008	19.1	10/9/2008
Click Here to Review	CCSDS 414.1-R-1	Pseudo-Noise (PN) Ranging Systems	Red Book	08/2008	1	10/9/2008
Click Here to Review	CCSDS 502.0-P-1.1	Orbit Data Messages	Pink Book	07/2008	1.1	9/23/2008
Click Here to Review	CCSDS 521.1-R-1	Spacecraft Monitor and Control--Common Services	Red Book	09/2007	1	11/30/2007
Click Here to Review	CCSDS 522.0-R-1	Spacecraft Monitor and Control--Core Services	Red Book	09/2007	1	11/30/2007

Subcommittee Focus

■ Recently completed reviews

Click Here to Review	CCSDS 521.0-R-1	Spacecraft Monitor and Control--Message Abstraction Layer	Red Book	07/2007	1	9/21/2007
Click Here to Review	CCSDS 851.0-R-1, 852.0-R-1, 853.0-R-1, 854.0-R-1, 855.0-R-1, 871.0-R-1, 871.1-R-1, 872.0-R-1, 873.0-R-1	Spacecraft Onboard Interface Services	Red Book	06/2007	1	9/14/2007
Click Here to Review	CCSDS 644.0-P-2.1	The Data Description Language EAST Specification (CCSD0010)	Pink Sheets	2/2007	2.1	6/21/2007
Click Here to Review	CCSDS 735.1-R-1	Asynchronous Message Service	Red Book	2/2007	1	5/9/2007
Click Here to Review	CCSDS 505.0-R-1	XML Specification for Navigation Data Messages	Red Book	11/2005	1	3/31/2006

Subcommittee Focus

- **TCP**
 - Status – no change
- **UDP**
 - Status – no change
- **FTP**
 - Status – no change
- **SNMP**
 - Status – no change

Subcommittee Focus

- **IEEE-1588**

- **Status**

- Balloting on IEEE 1588 version 2 began on July 5, 2007
- The IEEE 1588-2008 (**version 2**) was approved by the IEEE Standards Board Review Committee as an IEEE standard at their March 27, 2008 meeting. The standard was published on July 24, 2008.

Significant Activity

- Arrange for new members of subcommittee to review upcoming iNet draft standards
- Push several CCSDS standards out for review
 - **Comments were light**

Open Actions

- None currently

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Transducer Subcommittee

March 11, 2009
Holiday Inn Downtown Market Square
San Antonio, TX

Membership

- Lee Eccles, Chair – Boeing Commercial Airplanes
 - TBD
 - ...

Subcommittee Focus

- Transducers
- Current Standards
 - IEEE 1451 Standards Family
 - IEEE p1451.7 Smart Transducer Using RFID for Communication – Balloted
 - IEEE 1451.2 – Being revised to add communication methods
 - RS-232/RS-422
 - USB
 - SPI

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Coding and Data Compression

**Status Report
March 11, 2009**

Membership

- Sheila Horan, Chair - NMSU
 - Michael Marcellin, Alternate - Univ. of Arizona
 - Chuck Creusere – NMSU
 - Stephen Horan – NMSU
 - Aaron Kiely – JPL
 - Matt Klimesh – JPL
 - M. MacMedan – Emeritus

Membership - Continued

- George Nelson - Delta Information System
- Jimmie Perkins – Raytheon
- Khalid Sayood – Univ. of Nebraska – Lincoln
- Pen-Shu Yeh – NASA-Goddard
- Gary Thom – Delta Information System
- Steve Nicolo – GDP Space Systems

Subcommittee Focus

- Data Compression and Coding
- Current Standards – Updates

Significant Activity

- The Multispectral & Hyperspectral Data Compression working group of the CCSDS is planning to pick an algorithm for standardization at their April meeting
- There are minor updates to the JPEG info available at www.jpeg.org
- JPEG XR is a new compression format supporting high dynamic range and promises to bring a new level of successful user experience to users of digital cameras.
- JPEG XR advanced to draft international standard balloting at the San Francisco meeting, entering the final phases of standardization and freezing the specification for implementers. The committee expects the JPEG XR International Standard (IS) to be published later this year.

Significant Activity – JPEG 2000

JPEG 2000 Part 8: Secure JPEG 2000, also known as JPSEC, has passed the balloting process and is now formally an ISO Standard (ISO/IEC 15444-8). The JPSEC standard addresses security services for JPEG 2000 images and thus jointly addresses security and media compression in a single specification. This combination allows protected images to retain all the JPEG 2000 system features such as scalability, JPIP network browsing, simple transcodability and progression to lossless. JPSEC offers exciting opportunities for secure global distribution and e-commerce for digital images, allowing storage of partially or fully encrypted content, while still retaining the ability to adaptively deliver content for a wide variety of devices with varying display capabilities.

Significant Activity – JPEG 2000

Part 10 of JPEG 2000, JP3D, was published as an International Standard in December 2008. This provides excellent coding performance and functionality for representation of three dimensional volumetric data sets such as medical diagnostic images, biological data, weather and scientific data. The standard, ITU T-809 (or ISO 15444-10) is available for free at <http://itu.int>

JPEG 2000 Part 11: Wireless, also known as JPWL, has become an International Standard. JPWL has standardised tools and methods to achieve the efficient transmission of JPEG 2000 imagery over an error-prone wireless system. The JPWL ad hoc group has released reference software at openjpeg.org and has created test bit streams for compliance testing.

Open Actions

- Complete information table for website

TELEMETERING STANDARDS COORDINATION COMMITTEE



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Recorder/Reproducer Subcommittee

March 11, 2009
Holiday Inn Downtown Market Square
San Antonio, TX

Membership

- Lorin Klein (AAC, Eglin AFB, FL, USA), Chairman
- Mark Buckley (JDA Associates, Concord, CA, USA)
Alternate Chairman
 - Balázs Bagó (Heim Systems GmbH, Bergisch Gladbach, Germany)
 - Bob Baggerman (Georgia Tech Research Institute, Atlanta, GA, USA)
 - Tim Chalfant (AFFTC, Edwards AFB, CA, USA)
 - Tim Gatton (Wyle Laboratories, California, Maryland, USA)
 - Mike Lockhard (EMC Corp, Irvine, California, USA)
 - Barbara Wood (QinetiQ Boscombe Down, Salisbury, Wiltshire, UK)

Subcommittee Focus

- Data Recorders, Ground and Airborne
- Standards in Place
 - IRIG 106-07 -- Range Commanders Council (RCC) Telemetry Standards
 - STANAG 4575 – North Atlantic Treaty Organization (NATO) Standard Agreement (STANAG) – NATO Advanced Data Storage Interface (NADSI)
 - ANSI ID-1 -- Recorded Instrumentation Digital Cassette Tape Format
 - MIL-STD-2179 – Helical Digital Recording Format For 19-MM Magnetic Tape Cassette Recorders/Recorders

Significant Activity

- RCC IRIG 106-09 submitted for release – Changes effect:
 - Chapter 10 (Solid State Recorders)
 - Revised Recorder Configuration File Section
 - Added Telnet to Ground Recorder Interface Protocols
 - Packet Header Version Changed to Data Type Version
 - Revisions to 16PP194, Analog, Computer Generated Data Packets
 - Revisions to Recorder Discrete Controls
 - Revisions to Declassification
 - Revisions to RMM and Added RMM Commands for Declassification
 - Revisions to Data Interoperability

Significant Activity (cont.)

- RCC IRIG 106-09 Changes (cont.)
 - Chapter 9 (Telemetry Attributes Transfer Standard–TMATS)
 - Chapter 6 (Digital Cassette Helical Scan Recorder/Reproducer, Multiplexer/Demultiplexer, Tape Cassette, and Recorder Control and Command Mnemonics Standards)
 - Clarify States and Commands (Arguments and Returns)
 - Add Mil-Std-1553 Command and Control Protocol
 - Add Ethernet Command and Control Protocol

Significant Activity (cont.)

- RCC IRIG 106-09 Changes (cont.)
 - Chapter 10 and Chapter 6 Configuration Management Systems Instituted

Open Actions

- RCC TG Addressing Ground TM Recorders
 - IRIG 106 Chapter 7 – Ground Based Digital Recording Standard (Solid State and Disk Systems)

Open Actions

- RMM Security – TG-85 (closed)
 - RCC Omnibus contract complete
- Digital Recorder Programmers Handbook – TG-83 (closed)
 - Document is ready for release by the RCC
- Update to IRIG 118 (possibly picked up in 106-11 activity)
 - IRIG 106 Ch 10 format validation techniques

TELEMETERING STANDARDS COORDINATION COMMITTEE



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ETSC Report

**March 11, 2009
Holiday Inn Downtown Market Square
San Antonio, TX**

Membership

- **Committee Chair**

Gerhard Mayer , Gilles Freaud (A)

- **Subcommittee Chair**

- **SC-1: RF Spectrum & Freq.. M^{nt}**

Jean-Claude Ghnassia, Jean Isnard (A)

- **SC-2: Data Acquisition & Processing**

Werner Lange, Christian Herbepin (A)

- **SC-3: Data Recording & Storage**

Steve Lyons , Balasz Bagó (A)

(A) Alternate

Subcommittee Focus

- SC-1: Spectrum availability & efficient use, data integrity in the transmission channel
- SC-2: Ensure time tagging in high-rate data streams
- SC-3: Info collection & dissemination on recording system and techniques
- Current important standards
IEEE 1451, 1588, 802.xx; IRIG 106 Ch.10

Significant Activity

- ETSC meeting at the ETC 2008 in Munich, addressing time tagging (IEEE 1588), IRIG 106 update, standards followed on Australian test ranges et al.
- Harmonisation issues for additional spectrum now allocable globally and in ITU region 1 (WRC 2007: Res. COM 4/2 and COM 4/7)
- Review and comments on IRIG 106-Ch.10

Open Actions

- “WRC Bands” Telemetry Issues:
*C-Band Systems&Standards, wave propagation,
up front evaluation of tracking algorithms & systems*
- Investigate potential of existing standards for
wireless (e.g., intra-aircraft) RDAU-networking
(IEEE 802.11n and UWB)
- Next ETSC- Meeting
*Venue: Centre de Congrès “Pierre Baudis”,
June 24 - 26, 2009, ETTC 2009 Toulouse, France*

Old Business

Addressed under Action Items

NEW Business

- New RCC/TG member: Bob Givens
- Letters of support for each TSCC member
- 2.2.1 Bylaws: TSCC members and alternates shall be appointed to subcommittees by the TSCC Chair. Additional subcommittee members may be appointed by the subcommittee chair.
- Each member needs an alternate

TSCC Program for 2009

- Standards Paper Award
- Follow-up on i-net Standards; request access; any ITAR issues?
- Review any standards requested
- Fall meeting October 26, 2009 at the Riviera Hotel in Las Vegas, NV in conjunction with the ITC

Possible TSCC Actions for 2009

- Joint session with RCC at the ITC – what would we want to present?
- Change the bylaws to include the standards paper.
- Have a formal letter of support for TSCC members
- Look into other areas of telemetry standards

Questions for 2009

- Reporting response to standard reviews (subcommittee reports, and entire group responds)
- Future spring meetings – with RCC or separate?
- Other issues/concerns/ideas?