Approved by General Counsel

TR-34 Meeting Report

Date(s): 03/21/2013 - 03/21/2013

Location: TIA

Approved: 04/04/2013

TITLE:	TR 34 Meeting Report
DATE:	March 21 2013
SOURCE:	Hughes Network Systems, Inc.
AUTHOR:	Tony Noerpel (HNS) Phone: 301-601-7449 Email: anthony.noerpel@hughes.com
RECOMMENDATION:	Review and Approve

)

TR 34 Working Group
SATELLITE EQUIPMENT & SYSTEMS
MEETING REPORT
March 21, 2013

1. Call to Order and Introduction

The Standards Committee, Satellite Equipment & Systems, TR 34, met on Thursday, March 21, 2013 at TIA's headquarters, 1320 North Courthouse Road, Arlington, Virginia and via teleconference. The Chair welcomed the participants and called the meeting to order at approximately 9:00 a.m.

GoToMeeting Dial-In & Screen Share

> https://www1.gotomeeting.com/join/416947488
> **Dial +1 (636) 277-0136**
> **Access Code: 416-947-488**
> **Audio PIN: Shown after joining the meeting**
> **Meeting ID: 416-947-488**

The meeting ID for signing in was announced at the meeting.

This meeting was conducted in accordance with the TIA Legal Guide and TIA Engineering Manual.

IMPORTANT NOTICE OF PARTICIPATION

Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of and agreement to be bound by all provisions of the TIA Engineering Manual and permission that all communications and statements, oral or written, or other information disclosed or presented, and any translation or derivative thereof, may without compensation, and to the extent such participant or attendee may legally and freely grant such copyright rights, be distributed, published, and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be granted or permitted in writing to the Chair of the Formulating Group by TIA's Senior Vice President, Standards and Special Projects on a case-by-case basis.

Intellectual property rights (early disclosure policy)

TIA's patent policy can be found in the TIA Engineering Manual (5th edition). Participants in the work of the TIA Formulating Group are urged to review this policy. Participants are encouraged to notify TIA of any patents of which they are aware that are related to the practice of a TIA publication early on in the development the TIA document to reduce the possibility for delays in the development process and increase the likelihood that the draft TIA publication will be approved for publication. Patent searches are not required to comply with the TIA IPR policy. Moreover, the Engineering Manual describes the need for members' disclosure of patents that are essential to practice TIA publications and for members to provide an indication of their willingness to license any known patents.

2. Attendance Registration

The meeting was attended by the following:

Company	Name & Mailing Address	Phone #, Fax #, Email
Hughes Network Systems	Noerpel, Tony 11717 Exploration Lane Germantown, MD 20876	P: 301-601-7449 F: 301-428-5682 E: anthony.noerpel@hughes.com
TIA	Jeff Hannah 2500 Wilson Blvd., Arlington, Virginia,	O: 703.907.7582 | M: 301.502.9141 E: jhannah@tiaonline.org
AASKI Technology, Inc. (By teleconference)	Hand, Jim	O: (732) 578-1250 x209 C: (908) 745-9748 F: (732) 578-1251 E: jhand@aaski.com
iDirect	Erup, Lars	E: lerup@idirect.net

Quorum was achieved.

Appologies received from

Company	Name & Mailing Address	Phone #, Fax #, Email
AASKI Technology, Inc.	Bharat Parikh	O: (732) 578-1250 x202 C: (908) 309-6655 F: (732) 578-1251 E: bparikh@aaski.com
Gogo, Inc. (By teleconference)	Fred Kujawski 1250 N Arlington Heights Rd Itasca, IL 60143	O: 630 647 1430 M: 847 331 1456 E: fkujawski@gogoair.com

3. Review and Approval of the Agenda

The proposed agenda, contribution 03.13.01, was approved.

4. Introduction and Numbering of Contributions

Contributions and associated numbers received for this meeting were the following:

Number	Title	Source	Notes/Disposition
03.13.01	Meeting_Notice_Agenda	A.Noerpel Chair	Approved
03.13.02	TR 34 meeting report	A.Noerpel Chair	Review & approve by correspondence

5. Review and Approval of Meeting Report

The meeting report from this meeting, contribution 03.13.02, shall be circulated and approved by email after the meeting.

6. Correspondence and Liaisons

Tony Noerpel (Chair) reported that version 3.3.1 of the joint TIA/ETSI GMR-1 standard was published by ETSI in December of 2012 and is ready for endorsement by TIA. IPR and copyright language was resolved between TIA and ETSI for the joint endorsement of the TIA 1008B standard. This will be finalized at the next ETSI SES plenary in June, 2013. A Study Task Force funded by EC has been launched to study integration of satellite communications with Global Navigation Satellite Systems. This might be something TIA is interested in tracking.

Lars Erup (Vice Chair) reported on DVB, RCS and S2 activities. DVB-RCS2 has been finalized and is stable with mobility and mesh features and is going through the ETSI approval process. For DVB-S2 a carrier ID has been standardized and included in the specification, basically a CDMA carrier running under the information carrying carrier (DVB-S2 or other). This is actually independent of the DVB-S2 itself. It is in ETSI awaiting approval. This might be of interest to the TIA satellite community.

A new standard for DVB-S2 enhancements is being planned for the near term and a forward looking activity which may lead to a "DVB-S3" standard is also underway. The first round of proposals for new modcods have been introduced. These are being discussed. The range of Eb/No has been increased both at the low end and high end with additional proposed modcods. The next telecom is tomorrow March 22 at 9 am EST. A face-to-face meeting is planned for April 3-4 (in Geneva). The expectation is for this to be finished in the fall. In addition there are more radical proposals for additional modifications to the standard including OFDM, faster-than-Nyquist coding, and waveform features which might facilitate interference cancelation.

7. Ballot Results

No Ballots.

8. Working Group Activities

JIPM Joint IP Modem (JIPM) Interoperability Standard project - postponed. An update is unavailable but may become available within a month. The new update will include comment resolution of comments received from TIA previously.

The rapporteur for the project is Bharat Parikh of AASKI Technology, bparikh@aaski.com, 732-578-1250 x202. Bharat sent his apologies.

The chair made a motion for TIA to co-endorse the ETSI GMR-1 3G version 3.3.1 standard. Lars Erup has seconded. Passed unanimously.

9. New Business

TIA action items for Lars Erup to continue to monitor DVB/ETSI activities associated with DVB-S2 and in particular the carrier ID standard and possibly introduce into TIA as a co-endorsement.

TIA action for Tony Noerpel to continue to monitor ETSI activities associated with GNSS for the possibility of introducing into TIA as a co-endorsement.

10. Assignments from January, 2013 Meeting

- The chair to initiate co-endorsement for GMR-1 3G 3.3.1 specifications.
- The Chair and Lars Erup to continue as liaison to DVB-S2. Ongoing
- The Chair to continue as liaison to ETSI SES. Ongoing.
- Bharat Parikh to continue as rapporteur for the new JIPM proposed standard and provide updated documents with NATO comments and TR34 committee comments and initiate the ballot. Ongoing
- Jeff Hannah is now the formal TIA contact for smart grid standards in SGIP2. Ongoing.
- The Chair and Jeff Hannah to follow up on the co-endorsement of TIA 1008B standard by ETSI. Completed.

11. Future Work and Assignments

- The chair and Jeff Hannah to initiate co-endorsement of ETSI GMR-1 3G 3.3.1 specifications.
- The Chair and Lars Erup to continue as liaison to DVB-S2.
- The chair to continue as liaison to ETSI SES.
- Bharat Parikh to continue as rapporteur for the new JIPM proposed standard and update the documents.
- The Jeff Hannah to continue as liaison to SGIP2.
- Fred Kujawski to continue as liaison to RTCA.

12. Future Meetings

The Working Group agreed to meet on the third Thursday of September 19, 2013 to discuss the plan going forward with the JIPM specification and other matters but also agreed to potentially hold a special meeting via teleconference before that date if required or requested by any member.

13. Adjournment

The meeting was adjourned at 11:00 a.m.

This meeting was conducted in accordance with the TIA Legal Guide and TIA Engineering Manual.