

Approved by General Counsel

TR-34 Meeting Report

Date(s): 12/12/2013 - 12/12/2013

Location: Virtual (conference call, web conference, etc.)

Approved: 01/30/2014

TITLE: TR 34 Meeting Report

DATE: December 12, 2013

SOURCE: Hughes Network Systems, Inc.

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RECOMMENDATION: Review and Approve

**TR 34 Working Group
SATELLITE EQUIPMENT & SYSTEMS
MEETING REPORT
December 12, 2013**

1. Call to Order and Introduction

The Standards Committee, Satellite Equipment & Systems, TR 34, met on Thursday, December 12, 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/510324656>

Dial +1 (213) 493-0606

Access Code: 510-324-656

Audio PIN: Shown after joining the meeting

Meeting ID: 510-324-656

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.

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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 of 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 (all by teleconference):

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.	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.

Apologies 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 12.13.01, was approved.

4. Introduction and Numbering of Contributions

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

Number	Title	Source	Notes/Disposition
12.13.01	Meeting_Notice_Agenda	Tony Noerpel Chair	Approved
09.13.02	TR 34 meeting report	Tony Noerpel Chair	Review & approve by correspondence
09.13.05	TC SES WG MARESV Report Meeting #31, 25 June 2013	Tony Noerpel	For information
09.13.06	SES MAR ESV DTR/SES- 00325, deliverable: Technical Report on antenna performance characterization for GSO mobile applications	Tony Noerpel	For information
09.13.07	SES MAR ESV DTR/SES- 00326, deliverable: Technical	Tony Noerpel	For information

Number	Title	Source	Notes/Disposition
	Report on antenna performance characterization for NGSO mobile applications		
09.13.08	THALES_Comments_to_NWI_on_NCf_Antennas.ppt, 26th of June 2013	Tony Noerpel	For information

5. Review and Approval of Meeting Report

The meeting report from this meeting, contribution 12.13.02, shall be circulated and approved by email after the meeting.

6. Correspondence and Liaisons

Tony Noerpel (Chair) reported on ETSI activities. The ETSI SES SCN met in Germany on October 7-9, 2013. The ETSI SES SCN working group launched a Study Task Force funded by EC to study integration of satellite communications with Global Navigation Satellite Systems. This might be something TIA is interested in tracking. The ETSI SES MARESV working group met on October 10-11, 2013 and launched two TRs regards relaxation of the off-axis emissions for aeronautical antennas. One applies to GEO satellites and the other to NGO satellites. Three contributions from the September meeting were discussed.

Lars Erup (Vice Chair) reported on DVB, RCS and S2 activities.

A new standard for DVB-S2 enhancements is nearly finished and a forward looking activity which may lead to a DVB-S3 standard is also underway. The proposals for new modcods have been approved but more editorial work is required. The range of Eb/No has been increased both at the low end and high end with additional proposed modcods. The target for completion is the end of the year. 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 cancelation. This activity is on a slower track. A new DVB-GSE (generic stream encapsulation) or DVB-GSE-lite has been approved which would be easier to implement. It is intended for both terrestrial and satellite applications.

Jeff Hannah reported on SGIP or smart grid meeting in Palm Springs. Not much satellite technology discussion.

7. Ballot Results

No Ballots.

8. Working Group Activities

JIPM Joint IP Modem (JIPM) Interoperability Standard project - temporarily suspended.

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

9. New Business

Fred Kujawski made the request that we hold the meeting starting at 10 am instead of 9 am in the future so that others from GoGo could participate due to the difference time zone. This was agreed for all future meetings.

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 December, 2013 Meeting

- The Chair and Lars Erup to continue as liaison to DVB-S2. On-going
- The chair to continue as liaison to ETSI SES. On-going
- Bharat Parikh to continue as rapporteur for the new JIPM proposed standard and update the documents. On-going
- The Jeff Hannah to continue as liaison to SGIP2. On-going

11. Future Work and Assignments

- 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 January 16, 2013 to discuss any new business associated with the ETSI GNSS or MARESV activities.

13. Adjournment

The meeting was adjourned at 10:00 a.m.

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