



Approved by General Counsel

TR-34 Meeting Report

Date(s): 06/18/2015 - 06/18/2015

Location: TIA HQ, Arlington, VA

Approved: 12/21/2015

TITLE: TR-34 Meeting Report

DATE: June 18, 2015

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
June 18, 2015

1. Call to Order and Introduction

The Standards Committee, Satellite Equipment & Systems, TR-34, met 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 Provided prior to meeting

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

IMPORTANT NOTICE OF PARTICIPATION

Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of an agreement to be bound by all provisions of TIA Standards Development Procedures 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 the head of the TIA Standards Department on a case-by-case basis.

Intellectual property rights (early disclosure policy)

The chairman read the TIA IPR statement, as found in the TIA Standards Development Procedures.

“TIA's Intellectual Property Rights Policy can be found in Statements of Policy (ANNEX D) and other clauses and annexes of this document. Participants in the work of the TIA Formulating Groups are urged to review the appropriate sections. Individual participants are encouraged to notify TIA of any patent(s) or published pending patent application(s) of which they are aware that may be essential to the practice of a proposed TIA Publication, including requirements introduced through normative references, early on in the development to reduce the possibility for delays in the development process and increase the likelihood that the proposed TIA Publication will become a Standard. However, a Patent Holder who has provided TIA with a TIA Patent Holder Statement with respect to the applicable proposed TIA Publication need not (but may elect to) identify its specific patent(s) or published pending patent application(s) that may be essential to the practice of the proposed TIA Publication in question. Patent searches are not required to comply with the TIA Intellectual Property Rights Policy.”

“TIA has an Intellectual Property Rights (IPR) Policy. We call to the attention of participants and attendees that TIA's Policy is to encourage, but not require, the voluntary disclosure (preferably early) of Essential Patent(s) and published pending patent application(s) that may be essential to the practice of a TIA Publication. Such disclosures are to be made following the procedures of

the TIA Intellectual Property Rights Policy. Additional information can be found in the TIA Intellectual Property Rights Guidelines.”

Participants in the work of the TR-34 are urged to review this policy. Participants were encouraged to notify TIA of any patents of which they are aware that are related to the practice of TIA publication early 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. If there is knowledge of patents, the use of which may be essential to any documents being considered by TIA TR-34. No new IPR was identified.

2. Attendance Registration

The meeting was attended by the following (all by teleconference):

| Name | Company & Mailing Address |
|---------------------------|--|
| Noerpel, Tony | Hughes Network Systems |
| Palangdao, Germaine | TIA |
| Hand, Jim | AASKI Technology, Inc. |
| Erup, Lars | iDirect |
| Jandarhan, Raghu | Hughes Network Systems |
| Young , Paul | AASKI |
| Akhavan-Toyserkani, Kasra | Comtech EF Data |
| Wickham , Mark | Hughes Network Systems |
| Nemeth, David | iDirect |
| Gregory , Chris | iDirect |
| Plummer , Tom | iDirect |
| Beljour , Herald | U.S. Army CERDEC STCD, SATCOM SYSTEMS (JSEC) |
| Michaels , Alan | Virginia Tech |
| Reinking , Todd | Welkin Sciences |
| Mathes, Ray | Harris Corporation |

Quorum was acheived.

Appologies received from

None

3. Review and Approval of the Agenda

The proposed agenda, contribution 06.15.01, was approved.

4. Introduction and Numbering of Contributions

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

| Number | Title | Source | Notes/Disposition |
|---------------|-----------------------|-----------------------|--------------------------|
| 06.15.01 | Meeting_Notice_Agenda | Tony Noerpel Chair | Approved |

| Number | Title | Source | Notes/Disposition |
|-------------|---|-----------------------|---------------------------------------|
| 06.15.02_r3 | TR 34 meeting report June, 2015 | Tony Noerpel Chair | Review & approve by correspondence |
| 06.15.03 | Presentation | Herald Beljour | For information |
| 06.15.04 | Draft standard | Herald Beljour | For information |
| 06.15.05 | Liaison statement | Robert Hanson | information |
| 06.15.06 | Draft ETSI TR 103 233 V0.0.2, Technical Report on antenna performance characterization for GSO mobile applications | Robert Hanson | Review and comment |

5. Review and Approval of Meeting Report

The meeting report from this meeting, contribution 06.15.02, shall be circulated and approved by email after the meeting.

6. Correspondence and Liaisons

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

Tony Noerpel (Chair) reported on ETSI activities. TIA TR34 has initiated a liaison request with ETSI SES MARESV to review and comment on technical reports regarding antenna performance characterization for GSO mobile applications. Subsequent to the meeting the liaison statement was received from Robert Hanson along with the draft of a technical report requesting review and comment from TIA TR34.

7. Ballot Results

None

8. Working Group Activities

No activity

9. New Business

Herald Beljour, CIV USARMY CERDEC (US). presented a proposed standard: FAST Digital IF Architecture and Open Standard Digital IF Interfaces.

The committee voted to initiate a project and a working group to develop and eventually publish as an ANSI and TIA standard document: FAST Digital IF Architecture and Open Standard Digital IF Interfaces based on the presentation of proposed standard by Herald Beljour, CIV USARMY CERDEC (US). Raghu Jandarhan, Hughes Network Systems was nominated to serve as the Rapporteur for the document.

Vice Chairman Lars Erup announced his retirement. The election of a new vice chair will take place at the next meeting.

10. Assignments from last Meeting

- The Chair and Lars Erup to continue as liaison to DVB. On-going

- The chair to continue as liaison to ETSI SES. On-going

11. Future Work and Assignments

- The Chair and Lars Erup to continue as liaison to DVB.
- The chair to continue as liaison to ETSI SES.
- The Chair, Raghu Jandarhan and Germaine Palangdao to initiate the project and the working group for the new proposed standard.

12. Future Meetings

The Working Group agreed to meet on the third Thursday of September 17, 2015 with the option to meet earlier if there is need.

13. Adjournment

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

This meeting was conducted in accordance with the TIA Legal Guide and the engineering procedures.