



TIA Update NPSTC

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Who is TIA?

- **Trade association**
- **Global information and communications technology (ICT) industry**
 - Standards development
 - Policy initiatives
 - Business opportunities
 - Market intelligence
 - Networking events.
- **Hundreds of member companies**



TIA “Technology & Standards”

- **Accredited by the American National Standards Institute (ANSI)**
 - Develop voluntary, consensus-based industry standards
- **12 engineering committees**

TR-8 “Mobile and Personal Private Radio Standards”

Formulation of TIA-102 Series standards for Project 25



TR-8 Standards Activity

Completed in 2016:

- **General**

TIA-102 Documentation Suite Revision C reflects TR8 progress since the last publication (2012), including new TIA publications, improved graphics, and addresses miscellaneous errata identified.

- **Air Interfaces**

A revision to the FDMA, TDMA and Analog Air Interface Performance Measurement Method Standards *ensure that harmonics present in Class D amplifiers do not interfere with various audio measurements.*

Revisions of the FDMA Conventional Conformance test update the list of reference documents, make general terminology clarifications and provided clarifications on test result expectations without modifying or adding any tests.

- **Broadband**

A revision of TSB-88.2-E (Wireless Communications Systems – Performance in Noise and Interference Limited Situations – Part 2: Propagation and Noise) adds information associated with Broadband Air Interface Propagation and Noise modeling.



TR-8 Standards Activity

Work in Progress:

- **Security**

Link Layer Encryption will provide improved Security for all air interfaces of P25, protects control channel control messages, and hides group and individual IDs.

An addendum to the Key Fill Interface standard will enable Key Fill Device (KVL) interface to a KMF, an Authentication Facility and another Key Fill Device

- **Wireline Interfaces**

An addendum to the ISSI Messages and Procedures Standard corrects several errata that have been noted since the last publication.

A revision to the Fixed Station Interface Standard adds additional capabilities the most significant of which is Packet Data.

Group and Individual Regrouping for the Trunking ISSI/CSSI Standard will enable dispatch equipment connected to Trunking Infrastructures via the ISSI/CSSI to control both group and individual regrouping services.



TR-8 Standards Activity

Work in Progress(Continued):

- **Air Interfaces**

A revision to the FDMA Common Air Interface addresses errata that have been collected since the last publication.

A revision to the Trunking Interoperability Test merges the FDMA and TDMA material and address an error in a call pre-emption test procedure.

A new standard for a TDMA Control Channel provides the messages and procedures for operating a 12.5 kHz channel with 2 TDMA slots where either or both may service Control Channel traffic.

An addendum for additional Emergency Alarm expands the existing emergency alarm request message to indicate that the emergency alarm request has been generated by conditions other than depression of the emergency alarm button.

- **Broadband**

Additions to TSB-88 are in progress. These additions will create recommendations for Broadband Data System coverage modeling and verification.



TIA “Policy”

- **Participate in policy decisions**
 - Impact the communications industry
- **Regulatory issues**
 - Affect member companies
- **Events, Publications and Filings**
- **Committees and Working Groups**

Wireless Communications Division (WCD)

Private Radio Section (PRS)



Current Activities

Policy

- *Drafting a response to FCC's Order on Reconsideration seeking comments on adoption of the 15 recommended feature sets and capabilities proposed by the P25 CAP AP*
- *Response reinforces TIA's support of P25 CAP and seeks to resolve ambiguities in proposed testing and focus requirements to features necessary for interoperability*
- *TIA Plans to share this response with NPSTC prior to submittal to the Commission.*



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