

TIA STANDARD

**PROJECT 25
TRUNKING CONTROL CHANNEL MESSAGES
ADDENDUM**

To be published as

TIA-102.AABC-D-2

(Addendum 2 to TIA-102.AABC-D)

(version R2 to resolve ballot editorial comments)

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

Foreword

(This foreword is not part of this standard.)

This document has been submitted to APCO/NASTD/FED by the Telecommunications Industry Association (TIA), as provided for in a Memorandum of Understanding (MOU) dated December 1993. That MOU provides that APCO/NASTD/FED will devise a Common System Standard for digital public safety communications (the Standard), and that TIA shall provide technical assistance in the development of documentation for the Standard.

This document has been developed with inputs from the Trunking and Conventional Control Subcommittee (TR-8.10), and TIA Industry members. The ANSI/TIA-102.AABC standard describes control channel messages for trunked systems meeting the Project 25 requirements. These definitions are necessary to insure interoperability of trunked radio units.

This addendum will become part of the standard ANSI/TIA-102.AABC.

This document is a standard. It presents an overview of trunking messages which was recommended by TIA to APCO/NASTD/FED as being suitable for use as part of their standard for a digital public safety radio system (Project 25). TIA expects that APCO/NASTD/FED shall establish and publish one or more standards for trunking operation.

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Introduction

The purpose of this addendum is to update information contained in ANSI/TIA-102.AABC-D, "Trunking Control Channel Messages". This addendum builds on previous enhancements to the Emergency Alarm Request message as described in the Scope below.

Addendum Scope

This addendum enhances trunking control channel messages as follows:

- (1) Specification of a "Vehicle Sensed Emergency" (VSE) bit in the "Special Information" field of the EMRG_ALARM_REQ message to convey additional information regarding a specific emergency alarm scenario request.

This document will only include information relevant to the above-listed functionality. The reader is referred to ANSI/TIA-102.AABC-D and ANSI/TIA-102.AABC-D-1 for all other pertinent information. The next complete revision of ANSI/TIA-102.AABC will incorporate the changes contained in this addendum.

Note that section numbers identified in this addendum directly translate to section numbers in the ANSI/TIA-102.AABC-D and ANSI/TIA-102.AABC-D-1 Trunking Control Channel Messages and Trunking Control Channel Messages Addendum documents.

Addendum changes to TIA-102.AABC-D-1 begin here.

6.1.6 Emergency Alarm Request (EMRG_ALARM_REQ)

(this text enclosed in parentheses is explanatory only and will be deleted once this document is approved)

Table 6.1.6-1 Emergency Alarm Request SI-1 Mapping

AC	IC6	IC5	IC4	IC3	IC2	VSE	MD
7	6	5	4	3	2	1	0

Bit 0 = MD = %1 to indicate Man-Down condition

Bit 1 = VSE = %1 to indicate Vehicle Sensed Emergency

Bit 2-6 = ICx = %1 for Interoperable Condition x

Bit 7 = AC = %1 indicates SI-2 contains Additional Codes

SI-2 is reserved for additional “common” codes and “user-defined” codes as listed in Table 6.1.6-2:

Table 6.1.6-2 Emergency Alarm Request SI-2 Values

SI-2 Value	Definition
\$00 - \$7F	Reserved for common codes
\$80 - \$FF	Reserved for user-defined codes