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JOINT STANDARD

Enhanced Wireless 9-1-1 Phase II

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and Alliance for Telecommunications Industry Solutions



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Revision History

Revision	Date	Remarks
Rev. 0	August 2000	Initial publication
Rev. 0 Addendum 1	December 2000	First addendum
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ANSI/J-STD-036-C	September 2009	Support for cdma2000 Femto Cells
ANSI/J-STD-036-C-1	September 2013	New Class of Service Position Source indicators and associated Position Source codes
ANSI/J-STD-036-C-2	June, 2017	Add 6 handset and 5 hybrid position source codes for geodetic position reporting. Add 3 class of service codes for civic address reporting.

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Foreword

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This Standard was prepared jointly by TIA TR-45.8 under the TIA Engineering Committee TR-45 and by the ATIS ELOC Task Force, comprised of the ATIS Wireless Technologies and Systems Committee (WTSC) and the Emergency Services Interconnection Forum (ESIF).

ANSI/J-STD-036-C-2[E] includes support for cdma2000 Femto Cells [TIA 1165].

ANSI/J-STD-036-C-2[E] defines new Handset, Hybrid and Class of Service Position Source values. It also corrects typographical errors.

This Standard contains eight annexes of which Annex C and Annex D are considered normative and part of this Standard. The remaining annexes are considered informative and not part of this Standard.

All text added in J-STD-036-C-1 is shown in [dark blue](#).

All text added in J-STD-036-C-2 is shown in [forest green](#).

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Chapter 1: Overview

1 Introduction

1.1 Objective

This Standard defines the messaging required to support information transfer to identify and locate wireless emergency services callers.

1.2 Scope

This Standard provides a solution for the handling of Wireless Enhanced Emergency Calls for the FCC E911 Phase II mandate.

Carrier position reporting to emergency services systems, as mandated by the Federal Communication Commission (FCC) under docket 94-102 (including orders 96-264, 99-96 and 99-245) has been addressed by this Interim Standard without considering position reporting privacy restrictions that may be desirable for other position reporting services. For this reason, this Standard does not preclude these other service restrictions. Position reporting privacy restrictions are beyond the scope of this Standard, and are not addressed here.

1.3 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. ANSI, [ATIS](#) and TIA maintain registers of currently valid national standards published by them.

Alliance for Telecommunications Industry Solutions (ATIS) standards:

ATIS-1000113	ATIS-1000113.2005: <i>Signalling System No. 7 (SS7) - Integrated Service Digital Network (ISDN) User Part</i> , 2005.
T1.114	T1.114-2004(R2009): <i>Signalling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP)</i> , 2004.
T1.628	T1.628-2000 (R2005): <i>Emergency Calling Service</i> , 2000.

Telecommunications Industry Association (TIA) standards:

CDMA	TIA/EIA/IS-2000.5-A; <i>Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems</i> , 2000.
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GSM 04.71	Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 location services specifi- cation; Formats and coding. 1998.	9 10 11 12
GSM 08.08	Digital cellular telecommunications system (Phase 2+); Mobile Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification. 1998.	13 14 15 16
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2 Definitions and Acronyms

AOA: Angle of Arrival

AFLT: Advanced Forward Link Trilateration.

AGPS: Assisted GPS.

ALI: Automatic Location Identification.

ANI: Automatic Number Identification.

BSC: Base Station Controller.

BSS: Base Station Subsystem.

BSSMAP: Base Station System Management Application Part.

BTS: Base Transceiver Station.

Callback#: An emergency services callback number.

CAMA: Centralized Automatic Message Accounting.

CAS: Call Associated Signaling.

CGL: Calling Geodetic Location.

CgPN: Calling Party Number.

CM: Connection Management.

CPE: Customer Premises Equipment.

CPSMC: CDMAPSMMCount Parameter.

CPSML: CDMAPSMMList Parameter.

CRDB: Coordinate Routing Database.

CTRPT: CallTerminationReport INVOKE.

ctrpt: CallTerminationReport RETURN RESULT.

CTRT: Call Termination Report Timer.

EFLT: Enhanced Forward Link Trilateration.

EACC: Emergency Area Congestion Control

ECAR: Emergency Call Attempt Reporting

ELID: Emergency Location Information Delivery.

E-MF: Enhanced MF (20 digit signaling).

ESID: Emergency Subscriber Information Delivery

Emergency Services Call (ESC): A call requiring connection to a Public Safety Answering Point (PSAP). The digits 9-1-1 require this treatment in the United States.