ATIS-0700036

ATIS Standard on -

Enhanced Wireless Emergency Alert (eWEA) Mobile Device Behavior (MDB) Specification

(A Revised Version of J-STD-100)

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Published by

Alliance for Telecommunications Industry Solutions
1200 G Street, NW, Suite 500
Washington, DC 20005

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Alliance for Telecommunications Industry Solutions

Approved May 2018

Abstract

This specification defines a common set of requirements for GSM, UMTS and LTE-based mobile devices. Implementation of the requirements contained within this specification is mobile device manufacturer dependent. This ATIS specification supersedes *J-STD-100 Joint ATIS/TIA CMAS Mobile Device Behavior Specification* and the associated J-STD-100 Supplements for 3GPP technologies. This Standard supports the requirements of the FCC Report & Order 16-127 and the FCC Order on Reconsideration 17-143.

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Foreword

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers, and manufacturers. The Wireless Technologies and Systems Committee (WTSC) develops and recommends standards and technical reports related to wireless and/or mobile services and systems, including service descriptions and wireless technologies. WTSC develops and recommends positions on related subjects under consideration in other North American, regional, and international standards bodies.

The mandatory requirements are designated by the word shall and recommendations by the word should. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable as having distinct compatibility or performance advantages. The word may denotes an optional capability that could augment the standard. The standard is fully functional without the incorporation of this optional capability.

This ATIS Standard is a revision of J-STD-100, Joint ATIS/TIA CMAS Mobile Device Behavior Specification, and its Supplement A in J-STD-100.a and Supplement B in ATIS-0700032.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, WTSC, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time of consensus on this document, WTSC, which was responsible for its development, had the following leadership:

D. Zelmer, WTSC Chair (AT&T)

M. Younge, WTSC Vice Chair (T-Mobile)

P. Musgrove, WTSC SN Chair (AT&T)

G. Schumacher, WTSC SN Vice Chair (Sprint)

D. Sennett, Technical Editor (AT&T)

The Systems & Networks (SN) subcommittee was responsible for the development of this document.

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Preface

The authority-to-individual emergency alerting capability to mobile devices was originally called Commercial Mobile Alert System (CMAS) in the first three Reports and Orders from the FCC. This standard was originally developed based upon the CMAS terminology and CMAS was operational in April 2012. However, in February 2013, the Federal Communications Commission (FCC) renamed the Commercial Mobile Alert System (CMAS) to Wireless Emergency Alerts (WEA) with associated updates to the appropriate sections of Part 11 of the 47 Code of Federal Regulations (CFR). Subsequently, the FCC has issued additional enhancements and rules for this government-to-individual emergency alerting capability to mobile devices, and these are identified as modifications to WEA.

Consequently, this specification may use both the term CMAS and the term WEA. These terms should be considered as equivalent terms, with WEA being the preferred term.

This ATIS specification is the Enhanced Wireless Emergency Alert (eWEA) standard for the WEA mobile device behavior and is based upon the WEA enhancements identified in the September 2016 FCC Report & Order on WEA Enhancements, FCC 16-127 [Ref 9]. This ATIS specification supersedes J-STD-100, *Joint ATIS/TIA CMAS Mobile Device Behavior Specification,* and the associated J-STD-100 Supplements. Any assumptions, requirements, and principles from J-STD-100 and the associated J-STD-100 Supplements applicable in eWEA are included in this ATIS specification.

1 Scope, Purpose, & Application

1.1 Scope

One of the objectives of this eWEA specification is to define a set of requirements for the behavior of the mobile devices whenever an eWEA alert message is received. This specification defines a common set of requirements for Global System for Mobile Communications (GSM), Universal Mobile Telecommunication System (UMTS), and Long-Term Evolution (LTE) based mobile devices. Implementation of the requirements contained within this specification is mobile device manufacturer dependent.

The support of 5G and beyond is outside the scope of this specification.

Even though the scope of eWEA includes paging systems, the behavior of paging devices for eWEA alert messages is not contained within this specification.

1.2 Purpose

The purpose of this specification is to define the eWEA set of common requirements for GSM, UMTS, and LTE based mobile devices behavior whenever an eWEA alert message is received and processed. This eWEA mobile device behavior specification is based upon the WEA enhancements identified in the September 2016 FCC Report & Order on WEA Enhancements, FCC 16-127 [Ref 9].

Any assumptions, requirements, and principles from *J-STD-100 Joint ATIS/TIA CMAS Mobile Device Behavior Specification* and the associated J-STD-100 Supplements which are applicable to eWEA are included in this ATIS specification.

A common set of eWEA requirements for the mobile device behavior will allow for a consistent user experience regardless of the associated wireless technology of the mobile device. Additionally, this common set of eWEA requirements for the mobile device behavior will allow the various local, state, and Federal level government agencies to develop user eWEA educational information that is independent of the wireless technology.

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