



ATIS STANDARD

ATIS-0700006.v003

ATIS Standard on -

**Wireless Emergency Alert (WEA) 3.0 via GSM/UMTS Cell
Broadcast Service Specification**



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Wireless Emergency Alert (WEA) 3.0 via GSM/UMTS Cell Broadcast Service Specification

Alliance for Telecommunications Industry Solutions

Approved October 21, 2019

Abstract

This Standard describes the use of the GSM/UMTS Cell Broadcast Service for the broadcast of WEA messages and includes the mapping of WEA application level messages to the Cell Broadcast Service message structure. This Standard supports the requirements of the FCC Report & Order 16-127 and the FCC Order on Reconsideration 17-143 and is an update to ATIS-0700006.v002.

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.

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:

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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. In February 2013, the FCC renamed CMAS to Wireless Emergency Alerts (WEA) with associated updates to the appropriate sections of Part 11 of the 47 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 based upon the cumulative WEA enhancements identified in FCC WEA related Report and Orders up through the January 2018 FCC Report & Order and Second Reconsideration [Ref 23]. For more information on the FCC regulatory history applicable to WEA as well as related ATIS WEA specifications, refer to ATIS-0700035, *Wireless Emergency Alert (WEA) 3.0 Service Description* [Ref 21]. Note that WEA 3.0 Device-Based Geo-Fencing (DBGF) is not applicable to GSM and UMTS.

1 Scope, Purpose, & Application

1.1 Scope

The scope of this standard is the support of Wireless Emergency Alert (WEA) 3.0 via the Global System for Mobile Communications (GSM)/Universal Mobile Telecommunications System (UMTS) Cell Broadcast Service. This standard covers the mapping of WEA 3.0 messages onto the 3GPP-defined Cell Broadcast Service.

This standard is not intended to describe an overall end-to-end WEA 3.0 or Cell Broadcast architecture and may include clarifications of Cell Broadcast Service that may be lacking in existing 3GPP specifications. The implementation guidelines and best practices for the Cell Broadcast Service are provided in a separate ATIS Standard [Ref 4] which contains clarifications applicable to any application that uses the Cell Broadcast Service and is not necessarily restricted to WEA.

The WEA 3.0 interface with the Federal network and the mobile device behavior upon reception of a WEA 3.0 alert is specified in separate standards [Ref 7] and [Ref 9].

1.2 Purpose

The purpose of this standard is to describe the use of the GSM/UMTS Cell Broadcast Service for the broadcast of WEA 3.0 messages. The standard includes the mapping of WEA 3.0 application level messages to the Cell Broadcast Service message structure.

1.3 Application

This standard is applicable to the mapping of WEA 3.0 messages to the Cell Broadcast Service on GSM or UMTS networks.