ATIS-0700037.v003

ATIS Standard on -

Wireless Emergency Alert (WEA) 3.0 Federal Alert Gateway to CMSP Gateway Interface Specification

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Alliance for Telecommunications Industry Solutions

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Abstract

This Standard defines the interface between the Federal Alert Gateway and the Commercial Mobile Service Provider (CMSP) Gateway for WEA alerts.

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:

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

T. Brooks, WTSC SN Chair & Technical Editor (T-Mobile USA)

P. Musgrove, WTSC SN Vice Chair (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 & 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 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 the Wireless Emergency Alert (WEA) 3.0 standard for the WEA Federal Alert Gateway to CMSP Gateway interface and is based upon the cumulative WEA enhancements identified up through the January 2018 FCC Second Report & Order and Second Order on Reconsideration, FCC 18-4 [Ref 48].

The use of the term WEA in this specification refers to WEA 3.0, unless otherwise specifically indicated

This specification is targeted at Participating CMSPs per the FCC definition described in ATIS-0700035*, Wireless Emergency Alert (3.0) Service Description* [Ref 100]. All references to CMSPs in this specification refer to Participating CMSPs.

The WEA regulatory background is described in detail in the Service Description in ATIS-0700035 [Ref 100].

In this specification, each unique requirement is numbered in the format of [WEA-C-RQMT-nnnn]. Any new requirements added for WEA 3.0 incorporated into this specification will have a suffix of R3A in the format of [WEA-C-RQMT-nnnn$_{R3A}$]. Any WEA 2.0 requirements that have been modified for WEA 3.0 in this specification will have a suffix of R3M in the format of [WEA-C-RQMT-nnnn$_{R3M}$]. Any WEA 2.0 requirements that have been deleted from WEA 3.0 in this specification will have a suffix of R3D in the format of [WEA-C-RQMT-nnnn$_{R3D}$] and the content of the deleted requirement will be replaced with the phrase “<Void>”.

1 Scope, Purpose, & Application

1.1 Scope

The scope of this Standard is the definition of the interface between the Federal Alert Gateway and the Commercial Mobile Service Provider (CMSP) Gateway for WEA alerts. Any processing in either the Federal network or the CMSP network that is not related to this interface is beyond the scope of this Standard.

1.2 Purpose

This Standard is based upon the five Reports & Orders issued to date by the Federal Communications Commission (FCC) in regard to the Wireless Emergency Alerts [Refs 9, 22, 24, 48 and 51]. Modifications to this Standard may be required as future relevant Reports & Orders are released by the FCC.

The Federal government will perform the function of aggregating all state, local, and Federal alerts and will provide one logical interface to each CMSP that elects to support WEA alerts.

The purpose of this Standard is to define the interface between the Federal Alert Gateway and the CMSP Gateway for WEA alerts.