ATIS-0700038.v002

ATIS Standard on -

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

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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: September 10, 2019

Abstract

This Standard defines the testing of the interface between the Federal Alert Gateway and the Commercial Mobile Service Provider (CMSP) Gateway for WEA alerts based upon the requirements in ATIS-0700037.v002, *Wireless Emergency Alert (eWEA) Federal Alert Gateway to CMSP Gateway Interface Specification*.

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:

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)

P. Sanders, Technical Editor (one2many)

The WTSC Systems and 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 Federal Communications Commission (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 Commercial Mobile Alert System (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 specification contains references to the uniquely numbered requirements in ATIS-0700037.v002 [Ref 1]. Any requirements which have been added, modified, or deleted from the eWEA version of the C-Interface specification will have suffixes applied to their requirement numbers. Any new requirements will have a suffix of R3A in the format of [WEA-C-RQMT-nnnn$_{R3A}$]. Any modified requirements will have a suffix of R3M in the format of [WEA-C-RQMT-nnnn$_{R3M}$]. Any deleted requirements will have a suffix of R3D in the format of [WEA-C-RQMT-nnnn$_{R3D}$].

This ATIS specification is the Wireless Emergency Alert (WEA) 3.0 standard for the testing of the WEA Federal Alert Gateway to CMSP Gateway interface, and it is based upon the requirements in ATIS-0700037.v002 [Ref 1]. This ATIS specification supersedes ATIS-700038, *Enhanced Wireless Emergency Alert (eWEA) Federal Alert Gateway to CMSP Gateway Interface Test Specification*. Any assumptions, requirements, and test cases from ATIS-0700038 applicable in WEA 3.0 are included in this test specification.

1 Scope, Purpose, & Application

1.1 Scope

This Standard defines operational testing procedures for the communications between the Federal Alert Gateway and the Commercial Mobile Service Provider (CMSP) Gateway over the C-Interface. This includes operational testing of all processing functionality within the Federal Emergency Management Agency (FEMA)-administered WEA entities and the CMSP-administered WEA entities that directly impacts communications over the C-Interface. Operational testing of all other processing within the FEMA and CMSP entities including the CMSP infrastructure is beyond the scope of this Standard.

1.2 Purpose

The purpose of interface testing is to evaluate whether systems or components transmit data and control information correctly to each other. In addition, the tests defined in this Standard may be used during regression testing when updates are made to either the Federal Alert Gateway or the CMSP Gateway.

Specifically, ATIS-0700038.v002 [Ref 1] defines a set of tests to verify the following minimal set of functionalities during interface and regression testing:

- Ability to complete the C-Interface startup procedures.
- Ability to bring up the IP Security (IPSec) tunnel.
- Ability to bring up the Transmission Control Protocol (TCP)/Internet Protocol (IP) connection.