



ATIS-0700045

ATIS Standard on -

**Commercial Mobile Service Provider (CMSP) Gateway to Cell
Broadcast Center (CBC) Interface Specification**



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Alliance for Telecommunications Industry Solutions

Approved April 25, 2022

Abstract

This Standard defines the interface and message transfer protocol between a Commercial Mobile Service Provider (CMSP) Gateway and a Cell Broadcast Center (CBC) to support WEA. This Standard supports the requirements of the FCC Report & Order 16-127 and the FCC Order on Reconsideration 17-143.

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 US)
- T. Brooks, WTSC SN Chair (T-Mobile US)
- P. Musgrove, WTSC SN Vice Chair (AT&T)
- P. Sanders, Technical Editor (one2many)

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

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1 Scope, Purpose, & Application

1.1 Scope

The scope of this Standard is the definition of the interface and message transfer protocol between a Commercial Mobile Service Provider (CMSP) Gateway and a Cell Broadcast Center (CBC) to support Wireless Emergency Alert (WEA) services.

1.2 Purpose

The purpose of this Standard is to define a message transfer protocol on the interface between the CMSP Gateway and CBC; to identify the requirements on the CMSP Gateway and CBC to support the interface; and to identify requirements to support assumptions made in other specifications, such as the 3GPP specifications (e.g., 3GPP TS 23.041 [Ref 1]).

In the 5G System the CBC is called Cell Broadcast Center Function (CBCF). The remainder of the present standard uses the term CBC, but it is to be understood that the term CBC also applies to the CBCF.

1.3 Application

This specification is applicable to the "D" interface between a CMSP Gateway and a CBC for the support of WEA services.

ATIS-0700008 [Ref 17] applies to the generic CBE to CBC interface specification. See also Annex B.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this ATIS Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this ATIS Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

[Ref 1] 3GPP TS 23.041, *Technical realization of Cell Broadcast Service (CBS)*.¹

[Ref 2] IETF RFC 3629, *UTF-8, A transformation format of ISO 10646*.²

[Ref 3] 3GPP TS 21.905, *Vocabulary for 3GPP Specifications*.¹

[Ref 4] INCITS 31-2009, *Codes for the Identification of Counties and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas*.³

¹ This document is available from the Third Generation Partnership Project (3GPP). < <http://www.3gpp.org/> >

² This document is available from the Internet Engineering Task Force (IETF). < <http://www.ietf.org> >

³ This document is available from the International Committee for Information Technology Standards (INCITS) at < https://standards.incits.org/apps/group_public/project/details.php?project_id=204 >.