

ANSI/CEA Standard

Emergency Alert Metadata for the Home Network

ANSI/CEA-2035
(J-STD-070)

April 2010



CEA[®]
Consumer Electronics Association
www.CE.org

NOTICE

Consumer Electronics Association (CEA®) Standards, Bulletins and other technical publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for his particular need. Existence of such Standards, Bulletins and other technical publications shall not in any respect preclude any member or nonmember of CEA from manufacturing or selling products not conforming to such Standards, Bulletins or other technical publications, nor shall the existence of such Standards, Bulletins and other technical publications preclude their voluntary use by those other than CEA members, whether the standard is to be used either domestically or internationally.

Standards, Bulletins and other technical publications are adopted by CEA in accordance with the American National Standards Institute (ANSI) patent policy. By such action, CEA does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the Standard, Bulletin or other technical publication.

This CEA Standard is considered to have International Standardization implication, but the International Electrotechnical Commission activity has not progressed to the point where a valid comparison between the CEA Standard and the IEC document can be made.

This Standard does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

This document is copyrighted by the Consumer Electronics Association (CEA®) and may not be reproduced, in whole or part, without written permission. Federal copyright law prohibits unauthorized reproduction of this document by any means. Organizations may obtain permission to reproduce a limited number of copies by entering into a license agreement. Requests to reproduce text, data, charts, figures or other material should be made to CEA.

(Formulated under the cognizance of the CEA's **R8 Cable Compatability Committee.**)

Published by
©CONSUMER ELECTRONICS ASSOCIATION 2011
Technology & Standards Department
www.CE.org

All rights reserved

This is a preview of "CEA 2035-2010 (ANSI)...". [Click here to purchase the full version from the ANSI store.](#)

Contents

1.	INTRODUCTION AND SCOPE	1
2.	REFERENCES	1
2.1	Normative References	1
2.1.1	Normative Reference List	2
2.1.2	Normative Reference Acquisition	2
2.2	Informative References	2
2.2.1	Informative Reference List	2
2.2.2	Informative Reference Acquisition	2
2.3	Definitions	3
2.4	Symbols and Abbreviations.....	3
2.5	Compliance Notation	4
3.	BACKGROUND (INFORMATIVE)	4
3.1	Distribution of Emergency Alert Information to Consumer Devices	4
3.2	Public Alert™ Receivers	6
3.3	The Need for Emergency Alert Signaling in the Home Network	6
3.4	Overview of Emergency Alert Metadata	7
4.	SPECIFICATION (NORMATIVE)	9
	ANNEX A. ATIS XML Schema (Informative).....	11
	ANNEX B. Example XML Instance – EAS Signaling Message (Informative)	14

FOREWORD

This standard was developed jointly under the auspices of the Consumer Electronics Association (CEA) R8 Cable Compatibility Committee and the Society of Cable Telecommunications Engineers (SCTE) Digital Video Subcommittee (DVS).

NOTE—This standard was processed within SCTE as DVS-847. This standard was processed within CEA as CEA-2035.

Emergency Alert Metadata for the Home Network

1. INTRODUCTION AND SCOPE

CEA-2035/DVS-847 standardizes metadata elements describing emergency alert events to devices in a home network, for applications involving the delivery of Commercial Video Services into the home network. Commercial Video Services are sources of audio/video content provided as live or on-demand streams from a particular service provider. Other standards define emergency alert signaling for digital cable receiving devices (ANSI J-STD-042-A [2]) and for IPTV terminal devices (ATIS-0800012 [1]). Receiving devices in the home with access to Commercial Video Services may wish to place such content on a home network. CEA-2035/DVS-847 defines a metadata format usable by these receiving devices to notify client devices in the home network of emergency alert information including text, audio, and specific details about the alert (such as originator and event code, severity, etc.). Some types of alerts are urgent enough that they trigger client devices to immediately switch to another channel offered by that service provider which is a source of live audio/video describing details of the alert (the "Details Channel"). The metadata format described here provides a pointer to the Details Channel for such cases. When outputting live programming on a channel defined in the schema as an "Exception Channel," client devices remain tuned to that channel to receive details of the alert.

Note that CEA-2035/DVS-847 does not specify required receiver behavior. Guidelines for the use of the metadata standardized here, such as those developed by the Digital Living Network Alliance (DLNA), specify these requirements. The purpose of CEA-2035/DVS-847 is to standardize the delivery format and syntax and semantics of the emergency alert metadata, specified here in the form of an XML Schema and associated element definitions.

Note also that CEA-2035/DVS-847 does not describe transport protocols and methods for the delivery of the emergency alert metadata in the home network. These aspects of the system definition are specified in other guidelines and standards. See for example DLNA guidelines on this topic.

Users of this standard should be aware that EAS is a topic which is subject to regulation and is currently under consideration by the Federal Emergency Management Agency (FEMA).

It should further be noted that service providers may not always provide emergency alert information in a format that is identifiable or translatable to the format required for redistribution within the home network as defined within this document.

2. REFERENCES

2.1 Normative References

The following standards contain provisions that, through reference in this text, constitute normative provisions of the appropriate sections of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying for the most recent editions of the standards listed in Sec. 2.1.1.

Note: CEA-2035/DVS-847 incorporates text from ATIS-0800012 [1] by permission of the Alliance for Telecommunications Industry Solutions, Inc., which retains all applicable copyrights to ATIS-0800012 [1].