

Triggering messages for broadcast applications —

Part 1: Format

The European Standard EN 62297-1:2005 has the status of a British Standard

ICS 33.170

National foreword

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Part 1: Format
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CENELEC

European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 100/910/FDIS, future edition 1 of IEC 62297-1, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62297-1 on 2005-05-01.

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- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-02-01 |
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Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62297-1:2005 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

Emerging data broadcasting specifications allow a service provider to **trigger** an **application** in a TV receiver. This International Standard specifies the format of a triggering message for TV broadcasting as based on the requirements defined in Annex A. Examples of possible use include displaying information to warn for severe weather conditions or to give rating advice for extreme content in TV programmes. In an interactive system, a message or icon might be displayed inviting on-line access to vote, to register an interest in an advertised product, or to browse programme-related content.

This standard describes a trigger mechanism for teletext transmission methods. The trigger mechanism can also be used for services broadcast via MPEG-2 DSM-CC sections. For the purposes of this standard, a **trigger** is defined as information sent from a service provider as part of a data broadcasting transmission and intended to control an **application** in a TV receiver. Additional information can be supplied along with the basic **trigger** to allow filtering or prioritization techniques to be applied at the receiver. The transmission aspects of trigger messages are specified in IEC 62297-2.

This trigger mechanism is very similar to the one defined in IEC/PAS 62292. The difference lies primarily in different state models, semantics and attribute names.

TRIGGERING MESSAGES FOR BROADCAST APPLICATIONS –

Part 1: Format

1 Scope

This part of IEC 62297 specifies an application-triggering scheme for TV broadcasting information sent from a service provider as part of a data broadcasting transmission and intended to control an **application** in a receiver.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8859-1, *Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1*

ETSI TS 101 231, *Television systems; Register of Country and Network Identification (CNI), Video Programming System (VPS) codes and Application codes for Teletext based systems*

ETSI EN 300 706, *Enhanced Teletext Specification*

3 Terms, definitions and abbreviations

3.1 Definitions

For the purposes of this document, the following terms and definitions, in singular or plural form, apply.

3.1.1

ActiveTimeValue

member of the **ApplicationObject**. The value decrements at video frame rate. It is updated on every reception of an **event message**.

3.1.2

Application

software running on a receiver that is addressed by the URL of a **trigger message** and providing the following modes of operation:

- a) the display of information, the playback of sound, the download of data;
- b) the initiation of any action.

Application examples include the display of a simple text message sent as part of the trigger message, the display of a Teletext, Superteletext (TeleWeb [Tw]) or Internet page, information from an Electronic Programme Guide (EPG), electronic voting, an emergency alert

3.1.3

ApplicationObject

object storing the information about an **application** started or modified by triggers referencing the same URL