

Digital audio broadcasting system - Specification of the DAB command set for receiver (DCSR)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50320:2002 sisaldab Euroopa standardi EN 50320:2000 ingliskeelset teksti.	This Estonian standard EVS-EN 50320:2002 consists of the English text of the European standard EN 50320:2000.
Käesolev dokument on jõustatud 15.10.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 15.10.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard describes a command set which should be used to control DAB receivers. The coding of these commands is also described. This command set is intended to be used on different physical bus systems. The coding should be mapped transparently on different physical interfaces.	Scope: This standard describes a command set which should be used to control DAB receivers. The coding of these commands is also described. This command set is intended to be used on different physical bus systems. The coding should be mapped transparently on different physical interfaces.
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Võtmesõnad: command set, dab, data bus, digital, digital audio, digital broadcasting, digital signals, electrical engineering, encoding, instructions, message, radiocommunications, receiver, receivers, reception, sound broadcasting, telecommunications, transmitters

English version

**Digital audio broadcasting system
Specification of the DAB command set for receivers (DCSR)**

Système de radiodiffusion sonore
numérique - Spécifications du jeu de
commande DAB pour le récepteur
(DCSR)

Digitales Tonrundfunksystem -
Spezifikation des DAB-Befehlssatzes
für Empfänger (DCSR)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 206, Consumer equipment for entertainment and information and related sub-systems.

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The following dates were fixed:

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 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-01-01
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1 General

1.1 Scope

This standard describes a command set which should be used to control DAB receivers. The coding of these commands is also described. This command set is intended to be used on different physical bus systems. The coding should be mapped transparently on different physical interfaces.

Selection conflict management, dynamic bandwidth problems and the device addressing are not within the scope of this document.

1.2 Structure of DCSR

The DCSR paper describes the Instruction Set, which consists of three types of messages as follows:

The "Command" is used by a controlling device in order to tell the DAB receiver to perform a certain action, to deliver certain information or to move into a certain state.

The "Response" contains only a quick reaction ($t_1 < 100$ ms, bus transfer time not included) to the "Command", e.g. accepted, rejected, busy. If the final response cannot be provided within 100 ms an interim response shall be sent within 100 ms. t_{1x} shall be zero if no interim response is sent. This response is mandatory and returned to the sender of the command.

The "Notification" contains the entire answer to the "Command". The commands are considered from the DAB receiver point of view. The notifications are sent to the controller or to the specified output.

A new command shall not be sent before the final response of the previous command was received ($t_2 \geq 0$)