SVENSK STANDARD SS-EN 62106

Fastställd	Utgåva	Sida	Ansvarig kommitté
2010-06-21	2	1 (1+155)	SEK TK 100

Radioutrustningar – Radiodatasystem (RDS) – Systembeskrivning

Specification of the Radio Data System (RDS) for VHF/FM sound broadcasting in the frequency range from 87,5 MHz to 108,0 MHz

Som svensk standard gäller europastandarden EN 62106:2009. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62106:2009.

Nationellt förord

Europastandarden EN 62106:2009

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 62106, Second edition, 2009 - Specification of the Radio Data System (RDS) for VHF/FM sound broadcasting in the frequency range from 87,5 MHz to 108,0 MHz**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 62106, utgåva 1, 2002, gäller ej fr o m 2012-12-01.

ICS 33.060.20; 33.170; 35.240.99

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62106

December 2009

ICS 33.060.20; 33.170; 35.240.99

Supersedes EN 62106:2001

English version

Specification of the Radio Data System (RDS) for VHF/FM sound broadcasting in the frequency range from 87,5 MHz to 108,0 MHz

(IEC 62106:2009)

Spécification du système de radiodiffusion de données (RDS) pour la radio à modulation de fréquence dans la bande 87,5 MHz à 108,0 MHz
(CEI 62106:2009)

Spezifikation des Radio-Daten-Systems (RDS) für den VHF/FM Tonrundfunk im Frequenzbereich 87,5 MHz bis 108,0 MHz
(IEC 62106:2009)

CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 62106:2009 E

SEK Svensk Elstandard

Foreword

The text of document 100/1454/CDV, future edition 2 of IEC 62106, prepared by technical area 1: Terminals for audio, video and data services and content, of 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 62106 on 2009-12-01.

This European Standard supersedes EN 62106:2001.

The main changes with respect to EN 62106:2001 are listed below.

– the list of RDS country codes, inclusive of the extended country codes, has been updated in Annexes D and N;

– Annex E, containing the character code tables to be used in RDS has been updated;

– RadioText Plus has been added as a new feature in Annex P;

– Enhanced RadioText has been added as a new feature in Annex Q.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2010-09-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2012-12-01

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 62106:2009 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
ISO/IEC 10646	-[1)]	Information technology - Universal multiple-octet coded character set (UCS)	-	-
ISO 14819	Series	Traffic and Traveller Information (TTI) - TTI messages via traffic message coding	EN ISO 14819	Series
ITU-R Recommendation BS.450-3	-[1)]	Transmission standards for FM sound broadcasting at VHF	-	-
ITU-R Recommendation BS.643-2	-[1)]	System for automatic tuning and other applications in FM radio receivers for use with the pilot-tone system	-	-
ITU-T Recommendation E.212	-[1)]	The international identification plan for public networks and subscriptions	-	-
US NRS-4-A	-[1)]	National Radio Systems Committee - NRSC-4-A: United States RBDS standard	-	-
-	-	Digital Audio Broadcasting (DAB);VHF/FM Broadcasting: cross-referencing to simulcast DAB services by RDS-ODA 147	ETSI EN 301 700	-[1)]

[1)] Undated reference.

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SPECIFICATION OF THE RADIO DATA SYSTEM (RDS) FOR VHF/FM SOUND BROADCASTING IN THE FREQUENCY RANGE FROM 87,5 MHz TO 108,0 MHz

1 Scope

This International Standard describes the Radio Data System, RDS, intended for application to VHF/FM sound broadcasts in the range 87,5 MHz to 108,0 MHz which may carry either stereophonic (pilot-tone system) or monophonic programmes (see clause 2 – Normative references ITU-R Recommendations BS 450-3 and BS 643-2). The main objectives of RDS are to enable improved functionality for FM receivers and to make them more user-friendly by using features such as Programme Identification, Programme Service name display and where applicable, automatic tuning for portable and car radios, in particular. The relevant basic tuning and switching information therefore has to be implemented by the type 0 group (see 6.1.5.1), and it is not optional unlike many of the other possible features in RDS.

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/IEC 10646, *Information technology – Universal Multiple-Octet Coded Character Set (UCS)*

ISO 14819 (all parts), *Traffic and Traveller Information (TTI) – TTI messages via traffic message Coding (TMC)*

ITU-R Recommendation BS.450-3, *Transmission standards for FM sound broadcasting at VHF*

ITU-R Recommendation BS.643-2, *System for automatic tuning and other applications in FM radio receivers for use with the pilot-tone system*

ITU-T Recommendation E.212, *For the three digit Mobile Country Codes used in Annex M of this RDS specification refer to Complement to ITU-T Rec. E.212 (05/2004) published by ITU Geneva as Annex to ITU Operational Bulletin 897, dated 2007-12-01*

US NRSC-4-A, *National Radio Systems Committee – NRSC-4-A: United States RBDS standard*

ETSI EN 301 700, *Digital Audio Broadcasting (DAB); VHF/FM broadcasting: cross referencing to simulcast DAB services by RDS-ODA 147*