



**National Standards Authority of Ireland**

**IRISH STANDARD**

**I.S. EN 12795:2003**

ICS 35.100.20;

**ROAD TRANSPORT AND TRAFFIC  
TELEMATICS - DEDICATED SHORT RANGE  
COMMUNICATION (DSRC) - DSRC DATA LINK  
LAYER: MEDIUM ACCESS  
AND LOGICAL LINK CONTROL**

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*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on:  
July 14, 2003*

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EUROPEAN STANDARD

**EN 12795**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2003

ICS 35.100.20; 35.240.60

Supersedes ENV 12795:1997

English version

## Road transport and traffic telematics - Dedicated Short Range Communication (DSRC) - DSRC data link layer: medium access and logical link control

Télématique de la circulation et du Transport routier -  
Communication à courte portée - Couche de liaison de  
contrôle d'accès au média et de contrôle logique de liaison

This European Standard was approved by CEN on 4 December 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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# EN 12795:2003 (E)

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## Foreword

This document (EN 12795:2003) has been prepared by Technical Committee CEN TC 278 "Road Transport and Traffic Telematics", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2003, and conflicting national standards shall be withdrawn at the latest by September 2003.

This document supersedes ENV 12795:1997.

The development of this standard was carried out under European Commission Mandate M/018.

This European Standard forms part of a series of European Standards defining the framework of a Dedicated Short Range Communication (DSRC) link in the Road Transport and Traffic Telematics (RTTT) environment.

The communication requirements of many RTTT applications can be fulfilled by DSRC. The DSRC standards enable compliant communication systems to serve multiple RTTT applications in parallel.

The small service areas and severe real-time constraints require a specific protocol architecture leading to the reduced protocol stack shown in Figure A, consisting of the Application Layer, the Data Link Layer, and the Physical Layer. Such architecture is very common for real-time environments.

This European Standard gives the architecture and services offered by the DSRC Data Link Layer.

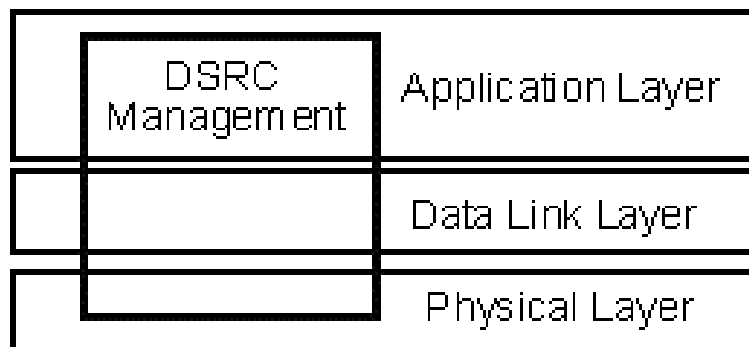


Figure A — DSRC protocol stack

The following set of European Standards for the DSRC link is issued by CEN:

- EN 12253 "DSRC Physical Layer using Microwave at 5.8 GHz";
- **EN 12795 "DSRC Data Link Layer: MAC and LLC" (this European Standard);**
- EN 12834 "DSRC Application Layer" ;
- EN 13372 "DSRC Profiles for RTTT Applications".

Annex A is normative. Annexes B, C, D and E are informative.

## **EN 12795:2003 (E)**

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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