



National Standards Authority of Ireland

IRISH STANDARD

**I.S. ENV ISO 14815:2000**

ICS 35.240.60

**ROAD TRANSPORT AND TRAFFIC  
TELEMATICS - AUTOMATIC VEHICLE AND  
EQUIPMENT IDENTIFICATION - SYSTEM  
SPECIFICATION (ISO/TR 14815:2000)**

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EUROPEAN PRESTANDARD  
PRÉNORME EUROPÉENNE  
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English version

**Road transport and traffic telematics - Automatic vehicle and  
equipment identification - System specification (ISO/TR  
14815:2000)**

Télématique de la circulation et du transport routier -  
Identification automatique des véhicules et équipements -  
Spécification des systèmes (ISO/TR 14815:2000)

Telematik für den Straßenverkehr und Transport -  
Automatische Identifizierung von Fahrzeugen und Geräten  
- Systemspezifikation (ISO/TR 14815:2000)

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The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

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## **FOREWORD**

This European Prestandard has been prepared by Technical Committee CEN/TC 278 "Road transport and traffic telematics", the secretariat of which is held by NNI, in collaboration with Technical Committee ISO/TC 204 "Transport information and control systems".

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## INTRODUCTION

### SYSTEM SPECIFICATION

This pre-Standard is designed to enable users and suppliers of AVI/AEI systems to specify system specification that will enable a nominal interoperability based on a DSRC link (see clause 5.5).

The terms "AVI" and "AEI" are used both to describe "independently functioning AVI/AEI systems" and as "the function of identification within other RTTT/TICS systems". Both such uses are supported by this pre-Standard where no other application or sector standard applies.

Whilst it may be desirable to determine a single set of requirements for operation in all environments and under all operating conditions, this could impose unacceptable costs.

This pre-Standard therefore provides standard "classes" for different aspects of system specification, such that a system specifier may select the appropriate performance parameters to meet a particular requirement. Supporting (informative) annexes also provide a number of general use "categories" which may be used to specify the environmental and operating parameters to support interoperable applications.

The architecture descriptions provided in this pre-Standard are in compliance with the guidelines provided by CEN TC 278 WG13/ISO TC 204 WG1.

For the data structure elements, Abstract Syntax Notation One (ASN.1) Packed Encoding Rules (PER) (ref. ISO/IEC 8824:1998 and ISO/IEC 8825-1:1998, ISO/IEC 8825-2:1998 and ISO/IEC DIS 8825-3:1992) are used. This usage provides maximum interoperability and conformance to existing Standards.

For detailed information on the use of ASN.1 PER for AVI/AEI applications reference is made to pre-Standard ENV ISO 14816 (AVI/AEI Numbering and Data Structures).

This pre-Standard (ENV ISO 14815) provides classification procedures and details test requirements needed to support system definition. These requirements are, wherever possible, determined by reference to existing Standards and established practices.

### TEST REQUIREMENTS

Test Requirements are determined for AVI/AEI system components. The requirements to meet this pre-Standard encompass general performance measurement, operational, and environmental aspects.

### HOW TO USE THIS STANDARD

It is also an objective to provide users with different applications and in different environmental circumstances a useful tool that is flexible enough to serve the various different needs. The categorisation and classification system in this pre-Standard provides for this.

A brief guide showing how to use this pre-Standard is provided at the end of Annex A of this pre-Standard.

#### **COMPLIANCE**

**In order to claim compliance with this pre-Standard, a supplier shall provide, for each physically separated component, detail of the classification of its product for all relevant (environmental and operational) parameters determined within this pre-Standard.**

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