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Second edition
2013-07-15

Intelligent transport systems — Forward vehicle collision warning systems — Performance requirements and test procedures

*Systèmes intelligents de transport — Systèmes d'avertissement
de collision frontale du véhicule — Exigences de performance et
modes opératoires*



Reference number
ISO 15623:2013(E)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The committee responsible for this document is ISO/TC 204, *Intelligent transport systems*.

This second edition cancels and replaces the first edition (15623:2002), which has been technically revised.

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Introduction

The main system function of a forward vehicle collision warning system (FVCWS) is to warn the driver when the subject vehicle encounters the situation of a forward vehicle in the subject vehicle's trajectory becoming a potential hazard. This is done by using information such as: (1) the range to forward vehicles, (2) the relative velocity of the forward vehicles with respect to subject vehicle and (3) whether a forward vehicle is in the subject vehicle trajectory. Based upon the information acquired, the controller identified as "FVCWS target selection and warning strategy" in [Figure 1](#) produces the warning to the driver.

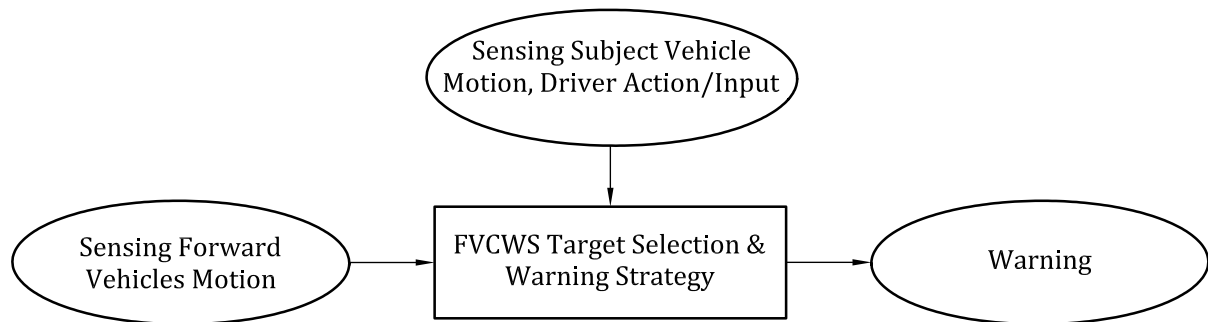


Figure 1 — Functional forward vehicle collision warning system's elements

Automobile manufacturers and component suppliers throughout the world have been vigorously pursuing the development and commercialisation of these FVCWS systems. Systems of this type have already been introduced on to the market in some countries. Thus the standardization efforts began in 1994 amongst interested countries. This International Standard is composed to address only the basic performance requirements and test procedures for the FVCWS type systems. This International Standard may be used as a basis by other standards for systems which have more features and may extend beyond this International Standard.