ISO/DTS 22741-2

ISO/TC 204/WG 9

Secretariat: ANSI

that might Date: 2023-06-27

~~**ISO/DTS 22741 20684-2 (CD)**~~

~~ISO TC 204/WG 9~~

~~Secretariat: ANSI~~

Date: 2024-03-12

Intelligent transport systems– — Roadside modules AP-DATEX data interface—– —

Part- 2:
Generalised field device basic management

~~CD stage~~

~~**Warning for WDs and CDs**~~

~~This document is not an ISO International Standard. It is distributed for review and comment. It is subject to change without notice and may not be referred to as an International Standard.~~

~~Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.~~

ISO copyright office
CP 401 • Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. Phone: + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail: copyright@iso.org
www.iso.org
Website: www.iso.org

Published in Switzerland

Contents

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at ~~www.iso.org/patents~~.www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see ~~www.iso.org/iso/foreword.html~~www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

A list of all parts in the ISO 22741 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

0.1 Background

The need for standardized communication with field devices is growing around the world. Several countries have already adopted application profile data exchange (AP-DATEX) based field device communication standards.

There is a growing opinion, supported by empirical evidence, that standardizing this activity will result in improved intelligent transport service (ITS) performance, reduced cost, reduced deployment time, and improved maintainability. The ISO 22741 series extends ISO 15784-3 by defining the management information necessary to monitor, configure and control features of field devices. The data elements defined in all parts of the ISO 22741 series may be used with any protocol, but were designed with an expectation that they would be used with one of the ISO 15784-3 protocols.

By using the approach described in this document, agencies can specify open procurements and systems can be expanded geographically in an open and non-proprietary manner, which reduces the costs, speeds and deployment, and simplifies the integration.

0.2 Overview

AP-DATEX is a collection of well thought-out and well-proven concepts and principles. AP-DATEX employs the sound principles of abstraction and ~~standardisation.~~ standardization. This has led to AP-DATEX being widely accepted as the prime choice for communication between management systems and devices on the Internet, and other communications networks.

This document defines management information for ITS field devices following the AP-DATEX conventions.

0.3 Document approach and layout

This document defines:

a) user needs that are deemed to be common to many types of field devices ~~(Caluse 7);~~(Clause 7);

b) requirements for implementing the identified user needs, organized by major feature ~~(Clause 8);~~(Clause 8);

c) design elements that are to be used in implementing the requirements ~~(Cloause 9).~~(Clause 9).