SLOVENSKI STANDARD
SIST-TS CEN ISO/TS 14827-4:2023

01-januar-2023

Inteligentni transportni sistemi - Podatkovni vmesniki med centri za transportne informacije in nadzornimi sistemi - 4. del: Podatkovni vmesniki med centri za inteligentne transportne sisteme (ITS) z uporabo XML (profil B) (ISO/TS 14827-4:2022)

Intellligent transport systems - Data interfaces between centres for transport information and control systems - Part 4: Data interfaces between centres for intelligent transport systems (ITS) using XML (Profile B) (ISO/TS 14827-4:2022)

Verkehrsinformations- und Steuersysteme - Datenschnittstellen zwischen Verkehrsleitstellen und Steuersystemen - Teil 4: Datenschnittstellen zwischen Leitstellen für intelligente Verkehrssysteme (ITS), die XML (Profil B) verwenden (ISO/TS 14827-4:2022)

Systèmes de transport intelligents - Interface de données entre centres pour les systèmes de commande et d'information des transports - Partie 4: Interfaces de données entre centres pour systèmes de transport intelligents (ITS) utilisant XML (Profil B) (ISO/TS 14827-4:2022)

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03.220.20	Cestni transport	Road transport
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TECHNICAL SPECIFICATION

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English Version

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The period of validity of this CEN/TS 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 CEN/TS can be converted into a European Standard.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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CEN ISO/TS 14827-4:2022 (E)

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European foreword

This document (CEN ISO/TS 14827-4:2022) has been prepared by Technical Committee ISO/TC 204 "Intelligent transport systems" in collaboration with Technical Committee CEN/TC 278 "Intelligent transport systems" the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO/TS 14827-4:2022 has been approved by CEN as CEN ISO/TS 14827-4:2022 without any modification.

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Intelligent transport systems — Data interfaces between centres for transport information and control systems —

Part 4:
Data interfaces between centres for Intelligent transport systems (ITS) using XML (Profile B)

Systèmes de transport intelligents - Interface de données entre centres pour les systèmes de commande et d'information des transports —
Partie 4: Interfaces de données entre centres pour systèmes de transport intelligents (ITS) utilisant XML (Profil B)

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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.

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 documents 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).

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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.

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 278, *Intelligent transport systems,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 14827 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

Data exchange among centres is a baseline service for implementing intelligent transport system (ITS) services. For interoperability purposes, data delivery and collaborative ITS services need to be implemented according to certain specifications based on fully-described interfaces. The functional exchange profiles implementing push and pull exchange patterns aim to guarantee timely and reliable delivery of information, based on a defined level of service and user requirements. These depend on application level. A variety of options for implementing exchange are therefore described. These enable several interoperable exchange patterns with required features to fully satisfy user requirements: from Snapshot Pull/Push to Simple Push to Stateful Push, also considering a service request/service feedback collaborative ITS services business scenario, which allows interoperable exchange among any number of interconnected and collaborating elements to implement traffic management and traffic information services orchestrated among several ITS actors.

This document aims to define and describe the requirements on XML messages for implementing messages using XML Profile B. In particular, it is intended to be used in platform-specific implementations using simple object access protocol (SOAP) web services to enable DATEX II (EN 16157-1) XML coded messages for Snapshot Pull, Snapshot Push, Simple Push and Stateful Push. It is additionally relevant to collaborative ITS services (CISs) such as Simple CIS and Stateful CIS exchange patterns with relative functional exchange profiles as described by ISO/TS 19468. Figure 1 describes the relationship between exchange-related documents.
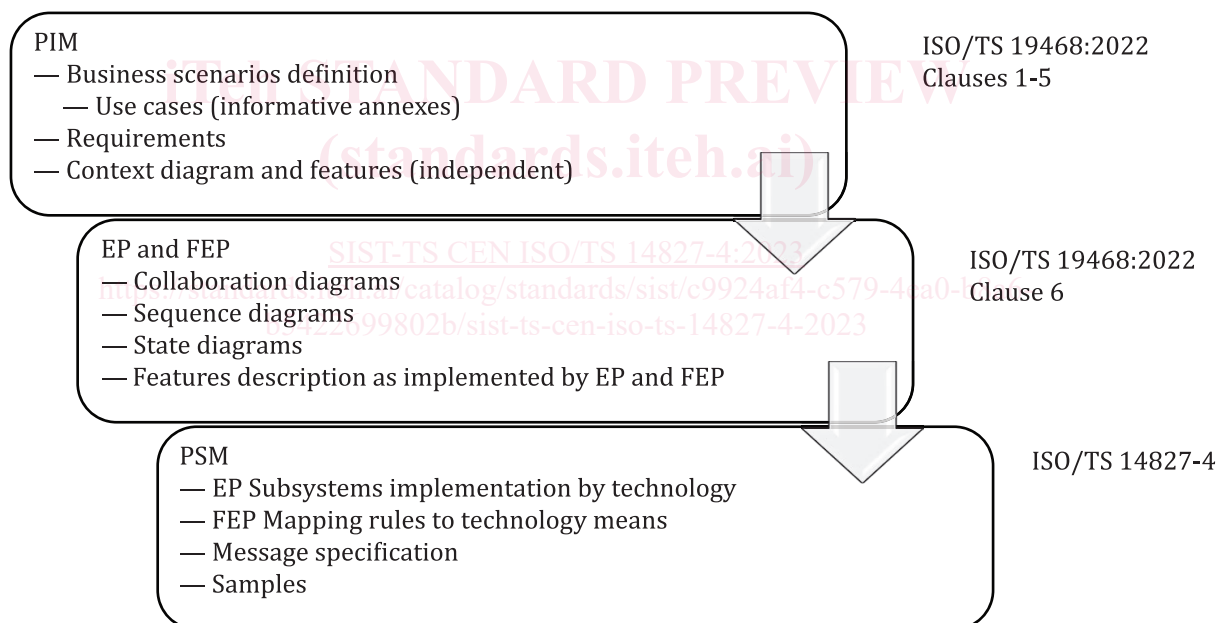
Key

PIM   platform-independent model

EP   exchange pattern

FEP   functional exchange profile

PSM   platform-specific model

Figure 1 — Relationship between exchange-related documents

The message structure defined in this document refers to the "basic exchange data model" and derived data dictionary defined in ISO/TS 19468:2022, Annex C, which is implemented in XML schema by the DATEX II methodology defined in EN 16157-1.

This document is not intended to conflict with existing standards on interfaces of data exchange among ITS centres.