

SLOVENSKI STANDARD SIST-TP CEN ISO/TR 24014-2:2013

01-december-2013

Javni prevoz - Interoperabilni sistem vodenja (pre)voznin - 2. del: Poslovne prakse (ISO/TR 24014-2:2013)

Public transport - Interoperable fare management system - Part 2: Business practices (ISO/TR 24014-2:2013)

Öffentlicher Verkehr -Interoperables Fahrgeldmanagement - Teil 2: Empfohlene Verfahren für Regelsatz (ISO/TR 24014-2:2013) PREVIEW

Transport public - Système de gestion tarifaire interopérable - Partie 2: Pratiques commerciales (ISO/TR 24014-2:2013) CEN ISO/TR 24014-2:2013

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Ta slovenski standard je istoveten z: CEN ISO/TR 24014-2-2013

ICS:

03.220.01 Transport na splošno Transport in general

35.240.60 Uporabniške rešitve IT v IT applications in transport

transportu in trgovini and trade

SIST-TP CEN ISO/TR 24014-2:2013 en,fr,de

SIST-TP CEN ISO/TR 24014-2:2013

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TECHNICAL REPORT

CEN ISO/TR 24014-2

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

August 2013

ICS 03.220.01; 35.240.60

English Version

Public transport - Interoperable fare management system - Part 2: Business practices (ISO/TR 24014-2:2013)

Transport public - Système de gestion tarifaire interopérable - Partie 2: Pratiques commerciales (ISO/TR 24014-2:2013)

Öffentlicher Verkehr -Interoperables Fahrgeldmanagement - Teil 2: Empfohlene Verfahren für Regelsatz (ISO/TR 24014-2:2013)

This Technical Report was approved by CEN on 16 March 2013. It has been drawn up by the Technical Committee CEN/TC 278.

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CEN ISO/TR 24014-2:2013 (E)

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CEN ISO/TR 24014-2:2013 (E)

Foreword

This document (CEN ISO/TR 24014-2:2013) 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.

Endorsement notice

The text of ISO/TR 24014-2:2013 has been approved by CEN as CEN ISO/TR 24014-2:2013 without any modification.

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TECHNICAL REPORT

ISO/TR 24014-2

First edition 2013-08-15

Public transport — Interoperable fare management system —

Part 2: **Business practices**

Transport public — Système de gestion tarifaire interopérable —

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

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

ISO/TR 24014-2 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 278, Road transport and traffic telematics, in collaboration with Technical Committee ISO/TC 204, Intelligent transport systems, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). Transport Systems in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). Transport Systems in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO/TR 24014-2;together with ISO/TR 24014-3:2013 and the future second edition of ISO 24014-1, will cancel and replace ISO 24014-1:2007.

ISO 24014 consists of the following parts, under the general title *Public transport* — *Interoperable fare management system*:

- Part 1: Architecture
- Part 2: Business practices [Technical Report]
- *Part 3: Multi-application media* [Technical Report]

Introduction

ISO 24014-1 defines the reference functional model of an Interoperable Fare Management System (hereafter IFM functional model). The scope of ISO 24014-1 excludes irrelevant aspects related to interoperability, particularly organizational and physical implementation.

Among the matters that are outside the scope and not clearly or concretely described in ISO 24014-1, this Technical Report provides a conceptual framework to guide the integration of such business practices, which is important when constructing an IFMS compliant with ISO 24014-1

For this purpose, this Technical Report provides a conceptual framework that is described below.

ISO 24014-1 states that a full IFMS is described by its functional model of IFMS and its Set of Rules. Therefore, Set of Rules is one of the necessary components to understand the full or whole IFMS environment. However, ISO 24014-1:2007 is limited in description, only addressing Set of Rules in addition to some security and identification rules specifically stated as "... regulations achieving IFM policies expressed as technical, commercial, security and legal requirements and standards relevant to only IFMS."

The objective of this Technical Report then is to aid readers in their understanding of the whole structure of Set of Rules by concretely clarifying the relationship with IFM functional model.

In the introduction of ISO 24014-1, it is noted that there may be cases where multiple existing IFMSs work together collaboratively while distributing their functions across the different IFMSs. Specifically, these cases that consider integrating/distributing functions between existing IFMSs are one of the most effective ways of implementing and expanding the interoperability of existing IFMSs. However, there are no concrete descriptions about the interoperability of multiple existing IFMSs, because, from the viewpoint of ISO 24014-1, multiple existing IFMSs that achieve interoperability are functionally considered as a single IFMS.

This Technical Report clarifies how interoperability that is realized among multiple existing IFMSs or expanded to them can be understood from both IFM functional model and Set of Rules viewpoints. Further, this Technical Report explains how cases of collaboration, in which IFM functional model and functional model of non public transport applications are involved, can be interpreted from the viewpoint of IFM functional model.

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