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INTERNATIONAL STANDARD

ISO/IEC 24752-4

Second edition
2014-12-15

Information technology — User interfaces — Universal remote console —

Part 4: Target description

Technologies de l'information — Interfaces utilisateur — Console à distance universelle —

Partie 4: Description d'objectifs

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 35, *User interfaces*.

This second edition cancels and replaces the first edition (ISO/IEC 24752–4:2008), which has been technically revised.

ISO/IEC 24752 consists of the following parts, under the general title *Information technology — User interfaces — Universal remote console*:

— *Part 1: Framework*

— *Part 2: User interface socket description*

— *Part 4: Target description*

— *Part 5: Resource description*

— *Part 6: Web service integration*

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Introduction

This is the second edition of this part of the International Standard. The main purpose of the revision is an alignment with recent developments in the Web service area, in particular with the new ISO/IEC 24752-6 on Web service integration, along with an overall simplification of the specified technologies.

A target is a device or service that can be remotely accessed by a universal remote console (URC). All targets provide exactly one target description (TD) through which they advertise their properties to URCs during the discovery phase of a target-URC interaction. The TD provides the information needed by a URC to connect to one of the target's sockets in order to start a control session.

Target properties are network-independent characteristics of a target that are made available to any URC in order to inform the user about the target's purpose, and to provide references to resources and documents that are needed to control the target via its sockets. The target description is independent of a natural language. URCs need to consult the referenced resources in order to present this information to the user.

A target description (TD) is an extensible markup language (XML) document describing a target so that it can be discovered by a URC. A TD contains references to XML documents, pertaining to specific target sockets. These documents are: a user interface socket description (described in ISO/IEC 24752-2), resource sheets (described in ISO/IEC 24752-5), grouping sheets (described in ISO/IEC 24752-5) and user interface implementation descriptions (UIIDs) in any format.

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Information technology — User interfaces — Universal remote console —

Part 4: Target description

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1 Scope

ISO/IEC 24752 is a multi-part International Standard to facilitate operation of information and electronic products through remote and alternative interfaces and intelligent agents.

This part of ISO/IEC 24752 defines an extensible markup language (XML) based language for the description of targets, as used within the universal remote console framework for discovery purposes. A document conforming to this language is a *target description*.

2 Conformance

An XML file conforms to this part of ISO/IEC 24752 (i.e. is a target description) if it fulfils all of the following requirements:

— it has an MIME type as specified in 5.2, if applicable;

— it is coded in UCS (see 6.1);

— its root element is the <td:target> element (with td representing the namespace "http://openurc.org/ns/targetdesc-2"), as defined in Clause 6;

— it contains all required elements and attributes with their proper values, as specified in Clause 6; and

— if it contains recommended or optional elements or attributes with their values, these are presented as specified in Clause 6.

NOTE 1 Strict language conformance (i.e. no additional elements or attributes allowed) is not required because future versions of this part of ISO/IEC 24752 might add new elements, attributes and values. Therefore, URC manufacturers are encouraged to implement their URCs so that unrecognized markup is ignored without failing.

NOTE 2 Target manufacturers who want to add manufacturer-specific information to a target description beyond the elements, attributes and values specified in this part of ISO/IEC 24752 can do so by externally providing (proprietary) resource descriptions that point into the structure of a target description. Refer to ISO/IEC 24752—5 for details.

3 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 10646:2012, *Information technology — Universal Coded Character Set (UCS)*

ISO/IEC 24752-1, *Information technology — User interfaces — Universal remote console — Part 1: Framework*

ISO/IEC 24752-2, *Information technology — User interfaces — Universal remote console — Part 2: User interface socket description*

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ISO/IEC 24752-5, *Information technology — User interfaces — Universal remote console — Part 5: Resource description*

ISO 15836:2009, *Information and documentation — The Dublin Core metadata element set*

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