
**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



Reference number
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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.

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

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

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.

ISO/IEC 24752-4 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 35, *User interfaces*.

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 3: Presentation template*
- *Part 4: Target description*
- *Part 5: Resource description*

Introduction

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. A target has exactly one TD.

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 location, 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 (sub-)documents, pertaining to specific target sockets. These documents are: a user interface socket description (described in ISO/IEC 24752-2), resource directories (described in ISO/IEC 24752-5) and user interface implementation descriptions (UIIDs) including presentation templates (described in ISO/IEC 24752-3).

Information technology — User interfaces — Universal remote console —

Part 4: Target description

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 and their sockets, 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 has the MIME type specified in 5.2, if applicable, and
- its root element is the `<td:target>` element (td: representing the namespace `http://myurc.org/ns/targetdesc`) as defined in Clause 6.

An XML file does not conform to this part of ISO/IEC 24752 if it uses any element, attribute or value that is not part of this specification (except for extension points that are explicitly included by this part of ISO/IEC 24752, see 6.7.4 for example).

NOTE 1 Target manufacturers who want to add 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.

NOTE 2 Future versions of this part of ISO/IEC 24752 may add new elements, attributes and values. Also, future versions may drop the policy of strict language conformance in favor of allowing for language extensions. Therefore, URC manufacturers are encouraged to implement their URCs so that unrecognized markup is ignored without failing.

3 Normative references

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

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

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