



NSAI
Standards

Irish Standard Recommendation
S.R. CEN ISO/IEC TR 25060:2017

Systems and software engineering - Systems and software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for usability: General framework for usability-related information (ISO/IEC TR 25060:2010)

S.R. CEN ISO/IEC TR 25060:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

CEN ISO/IEC TR 25060:2017

Published:

2017-04-12

This document was published under the authority of the NSAI and comes into effect on:

2017-04-30

ICS number:

35.080

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

S.R. CEN ISO/IEC TR 25060:2017 is the adopted Irish version of the European Document CEN ISO/IEC TR 25060:2017, Systems and software engineering - Systems and software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for usability: General framework for usability-related information (ISO/IEC TR 25060:2010)

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

TECHNICAL REPORT

CEN ISO/IEC TR 25060

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

April 2017

ICS 35.080

English Version

Systems and software engineering - Systems and software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for usability: General framework for usability-related information (ISO/IEC TR 25060:2010)

Ingénierie des systèmes et du logiciel - Exigences de qualité et évaluation des systèmes et du logiciel (SQuaRE) - Format industriel commun (CIF) pour l'utilisabilité: Cadre général pour les informations relatives à l'utilisabilité (ISO/IEC TR 25060:2010)

This Technical Report was approved by CEN on 3 April 2017. It has been drawn up by the Technical Committee CEN/TC 122.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European foreword.....	3

European foreword

The text of ISO/IEC TR 25060:2010 has been prepared by Technical Committee ISO/IEC JTC 1 “Information technology” of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) and has been taken over as CEN ISO/IEC TR 25060:2017 by Technical Committee CEN/TC 122 “Ergonomics” the secretariat of which is held by DIN.

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

Endorsement notice

The text of ISO/IEC TR 25060:2010 has been approved by CEN as CEN ISO/IEC TR 25060:2017 without any modification.

This page is intentionally left blank

TECHNICAL REPORT

**ISO/IEC
TR
25060**

First edition
2010-07-15

Systems and software engineering — Systems and software product Quality Requirements and Evaluation (SQuaRE) — Common Industry Format (CIF) for usability: General framework for usability-related information

*Ingénierie des systèmes et du logiciel — Exigences de qualité et
évaluation des systèmes et du logiciel (SQuaRE) — Format industriel
commun (CIF) pour l'utilisabilité: Cadre général pour les informations
relatives à l'utilisabilité*

Reference number
ISO/IEC TR 25060:2010(E)



ISO/IEC TR 25060:2010(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Terms and definitions	1
3 A general framework for usability-related information	5
3.1 Intended users and uses of usability-related information items.....	5
3.2 Situations in which the information items apply	6
3.3 Process independence	7
3.4 Relationship to human-centred design (HCD) as described in ISO 9241-210.....	7
3.5 Iteration and support for exploration	8
4 Usability-related information items	8
4.1 General	8
4.2 Context of use description	8
4.3 User needs report.....	9
4.4 User requirements specification.....	9
4.5 User interaction specification	10
4.6 User interface specification	11
4.7 Evaluation report	11
4.8 Field data report	12
Annex A (informative) Intended users and uses of the usability-related information items	13
Bibliography.....	21

ISO/IEC TR 25060:2010(E)

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.

In exceptional circumstances, the joint technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when the joint 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).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide 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 and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC TR 25060, which is a Technical Report of type 3, was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

Introduction

The purpose of this Technical Report is to define a framework and consistent terminology for the specification and evaluation of the usability of an interactive system. Specifying and evaluating usability will assist those developing and acquiring interactive systems. It describes a framework that defines a set of information items as part of a human-centred approach to the design of an interactive system. The framework is intended to assist in documenting and communicating usability-related information through the system development life cycle.

The human-centred design approach of ISO 9241-210¹⁾ is well established and focuses specifically on making systems usable. Usability can be achieved by applying human-centred design and testing throughout the life cycle. In order to enable a human-centred design approach to be adopted, it is important that all the relevant usability information items are identified and documented. This identification and documentation enables the usability of a system to be designed and tested.

This framework forms the basis for a family of International Standards that will provide a Common Industry Format (CIF) for specific information items to be used as part of a human-centred approach to design of interactive systems. ISO/IEC 25062, which standardizes the types of information that are documented when providing a detailed report of the results of measuring effectiveness, efficiency and satisfaction, is the first specific International Standard in this family.

The CIF for usability family is part of the SQuaRE series of International Standards (ISO/IEC 25000 to ISO/IEC 25099) on software product quality requirements and evaluation. The scope of the CIF family covers systems rather than just software, so is broader than that of the current SQuaRE series. The CIF family of International Standards uses definitions (reproduced in Clause 2) that are consistent with ISO 9241, as this is the terminology that is normally used for this subject matter. In some cases these definitions differ from those in ISO/IEC 25000.

To ensure that these information items can be used within the broadest range of process models and can be used in combination with other information items, the descriptions are given in the format defined in ISO/IEC 15289 and ISO/IEC TR 15504-6.

The information items for documenting usability-related information can be integrated in any process models. For the purpose of establishing process models, ISO/IEC TR 24774 and ISO/IEC 15504-2 specify the format and conformance requirements for process models, respectively. In addition, ISO/IEC 15289 defines the types and content of information items developed and used in process models for system and software life cycle management. ISO/IEC 15504-5 and ISO/IEC TR 15504-6 define work products, including information items, for the purpose of process capability assessment. Process models and associated information items for human-centred design of interactive systems are contained in ISO 9241-210 and ISO/PAS 18152, respectively.

While this Technical Report focuses on information items needed as the basis for design and development of interactive systems, the data contained in the information items can support post-development activities such as (product) conformity assessment as defined in ISO/IEC 17000:2004.

1) Previously ISO 13407.

Systems and software engineering — Systems and software product Quality Requirements and Evaluation (SQuaRE) — Common Industry Format (CIF) for usability: General framework for usability-related information

1 Scope

This Technical Report describes a potential family of International Standards, named the Common Industry Formats (CIF), that document the specification and evaluation of the usability of interactive systems. It provides a general overview of the CIF framework and contents, definitions, and the relationship of the framework elements. The intended users of the framework are identified, as well as the situations in which the framework may be applied. The assumptions and constraints of the framework are also enumerated.

The framework content includes the following:

- consistent terminology and classification of specification, evaluation and reporting;
- a definition of the type and scope of formats and the high-level structure to be used for documenting required information and the results of evaluation.

This Technical Report is applicable to software and hardware products used for predefined tasks. The information items are intended to be used as part of system-level documentation resulting from development processes such as those in ISO 9241-210, and ISO/IEC JTC 1/SC 7 process standards.

This Technical Report focuses on documenting those elements needed for design and development of usable systems, rather than prescribing a specific process. It is intended to be used in conjunction with existing International Standards, including ISO 9241, ISO 20282, ISO/IEC 9126 and the SQuaRE series (ISO/IEC 25000 to ISO/IEC 25099).

This Technical Report does not prescribe any kind of method, life cycle or process.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

accessibility

⟨interactive system⟩ usability of a product, service, environment or facility by people with the widest range of capabilities

[ISO 9241-171:2008]

2.2

action

user behaviour that a system accepts as a request for a particular operation

[ISO/IEC TR 11580:2007]

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-