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Software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing

Ingénierie du logiciel — Exigences de qualité et évaluation des systèmes et du logiciel (SQuaRE) — Exigences de qualité pour les progiciels et instructions d'essai

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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 25051 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*. This second edition cancels and replaces the first edition (ISO/IEC 25051:2006), which has been technically revised. It also incorporates the Technical Corrigendum ISO/IEC 25051:2006/Cor.1:2007.

The main changes are as follows:

— English and French titles corrected;

— modification of RUSP definition, scope and examples;

— harmonization with the current SQuaRE series.

ISO/IEC 25051 is a part of the SQuaRE series of International Standards, which consists of the following divisions:

— Quality Management Division (ISO/IEC 2500n);

— Quality Model Division (ISO/IEC 2501n);

— Quality Measurement Division (ISO/IEC 2502n);

— Quality Requirements Division (ISO/IEC 2503n);

— Quality Evaluation Division (ISO/IEC 2504n);

— Extension Division (ISO/IEC 25050: – ISO/IEC 25099).

Introduction

Ready to Use Software Product (RUSP) are used in an increasingly wide variety of application areas and their correct operation is often vital for business, safety and personal applications.

Ready to Use Software Product (RUSP) are packages sold to the acquirer who had no influence on its features and other qualities. Typically the software is sold pre-wrapped or downloaded via web store with its user documentation. A software product, which a user can use anytime thorough Cloud Computing may be considered as RUSP. The information provided on the cover of the package or the supplier website is often the only means whereby the manufacturer or marketing organization can communicate with the acquirer and user. It is therefore important that essential information is given to enable acquirers to evaluate the quality of the Ready to Use Software Product (RUSP) for their needs.

Selecting high quality Ready to Use Software Product (RUSP) is of prime importance, because Ready to Use Software Product (RUSP) may have to be operational in various environments and selected without the opportunity to compare performance among similar products. Suppliers need a way to ensure confidence in services given by the Ready to Use Software Product (RUSP) to the users. Some suppliers may choose a conformity evaluation group for evaluation or certification to assist them in providing this confidence.

In addition, when users require assurances that business or safety critical risks are involved, those assurances may need to be addressed by the user using techniques chosen by the user after the purchase. It is not the intent of this International Standard to specify minimum safety or business critical quality requirements for RUSP; however, informative guidance is given. (See Annex A.)

ISO/IEC 25051:2006 was developed based on ISO/IEC 9126-1:2001 and replaced ISO/IEC 12119:1994. This second edition of ISO/IEC 25051 is a revision of ISO/IEC 25051:2006, in order to conform to ISO/IEC 25010:2011, which replaced ISO/IEC 9126-1:2001 quality model.

These items are the major points for revising this International Standard, which provides a set of requirements for Ready to Use Software Product (RUSP) and requirements for testing a Ready to Use Software Product (RUSP) against its requirements.