Software engineering —
Recommended practice for software acquisition

Ingénierie du logiciel — Pratique recommandée pour l'acquisition des logiciels
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IEEE Recommended Practice for Software Acquisition

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Software & Systems Engineering Standards (C/S2ESC) Committee of the IEEE Computer Society

Approved 5 December 2015

IEEE-SA Standards Board
Abstract: A set of useful quality considerations that can be selected and applied during one or more steps in a software acquisition process is described in this recommended practice. The recommended practices can be applied to software that runs on any computer system regardless of the size, complexity, or criticality of the software. The software supply chain may include integration of off-the-shelf (OTS), custom, or free and open source software (FOSS). Each organization or individual using this recommended practice will need to identify the specific quality and activities that need to be included within its acquisition process.

Keywords: acquirer, custom developed, end user, FOSS, IEEE 1062™, off-the-shelf, OTS, SaaS, software acquisition process, software as a service, supplier
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Introduction

This introduction is not part of IEEE Std 1062-2015, IEEE Recommended Practice for Software Acquisition.

This introduction provides some background on the rationale used to develop this recommended practice. This information is meant to aid in the understanding and usage of this recommended practice.

This recommended practice describes the management and execution of software acquisition activities. It is intended for the following:

— Individuals or organizations that acquire software from suppliers
— Individuals or organizations that acquire software from a developer for resale to other individuals or organizations
— Individuals or organizations that influence how software is acquired from suppliers
— Suppliers interested in providing high-quality software to acquirers

This recommended practice is designed to help organizations and individuals

— Incorporate quality considerations during the definition, evaluation, selection, and acceptance of supplier software for operational use
— Determine how supplier software should be evaluated, tested, and accepted for delivery to end users

This recommended practice is intended to satisfy the following objectives:

— Promote consistency within organizations in acquiring third-party software from software suppliers
— Provide useful practices on including quality considerations during software acquisition planning
— Provide useful practices on evaluating and qualifying supplier capabilities to meet user software requirements
— Provide useful practices on evaluating and qualifying supplier software
— Assist individuals or organizations judging the quality of supplier software for referral to end users
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