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**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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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

Contents

1. Overview	11
1.1 Scope	11
1.2 Purpose	12
2. Normative references.....	12
3. Definitions and terms	13
3.1 Definitions	13
3.2 Use of should, may, and can.....	13
4. Software acquisition alternatives.....	13
4.1 Introduction	13
4.2 Custom-developed software	14
4.3 Off-the-shelf (OTS) software.....	14
4.4 Software as a service (SaaS).....	15
5. Software acquisition process	18
5.1 Purpose	18
5.2 Eight steps in acquiring quality software.....	19
5.3 Step 1: Planning the software acquisition strategy	22
5.4 Step 2: Defining the acquisition and software requirements	24
5.5 Step 3: Identifying potential suppliers.....	26
5.6 Step 4: Preparing contract requirements.....	28
5.7 Step 5: Evaluating proposals and selecting the supplier.....	30
5.8 Step 6: Managing for supplier performance.....	32
5.9 Step 7: Accepting the software.....	33
5.10 Step 8: Evaluating the process and identifying improvement opportunities.....	34
6. Quality assurance for software acquisition.....	36
6.1 Objectives of quality assurance in software acquisition	36
6.2 Implementing quality assurance in software acquisition	36
Annex A (informative) Checklists for quality software acquisition processes.....	38
A.1 Checklist 1: Organizational strategy.....	39
A.2 Checklist 2: Define the software.....	40
A.3 Checklist 3: Supplier selection evaluation	42
A.4 Checklist 4: Supplier and acquirer obligations	44
A.5 Checklist 5: Quality and maintenance plans.....	45
A.6 Checklist 6: User survey.....	46
A.7 Checklist 7: Supplier performance standards.....	49
A.8 Checklist 8: Contract payments	50
A.9 Checklist 9: Monitor supplier progress.....	51
A.10 Checklist 10: Software evaluation	52
A.11 Checklist 11: Software testing	55
A.12 Checklist 12: Software acceptance	56
Annex B (informative) Software safety assurance and software information security assurance	57
B.1 Software safety assurance	57
B.2 Software information security assurance	58
Annex C (informative) Rights in technical data and software usage.....	61

Annex D (informative) Acquisition plan guidelines.....	62
D.1 (AP Section 1) Introduction.....	62
D.2 (AP Section 2) References.....	63
D.3 (AP Section 3) Definitions.....	63
D.4 (AP Section 4) Software acquisition overview.....	63
D.5 (AP Section 5) Software acquisition process.....	64
D.6 (AP Section 6) Software acquisition reporting requirements.....	64
D.7 (AP Section 7) Software acquisition management requirements.....	64
D.8 (AP Section 8) Software acquisition documentation requirements.....	65
Annex E (informative) Bibliography.....	66

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