
**Information technology — Open
Trusted Technology Provider™
Standard (O-TTPS) — Mitigating
maliciously tainted and counterfeit
products —**

**Part 1:
Requirements and recommendations**

*Technologies de l'information — Norme de fournisseur de technologie
de confiance ouverte (O-TTPS) — Atténuation des produits contrefaits
et malicieusement contaminés —*

Partie 1: Exigences et recommandations





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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by The Open Group and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

This first edition of ISO/IEC 20243-1 cancels and replaces ISO/IEC 20243:2015 of which it constitutes a minor revision to change the reference number from 20243 to 20243-1.

A list of all parts in the ISO 20243 series can be found on the ISO website.

Preface

The Open Group

The Open Group is a global consortium that enables the achievement of business objectives through IT standards. With more than 400 member organizations, The Open Group has a diverse membership that spans all sectors of the IT community – customers, systems and solutions suppliers, tool vendors, integrators, and consultants, as well as academics and researchers – to:

- Capture, understand, and address current and emerging requirements, and establish policies and share best practices
- Facilitate interoperability, develop consensus, and evolve and integrate specifications and open source technologies
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Readers should note that updates – in the form of Corrigenda – may apply to any publication. This information is published at www.opengroup.org/corrigenda.

This Document

The Open Group Trusted Technology Forum (OTTF or Forum) is a global initiative that invites industry, government, and other interested participants to work together to evolve this Standard and other OTTF deliverables.

This Standard is the Open Trusted Technology Provider Standard (O-TTPS). The Standard has been developed by the OTTF and approved by The Open Group, through The Open Group Company Review process. There are two distinct elements that should be understood with respect to this Standard: The O-TTPF (Framework) and the O-TTPS (Standard).

The O-TTPF (Framework): The Framework is an evolving compendium of organizational guidelines and best practices relating to the integrity of Commercial Off-the-Shelf (COTS) Information and Communication Technology (ICT) products and the security of the supply chain throughout the entire product life cycle. An early version of the Framework was published as a White Paper in February 2011 (see [Referenced Documents](#)). The Framework serves as the basis for this Standard, future updates, and additional standards. The content of the Framework is the result of industry collaboration and research as to those commonly used commercially reasonable practices that increase product integrity and supply chain security. The members of the OTTF will continue to collaborate with industry and governments and update the Framework as the threat landscape changes and industry practices evolve.

The O-TTPS (Standard): The O-TTPS is an open standard containing a set of guidelines that when properly adhered to have been shown to enhance the security of the global supply chain and the integrity of COTS ICT products. This part 1 of the Standard provides a set of guidelines, requirements, and recommendations that help assure against maliciously tainted and counterfeit products throughout the COTS ICT product life cycle encompassing the following phases: design, sourcing, build, fulfillment, distribution, sustainment, and disposal.

Part 2 of the O-TTPS Standard, Assessment Procedures for the O-TTPS and ISO/IEC 20243,, provides assessment procedures that may be used to demonstrate conformance with the requirements provided in Section 4 of this part of the Standard.

Using the guidelines documented in the Framework as a basis, the OTTF is taking a phased approach and staging O-TTPS releases over time. This staging will consist of standards that focus on mitigating specific COTS ICT risks from emerging threats. As threats change or market needs evolve, the OTTF intends to update the O-TTPS (Standard) by releasing addenda to address specific threats or market needs.

The Standard is aimed at enhancing the integrity of COTS ICT products and helping customers to manage sourcing risk. The authors of this Standard recognize the value that it can bring to governments and commercial customers worldwide, particularly those who adopt procurement and sourcing strategies that reward those vendors who follow the O-TTPS best practice requirements and recommendations.

Note: Any reference to “providers” is intended to refer to COTS ICT providers. The use of the word “component” is intended to refer to either hardware or software components.

Intended Audience

This Standard is intended for organizations interested in helping the industry evolve to meet the threats in the delivery of trustworthy COTS ICT products. It is intended to provide enough context and information on business drivers to enable its audience to understand the value in adopting the guidelines, requirements, and recommendations specified within. It also allows providers, suppliers, and integrators to begin planning how to implement the Standard in their organizations. Additionally, acquirers and customers can begin recommending the adoption of the Standard to their providers and integrators.

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Referenced Documents

The following documents are referenced in this Standard:

- 2007 Defense Science Board Task Force on Mission Impact of Foreign Influence on DoD Software, September 2007; findings and recommendations located at: www.acq.osd.mil/dsb/reports/ADA486949.pdf.
- Electronic Industry Citizenship Coalition (EICC) Code of Conduct; refer to: www.eicc.info.
- ISO/IEC 15408: Information Technology – Security Techniques – Evaluation Criteria for IT Security (Common Criteria).
- ISO/IEC 27000:2009: Information Technology – Security Techniques – Information Security Management Systems – Overview and Vocabulary.
- ISO/IEC Directives, Part 2: Rules for the Structure and Drafting of International Standards.
- NIST 800-12: An Introduction to Computer Security: The NIST Handbook.
- White Paper: Open Trusted Technology Provider Framework (O-TTPF), W113, published by The Open Group, February 2011; refer to: www.opengroup.org/bookstore/catalog/w113.htm.