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**Part 1:
Concepts and vocabulary**

Ingénierie des systèmes et du logiciel — Assurance des systèmes et du logiciel —

Partie 1: Concepts et vocabulaire

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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 ISO documents should be noted. This document was drafted in accordance with the rules given in the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information Technology*, Subcommittee SC 7, *Software and systems engineering*, in cooperation with the Systems and Software Engineering Standards Committee of the IEEE Computer Society, under the Partner Standards Development Organization cooperation agreement between ISO and IEEE.

This first edition cancels and replaces ISO/IEC 15026-1:2013, which has been technically revised.

The main changes compared to the previous edition are as follows:

- definitions of terms introduced in ISO/IEC 15026-3:2015 are added;
- definitions of terms whose definitions are modified in ISO/IEC 15026-3:2015 are updated.

A list of all parts in the ISO/IEC/IEEE 15026 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Software and systems assurance and closely related fields share concepts but have different vocabularies and perspectives. This document provides a unifying set of underlying concepts and an unambiguous use of terminology across these various fields. It provides a basis for elaboration, discussion and recording agreement and rationale regarding concepts and the vocabulary used uniformly across ISO/IEC/IEEE 15026 (all parts).

This document clarifies concepts needed for understanding software and systems assurance and, in particular, those central to the use of ISO/IEC 15026-2, ISO/IEC 15026-3 and ISO/IEC 15026-4. It supports shared concepts, issues and terminology applicable across a range of properties, application domains and technologies.

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