BS ISO/IEC 15026-2:2011

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Systems and software engineering — Systems and software assurance

Part 2: Assurance case

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National foreword

This British Standard is the UK implementation of ISO/IEC 15026-2:2011.

The UK participation in its preparation was entrusted to Technical Committee IST/15, Software and systems engineering.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Part 2: Assurance case

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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 15026-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

ISO/IEC 15026 consists of the following parts, under the general title *Systems and software engineering — Systems and software assurance*:

— *Part 1: Concepts and vocabulary* [Technical Report]

— *Part 2: Assurance case*

System integrity levels and assurance in the life cycle will form the subjects of future parts.

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Introduction

The purpose of this part of ISO/IEC 15026 is to ensure the existence of types of assurance case content and restrictions on assurance case structure, thereby improving consistency and comparability among instances of assurance cases and facilitating stakeholder communications, engineering decisions, and other uses of assurance cases.

Existing standards addressing different application areas and topics related to assurance cases might use differing terminology and concepts when addressing common themes. This part of ISO/IEC 15026 is based on experience drawn from these many specialized standards and guidelines. It is applicable to any property of a system or product.

NOTE It is intended that ISO/IEC TR 15026-1 will be transformed into an International Standard.

In addition to concepts and terminology, ISO/IEC TR 15026-1 provides background and a list of related standards that could be useful in understanding and using this part of ISO/IEC 15026. Assurance cases are generally developed to support claims in areas such as safety, reliability, maintainability, human factors, operability, and security, although these assurance cases are often called by more specific names, e.g. safety case or reliability and maintainability (R&M) case.

This part of ISO/IEC 15026 uses the terminology and concepts consistent with ISO/IEC 12207:2008, ISO/IEC 15288:2008, and ISO/IEC 15289:2006. This part of ISO/IEC 15026 does not presume or require that it is applied in conjunction with ISO/IEC 12207:2008 or ISO/IEC 15288:2008.

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