INTERNATIONAL STANDARD

ISO/IEC 11411

First edition
1995-04-01

Information technology — Representation for human communication of state transition of software

Technologies de l'information — Représentation pour un utilisateur final des états de transition des logiciels

Contents

page

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. 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.

International Standard ISO/IEC 11411 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software engineering*.

Annexes A to D of this International Standard are for information only.

Introduction

Software in some fields can be represented by state transition diagrams and tables. The software changes its states through transitions. When a certain condition arises, the corresponding transition from state to state is performed. Conditions are brought about by input of data. The data may take various forms, e.g.:

- signals,
- commands,
- messages,
- tokens, flags,
- characters, words,
- records, etc.

This International Standard describes minimum set of concepts and symbols for human communication of state transition of software.

This International Standard
a) defines the nature of state transitions of software;
b) defines the notation of state transition elements;
c) specifies a set of state transition elements.

Information technology - Representation for human communication of state transition of software

1 Scope

The underlying concept of this International Standard is that diagrams and symbols defined herein can be helpful in representing software functions and transitions and in improving human communication. The areas covered by this International Standard are development, communication and review of software requirement analysis and design.

This International Standard is effective in the following fields of software.
Interactive software
    ----To describe the representation of functions and
        transitions on screens.
Data communication software
    ----To describe communication protocols and
        corresponding actions.
Language/command
    ----To describe the syntax.