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# INTERNATIONAL STANDARD

# ISO/IEC 14750

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## Information technology — Open Distributed Processing — Interface Definition Language

*Technologies de l'information — Traitement distribué ouvert — Langage de  
définition d'interface*



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## Contents

|  | <i>Page</i> |
|--|-------------|
| 1 Scope .....  | 1           |
| 2 Normative references.....                                  | 1           |
| 2.1 Identical Recommendations   International Standards..... | 1           |
| 3 Definitions .....  | 1           |
| 4 ODP IDL syntax and semantics.....                          | 1           |
| 4.1 Lexical conventions.....                                 | 2           |
| 4.2 Preprocessing .....                                      | 7           |
| 4.3 ODP IDL grammar .....                                    | 8           |
| 4.4 ODP IDL specification.....                               | 12          |
| 4.5 Inheritance.....   | 13          |
| 4.6 Constant declaration.....                                | 15          |
| 4.7 Type declaration .....                                   | 17          |
| 4.8 Typecodes and Principals.....                            | 22          |
| 4.9 Exception declaration.....                               | 22          |
| 4.10 Operation declaration .....                             | 23          |
| 4.11 Attribute declaration.....                              | 25          |
| 4.12 CORBA module .....                                      | 25          |
| 4.13 Names and scoping.....                                  | 25          |
| 4.14 Differences from C++ .....                              | 27          |
| Annex A – Reserved standard exceptions .....                 | 28          |
| A.1 Object Non-Existence .....                               | 29          |
| A.2 Transaction exceptions.....                              | 29          |
| Annex B – Typecode encoding in the CORBA specification.....  | 30          |

## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 14750 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 33, *Distributed application services*, in collaboration with ITU-T. The identical text is published as ITU-T Recommendation X.920.

Annex A forms a normative part of this International Standard. Annex B is for information only.

## Introduction

The rapid growth of distributed processing has led to a need for a coordinating framework for the standardization of Open Distributed Processing (ODP). The Reference Model of Open Distributed Processing (RM-ODP) provides such a framework. It defines an architecture within which support of distribution, interoperability and portability can be integrated.

One of the components of the architecture (described in RM-ODP Part 3: Architecture) (see ITU-T Rec. X.903 | ISO/IEC 10746-3) is a language that is suitable for describing the signature of computational operation interfaces. This Recommendation | International Standard contains such an Interface Definition Language, called ODP-IDL.

NOTE – This Recommendation | International Standard is technically aligned with the CORBA Interface Definition Language specification.

Annex A is normative and provides a standard set of exceptions for a particular ODP distribution infrastructure.

Annex B is informative and provides the CORBA encoding of a type called TypeCode representing type descriptions.

**INTERNATIONAL STANDARD****ITU-T RECOMMENDATION****INFORMATION TECHNOLOGY – OPEN DISTRIBUTED PROCESSING –  
INTERFACE DEFINITION LANGUAGE****1 Scope**

This Recommendation | International Standard is intended to provide the ODP Reference Model (see ITU-T Rec. X.902 | ISO/IEC 10746-2 and ITU-T Rec. X.903 | ISO/IEC 10746-3) with a language and environment neutral notation to describe computational operation interface signatures. Use of this notation does not imply use of specific supporting mechanisms and protocols.

**2 Normative references**

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

**2.1 Identical Recommendations | International Standards**

- ITU-T Recommendation X.902 (1995) | ISO/IEC 10746-2:1996, *Information technology – Open distributed processing – Reference Model: Foundations.*
- ITU-T Recommendation X.903 (1995) | ISO/IEC 10746-3:1996, *Information technology – Open distributed processing – Reference Model: Architecture.*

**2.2 Additional references**

- ISO/IEC 646:1991, *Information technology – ISO 7-bit coded character set for information interchange.*
- ISO/IEC 8859-1:1998, *Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1.*