INTERNATIONAL STANDARD

ISO/IEC 9066-2

Information processing systems — Text communication — Reliable Transfer —

Part 2 :
Protocol specification

Systèmes de traitement de l'information — Communication de texte — Transfert fiable —

Partie 2 : Spécification du protocole

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) together form a system for worldwide standardization as a whole. 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 approval before their acceptance as International Standards. They are approved in accordance with procedures requiring at least 75 % approval by the national bodies voting.

International Standard ISO/IEC 9066-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology.*

Introduction

This part of ISO/IEC 9066 specifies the protocol for the services provided by an application-service-element - the Reliable Transfer Service Element (RTSE) - to provide for the Reliable Transfer of application protocol data units (APDUs) between open systems. This part of ISO/IEC 9066 is one of a set of International Standards specifying the protocols for sets of application-service-elements commonly used by a number of applications.

Reliable Transfer provides an application-independent mechanism to recover from communication and end-system failure minimizing the amount of retransmission.

This part of ISO/IEC 9066 is technically aligned with CCITT Recommendation X.228.

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1   Scope

This part of ISO/IEC 9066 specifies the protocol (abstract syntax) and procedures for the Reliable Transfer Service Element services (ISO/IEC 9066-1). The RTSE services are provided in conjunction with the Association Control Service Element (ACSE) services (ISO 8649) and the ACSE protocol (ISO 8650), and the presentation-service (ISO 8822).

The RTSE procedures are defined in terms of

    a) the interactions between peer RTSE protocol machines through the use of ACSE and the presentation-service;

    b) the interactions between the RTSE protocol machine and its service-user.

This part of ISO/IEC 9066 specifies conformance requirements for systems implementing these procedures.

2   Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9066. At the time of publication, the editions were valid. All Standards are subject to revision, and parties to agreement based on this part of ISO/IEC 9066 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of ISO and IEC maintain Registers of currently valid International Standards.

ISO 7498: 1984, *Information processing systems - Open Systems Interconnection - Basic Reference Model.*

ISO/TR 8509: 1987, *Information processing systems - Open Systems Interconnection - Service Conventions.*

ISO 8649: 1988, *Information processing systems - Open Systems Interconnection - Service definition for the Association Control Service Element.*

ISO 8650: 1988, *Information processing systems - Open Systems Interconnection - Protocol specification for the Association Control Service Element.*

ISO 8822: 1988, *Information processing systems - Open Systems Interconnection - Connection oriented presentation service definition.*

ISO 8824: 1987, *Information processing systems - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1).*

ISO 8825: 1987, *Information processing systems - Open Systems Interconnection - Specification of basic encoding rules for Abstract Syntax Notation One (ASN.1).*

ISO/IEC 9066-1: 1989, *Information processing systems - Text communication - Reliable Transfer - Part 1: Model and service definition.*

ISO/IEC 9072-1: 1989, *Information processing systems - Text Communication - Remote Operations - Part 1: Model, notation and service definition.*