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Information technology — Open Systems Interconnection — Procedures for the operation of OSI Registration Authorities —

Part 5: Register of VT Control Object Definitions

*Technologies de l'information — Interconnexion de systèmes ouverts —
Procédures pour des organismes d'enregistrement OSI particuliers —
Partie 5: Enregistrement des objets de contrôle VT*



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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. 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 9834-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ISO/IEC 9834 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — Procedures for the operation of OSI Registration Authorities*:

- *Part 1: General procedures*
- *Part 2: Registration procedures for OSI document types*
- *Part 3: Registration of object identifier component values for joint ISO-CCITT use*
- *Part 4: Register of VTE Profiles*
- *Part 5: Register of VT Control Object Definitions*
- *Part 6: Registration of AP titles and AE titles*

Annex A forms an integral part of this part of ISO/IEC 9834. Annex B is for information only.

Introduction

The Open Systems Interconnection (OSI) Standards for Basic Class Virtual Terminals (VT), ISO 9040 and ISO 9041-1, have a requirement for

- a) unambiguous names for the identification and definition of registered VT Control Objects; and
- b) a register of VT Control Object type definitions.

This part of ISO/IEC 9834 specifies the procedures to be followed in preparing and maintaining a register of VTE COs and their names. Such registers can be maintained by any organisation capable of allocating ASN.1 object identifier values. This part of ISO/IEC 9834 also specifies the procedures for preparing and maintaining the International Register.

Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities –

Part 5 : Register of VT Control Object Definitions

1 Scope

This part of ISO/IEC 9834 specifies the contents of register entries recording information about VT control object Definitions and assigning unambiguous names of ASN.1 type OBJECT IDENTIFIER to VT CO Definitions. The VT COs specified in this register are defined for use with implementations of VT protocols claiming to conform to ISO 9041-1.

The VTE CO names to which this document refers are for use in fields of the VT communication protocol defined in ISO 9041-1 which need to identify the VT CO definitions defined in the register entries.

A name registered in accordance with this part of ISO/IEC 9834 shall serve as an identification of the VT CO definition associated with it in the register.

The presence of a register entry in the International Register carries no implications of required support for that VT CO definition in any Virtual Terminal implementation.

NOTE – Nonetheless, within a VT CO definition entry, requirements may be expressed relating to implementations claiming to support the entry.

The requirement for registration for the following CO classification has been identified in ISO 9040:

- Field Entry Instruction COs (FEICOs)
- Field Entry Pilot COs (FEPCOs)
- Reference Information Objects (RIOs)
- Termination Conditions COs (TCCOs)

In addition there is a requirement for the registration of miscellaneous COs. Future VT standards may identify registration requirements for new CO classifications.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9834. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 9834 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards

ISO/IEC 8824 : 1990, *Information technology – Open Systems Interconnection – Specification of Abstract Syntax Notation One (ASN.1)*.

ISO 9040 : 1990, *Information technology – Open Systems Interconnection – Virtual Terminal Basic Class Service*.

ISO 9041-1 : 1990, *Information technology – Open Systems Interconnection – Virtual Terminal Basic Class Protocol – Part 1: Specification*

ISO/IEC 9834-1 : 1991, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities – Part 1: General procedures*.

3 Definitions

For the purposes of this part of ISO/IEC 9834, the following terms are used which are defined in ISO 9040.

- a) VT-association
- b) VTE-parameter
- c) service parameter
- d) display object
- e) control object
- f) device object
- g) Field
- h) Field Definition Control Object
- i) Field Definition Record
- j) Field Entry Instruction Control Object
- k) Field Entry Instruction Record
- l) Field Entry Instruction
- m) Field Entry Pilot Control Object
- n) Field Entry Pilot Record
- o) Context Control Object
- p) Reference Information Object
- q) Termination Condition Control Object
- r) Field Entry Event
- s) Field Entry Condition
- t) Field Entry Reaction

4 Abbreviations

For the purposes of this part of ISO/IEC 9834, the following abbreviations apply.

VT	Virtual Terminal
VTE	Virtual Terminal Environment
ISO	International Organisation for Standardisation
OSI	Open Systems Interconnection
ASN.1	Abstract Syntax Notation One
CO	Control Object
FDCO	Field Definition Control Object
FDR	Field Definition Record
FEICO	Field Entry Instruction Control Object
FEIR	Field Entry Instruction Record
FEI	Field Entry Instruction
FEPCO	Field Entry Pilot Control Object
FEPR	Field Entry Pilot Record
FEE	Field Entry Event
FEC	Field Entry Condition
FER	Field Entry Reaction
CCO	Context Control Object
RIO	Reference Information Object
TCCO	Termination Conditions Control Object

5 Subcommittee

The Responsible subcommittee shall be ISO/IEC JTC1/SC 21.

6 Role of Registration Authority

The Registration Authority performs a technical role in ensuring that entries conform to this part of ISO/IEC 9834 and represent useful and clear specifications.

7 Contents of Register Entries

The contents of Register Entries is specified in annex A.

8 Format of Register Entries

Register Entry proposals shall be in the form specified in annex A.

9 Part 1 applicability

All clauses of ISO/IEC 9834-1 shall apply.

10 Activity

The volume of activity is not expected to exceed 20 registrations per year.

11 Change

Inclusion or modification or deletion of register entries in the International Register shall require the same consensus of ISO Member Bodies, and shall follow similar procedures, to that used for the agreement of an International Standard, except that final approval by ISO/IEC Councils is not required.

12 Availability

Register Entries shall be made available to any requestor by the Registration Authority.

13 Sub-registers

The International Register shall consist a number of sub-registers each of which corresponds to a major classification of VT Control Object. These are

- Miscellaneous COs;
- FEICOs;
- FEPCOs;
- RIOs;
- TCCOs.

New control object types may be defined in future amendments to ISO 9040 or in future VT standards. The registration requirements for these CO types shall be specified in those standards so that this part of ISO/IEC 9834 need not be updated.