

Information technology — CDIF transfer format —

Part 3: Encoding ENCODING.1

ICS 35.080

National foreword

This British Standard reproduces verbatim ISO/IEC 15475-3:2002 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee IST/15, Software engineering, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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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Information technology — CDIF transfer format —

Part 3: Encoding **ENCODING.1**

Technologies de l'information — Format de transfert CDIF —

*Partie 3: Codage **ENCODING.1***



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Contents

1	Scope	1
2	Conformance	2
3	Normative references	2
4	Terms and definitions	3
4.1	From other standards.....	3
4.1.1	ISO/IEC 15474-1	3
4.1.2	ISO/IEC 15475-1	4
4.1.3	ISO/IEC 13238-1	4
4.2	For this standard	4
5	Symbols (and abbreviated terms).....	4
5.1	Naming and diagramming notations	4
5.2	BNF conventions	4
5.3	Abbreviations	5
6	CDIF transfer concepts and facilities	5
6.1	Encoding identifier	5
6.2	Clear text.....	5
6.3	Character sets	5
7	Encoding structures and keywords in the CDIF transfer.....	6
7.1	Introduction	6
7.2	Encoding structures.....	6
7.2.1	Decimal integer value.....	6
7.2.2	Binary value.....	6
7.2.3	Octal value	6
7.2.4	Hexadecimal value	7
7.2.5	Float value	7
7.2.6	Date	7
7.2.7	Time	8
7.2.8	Identifier value	8
7.2.9	Enumerated value.....	9
7.2.10	String.....	9
7.2.11	Text string.....	9
7.2.12	Comment.....	11
7.2.13	Meta-meta-object name	12
7.2.14	Meta-object name	12
7.2.15	Identifier.....	12
7.2.16	Multibyte identifier.....	13
7.3	Keywords.....	13
Annex A (normative)	ENCODING.1 formal grammar	14
Annex B (informative)	Multibyte examples	19
B.1	Example of 7.2.9 Enumerated value	19
B.2	Example of 7.2.10 String	19
B.3	Example of 7.2.11 Text string.....	19
B.4	Example of 7.2.12 Comment	20
B.5	Example of 7.2.16 Multibyte identifier.....	20

Table of Illustrations

Figure 1 – Position in the CDIF family of standards 1

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 3.

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 part of ISO/IEC 15475 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 15475-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and system engineering*.

ISO/IEC 15475 consists of the following parts, under the general title *Information technology — CDIF transfer format* :

- *Part 1: General rules for syntaxes and encodings*
- *Part 2: Syntax SYNTAX.1*
- *Part 3: Encoding ENCODING.1*

Annex A forms a normative part of this part of ISO/IEC 15475. Annex B is for information only.

Introduction

This standard will assist the vendors and users of modelling tools and metadata repositories in developing mechanisms for interchanging information. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between tools.

ISO/IEC 15474-1:2002, *Information technology — CDIF framework — Part 1: Overview* and ISO/IEC 15474-2:2002, *Information technology — CDIF framework — Part 2: Modelling and extensibility* should be read first when initially exploring CDIF. The first explains the overall CDIF Architecture and how the family of standards fits together. The second explains the scope, and modelling approach in CDIF. The CDIF meta-metamodel and extensibility mechanisms are also defined in that document.

This standard defines an encoding of SYNTAX.1. ISO/IEC 15475-1:2002, *Information technology — CDIF transfer format — Part 1: General rules for syntaxes and encodings* describes how CDIF supports multiple syntaxes and encodings. ISO/IEC 15475-2:2002, *Information technology — CDIF transfer format — Part 2: Syntax SYNTAX.1* defines the initial CDIF transfer format syntax, SYNTAX.1.

This standard has been developed with the wide support and participation of vendors, users, academia and government involved in or familiar with the CASE industry, its products and the general requirements associated with interchanging information between these products.

This document is organized into the following Clauses:

— Clause 6: Concepts and facilities

This specifies the unique identifier for the encoding defined in this document and describes the concepts of clear text and character sets used in this document.

— Clause 7: Encoding structures and keywords in the CDIF transfer

This Clause describes and gives examples of the format of transfer syntax terminals and lists the encodings of keywords.

— Annex A (normative): ENCODING.1 formal grammar

This annex defines the encoding rules for all non-terminals in the encoding.

— Annex B (informative): Multibyte examples

Supplementary Examples using multibyte codeset encoding are provided.

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1 Scope

The CDIF family of standards is primarily designed to be used as a description of a mechanism for transferring information between modelling tools. It facilitates a successful transfer when the authors of the importing and exporting tools have nothing in common except an agreement to conform to CDIF. The language that is defined for the transfer format also has applicability as a general language for Import/Export from repositories. The CDIF semantic metamodel defined for modelling tools also has applicability as the basis of standard definitions for use in repositories.

The standards, which form the complete family of CDIF Standards, are documented in ISO/IEC 15474-1:2002, *Information technology — CDIF framework — Part 1: Overview*. These standards cover the overall framework, the transfer format and the CDIF semantic metamodel.

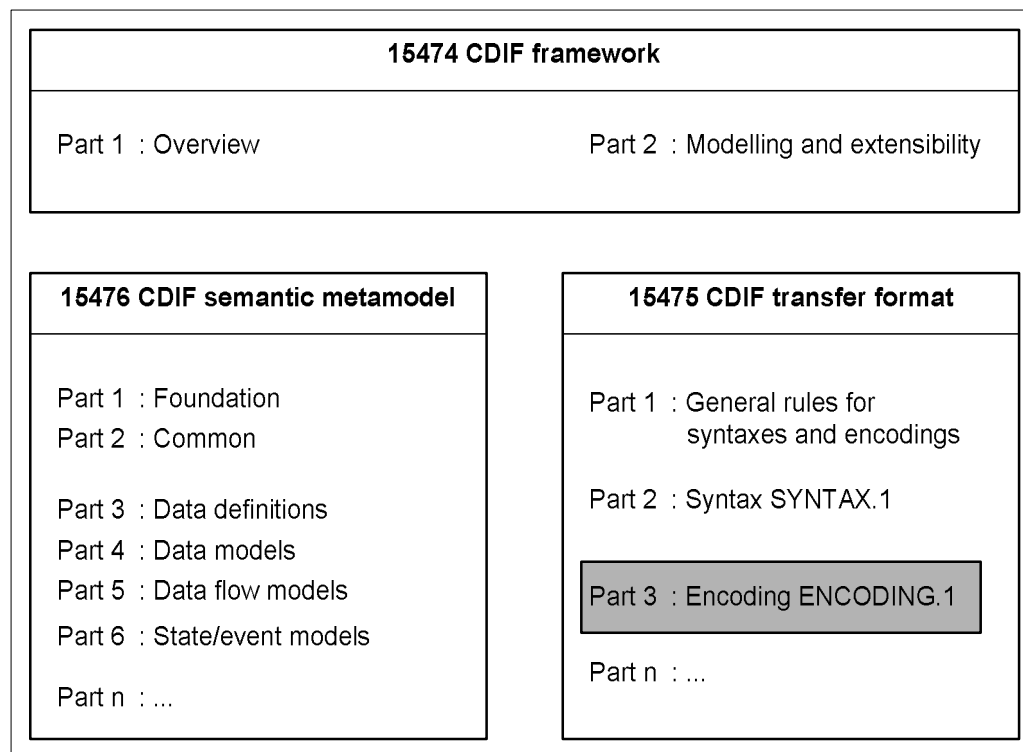


Figure 1 – Position in the CDIF family of standards

The diagram in Figure 1 depicts the various standards that comprise the CDIF family of standards. The shaded box depicts this Standard and its position in the CDIF family of standards.