
S-57 Appendix B.2
IHO Object Catalogue Data Dictionary Product Specification

This document must only be used with Edition 3.1
of S-57

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1. Introduction

1.1 General

The Data Dictionary Product Specification is a set set of rules that must be followed in the encoding of a data dictionary exchange set based on the IHO Object Catalogue (Appendix B of S-57).

1.2 Contents of the document

The Data Dictionary Product Specification contains an application profile that defines the records, fields and subfields that are to be used in the transfer of the information contained in the Object Catalogue (Appendix B of S-57).

2. Provision of data

2.1 Content of an exchange set

A data dictionary exchange set consists of one file containing data dictionary records. An optional README.TXT file may be provided. There may not be any other files associated with a data dictionary exchange set.

2.2 Implementation

Only ASCII text may be used in the exchange set.

2.3 Compression

The Data Dictionary file may be compressed using any appropriate compression algorithm. Use of such algorithms must be described in the README.TXT file which must not be compressed.

2.4 File naming

The data dictionary file must be named IHOOCDD.XXX where:

IHOOCDD is the mandatory file name

XXX is used to indicate the edition number of the Object Catalogue used for this exchange set; i.e. 031 for this edition (3.1)

README.TXT is the mandatory name of the optional text information file.

2.5 Media

Data may be provided via telecommunications links or any physical media.

3 Updating

The content of a data dictionary exchange set can only be updated by direct replacement. Therefore, changes to any information within the exchange set require that a complete new exchange set is generated.

4 Application profile

4.1 General

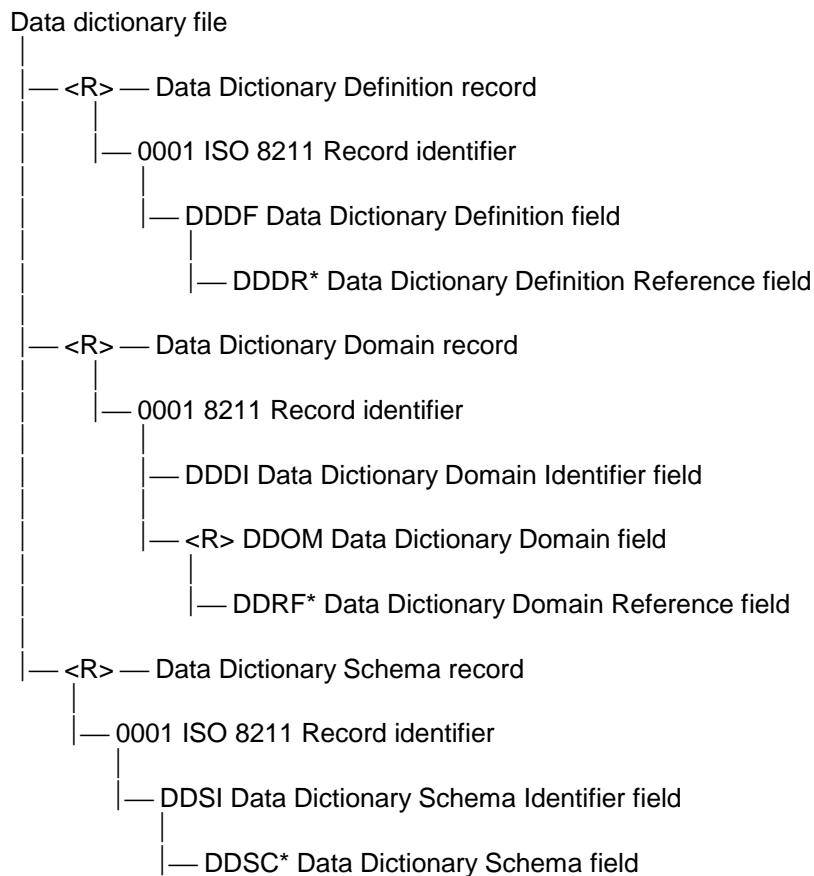
The application profile defines the structure and content of the data dictionary file.

4.2 File structure

Only records and fields that are defined in the following tree structure diagrams may be used in the data dictionary file.

The order of records within the data dictionary file must be the same as that shown in the following tree structure diagrams (i.e. all Data Dictionary Definition records before any Data Dictionary Domain records etc.).

In the tables following the tree structure diagrams mandatory subfields are shown by "M" in the "use" column. If there is nothing in this column it means the use of the subfield is optional. Where a value is prescribed it is shown in the "value" column. "OC" in the comment column is used to indicate the Object Catalogue (Appendix B of S-57).



4.2.1 Field content

4.2.1.1 Data Dictionary Definition field - DDDF

tag	subfield name	use	value	comment
RCNM	Record name	M	ID	
RCID	Record identification number	M		
OORA	Object or attribute	M	O A	for object for attribute
OAAC	Object or attribute acronym	M		acronym from the OC
OACO	Object or attribute label/code	M		numeric code from the OC
OALL	Object or attribute long label	M		long label from the OC
OATY	Type of object or attribute	M	M \$ G C F N S	Meta object Cartographic object Geo object Collection object Feature attribute Feature national attribute Spatial attribute
DEFN	Definition	M		definition from the OC
AUTH	Authorizing agency	M		from Annex A of the OC
COMT	Comment			

4.2.1.2 Data Dictionary Definition Reference field

tag	subfield name	use	value	comment
RFTP	Reference type			from the OC
RFVL	Reference value			from the OC

4.2.1.3 Data Dictionary Domain Identifier field

tag	subfield name	use	value	comment
RCNM	Record name	M	IO	
RCID	Record identification number	M		
ATLB	Attribute label/code	M		numeric code from the OC
ATDO	Attribute domain type	M	E L F I A S	Enumerated List Float Integer Coded string Free text format
ADMU	Attribute domain value measurement units			for float and integer attributes
ADFT	Attribute domain format			
AUTH	Authorizing agency	M		from Annex A of the OC
COMT	Comment			

4.2.1.4 Data Dictionary Domain field

tag	subfield name	use	value	comment
RAVA	Range or value	M	M N V	DVAL contains the maximum value DVAL contains the minimum value DVAL contains a specific value
DVAL	Domain value	M		attribute value from the OC
DVSD	Domain value short description	M		attribute value description from the OC
DEFN	Domain value definition	M		attribute value definition from the OC
AUTH	Authorizing agency	M		from Annex A of the OC

4.2.1.5 Data Dictionary Domain Reference field

tag	subfield name	use	value	comment
RFTP	Reference type			
RFVL	Reference value			

4.2.1.6 Data Dictionary Schema Identifier field

tag	subfield name	use	value	comment
RCNM	Record name	M	IS	
RCID	Record identification number	M		
OBLB	Object label/code	M		numeric code from the OC

4.2.1.7 Data Dictionary Schema field

tag	subfield name	use	value	comment
ATLB	Attribute label/code	M		numeric code from the OC
ASET	Attribute set	M	A B C	attribute set A attribute set B attribute set C
AUTH	Authorizing agency	M		from Annex A of the OC