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HJ

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

HJ 720-2017

Replacing HJ 720-2014

Metadata specification for environment information

环境信息元数据规范

(English Translation)

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Foreword

In order to carry out the "Law of the People's Republic of China on Environmental Protection", promote environmental information work, and ensure the interconnection and sharing of environmental information, Fan environmental information and metadata standards, the development of this standard.

This standard specifies the environmental information metadata standard framework for object classes, characteristics, classification schemes, range, concept of data elements, data elements, Dataset specifications, terms, indicators, data sets, quality claims a total of 11 items of metadata management has been standardized.

This standard was first released in 2014, this time for the first time.

The main content of this revision.

- Management objects are expanded from datasets to object classes, features, classification schemes, ranges, concepts of data elements, data elements, dataset specifications, Terminology, indicators, data sets, quality statement a total of 11 management items;
- adjusted metadata attributes of the data set;
- Adjusted appendix content.

This standard Appendix A normative appendix, Appendix B is an informative annex.

This standard is formulated by the General Office of the Ministry of Environmental Protection and the Scientific and Technical Standards Department.

1 Scope of application

This standard specifies the environmental information metadata standard framework for object classes, characteristics, classification schemes, range, concept of data elements,

data elements, Dataset specifications, terms, indicators, data sets, quality claims a total of 11 items of metadata management has been standardized.

This standard applies to the management of environmental information metadata standards, environmental information resources directory construction, the development of national minimum data set, data Meta-dictionary preparation and environmental information metadata registration system design and development.

2 Normative references

This standard references the following documents in the terms. For undated references, valid versions (including amendments) apply to this standard quasi.

GB/T 2260 People's Republic of China administrative divisions code GB/T 7408 data elements and exchange format information exchange date and time notation HJ/T 417 Environmental Information Classification and Codes

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Environmental information environmental information

Environmental management, environmental science, environmental technology, environmental protection industry and other environmental protection-related data, instructions and signals, etc., and its Related dynamic changes of information, including text, numbers, symbols, graphics, images, video and sound and other expressions.

[HJ/T 416-2007, terms and definitions 3.1]

3.2 Data data

A formal, re-interpretable representation of information that is suitable for communication, interpretation, or processing.

[GB/T 5271.1-2000, Definition 01.01.02]

3.3 Data element data element

A unit of data specifying the definition, identification, representation, and tolerance of a set of attributes.

[GB/T 18391.1-2009, terms and definitions 3.3.8]

3.4 Metadata

Data that defines and describes other data.

[GB/T 18391.1-2009, terms and definitions 3.2.16]

3.5 Concept

Knowledge unit through a unique combination of features.

[GB/T 15237.1-2000, definition 3.2.1]

3.6 Definition

Describe a concept, and different from other related concepts of the statement.

[GB/T 15237.1-2000, Definition 3.3.1]

3.7 Metadata object metadata object

An object type defined by the metadata standards framework is an object that needs to be included in metadata specification management. This standard includes the object class, Characteristics, classification scheme, range, data element concept, data element, data set, data set specification, indicator, data quality statement, term common 11 metadata objects.

[GB/T 18391.1-2009, terminology 3.2.18 The definition of a metadata object is "an object type defined by a metamodel," in order to for ease of understanding, the meta-model is modified to the metadata standard framework in this standard and further explained.]

3.8 Object class object class

Its boundaries and meanings can be clearly identified, and concepts and abstractions that follow the same rules as the nature and behavior of the real world Collection of business.

[GB/T 18391.1-2009, terms and definitions 3.3.22]

3.9 Properties property

Common to all members of an object class.

[GB/T 18391.1-2009, terms and definitions 3.3.29] 3.10 for representation the range of data elements, the combination of data types, including, if necessary, the unit of measure or character set.

[GB/T 18391.1-2002, terms and definitions 3.60]

3.11 Representation class representation class

Represents the type of classification.

[GB/T 18391.1-2009, terms and definitions 3.3.35]

3.12 Classification scheme classification scheme

Descriptive information that arranges or groups objects based on their common characteristics.

[GB/T 18391.1-2009, terms and definitions 3.3.4]

3.13 Value

The value of the data.

[GB/T 18391.1-2009, terms and definitions 3.3.37]

3.14 Allowed values permissible value

The expression of the meaning of a value allowed in a particular value range.

[GB/T 18391.1-2009, terms and definitions 3.3.28]

3.15 Value domain value domain

A collection of allowed values.

[GB/T 18391.1-2009, terms and definitions 3.3.38]

3.16 Value Meaning value meaning

The meaning of a value or semantic content.

[GB/T 18391.1-2009, terms and definitions 3.3.39]

3.17 Unit of measure

Actual unit for measuring related values.

[GB/T 18391.1-2009, terms and definitions 3.3.36]

3.18 Data element concept data element concept

The concept that can be expressed in the form of data elements, the description of which is independent of any particular notation.

[GB/T 18391.1-2009, terms and definitions 3.3.9]