

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Specification for environmental information data dictionary

环境信息数据字典规范

(English Translation)

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Foreword

For the implementation of the "People's Republic of China Environmental Protection Law" to promote environmental information work, standardize the environmental information database Data dictionary design and environmental information database construction, the development of this standard.

This standard specifies the environmental information data dictionary content composition, attributes and preparation requirements and so on.

This standard is the first release.

Appendix A to this standard is a normative appendix, Appendix B, Appendix C is an informative appendix.

This standard is organized by the Ministry of Environmental Protection Science and Technology Standards Division.

The main drafting of this standard. Environmental Information Department of the Ministry of Environmental Protection, Beijing Environmental Information Center.

The Environmental Protection Department of this standard approved on December 25, 2014.

This standard is implemented on March 1, 2015.

This standard is explained by the Ministry of Environmental Protection.

1 Scope of application

This standard specifies the content and attribute requirements of the environmental information data dictionary and provides common dictionary styles and environmental letters Data table.

This standard applies to all levels of environmental protection department environmental information database data dictionary design, and can be used as environmental letter Information database system design acceptance of the reference.

2 Normative reference documents

The contents of this standard refer to the following documents or their terms. Those who do not specify the date of the reference file, the effective version of the appropriate for this standard.

3 Terms and definitions

The following terms and definitions apply to this standard.

Environmental information data dictionary environmental information data dictionary the information system of the environment information database is a collection of information that records the composition and format of the database. surroundings the information data dictionary belongs to the category of environmental information metadata, which consists of entity and data element.

4.1 Environmental information Data dictionary content

Environment information data dictionary content reference HJ/T 419, by the data dictionary management information, data table information, view information, Stored procedure information, user function information, user-defined data type information, data item (field) information, and so on.

4.2 Environmental Information Data Dictionary Management Information Entity

By the data dictionary name, version, data dictionary author, data dictionary write date, data dictionary status, data Dictionary audit unit, data dictionary reviewer, audit date and other data elements.

4.3 Environmental Information Data Table Entity

By the data table name, Chinese name, description, regulatory agencies, contacts, contact telephone, contact Email, contact address and the zeros, update units, update date, record number, capacity (MB), trigger description, index description and other data elements.

4.4 View information entity

It consists of data elements such as view name, Chinese name, description, script, update unit, update person, update date and so on.

4.5 Stored procedure information entity

By the stored procedure name, Chinese name, description, script, input parameter description, output parameter description, update unit, Update person, update date and other data elements.

4.6 User function information entity

By the function name, Chinese name, description, script, input parameter description, output parameter description, update unit, update Person, update date and other data elements.

4.7 User-defined data type information entity

It consists of user-defined data type name, Chinese name, system data type, description, length and other data elements.

4.8 Data item (field) information entity

By the field name, Chinese name, data type, length, precision, unit of measurement, the value range, whether it can be empty, Whether the primary key, whether the foreign key, foreign key table name, default, notes and other data elements.

4.9 Other information entities

Including data dictionary information for other data entities that are not listed above.

5.1 Data dictionary content attributes

Environment Information Data Dictionary The content attribute consists of name, domain name, whether it is required, maximum number of occurrences, data type, Range of values.

5.1.1 Name

A token assigned to an entity or data element. The entity name is unique in the environmental information data dictionary, the data element name in the entity is unique, and in the environmental information data dictionary can not be unique.

5.1.2 Domain name

The abbreviation of the name is usually expressed in English or Chinese phonetic alphabet.

5.1.3 is required

Indicating whether the data element should always be selected, or sometimes selected (ie, have values). The descriptor can have the following values. yes (must Optional) or NULL (optional).

5.1.4 Maximum number of occurrences

Specifies the maximum number of instances the data element can have. Only once with "1" said. Repeat the "N" table Show. The number of fixed occurrences of 1 can be expressed by the corresponding numbers, such as "2", "3", "4". Does not appear with "0" or "NULL" means.

5.1.5 Data type

Describe the data types of data dictionary entities and data elements, such as integers, real types, strings, and so on. Basic data type see

Table 1.

Table 1 List of basic data types

Data type description an entity represents a compound element that can consist of an element or entity.

Text/character (string) Free text, indicating that there is no restriction on the contents of the data item (field).

A type of value expressed by a number Date The type of value that is expressed in the form of YYYYMMDD Date datetime The type of value expressed in the form of YYYYMMDDhhmmss Boolean (boolean) two and only two values that indicate the condition, such as True or False. (1 or 0) Binary (binary) through the binary format to store objects, such as pictures, audio, video and so on

5.1.6 Range of values

Describe the allowable range of data elements. If the range is "free text", there is no restriction on the contents of the data element.

5.2 Data dictionary management information

Environmental information data dictionary management information attributes and fill requirements, see Table 2.