

HJ

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Technical specification for data exchange of environmental information

环境信息交换技术规范

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031 Data is ambiguous operation of the data ambiguity	

032 Data format Incorrect data format does not match target type

040 Permission Overrun exceeds the assigned permission range

050 Database error database system error

Foreword

To implement the "People's Republic of China Environmental Protection Law" to strengthen environmental information management, standardize the process of environmental information exchange, Promote environmental data sharing and application, the development of this standard.

This standard specifies the XML description of environmental information, exchange format, describes the environment between the heterogeneous system letter Exchange model, transmission mode, exchange process.

Appendix A and B of this standard are normative and Appendix C is an informative appendix.

This standard is released for the first time.

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

The main drafting of this standard. the Ministry of Environmental Protection Information Center, Jiangsu Province 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.

Environmental Information Exchange Technical Specification

1 Scope of application

This standard specifies the XML description of the environmental information, the exchange format, the exchange model, the transmission mode, the exchange process Etc., applicable to national, provincial and municipal environmental protection departments between the environmental information exchange activities.

The exchange of various types of environmental information can be based on the basis of this standard, according to the exchange of information items, to develop detailed data Exchange message format. Such as environmental pollution sources automatic monitoring of information transmission, exchange for HJ/T 352-2007.

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.

Basic set of character set for Chinese characters in information exchange GB 2312-1980
GB 13000.1-1993 Information technology - Generic multi-octet character set (UCS) Part 1.
Architecture and basic Text plane HJ/T 352-2007 Environmental pollution source automatic monitoring information transmission, exchange technical specifications (Trial) Classification and code of environmental information HJ/T 417-2007

3 Terms and definitions

The following terms and definitions apply to this standard.

Environmental information Environmental management, environmental science, environmental technology, environmental protection industry and other environmental protection-related data, instructions and signals Etc., as well as related dynamic change information, including text, numbers, symbols, graphics, images, and sound and other shapes formula.

3.2 Information type information type

The types of data to be exchanged mainly include data sets, files, documents, reports, service information, etc.

So that the database, pictures, documents, audio, video, service information.

3.3 Information exchange

Will be distributed in different regions, different departments, different systems of the same application or different applications in the same kind of information Format, time requirements to the exchange center (also can be another system).

3.4 Exchange node exchanging node

A switching node is an environmental department that participates in the exchange of environmental information. The relationship between the switching nodes is defined according to the structure of the tree the upper-level switching node is the parent node of the next-level switching node, and the next-level switching node is the sub-section of the upper-level switching node Point; in accordance with the direction of transmission, all data are sent by the sender to the transmission side.

3.5 National node national node

Department of Environmental Protection. A national node is the parent of each provincial node.

3.6 Provincial node

Provincial Environmental Protection Department (bureau) node. Each provincial node is a child node of a national node, and it is a node of the municipal level Parent node.

3.7 Municipal node city node

Municipal Environmental Protection Agency node. Each city node is a child node of its provincial node.

3.8 Information exchange format

A pre-defined and structured, functionally aggregated aggregate data element or set of data elements that cover the Sharing of information on certain types of exchange information sharing requirements, aimed at bilateral or multilateral information exchange to ensure that the parties to the exchange Information unambiguous understanding and automatic processing.

4 Acronym

The following abbreviations apply to this standard.

FTP File Transfer Protocol (File Transfer Protocol) HTTP HyperText Transfer Protocol (HyperText Transfer Protocol) SOAP Simple Object Access Protocol (Simple Object Access Protocol) XML Extensible Markup Language (Extensible Markup Language) EiXML environment information can be extended markup language (environmental information Extensible Markup Language)

5 Environmental Information Classification

The classification of environmental information shall be in accordance with the requirements of HJ/T 417-2007.

6.1 Character set

The character set used shall comply with the requirements of GB 13000.1-1993 or GB 2312-1980.