The specification of WDC-RRE data identification

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1 General Rules

The WDC-RRE data identification aims at the assurance of the uniqueness of data identification and the protection of the rights of the data producers and the organizations that manage the data and provide the services. It is also supposed to help to manage data resources scientifically and regularly and proceed the opening and sharing of data resources.

This specification includes the regulations of the structure and writing rules of WDC-RRE data identification.

This specification can be applied to unified identification of all WDC-RRE data as well as the cataloging, registering, releasing, querying, maintaining and managing of the WDC-RRE data.

2 The Structure of WDC-RRE Data Identifiers

WDC-RRE data identifiers consists of 3 parts, which are the code name of WDC-RRE data identification (WDC-RRE), the serial number of WDC-RRE data and internal identifiers. The symbol "." is used to separate each part from the other two parts. The range of values of WDC-RRE data identifiers is decided on the UTF-8 coded character set. Half-width characters should be used to code. The structure of WDC-RRE data identifiers is shown in figure 1.
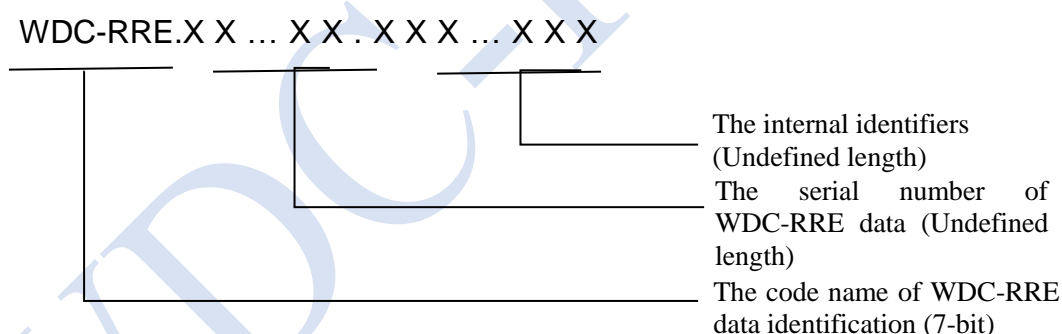
WDC-RRE.X X … X X . X X X … X X X

The internal identifiers (Undefined length)

The serial number of WDC-RRE data (Undefined length)

The code name of WDC-RRE data identification (7-bit)

Figure 1 The Structure of WDC-RRE Data Identifiers

3 The Rules of Writing WDC-RRE Data Identifiers

3.1 The code name of WDC-RRE data identification

The unified code name of WDC-RRE identification is "WDC-RRE", which is short for World Data Center for Renewable Resources and Environment.

3.2 The serial number of WDC-RRE data

Each single unique identifier, which consists of the releasing date of data and serial number, is given by WDC-RRE for verification and authorization. It has variable length, like 20180407001.

3.3 The internal identifiers

The internal identifiers consist 3 kinds of tagging elements called the saving format of data, the time range of data and the version of data, which are shown by the combination of letters, numbers and separators with undefined length to assure the uniqueness of the internal identifiers in every data. Half-width symbol "-" are used to separate each tagging element of internal identifiers that should be as brief an -d clear as possible.

(1) The saving format of data refers to the specific format used to save data, such as documents,   forms, vectors, grids and so on.   "#"   works as the division mark when more than 1 format is being used.

(2) The time range of data is the temporal information of data content. It could be any point in time (geological age or a certain time point) or any period (the beginning time and the ending time). "-" is used to connect the beginning and the ending time；"#" is used to separate several periods of time, such as 1990-2010, 2010#2015.

(3) The version of data shows the updating status of data with letter v and the serial number of the version. "#" is used to separate different kinds of version, like v1 and v2#v3.

3.4 The examples of the WDC-RRE data identifiers

E.   g. The data of China 1:4million environment resources (the distribution areas of marshes in China, 1990, 2000), vector data, was published on WDC-RRE on April. 1st, 2010. The serial number was 001 that day, the version number was v1 and the WDC-RRE data identification was as follows:

WDC-RRE.20100401001.shp-1990#2000-v1

4   The Application of WDC-RRE Data Identifiers

Once the identifiers are distributed to certain data, it is decided and will not affected by the changes of the ownership or administration authority.

The data identifiers distributed by WDC-RRE should be included when organizations or individuals transport the WDC-RRE data information or data. The primitive data identifiers are required to be pointed out as there are new data resources out of the processing of WDC-RRE data by organizations or individuals.

If there are any suggestions or comments about this document, please contact us:

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