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

GB/T 30996.1-2014

**Information technology -- Real-time locating systems -- Part 1:
Application program interface**

信息技术 实时定位系统 第1部分：应用程序接口

(English Translation)

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Foreword

GB/T 30996 "Information technology RTLS" is divided into two parts.

--- Part 1. Application Program Interface;

Part --- Article 2. 2.4GHz air interface protocol.

This section GB/T Part of 130,996.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part redrafted law revision using ISO/IEC 24730-1:2006 "Information technology RTLS - Part 1.

Application Programming Interface ", and ISO/IEC 24730-1. compared to 2006, mainly technical changes are as follows.

--- In the scope section, added "This section is intended for real-time positioning system application software design, development and testing";

--- Normative references, the original reference to ISO/IEC 9075:2003 (all parts), this section refers to these new standards Version ISO/IEC 9075:2008 (all parts);

--- Original normative documents in the last six xml and soap on a portion, on the reference section, because this section has no the body specified reference these materials;

--- Terms and definitions added "Web services" entry;

--- Acronyms added "API" and "SOAP" entry;

--- Original variables in some places using camel nomenclature, the first letter lowercase, in order to form a unified, this part of the variable name in full Pascal unit using the nomenclature, that the first letter capitalized;

--- In order to be consistent with the parameters defined in the XML schema name used in the original C language functions defined "struct QueryResponseQuery (char * QueryName, structFilterTypeFilters, structFieldTypeFields, struct SortTypeSortBy) "and" structSessionResponseOpenSession (char * QueryName, structFieldType Filters, structFieldTypeFields) "parameter name Filters to FilterBy.

This section also made the following editorial changes.

Column items --- paper numbered modified to comply with our standards lettered, that after half with Latin small letter in parentheses, such as a),

b), c) and the like;

--- Increased references;

--- 7.2.4 only one entry, delete the number "1)";

--- 7.4.3 first paragraph of the original "Appendix A", was revised to "see A.4", a reference to the original error.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part of the National Information Technology Standardization Technical Committee

(SAC/TC28) and focal points.

This section drafted by. China Electronics Standardization Institute, Article Numbering Center of China, Chinese Academy of Sciences Institute of Computing Technology, West an University of Electronic Science and Technology, ZTE long day information technology (Nanchang) Co., Ltd., Beijing University of Aeronautics and Astronautics, Chinese Academy of Sciences Institute of Automation, West an advantage of Things technology company, Beijing Science and Technology Co., Ltd. Extension flames, Suzhou Industrial Park Science and Technology Co., Ltd. gifted frequency mobile communication country Engineering Research Center, Shenzhen A Yifu Communications Limited.

1 Scope

This section GB/T 30996 specifies the application program interface between the real-time location and customer service software applications through which access Port, you can use the application software programming tools collected by the RTLS RTLS tag transmits the received information infrastructure.

This section applies to real-time location system application software design, development and testing.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 29261.3-2012 Information technology - Automatic identification and data capture technology - Vocabulary - Part 3. Radio frequency identification (ISO/IEC 19762-3-2008, NEQ) GB/T 29261.5-2014 Information technology - Automatic identification and data capture technology - Vocabulary - Part 5. Positioning System (ISO/IEC 19762-5-2008, IDT) ISO/IEC 9075:2008 (all parts) IT database language SQL (Informationtechnology-Data-baselanguages-SQL) ISO/IEC 19762-1 Information technology - Automatic identification and data capture technology - Vocabulary - Part 1. Automatic Identification Data Collection (Informationtechnology-Automaticidentificationanddatacapture (AIDC) techniques-Harmonized vocabulary-Part 1. GeneraltermsrelatingtoAIDC) IETFRFC2616. June1999 Hypertext Transfer Protocol (HTTP) 1.1 (HypertextTransferProtocol-HTTP /

3 Terms and Definitions

GB/T 29261.3-2012, GB/T 29261.5-2014 and ISO/IEC 19762-1 defined and the following terms and definitions apply in this document.

RTLS transmitter RTLS transmitters RTLS tag RF transmit signal for system identification and location of active (battery-powered) radio signal transmitter.

Note: transmitting information including RTLS tag to uniquely identify assets, and provide real-time location labels (such as remaining battery power) and assets (such as temperature) Information on a particular state.

Web services Webservice XML can be used for some discovery, description and access code.

Tag transmits tagblink Issue one or more copies of the same information (emission) consisting of an RF signal from the RTLS transmitter.