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

JR/T 0175-2019

**Specification for securities and futures industry software test
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the Securities Technical Committee of the National Financial Standardization Technical Committee (SAC/TC180/SC4).

This standard is under the jurisdiction of the National Financial Standardization Technical Committee (SAC/TC180).

This standard was drafted. China Securities Regulatory Commission Information Center, China Securities Regulatory Commission Securities Fund Institutional Supervision Ministry, Dalian Commodity Exchange, Shanghai Stock Exchange, Shenzhen Stock Exchange, Shanghai Futures Exchange, Zhengzhou Commodity Exchange, China Gold Financial Futures Exchange, Securities and Futures Industry Information Technology Testing Center (Dalian), China Galaxy Securities Co., Ltd., and Southern Fund Management Limited company.

Introduction

The development and stable operation of the securities and futures market are highly dependent on industry information systems. Standardize the test standards of the unified industry information system.

Help to standardize the test management of industry information systems, improve the standardization of the industry software testing process, and promote the overall level of industry software testing Enhancement, thereby reducing the risk of industry information system operation, and promoting the sustainable and healthy development of the securities and futures industry.

This standard has distinctive industry characteristics. It tightly combines industry experience, practice and testing theory to make the standard easier to implement and implement.

Can effectively guide industry software testing activities and improve test quality, among which.

a) The test management and testing process is based on the CMMI Software Capability Maturity Integration Model and TMMI Test Maturity Model.

Based on this, the following contents adapted to the characteristics of the industry are provided.

1) Provide work requirements for each test phase, and guide the test work in more detail, see 4.2.1;

2) Clarify the specifications and basic contents of each test document and provide reference templates, see 4.2.2 and Appendix B;

3) Provide test management rules, clarify the specific requirements and implementation content of each management work, so that the test management work can be carried out effectively See 4.6;

4) Refine the work content and requirements of each stage in the test process according to the characteristics of the industry, see Appendix A;

5) Refine test entry/exit requirements for each test type and test level to guide the test in more detail, See 4.5, 5.5, 6.5, 7.5, 8.5, 9.5.

b) The basic requirements for system content and test types, test levels and test types follow GB/T 15532-2008 "Computer Software Test "Testing Regulations" and clarify the following relationships based on industry characteristics.

1) The relationship between system content and test types is convenient for industry organizations to choose the appropriate content based on the test content that the software product may involve.

Combined test types, while adding four test types for emergency drills, networking tests, market-wide tests, and selection tests.

2) Correspondence between test level and test type, which is convenient for industry organizations according to their role, software product characteristics and other actual conditions.

Choose the appropriate test level and test type to ensure that industry organizations perform their testing duties and ensure the quality of software products.

c) The content of this standard complies with the standards of JR/T 0146-2016 (all parts) "Guidelines for Auditing of Information System of Securities and Futures Industry" Audit

requirements related to software testing.

Software Testing Specification for Securities and Futures Industry

1 Scope

This standard specifies the general requirements, unit tests, integration tests, system tests, and system requirements for the construction of the securities and futures industry information system.

Integration test, acceptance test and other test activities.

This standard applies to the core institutions of the securities and futures market (hereinafter referred to as the core institutions of the market) and the securities and futures fund management institutions (to (Hereinafter referred to as the market operating agency), securities and futures information technology service agencies (hereinafter referred to as market service agencies) to carry out the calculation of securities and futures Testing of computer software and external information systems.

Note 1: Core market institutions, such as securities and futures exchanges, securities registration and settlement agencies, and futures market monitoring centers;

Note 2: Market operating institutions, such as securities companies, futures companies, fund companies, etc .;

Note 3: Market service agencies, such as software developers, information vendors, service providers, etc.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document.

file. For undated references, the latest version (including all amendments) applies to this document.

GB/T 11457-2006 Information Technology Software Engineering Terminology GB/T 15532-2008 computer software test specification GB/T 29834.3-2013 System and software maintainability Part 3. Test methods JR/T 0145-2016 core technical indicators of the capital market transaction settlement system

3 Terms and definitions

The terms and definitions defined in GB/T 11457-2006 and the following apply to this document. For ease of use, the following GB/T is repeatedly listed Certain terms and definitions in 11457-2006.