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

GB/T 30973-2014

**Information technology -- Representation for human
communication of state transition of software**

信息技术 软件状态转换的人际通信表示

(English Translation)

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Foreword

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

This standard uses the translation method identical with the international standard ISO/IEC 11411:1995 "interpersonal communications and information technology software state transition Representation. " this standard made the following editorial changes.

--- Original criteria included in Appendix A and Appendix B, but not referenced in the text. In Chapter 4 and Chapter 5 Notes and lead were added to Appendix A and Annex B.

--- According to GB/T 1.1-2009 and GB/T 20000.2-2009 rules in Appendix C to "References."

--- Plus chart number, and references to the original standard chart of each piece in the standard text.

This standard by the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This standard was drafted. Shanghai Hong Di Information Technology Co., Fudan University, China Electronics Standardization Institute, Shandong Province standard Institute of Shenzhen Jiyang Automation Technology Co., Ltd., Shandong Computer Science Center, Lu Qixin Shanghai Information Technology Co., Ltd., Shanghai Finance Hospital, quality and technical supervision Jining information.

Introduction

Some areas of the software can be in a state transition diagram and state transition table showing the way out. Conversion software to change its status. When a when a condition occurs between states will make the appropriate conversion. Determination condition is caused by data entry. Data can take many forms, such as.

---signal;

---command;

---news;

--- Token, mark;

--- Character, word;

---recording.

This standard describes a minimum set of software for the state transitions of interpersonal communication concepts and symbols.

This standard.

a) define the nature of the state transition of software;

b) defines the state transition notation elements;

c) defines the state transition element set.

information Technology Interpersonal communication software indicates state transitions

1 Scope

This standard defines the concepts of charts and symbols can help indicate software functionality and conversion and can improve interpersonal communication. This standard covers the software requirements analysis and design phase of development, communication and review.

This standard is effective in the following areas of software.

--- Interactive Software (description and conversion functions represented on the screen);

--- Data communications software (described communication protocol and the corresponding action);

--- Language/command (described syntax).

2 Terms and definitions

The following terms and definitions apply to this document.

State state

Software is a unique value in a certain stage of its progress in the implementation process of representation. The state should have a unique name as its logo, known as the "name of the state." 2.2 Conversion transition Change from one state to another or the same state.

Conversion occurs when a certain condition is met. Action can take place along with the conversion. shape Ceremony, the conversion consists of the following three parts.

--- Point part;

--- Conditions section;

--- Action part.

Directed by the two states and part identifiers.

--- Previous state identifier (pointing to the previous state);

--- After a status identifier (pointing to the next state).

Part of the expression conditions and the action takes place between the state and change the conditions to be met. When different states or between the same change in the state sector when given a variety of transformations that the conditions should be mutually exclusive.

Part expressing action accomplished by software according to the conditions of operation. May be any processing operation, the operation may also be empty.

3.1 Specification state

States are.

a) an initial state --- and only one state is the initial state. Software starts its activities in the initial state. The initial state should be Converting at least a previous state.

b) final state --- have one or more states can become final state. End software to terminate its activities in the state. Each end