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

GB/T 14213-2008

Replacing GB/T 14213-1993

The initial graphics exchange specification (IGES)

初始图形交换规范

(English Translation)

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Foreword

This standard is in reference to the United States USPRO/IPO-100 "Initial Graphics Exchange Specification (IGES)" technical basics of the latest draft on the revision of GB/T 14213-1993 "Initial Graphics Exchange Specification," conducted its technical content and USPRO/IPO-100 to maintain a Cause, appropriate adjustments were made on the structure.

In order to maintain consistency and ease of use with the original, the first table and table use some keywords in bold.

According to GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and drafting of rules" were the requirements of the standard Following editorial process.

- 1) increase in Chapter 2 normative references.
- 2) original content standards in Appendix K of this standard as previously mentioned in Chapter 3 Terms and definitions.
- 3) increase the basic principles of Chapter 4, the original content of 1.2 to 1.9 of the standard included, the control as follows.

- Original standard of 1.2 corresponds to 4.1 of this standard;
- Original standard of 1.3 corresponds to 4.2 of this standard;
- Original standard of 1.4 corresponds to 4.3 of this standard;
- Original standard corresponding to 1.5 to 4.4 of this standard;
- Original standard of 1.6 corresponds to 4.5 of this standard;
- Original standard of 1.7 corresponds to 4.6 of this standard;
- Original standard of 1.8 corresponds to 4.7 of this standard;
- Original standard of 1.9 corresponds to 4.8 of this standard.

4) the original standard as Chapter 2 Chapter 5 of this standard.

5) the original standard as Chapter 3 Chapter 6 of this standard.

6) the original standard, Chapter 4 of this standard as Chapter 7.

This standard replaces GB/T 14213-1993, compared with the GB/T 14213-1993, technical content changes include.

- 1) increase the multimedia entity (type 232);
- 2) General comments on the entity (type 212) was amended, adding a new map;
- 3) increase the simple closed plane curve entity (type 106, form 63);
- 4) increase in the bus width signal characteristics (type 406, format 37);
- 5) increasing the Uniform Resource Locator (URL) anchor characteristics (type 406, form 38);
- 6) increase the flat characteristics (type 406, form 39);
- 7) increase the continuous nature (type 406, form 40);
- 8) increases linearly entity (type 110, format 1 and 2);
- 9) convection-shaped B-Rep entity object entity (type 186), ring entity (type 508) and a shell entity (type 514) parameter data table it has been modified;
- 10) increase the linear definition entities (type 304);
- 11) adds new generic annotation entity (type 213);
- 12) adds text display template entity (type 312);
- 13) increases the character spacing characteristics (format 18) of the example of FIG;
- 14) increasing the size of the display data characteristics (format 30).

The Standard Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix I for the informative appendix H and appendix.

The standard proposed by China National Institute of Standardization.

This standard by the National Industrial automation systems and integration Standardization Technical Committee (SAC/TC159) centralized.

This standard is mainly drafted by. China National Institute of Standardization.

1 Scope

This standard specifies the digital expression product definition data and information exchange structures, suitable for computer aided design and computer assisted Assisted manufacturing (CAD/CAM) data exchange between systems.

This is a standard geometry, topology and non-geometric product definition data and define the file structure and language format. These formats are independent of Modeling methods used, and they support data exchange with the physical media or electronic communications protocol (defined in other standards) conducted change.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1988-1998 Technical information interchange bit coded character set (eqv ISO/IEC 646:1991) GB/T 3057-1996 IT programming language Fortran (idt ISO/IEC 1539:1991) Representation and exchange GB/T 16656.31-1997 Industrial automation systems and integration - Product data - Part 31. Conformance testing Test methodology and framework. General concepts (idt ISO 10303-31:1994) GB/T 16656.32-1997 Industrial automation systems and integration - Product data representation and exchange - Part 32. Conformance testing Methodology and framework. Requirements on testing laboratories and customer requirements (idt ISO 10303-32:1998) IEEE260.1-2004 measurement units letter symbols IEEE754-1985 binary floating-point arithmetic ISO 7942. 1985 Information processing system kernel image Functional Description

3 Terms and Definitions

The following terms and definitions apply to this standard.

Annotator entity provides angular dimension between two lines of geometry.