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

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**Building information model platform
(English Translation)**

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Foreword

This standard is not equivalent using ISO/PAS16739..2005 "Industry Foundation classes 2x platform (IndustryFoundationClasses, Re-lease2x, PlatformSpecification) "," Industrial Foundation 2x platform "by the International Cooperation Agency (InternationalAliancefor Interoperability. Taking into account China's national conditions and habits, this standard uses part of ISO/PAS16739..2005.

At present, there is no similar national standard or industry standard adopted ISO/PAS16739..2005.

This standard Appendix A, Appendix B is an informative annex.

This standard is proposed by the Ministry of Construction standard quota research institute.

This standard by the Ministry of Construction Building Products and Components Products Standardization Technical Committee.

1 Scope

This standard specifies the general requirements for the digital definition of building objects, resource layer, core layer and interaction layer.

This standard applies to all stages of the building life cycle and the various stages of information exchange and sharing, including architecture design, facilities Workers, management and so on. Water conservancy, transportation, telecommunications and other construction areas of information exchange and sharing can refer to this standard.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. All dated references, which are subsequently owned Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to reach an agreement based on this standard research Whether you can use the latest versions of these files. For undated references, the latest version applies to this standard.

GB/T 16656.11-1996 Industrial automation systems and integrated product data representation and exchange - Part 11. Description.

EXPRESS language reference manual GB/T 16656.41-1999 industrial automation systems and integrated product data representation and exchange - Part 41. Integrated General Assets Source. Product Description and Support Principles GB/T 16656.42-1998 Industrial automation systems and integrated product data representation and exchange - Part 42. Integrated General Assets Source. Geometry and Topology Expression GB/T 16656.43-1999 Industrial automation systems and integrated product data representation

and exchange - Part 43. Integrated General Assets Source. Expression Structure

3 Terms and definitions

GB/T 16656.11-1996, GB/T 16656.42-1998 established and the following terms and definitions apply to this standard.

Building information model sharing and exchange format standards, but also the platform part of the building information model.

Building Information A complete and coordinated data organization that facilitates computer application access, modification or addition. This information includes follow Put the physical and functional characteristics of the building facility as expressed by industry standards and their associated project or life cycle information.

Classes or concepts that are independent of the specific construction industry or specific application needs and must rely on the building information model Other types of righteousness can exist.

The basic structure consisting of different semantic parts in the general understanding of building information models is recorded.

The concepts common in two or more domain models allow models in different domains to exchange information.