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**Geographic information—
Temporal schema**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Land, Infrastructure and Transport and the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Association of Precise Survey and Applied Technology (APA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This Standard has been made based on **ISO 19108 : 2002** *Geographic information—Temporal schema* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Geographic information— Temporal schema

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 19108** *Geographic information—Temporal schema* published in 2002 without modifying the technical contents. This Standard is one of Japanese Industrial Standards based on a number of standards for geographic information (hereafter referred to as a set of standards for geographic information) relating to **ISO/TC 211**. The set of standards for geographic information is the standard for the information-processing technology concerning objects or phenomenon directly or indirectly associated with the positions on earth and is applied to digitization of various data about rivers and roads, etc., and sophistication and efficiency of information-processing.

Portions underlined with dots are the matters not stated in the original International Standard (**ISO 19108** *Geographic information—Temporal schema*).

1 Scope This Standard defines concepts for describing temporal characteristics of geographic information. It provides a basis for defining temporal feature attributes, feature operations, and feature associations, and for defining the temporal aspects of metadata about geographic information. Since this Standard is concerned with the temporal characteristics of geographic information as they are abstracted from the real world, it emphasizes valid time rather than transaction time.

Remarks : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21.

ISO 19108 : 2002 *Geographic information—Temporal schema* (IDT)

2 Conformance

2.1 Conformance classes and requirements This Standard defines five conformance classes, which depend upon the nature of the test item.

2.2 Application schemas for data transfer To conform to this Standard, an application schema for data transfer shall satisfy the requirements of **A.1** of the Abstract Test Suite in annex A.

2.3 Application schema for data with operations To conform to this Standard, an application schema that supports operations on data shall satisfy the requirements of **A.2** of the Abstract Test Suite in annex A.

2.4 Feature catalogues To conform to this Standard, a feature catalogue shall satisfy the requirements of **A.3** of the Abstract Test Suite in annex A.