<u>**BUREAU OF INDIAN STANDARDS**</u>
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मसौदा भारतीय मानक
भौगोलिक सूचना
वैचारिक स्कीमा भाषा
(पहला पुनरीक्षण)

Draft Indian Standard
Geographic Information - Conceptual Schema Language
(First Revision)

ICS: 35.240.70

LITD 22 Geospatial Information Sectional Committee	**Last Date for Comments: 08 Sep 2024**

NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (First Revision) which is identical with ISO FD1S 19103:2024 'Geographic Information Conceptual Schema Language' issued by International Organization for Standardization (ISO) may be adopted by the Bureau of Indian Standards on the recommendation of the Geospatial Information Sectional Committee LITD 22 and the approval of the Electronics and Information Technology Division Council.

This standard was originally published in 2018 and was identical to ISO 19103:2015. This revision of this standard aligns this Indian Standard with ISO FD1S 19103:2024.

The text of ISO Standard *may be* approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The main changes are as follows:

a) conformance to UML 2.5.1 has been improved;
b) the UML profile has been improved and the stereotypes Leaf, CodeList and Union have been deprecated;
c) the collection data types, the name data types, the extension data types and data type Any have been removed;
d) alignment with the data types described in ISO/IEC 11404:2007, Clause 8 and Clause 10 has been improved;
e) the conformance classes for conceptual schemas modelled in UML 1.x and for conceptual schemas modelled in another conceptual schema language have been removed;
f) the normative references have been updated, in particular:
g) addition of UML 2.5.1 and removal of ISO/IEC 19505-2:2012 (equivalent to UML 2.4.1, Superstructure[4]);
h) removal of the Object Constraint Language (OCL) specification.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 'Rules for rounding off numerical values (Second Revision)'.The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

Scope of ISO FD1S 19103:2024:

This document specifies provisions for the use of a conceptual schema language within the context of modelling geographic information. The chosen conceptual schema language is a subset of the Unified Modeling Language (UML).

This document specifies a UML profile for modelling geographic information.

This document specifies a set of core data types for use in conceptual schemas.

The standardization target type of this document is conceptual schemas describing geographic information.

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