

Doc No. : LITD 22 (22759)

ISO 19168-2:2022

July 2023

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Geographic information – Geospatial API for features — Part 2: Coordinate
Reference Systems by Reference

मसौदा भारतीय मानक
भौगोलिक जानकारी - सुविधाओं के लिए भू-स्थानिक एपीआई - भाग 2: संदर्भ द्वारा
समन्वयित संदर्भ प्रणाली

ICS: 35.240.70

LITD 22 Geospatial Information
Sectional Committee

Last date for comments: 18 Sep 2023

NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard which is identical with ISO 19168-2:2022 ‘Geographic information – Geospatial API for features — Part 2: Coordinate Reference Systems by Reference’ issued by 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 IT Division Council.

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.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalence for editions indicated:

International Standards	Corresponding Indian Standard	Degree of Equivalence
ISO 19168-1:2020 Geographic information — Geospatial API for features — Part 1: Core	Doc No. : LITD 22 (22759) Geographic information — Geospatial API for features — Part 1: Core	Identical

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 19168-2:2022 is as follows:

This document specifies an extension to the Geospatial API for Features — Part 1: Core standard that defines the behavior of a server that supports the ability to present geometry valued properties in a response document in one from a list of supported Coordinates Reference Systems (CRS).

Each supported CRS is specified by reference using a uniform resource identifier (URI).

This document specifies:

- How, for each offered feature collection, a server advertises the list of supported CRS identifiers;
- How the coordinates of geometry valued feature properties can be accessed in one of the supported CRSs;
- How features can be accessed from the server using a bounding box specified in one of the supported CRSs; and
- How a server can declare the CRS used to present feature resources.

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