



This International Standard provides a framework for developers to create software that enables users to access and process geographic data from a variety of sources across a generic computing interface within an open information technology environment.

- "a framework for developers" means that this International Standard is based on a comprehensive, common (i.e., formed by consensus for general use) plan for interoperable geoprocessing.
- "access and process" means that geodata users can query remote databases and control remote processing resources, and also take advantage of other distributed computing technologies such as software delivered to the user's local environment from a remote environment for temporary use.
- "from a variety of sources" means that users will have access to data acquired in a variety of ways and stored in a wide variety of relational and non-relational databases.
- "across a generic computing interface" means that ISO 19119 interfaces provide reliable communication between otherwise disparate software resources that are equipped to use these interfaces.
- "within an open information technology environment" means that this International Standard enables geoprocessing to take place outside of the closed environment of monolithic GIS, remote sensing, and AM/FM systems that control and restrict database, user interface, network, and data manipulation functions.

This part of ISO 191\*\* Family of Standards provides identification and definition of the service interfaces used for geographic information and definition of the relationships to the Open System Environment model. The definition of service interfaces allows a variety of applications with different levels of functionality to access and use of geographic information. This International Standard defines requirements for development of standards for specific services. While specialized services will appropriately remain an area for proprietary products, the interfaces to those services will be standardized. It is important that work in this area is integrated with the approaches being developed within the more general world of information technology.

This International Standard is structured using the ISO Reference Model for Open Distributed Processing, with a particular focus on the computational viewpoint. (ISO/IEC DIS 10746-1).

This standard has been jointly adopted by the Open Geospatial Consortium and other activities. The standard has been the basis of several interoperability implementations.

The standard is of particular relevance to the following sectors:

Sector	Of particular interest
Developers of GIS products	Yes
Developers of GIS application systems	Yes
Producers/ suppliers of geographic data	
Users of geographic data and GIS	Yes
Developers of standards	Yes

For further information on this standard and its implementation, please contact ISO/TC 211 secretariat via [www.isotc211.org](http://www.isotc211.org).