

AN ESRI
WHITE PAPER

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ArcGIS Is Open

Esri Support for Open Geospatial Standards

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Esri Support for Open Geospatial Standards

Executive Summary

At Esri, we believe in the power of The Science of Where™. Applied geography helps people better understand our world. Our work is the science of geographic information system (GIS) and location technology. We built and are constantly improving the geographic information system called the ArcGIS® platform.

People all over the world and across every field use ArcGIS to integrate and unify data to make better decisions and empower people to see and share information holistically. ArcGIS users have created countless essential GIS applications across hundreds of thousands of organizations. For 50 years, Esri has focused on interoperability as a basic design principle of our products.

Esri builds GIS *and* location-enabled products. To see a full listing of all the Esri products please visit esri.com/en-us/arcgis/products/index.

How Esri Keeps ArcGIS Open and Interoperable

The ArcGIS platform is engineered to be open, secure, and interoperable. To create an open and interoperable system, Esri has adopted a multifaceted approach, which includes the following:

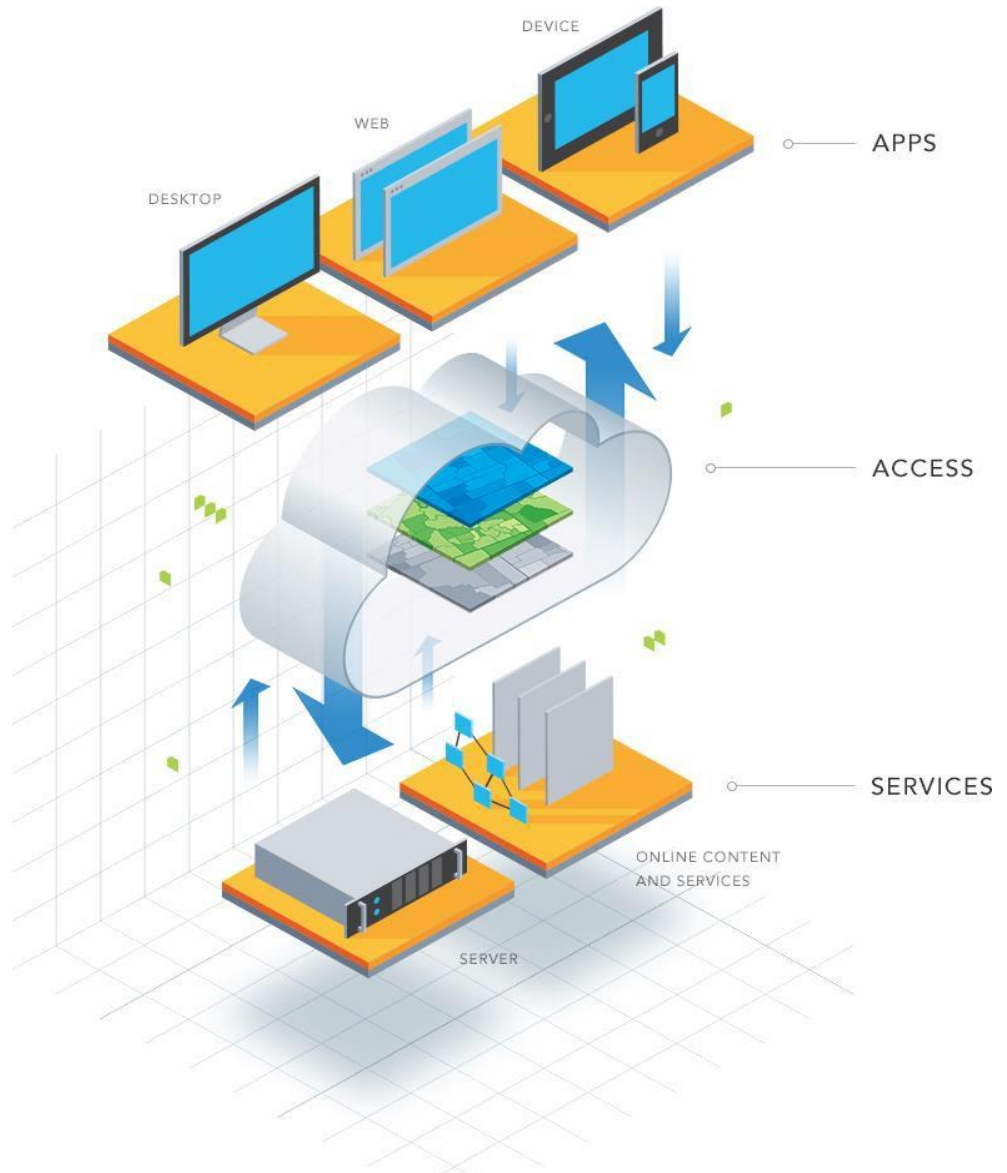
- Leveraging Standards—IT and GIS standards
- Open Architecture—Open APIs and published specifications
- Engaging Communities—Sharing applications, open-source software, and best practices

"ArcGIS is an open platform. At Esri, we take that seriously because it means your data and systems are interoperable with other technologies. ArcGIS serves as an integral part of every organization. At its center is Web GIS, a way to open GIS access and benefits to everyone, while creating connections within and across organizations."—Jack Dangermond, Founder and CEO, Esri

ArcGIS supports the following:

- Direct read/write of a wide variety of data formats
- Adoption and use of GIS and cloud standards and patterns
- Extract, transform, and load (ETL) technology
- Hardware platform choices
- Database choices

- Operating environment choices
- Cloud choices
- Developer tool choices
- Support for multiple coordinate, address, and temporal reference systems
- Support for thousands of datums and projection



ArcGIS Platform Is Open, Secure, and Interoperable

Support for OGC

Esri is a Principle Member of the Open Geospatial Consortium, Inc. (OGC), and is active in its various programs. These include the OGC Standards Program, the Innovation Program, and OGC Outreach activities. Esri has served on various OGC committees such as the Planning Committee, OGC Architecture Board, Joint Advisory Group between OGC and ISO TC211, and OGC Technical Committee. Esri's director of Global Business Development is also on the OGC Board of Directors. Esri continues to be an active participant in various technical committee activities and has also hosted OGC meetings on our campus. Esri's primary support for OGC is the implementation of OGC standards in our products. The ArcGIS platform encompasses a number of products that work together and as stand-alone offerings. As of March 2020, Esri has—over multiple releases of the ArcGIS platform and within various products—supported various versions of OGC standards in 148 different products. Additionally, ArcGIS products have 376 OGC Compliancy Certificates earned through the years. *Please note that not all OGC standards have compliancy tests and, therefore, no compliancy certification process.*

The following are OGC standards supported in the ArcGIS platform listed in two categories:

- List of Esri OGC-compliant products. OGC compliancy means Esri has had our software tested by OGC to show compliancy to a given standard. (As mentioned above, not all OGC standards have compliancy tests, and Esri implements many OGC standards for which there are no tests yet available.)
- List of Esri products implementing OGC standards (these products are in addition to those that are in the OGC compliancy listing).

Compliant and implementing products are listed here by the names they were called at the time of testing and release. Some of Esri's product names may have changed to reflect the unified nature of the ArcGIS family of products.

Esri OGC-Compliant Products

For the most up-to-date list of Esri's support for OGC standards, please visit the OGC website at

https://www.ogc.org/resource/products?display_opt=3&org_match=ESRI

Web Coverage Service (WCS) 2.0 Interface Standard—Core (Corrigendum) 2.0.1

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server

WCS 2.0 Interface Standard—Earth Observation Application Profile 1.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7

WCS 2.0 Interface Standard—XML/POST Protocol Binding Extension 1.0.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7

WCS Implementation Specification Corrigendum 1.1.1.1

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.2 for Server

WCS Implementation Specification (Corrigendum) 1.1.1

- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2 for Server

WCS Implementation Specification (Corrigendum) 1.0.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3

WCS Interface Standard—Interpolation Extension 1.0

- ArcGIS Enterprise 10.7

WCS Interface Standard—Scaling Extension 1.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7

WCS Interface Standard—CRS Extension 1.0

- ArcGIS Enterprise 10.7

WCS Interface Standard—Range Subsetting Extension 1.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7

Web Feature Service (WFS) 2.0 Interface Standard (also ISO 19142)

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5

WFS Basic 2.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7

WFS 1.0.0

- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 Service Pack 1
- ArcIMS® 9.3
- ArcIMS 9.2
- ArcIMS 9.1 SP1

Web Map Service (WMS) Implementation Specification 1.3.0

- ArcGIS Desktop 10.8
- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS
- ArcGIS PRO 1.4
- ArcMap 10.7
- ArcMap 10.6
- ArcMap 10.5

- ArcGIS 10.4 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3
- ArcIMS 9.3

WMS Client Implementation Specification 1.3.0

- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS PRO 2.3
- ArcGIS PRO 2.1
- ArcGIS PRO 1.4
- ArcMap 10.7
- ArcMap 10.6
- ArcMap 10.5

WMS Client (Queryable) Implementation Specification 1.3.0

- ArcGIS PRO 2.3

WMS Implementation Specification 1.1.1

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3
- ArcIMS 9.3
- ArcGIS Server 9.2
- ArcIMS 9.2
- ArcIMS 9.1
- ArcIMS 9.0

Catalogue Service Implementation Specification 2.0.2

- Esri Geoportal Server 1.2.5 (Official OGC Reference Implementation)
- Esri Geoportal Server 1.2.4
- Esri Geoportal Server 1.2.2
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server Geoportal extension 9.3.1

Catalogue Service Implementation (Catalogue Service for the Web) 2.0.2

- Esri Geoportal Server 1.2.5
- Esri Geoportal Server 1.2.4
- Esri Geoportal Server 1.2.2

GeoPackage Encoding Standard 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS Desktop 10.7
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: Attributes 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: Extension Mechanism 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: Features 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: Metadata 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2

GeoPackage Encoding Standard: RTree Spatial Indexes 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: Schema 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: Tiles 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard: WKT for Coordinate Reference Systems 1.2

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcMap 10.7
- ArcGIS Desktop 10.6.1

GeoPackage Encoding Standard—with Corrigendum 1.0.1

- ArcGIS PRO 1.4
- ArcMap 10.5
- ArcGIS 10.4.1 for Desktop (Early Implementer)

GeoPackage: Tiling 1.0

- ArcGIS 10.4.1 for Desktop (Early Implementer)

Keyhole Markup Language (KML) 2.2.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server

KML (Level 2) 2.2.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6

KML (Level 3) 2.2.0

- ArcGIS Enterprise 10.8
- ArcGIS Enterprise 10.7
- ArcGIS Enterprise 10.6

Information Specification for Geospatial Information—Simple Features Access 1.1 (SFS 1.1) (Core)

- ArcGIS Enterprise 10.8—Dameng
- ArcGIS Enterprise 10.8—DB2
- ArcGIS Enterprise 10.8—Informix
- ArcGIS Enterprise 10.8—Netezza
- ArcGIS Enterprise 10.8—Oracle Binary Schema
- ArcGIS Enterprise 10.8—PostgreSQL
- ArcGIS Enterprise 10.8—SAP HANA

- ArcGIS Enterprise 10.8—SQL
- ArcGIS Enterprise 10.8—SQL Lite
- ArcGIS Enterprise 10.8—Teradata
- ArcGIS Enterprise 10.7—Dameng
- ArcGIS Enterprise 10.7—DB2
- ArcGIS Enterprise 10.7—Informix
- ArcGIS Enterprise 10.7—Netezza
- ArcGIS Enterprise 10.7—Oracle Binary Schema
- ArcGIS Enterprise 10.7—PostgreSQL
- ArcGIS Enterprise 10.7—SAP HANA
- ArcGIS Enterprise 10.7—SQL
- ArcGIS Enterprise 10.7—SQL Lite
- ArcGIS Enterprise 10.7—Teradata
- ArcGIS Enterprise 10.6—Dameng
- ArcGIS Enterprise 10.6—DB2
- ArcGIS Enterprise 10.6—Informix
- ArcGIS Enterprise 10.6—Netezza
- ArcGIS Enterprise 10.6—Oracle
- ArcGIS Enterprise 10.6—PostgreSQL
- ArcGIS Enterprise 10.6—SAP HANA
- ArcGIS Enterprise 10.6—SQL Server
- ArcGIS Enterprise 10.6—SQLite
- ArcGIS Enterprise 10.6—Teradata
- ArcGIS Enterprise 10.5—SAP HANA
- ArcGIS Enterprise 10.5—DB2
- ArcGIS Enterprise 10.5—Informix
- ArcGIS Enterprise 10.5—SQL Server
- ArcGIS Enterprise 10.5—SQLite
- ArcGIS Enterprise 10.5—Netezza
- ArcGIS Enterprise 10.5—Oracle
- ArcGIS Enterprise 10.5—PostgreSQL
- ArcGIS Enterprise 10.5—Teradata
- ArcGIS Enterprise 10.5—Dameng
- ArcGIS 10.4 for Server—SAP HANA
- ArcGIS 10.4 for Server—DB2
- ArcGIS 10.4 for Server—Informix
- ArcGIS 10.4 for Server—SQL Server
- ArcGIS 10.4 for Server—SQLite
- ArcGIS 10.4 for Server—Netezza
- ArcGIS 10.4 for Server—Oracle
- ArcGIS 10.4 for Server—PostgreSQL
- ArcGIS 10.4 for Server—Teradata
- ArcGIS 10.3 for Server—Informix
- ArcGIS 10.3 for Server—DB2
- ArcGIS 10.3 for Server—SQL Server
- ArcGIS 10.3 for Server—SQLite

- ArcGIS 10.3 for Server—Netezza
- ArcGIS 10.3 for Server—Oracle
- ArcGIS 10.3 for Server—PostgreSQL
- ArcGIS 10.3 for Server—Teradata
- ArcGIS 10.2 for Server—Informix
- ArcGIS 10.2 for Server—DB2
- ArcGIS 10.2 for Server—SQL Server
- ArcGIS 10.2 for Server—SQLite
- ArcGIS 10.2 for Server—Netezza
- ArcGIS 10.2 for Server—Oracle
- ArcGIS 10.2 for Server—PostgreSQL
- ArcGIS 10.2 for Server—Teradata
- ArcGIS 10.1 for Server Enterprise (ArcSDE®)—DB2
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—Informix
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—Oracle
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—PostgreSQL
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—SQL Server
- ArcGIS Server Enterprise (ArcSDE) 10.0—DB
- ArcGIS Server Enterprise (ArcSDE) 10.0—Informix
- ArcGIS Server Enterprise (ArcSDE) 10.0—Oracle
- ArcGIS Server Enterprise (ArcSDE) 10.0—PostgreSQL
- ArcGIS Server Enterprise (ArcSDE) 10.0—SQL Server
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—DB2
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Informix
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Oracle
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—PostgreSQL
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—SQL Server
- ArcGIS Server 9.3—DB2
- ArcSDE 9.3—Informix
- ArcSDE 9.3—Oracle
- ArcSDE 9.3—PostgreSQL
- ArcSDE 9.3—SQL Server
- ArcGIS Server Enterprise 9.2—DB2
- ArcGIS Server Enterprise 9.2—Informix
- ArcGIS Server Enterprise 9.2—Oracle
- ArcGIS Server Enterprise 9.2—SQL
- ArcGIS Server Enterprise 9.2—SQL Express
- ArcSDE 9.1—DB2
- ArcSDE 9.1—Informix
- ArcSDE 9.1—Oracle
- ArcSDE 9.1—SQL Server
- ArcSDE 9.0—DB2
- ArcSDE 9.0—Informix
- ArcSDE 9.0—Oracle
- ArcSDE 9.0—SQL Server

- ArcSDE 8.1—DB2
- ArcSDE 8.1—Informix
- ArcGIS 8.1—OLE/COM
- Spatial Database Engine™ (SDE™) DataJoiner 3.0.2—DB2
- Spatial Database Engine DataJoiner 3.0.2—Informix
- Spatial Database Engine DataJoiner 3.0.2—Oracle

SFS Types and Functions (TF) 1.1

- ArcGIS Enterprise 10.8—Dameng
- ArcGIS Enterprise 10.8—DB2
- ArcGIS Enterprise 10.8—Informix
- ArcGIS Enterprise 10.8—Netezza
- ArcGIS Enterprise 10.8—Oracle
- ArcGIS Enterprise 10.8—PostgreSQL
- ArcGIS Enterprise 10.8—SAP HANA
- ArcGIS Enterprise 10.8—SQLite
- ArcGIS Enterprise 10.8—SQL
- ArcGIS Enterprise 10.8—Teradata
- ArcGIS Enterprise 10.7—Dameng
- ArcGIS Enterprise 10.7—DB2
- ArcGIS Enterprise 10.7—Informix
- ArcGIS Enterprise 10.7—Netezza
- ArcGIS Enterprise 10.7—Oracle
- ArcGIS Enterprise 10.7—PostgreSQL
- ArcGIS Enterprise 10.7—SAP HANA
- ArcGIS Enterprise 10.7—SQLite
- ArcGIS Enterprise 10.7—SQL
- ArcGIS Enterprise 10.7—Teradata
- ArcGIS Enterprise 10.6—Dameng
- ArcGIS Enterprise 10.6—DB2
- ArcGIS Enterprise 10.6—Informix
- ArcGIS Enterprise 10.6—Netezza
- ArcGIS Enterprise 10.6—Oracle
- ArcGIS Enterprise 10.6—PostgreSQL
- ArcGIS Enterprise 10.6—SAP HANA
- ArcGIS Enterprise 10.6—SQL Server
- ArcGIS Enterprise 10.6—SQLite
- ArcGIS Enterprise 10.6—Teradata
- ArcGIS Enterprise 10.5—SAP HANA
- ArcGIS Enterprise 10.5—DB2
- ArcGIS Enterprise 10.5—Informix
- ArcGIS Enterprise 10.5—SQL
- ArcGIS Enterprise 10.5—SQLite
- ArcGIS Enterprise 10.5—Netezza
- ArcGIS Enterprise 10.5—Oracle
- ArcGIS Enterprise 10.5—PostgreSQL

- ArcGIS Enterprise 10.5—Teradata
- ArcGIS Enterprise 10.5—Dameng
- ArcGIS 10.4 for Server—SAP HANA
- ArcGIS 10.4 for Server—DB2
- ArcGIS 10.4 for Server—Informix
- ArcGIS 10.4 for Server—SQL Server
- ArcGIS 10.4 for Server—SQLite
- ArcGIS 10.4 for Server—Netezza
- ArcGIS 10.4 for Server—Oracle
- ArcGIS 10.4 for Server—PostgreSQL
- ArcGIS 10.4 for Server—Teradata
- ArcGIS 10.3 for Server—PostgreSQL
- ArcGIS 10.3 for Server—DB2
- ArcGIS 10.3 for Server—Informix
- ArcGIS 10.3 for Server—Oracle
- ArcGIS 10.3 for Server—Netezza
- ArcGIS 10.3 for Server—SQLite
- ArcGIS 10.3 for Server—Teradata
- ArcGIS 10.2 for Server—PostgreSQL
- ArcGIS 10.2 for Server—DB2
- ArcGIS 10.2 for Server—Informix
- ArcGIS 10.2 for Server—Oracle
- ArcGIS 10.2 for Server—Netezza
- ArcGIS 10.2 for Server—SQLite
- ArcGIS 10.2 for Server—Teradata
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—DB2
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—Informix
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—Oracle
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—PostgreSQL
- ArcGIS Server Enterprise (ArcSDE) 10.0—DB2
- ArcGIS Server Enterprise (ArcSDE) 10.0—Informix
- ArcGIS Server Enterprise (ArcSDE) 10.0—Oracle
- ArcGIS Server Enterprise (ArcSDE) 10.0—PostgreSQL
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—DB2
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Informix
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Oracle
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—PostgreSQL
- ArcGIS Server 9.3—DB2
- ArcSDE 9.3—Informix
- ArcSDE 9.3—Oracle
- ArcSDE 9.3—PostgreSQL
- ArcGIS Server Enterprise 9.2—DB2
- ArcGIS Server Enterprise 9.2—Informix
- ArcGIS Server Enterprise 9.2—Oracle
- ArcSDE 9.1—DB2

- ArcSDE 9.1—Informix
- ArcSDE 9.0—DB2
- ArcSDE 9.0—Informix
- ArcSDE 8.1—DB2
- ArcSDE 8.1—Informix
- Spatial Database Engine DataJoiner 3.0.2—DB2
- Spatial Database Engine DataJoiner 3.0.2—Informix
- Spatial Database Engine DataJoiner 3.0.2—Oracle

SFS Binary Geometry (BG) 1.1

- ArcGIS Enterprise 10.8—SQL
- ArcGIS Enterprise 10.8—Oracle
- ArcGIS Enterprise 10.7—SQL
- ArcGIS Enterprise 10.7—Oracle
- ArcGIS Enterprise 10.6—Oracle
- ArcGIS Enterprise 10.6—SQL Server
- ArcGIS Enterprise 10.5—Oracle
- ArcGIS Enterprise 10.5—SQL Server
- ArcGIS 10.4 for Server—Oracle
- ArcGIS 10.4 for Server—SQL Server
- ArcGIS 10.3 for Server—Oracle
- ArcGIS 10.3 for Server—SQL Server
- ArcGIS 10.2 for Server—Oracle
- ArcGIS 10.2 for Server—SQL Server
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—Oracle
- ArcGIS 10.1 for Server Enterprise (ArcSDE)—SQL Server
- ArcGIS Server Enterprise (ArcSDE) 10.0—Oracle
- ArcGIS Server Enterprise (ArcSDE) 10.0—SQL Server
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Oracle
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—SQL Server
- ArcSDE 9.3—Oracle
- ArcSDE 9.3—SQL Server
- ArcGIS Server Enterprise 9.2—Oracle
- ArcGIS Server Enterprise 9.2—SQL Server
- ArcGIS Server Enterprise 9.2—SQL Server Express
- ArcSDE 9.1—Oracle
- ArcSDE 9.1—SQL Server
- ArcSDE 9.0—Oracle
- ArcSDE 9.0—SQL Server

Implementation Specification for Geographic Information- Simple Feature Access—Part 2: SQL option 1.1

- ArcGIS Enterprise 10.8—Oracle Spatial Types and Functions
- ArcGIS Enterprise 10.8—Oracle Binary Schema
- ArcGIS Enterprise 10.8—Netezza Spatial Types and Functions
- ArcGIS Enterprise 10.8—Informix Spatial Types and Functions

- ArcGIS Enterprise 10.8—DB2 Spatial Types and Functions
- ArcGIS Enterprise 10.8—Dameng Spatial Types and Functions
- ArcGIS Enterprise 10.8—PostgreSQL Spatial Types and Functions
- ArcGIS Enterprise 10.8—SAP HANA Spatial Types and Functions
- ArcGIS Enterprise 10.8—SQL Server Binary Schema
- ArcGIS Enterprise 10.8—SQLite Spatial Types and Functions
- ArcGIS Enterprise 10.8—Teradata Spatial Types and Functions
- ArcGIS Enterprise 10.7—Oracle Spatial Types and Functions
- ArcGIS Enterprise 10.7—Oracle Binary Schema
- ArcGIS Enterprise 10.7—Netezza Spatial Types and Functions
- ArcGIS Enterprise 10.7—Informix Spatial Types and Functions
- ArcGIS Enterprise 10.7—DB2 Spatial Types and Functions
- ArcGIS Enterprise 10.7—Dameng Spatial Types and Functions
- ArcGIS Enterprise 10.7—PostgreSQL Spatial Types and Functions
- ArcGIS Enterprise 10.7—SAP HANA Spatial Types and Functions
- ArcGIS Enterprise 10.7—SQL Server Binary Schema
- ArcGIS Enterprise 10.7—SQLite Spatial Types and Functions
- ArcGIS Enterprise 10.7—Teradata Spatial Types and Functions
- ArcGIS Enterprise 10.6—Dameng Spatial Types and Functions
- ArcGIS Enterprise 10.6—DB2 Spatial Types and Functions
- ArcGIS Enterprise 10.6—Informix Spatial Types and Functions
- ArcGIS Enterprise 10.6—Netezza Spatial Types and Functions
- ArcGIS Enterprise 10.6—Oracle Binary Schema
- ArcGIS Enterprise 10.6—Oracle Spatial Types and Functions
- ArcGIS Enterprise 10.6—PostgreSQL Spatial Types and Functions
- ArcGIS Enterprise 10.6—SAP HANA Spatial Types and Functions
- ArcGIS Enterprise 10.6—SQL Server Binary Schema
- ArcGIS Enterprise 10.6—SQLite Spatial Types and Functions
- ArcGIS Enterprise 10.6—Teradata Spatial Types and Functions
- ArcGIS Enterprise 10.5—Dameng Spatial Types and Functions
- ArcGIS Enterprise 10.5—DB2 Spatial Types and Functions
- ArcGIS Enterprise 10.5—Informix Spatial Types and Functions
- ArcGIS Enterprise 10.5—Netezza Spatial Types and Functions
- ArcGIS Enterprise 10.5—Oracle Binary Schema
- ArcGIS Enterprise 10.5—Oracle Spatial Types and Functions
- ArcGIS Enterprise 10.5—PostgreSQL Spatial Types and Functions
- ArcGIS Enterprise 10.5—SAP HANA Spatial Types and Functions
- ArcGIS Enterprise 10.5—SQL Server Binary Schema
- ArcGIS Enterprise 10.5—SQLite Spatial Types and Functions
- ArcGIS Enterprise 10.5—Teradata Spatial Types and Functions
- ArcGIS for Server 10.2—Oracle Binary Schema
- ArcGIS for Server 10.2—DB2 Spatial Types and Functions
- ArcGIS for Server 10.2—Informix Spatial Types and Functions
- ArcGIS for Server 10.2—Netezza Spatial Types and Functions
- ArcGIS for Server 10.2—Oracle Spatial Types and Functions

- ArcGIS for Server 10.2—PostgreSQL Spatial Types and Functions
- ArcGIS for Server 10.2—SQL Server Binary Schema
- ArcGIS for Server 10.2—SQLite Spatial Types and Functions
- ArcGIS for Server 10.2—Teradata Spatial Types and Functions
- ArcGIS for Server Enterprise (ArcSDE) 10.1—DB2
- ArcGIS for Server Enterprise (ArcSDE) 10.1—Informix
- ArcGIS for Server Enterprise (ArcSDE) 10.1—Oracle
- ArcGIS for Server Enterprise (ArcSDE) 10.1—PostgreSQL
- ArcGIS for Server Enterprise (ArcSDE) 10.1—SQL Server
- ArcGIS Server Enterprise (ArcSDE) 10.0—DB2
- ArcGIS Server Enterprise (ArcSDE) 10.0—Informix
- ArcGIS Server Enterprise (ArcSDE) 10.0—Oracle
- ArcGIS Server Enterprise (ArcSDE) 10.0—PostgreSQL
- ArcGIS Server Enterprise (ArcSDE) 10.0—SQL Server
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—DB2 Spatial Types and Functions
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Informix Spatial Types and Functions
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—Oracle Spatial Types and Functions
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—PostgreSQL Spatial Types and Functions
- ArcGIS Server Enterprise (ArcSDE) 9.3.1—SQL Server Binary Schema
- ArcGIS Server 9.3—DB2 Spatial Types and Functions
- ArcSDE 9.3—Informix Spatial Types and Functions
- ArcSDE 9.3—Oracle Binary Schema
- ArcSDE 9.3—Oracle Spatial Types and Functions
- ArcSDE 9.3—Postgres Spatial Types and Functions
- ArcSDE 9.3—SQL Server Binary Schema
- ArcGIS Server Enterprise 9.2—DB2 Spatial Types and Functions
- ArcGIS Server Enterprise 9.2—Informix Spatial Types and Functions
- ArcGIS Server Enterprise 9.2—Oracle Binary Schema
- ArcGIS Server Enterprise 9.2—Oracle Spatial Types and Functions
- ArcGIS Server Enterprise 9.2—SQL Binary Schema
- ArcGIS Server Enterprise 9.2—SQL Server Express Binary Schema
- ArcSDE 9.1—Informix Spatial Types and Functions
- ArcSDE 9.1—DB2 Spatial Types and Functions
- ArcSDE 9.1—Oracle Binary Schema
- ArcSDE 9.1—SQL Server Binary Schema
- ArcSDE 9.0—DB2 Spatial Types and Functions
- ArcSDE 9.0—Informix Spatial Types and Functions
- ArcSDE 9.0—Oracle Binary Schema
- ArcSDE 9.0—SQL Server Binary Schema
- ArcSDE 8.1—DB2 Spatial Types and Functions
- ArcSDE 8.1—Informix Spatial Types and Functions

- Spatial Data Engine for DB2 DataJoiner 3.0.2—DB2 Spatial Types and Functions
- Spatial Data Engine for Informix 3.0.2—Informix Spatial Types and Functions
- Spatial Data Engine for Oracle 3.0.2—Oracle Normalized Geometry

For information on OGC compliancy on Chinese language Esri products: <http://www.opengeospatial.org/resource/products/compliant>.

**Esri OGC
Implementing
Products**

Below is the list of Esri products that implement OGC standards for which there are no compliancy tests:

Catalogue Service Specification—Catalogue Service for the Web (CSW) 3.0

- Geoportal Server Catalog 2.6.2
- Geoportal Server 1.2.9
- Geoportal Server 1.2.8
- Geoportal Server 1.2.7

Catalogue Service Specification—Catalog Service for the Web (CSW) 2.0.2

- ArcGIS 10.3 for Desktop
- ArcGIS 10.2 for Desktop
- ArcGIS 10.1 for Desktop
- ArcGIS Desktop 10.0
- ArcGIS 9.3
- Geoportal Server Harvester 2.6.3
- Geoportal Server Harvester 2.5.0
- Esri Geoportal Server 1.2.6
- Esri Geoportal Server 1.2.5
- Esri Geoportal Server 1.2.4
- Esri Geoportal Server 1.2.2
- GIS Portal Toolkit 9.3
- GIS Portal Toolkit 3.1
- ArcGIS Explorer

CSW 2.0.2—ISO Metadata Application Profile 1.0.0

- ArcGIS Server Geoportal extension 10.0
- Esri Geoportal Server 1.2.6
- Esri Geoportal Server 1.2.5
- Esri Geoportal Server 1.2.4
- Esri Geoportal Server 1.2.2

CSW 2.0.1

- ArcGIS 10.1 for Desktop
- ArcGIS Desktop 10.0
- ArcGIS Server Geoportal extension 10.0

- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcIMS Metadata Server 9.0
- ArcGIS Explorer
- GIS Portal Toolkit 3.1
- GIS Portal Toolkit 2.0

Catalog Interface 1.1.1

- ArcGIS Server Geoportal extension 9.3.1
- GIS Portal Toolkit 9.3
- ArcIMS Metadata Server 9.0
- ArcIMS Metadata Server 4.0.1
- ArcIMS Metadata Server 4.0
- GIS Portal Toolkit 2.0

Catalog Interface 1.0

- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server Geoportal extension 9.3.1
- GIS Portal Toolkit 9.3
- ArcIMS Metadata Server 9.0
- ArcIMS Metadata Server 4.0.1
- ArcIMS Metadata Server 4.0
- GIS Portal Toolkit 3.1
- GIS Portal Toolkit 2.0.

CSW—Part 1: ebRIM Profile of CSW 1.0.0

- ArcGIS Server Geoportal extension 9.3.1
- GIS Portal Toolkit 9.3
- GIS Portal Toolkit 3.1

CSW—ebRIM Registry Service—Part 2: Basic Extension Package 1.0.0

- ArcGIS Server Geoportal extension 9.3.1
- GIS Portal Toolkit 9.3
- GIS Portal Toolkit 3.1

City Geography Markup Language (CityGML) Encoding Standard 1.0

- ArcGIS 10.4 for Desktop
- ArcGIS 10.3 Data Interoperability extension
- ArcGIS 10.2.2 Data Interoperability extension
- ArcGIS 10.2.1 Data Interoperability extension
- ArcGIS Data Interoperability 9.3 extension

Filter (Filter) Encoding Implementation Specification 2.0

- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server

- ArcGIS 10.3 for Server
- ArcGIS 10.3

Filter 1.1

- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- GIS Portal Toolkit 9.3
- GIS Portal Toolkit 3.1

Filter 1.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcGIS PRO 2.3
- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcGIS 9.2
- ArcIMS 9.1 SP1
- ArcIMS 9.1
- ArcIMS 4.0.1
- ArcIMS 4.0
- GIS Portal Toolkit 3.1

Geographic Markup Language (GML) Encoding Standard—with Corrigendum 3.2.2

- ArcMap 10.7

Geographic Markup Language (GML) Encoding Standard 3.2.1

- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.3 Data Interoperability extension
- ArcGIS 10.2 for Server
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1

GML Encoding Specification 3.1.1

- ArcGIS 10.3
- ArcGIS 10.2.2
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1

GML 3.1.1 Simple Feature Profile 1.0.0

- ArcGIS 10.3
- ArcGIS 10.2
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- ArcGIS 9.2

GML Encoding Specification 3.0

- ArcMap 10.7
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcIMS 9.1 SP1
- ArcIMS 9.1
- ArcGIS Data Interoperability 9.0 extension
- ArcIMS Data Delivery 9.0 extension

GML 2.1.2

- ArcMap 10.7
- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Desktop
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcIMS 9.1 SP1
- ArcIMS 9.1
- ArcGIS Data Interoperability 9.0 extension
- ArcIMS Data Delivery 9.0 extension
- ArcIMS 4.0.1
- ArcIMS 4.0

GML 2.1.1

- ArcMap 10.7
- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.4 Data Interoperability extension
- ArcGIS 10.3 Data Interoperability extension
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcIMS 9.1 SP1
- ArcIMS 9.1
- ArcGIS Data Interoperability 8.3 toolbar add-on
- ArcIMS 4.0.1
- ArcIMS 4.0

GeoPackage Encoding Standard – With Corrigendum 1.2.1

- ArcGIS PRO 2.3
- ArcMap 10.7
- ArcMap 10.6

GeoPackage Encoding Standard 1.2

- ArcGIS Enterprise 10.7
- ArcMap 10.6

GeoPackage Encoding Standard 1.1

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcMap 10.6
- ArcGIS Desktop 10.6.1
- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4

GeoPackage—with Corrigendum 1.0.1

- ArcMap 10.7
- ArcMap 10.6
- ArcGIS PRO 2.3
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4
- ArcGIS Desktop 10.6.1
- ArcGIS Desktop 10.5
- ArcGIS for Desktop 10.4

GeoPackage 1.00

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcMap 10.6
- ArcMap 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.4 for Desktop
- ArcGIS Runtime
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Desktop
- ArcGIS 10.2.1 for Desktop

GeoPackage Extension for Tiled Gridded Coverage Data 1.0

- ArcGIS Desktop 10.6.1
- ArcGIS PRO 2.2

GeoRSS, Introduction 1.0.0

- Esri Geoportal Server 1.2.6
- Esri Geoportal Server 1.2.5
- Esri Geoportal Server 1.2.4
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server Geoportal extension 9.3.1
- GIS Portal Toolkit 9.3

Indexed 3d Scene Layer (I3S) and Scene Layer Package Formal Specification 1.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS PRO 2.3

KML 2.3.1.0

- ArcGIS 10.4 for Desktop
- ArcGIS Online 5.4
- ArcGIS PRO 2.3

KML 2.2.0

- ArcMap 10.7
- ArcGIS Enterprise 10.6
- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.0
- ArcMap 10.6
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS Online
- Portal 10.3 for ArcGIS
- Portal 10.2 for ArcGIS
- ArcGIS 10.3 Data Interoperability extension
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server 10.0
- Esri Geoportal Server 1.2.6
- Esri Geoportal Server 1.2.5
- Esri Geoportal Server 1.2.4
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- GIS Portal Toolkit 9.3

KML 2.1 Reference—An OGC Best Practice 2.1.0

- ArcGIS PRO 2.3
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2
- Portal 10.3 for ArcGIS
- Portal 10.2 for ArcGIS
- ArcGIS Online 5.4
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- GIS Portal Toolkit 9.3

Location Services (OpenLS) Implementation Specification—Core Services 1.1

- ArcIMS 9.1
- ArcIMS 9.0
- ArcWebSM Services 2006

OpenLS Core Services (Parts 1–5) 1.0

- ArcIMS 9.1
- ArcIMS 9.0
- ArcWeb Services 2006

OpenLS Core Services (Part 1: Directory Service) 1.0

- ArcIMS 9.1
- ArcIMS 9.0
- ArcWeb Services 2006

OpenLS Core Services (Part 2: Gateway Service) 1.0

- ArcWeb Services 2006

OpenLS Core Services (Part 3: Location Utility Service) 1.0

- ArcIMS 9.1
- ArcIMS 9.0
- ArcWeb Services 2006

OpenLS Core Services (Part 4: Presentation Service) 1.0

- ArcIMS 9.1
- ArcIMS 9.0
- ArcWeb Services 2006

OpenLS Core Services (Part 5: Route Service) 1.0

- ArcIMS 9.1
- ArcIMS 9.0
- ArcWeb Services 2006

PDF Geo-registration Encoding Best Practices Version 2.2.1.1

- ArcGIS PRO 2.2

SFS Access 1.1

- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2 for Server
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1

SFS—OLE/COM 1.1

- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1

SFS—SQL Binary Geometry 1.1

- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server 9.3 SP1

SF—SQL Types and Functions 1.1

- ArcGIS 10.1 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3 SP1

SF—SQL Normalized Geometry 1.1

- ArcGIS Server 9.3 SP1

Sensor Observation Service (SOS) 1.0.0

- ArcGIS 10.3 for Server
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server

Styled Layer Descriptor (SLD) Implementation Specification 1.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcGIS PRO 2.3
- ArcGIS 10.4 for Server
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server

- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.3
- ArcGIS 10.2
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcGIS 9.2
- ArcIMS 9.1 SP1
- ArcIMS 9.1
- ArcIMS 4.0.1
- ArcIMS 4.0
- GIS Portal Toolkit 3.1

Web Map Context (Context) Implementation Specification 1.1

- ArcGIS 10.2.2
- ArcGIS 10.2.1

Web Map Context Document 1.0

- ArcExplorer Web
- ArcGIS 9.3
- GIS Portal Toolkit 2.0

Web Coverage Interface Standard (WCS) 2.0.1

- ArcGIS 10.3 for Server

WCS 2.0 Interface Standard—Core: Corrigendum 2.0.1

- ArcMap 10.7
- ArcGIS 10.4 for Desktop

WCS Implementation Standard 1.1.2

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcGIS Desktop 10.6.1
- ArcGIS PRO 2.0
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop

WCS Corrigendum 1.1.1.1

- ArcMap 10.7
- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.0
- ArcGIS Desktop 10.6.1
- ArcGIS 10.4 for Server
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- GIS Portal Toolkit 3.1

WCS 1.1.0

- ArcGIS 10.3
- ArcGIS 10.2
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS 10.3 for Server
- ArcGIS 10.2 for Server
- ArcGIS Server 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3

WCS Corrigendum 1.0.0

- ArcMap 10.7
- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.0
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Desktop

- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.3 for Server
- ArcGIS 10.2.2
- ArcGIS 10.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcGIS 9.0
- ArcGIS Server 9.0
- GIS Portal Toolkit 3.1
- GIS Portal Toolkit 2.0

Web Feature Service (WFS) Interface Standard 2.0 (also ISO 19142)

- ArcMap 10.7
- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS Desktop 10.6
- ArcMap 10.6
- ArcGIS 10.4 for Server
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3
- ArcGIS Online 5.4

WFS (Basic) 2.0

- ArcGIS Enterprise 10.6
- ArcGIS PRO 2.1

WFS 2.0 Interface Standard- with Corrigendum 2.0.2

- ArcGIS Desktop 10.6.1

WFS Implementation Specification 1.1.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcMap 10.6

- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1
- ArcGIS 10.1 for Server
- ArcGIS 10.0
- ArcGIS Server 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcIMS 4.0.1
- ArcIMS 4.0
- GIS Portal Toolkit 3.1
- ArcGIS Online 5.4

WFS Implementation Specification (Transactional) (WFS-T) 1.1.0

- ArcGIS Enterprise 10.6
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.2 for Server
- ArcGIS Server 10.0

WFS-T 1.0.0

- ArcGIS Enterprise 10.6
- ArcGIS PRO 2.1
- ArcGIS 10.3 for Server

- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server
- ArcGIS Server 10.0

WFS 1.0.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcGIS PRO 2.3
- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.6
- ArcMap 10.6
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.3 for Server
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcGIS 9.2
- ArcIMS 9.1
- ArcGIS Data Interoperability 9.0 extension
- ArcIMS Data Delivery 9.0 extension
- ArcGIS Data Interoperability 8.3 toolbar add-on
- ArcIMS 4.0
- GIS Portal Toolkit 3.1
- GIS Portal Toolkit 2.0
- ArcGIS Online 5.4

Web Map Service (WMS) Implementation Specification 1.3.0

- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4
- ArcGIS Desktop 10.6.1
- ArcMap 10.6

- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS Online 5.4
- ArcGIS Runtime
- ArcGIS API for JavaScript
- Portal 10.3 for ArcGIS
- Portal 10.2 for ArcGIS
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1
- ArcGIS 10.2.1 for Server
- ArcGIS 10.1
- ArcGIS 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcGIS 9.2
- Esri Geoportal Server 1.2.6
- Esri Geoportal Server 1.2.5
- Esri Geoportal Server 1.2.4
- ArcGIS Server Geoportal extension 9.3.1
- GIS Portal Toolkit 3.1
- ArcGIS Explorer

WMS Client Implementation Specification 1.3.0

- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.6
- ArcGIS 10.3 for Desktop
- ArcGIS Online 5.4

WMS 1.1.1

- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4
- ArcGIS Desktop 10.6.1
- ArcMap 10.6
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server

- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Desktop
- ArcGIS 10.2.1 for Server
- ArcGIS Online 5.4
- ArcGIS Runtime
- ArcGIS API for JavaScript
- Portal 10.3 for ArcGIS
- Portal 10.2 for ArcGIS
- ArcGIS 10.2.1 for Desktop
- ArcGIS 10.2 for Server
- ArcGIS 10.1.1 for Desktop
- ArcGIS Desktop 10.0
- ArcGIS Server Geoportal extension 10.0
- ArcGIS Server 9.3.1
- ArcGIS Server Geoportal extension 9.3.1
- ArcGIS Server 9.3 SP1
- ArcGIS 9.3
- GIS Portal Toolkit 9.3
- ArcGIS 9.2
- ArcIMS 9.1 SP1
- ArcGIS 9.0
- ArcExplorer Web
- ArcGIS Explorer
- ArcIMS 4.0.1
- ArcIMS 4.0
- GIS Portal Toolkit 3.1
- GIS Portal Toolkit 2.0

WMS 1.1

- ArcGIS Enterprise 10.7
- ArcGIS PRO 2.2
- ArcGIS PRO 2.1
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.6
- ArcMap 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Desktop
- ArcGIS Online 5.4
- ArcGIS Runtime
- ArcGIS API for JavaScript

- Portal 10.3 for ArcGIS
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Desktop
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1
- ArcIMS 9.0
- ArcExplorer Web
- ArcGIS Explorer
- ArcGIS Data Interoperability 8.3 toolbar add-on
- ArcIMS 4.0.1
- ArcIMS 4.0
- GIS Portal Toolkit 2.0

WMS 1.0

- ArcGIS Enterprise 10.7
- ArcGIS PRO 2.2
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.6
- ArcMap 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS Runtime
- ArcGIS API for JavaScript
- ArcGIS 10.2.2 for Desktop
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Desktop
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS Server 9.3.1
- ArcGIS Server 9.3 SP1
- ArcIMS 9.0
- ArcExplorer Web
- ArcGIS Explorer
- ArcIMS 4.0
- ArcIMS 3.0
- GIS Portal Toolkit 2.0
- ArcGIS Online 5.4

Web Map Tile Service (WMTS) Implementation Standard 1.0.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcMap 10.6
- ArcGIS PRO 2.3
- ArcGIS PRO 2.1
- ArcGIS PRO 2.2
- ArcGIS PRO 2.0
- ArcGIS PRO 1.4
- ArcGIS Desktop 10.6.1
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Server
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS Online 5.4
- ArcGIS Runtime
- ArcGIS API for JavaScript
- Portal 10.3 for ArcGIS
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Desktop
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Desktop
- ArcGIS 10.1 for Server

Web Processing Service (WPS) 1.0.0

- ArcGIS Enterprise 10.7
- ArcMap 10.7
- ArcGIS Enterprise 10.6
- ArcGIS Enterprise 10.5
- ArcGIS 10.4 for Desktop
- ArcGIS 10.3.1 for Server
- ArcGIS 10.3 for Server
- ArcGIS 10.3 for Desktop
- ArcGIS 10.2.2 for Server
- ArcGIS 10.2.1 for Server
- ArcGIS 10.2 for Server
- ArcGIS 10.1 for Server

**Additional
Resources**

Esri: [esri.com](https://www.esri.com)

Esri's Open Vision: [esri.com/software/open](https://www.esri.com/software/open)



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