

# Open Geospatial Consortium (OGC) Specifications

Web Service	Name	Current Specification	Last Revision	Document ID	Described Operations	Mandatory Operation	TNT Support
WMS	Web Map Service	1.3.0 ISO 19128:2005	15 Mar 06	06-042	GetCapabilities GetMap GetFeatureInfo	Yes	2006:72
						Yes	2006:72
SLD	Styled Layer Descriptor	1.1.0	29 Jun 07	05-078r4	DescribeLayer GetLegendGraphic GetStyles PutStyles	No	2006:72
						Yes	13747**
						No	13747
						No	13747
**MicroImages New Feature Request Number							13747
WFS	Web Feature Service	1.1 ISO 19142 (30.60)	3 May 05	04-094	GetCapabilities DescribeFeatureType GetFeature GetGmlObject Transaction LockFeature GetFeatureWithLock	Yes	2007:73
						Yes	2007:73
						Yes	2007:73
						No	2007:73
						No	7739
						No	7739
WCTS	Web Coordinate Transformation Service	0.4.0 *	8 Oct 07	07-055r1	GetCapabilities Transform IsTransformable GetTransformation DescribeTransformation DescribeCRS DescribeMethod	Yes	2006:72
						Yes	2006:72
						No	2006:72
						No	14153
						No	14153
						No	2006:72
* Caution! Specifications less than 1.0 are only proposed, not approved.							14153
WTS	Web Terrain Service	0.5.0 *	7 Nov 03 +	03-081r2	GetCapabilities GetView	Yes	7741
						Yes	7741
WCS	Web Coverage Service	1.1.2	19 Mar 08	07-067r5	GetCapabilities DescribeCoverage GetCoverage	Yes	7742
						Yes	7742
						Yes	7742
W3DS	Web 3D Service	0.3.0 *	2 Feb 05	05-019	GetCapabilities GetScene	Yes	14158
						Yes	14158
WPS	Web Processing Service	1.0.0	8 Jun 07	05-007r7	GetCapabilities DescribeProcess Execute	Yes	7740
						Yes	7740
						Yes	7740
WICS	Web Image Classification Service	0.3.3 *	8 Feb 05	05-017	GetCapabilities GetClassification TrainClassifier DescribeClassifier	Yes	7747
						Yes	7747
						No	7747
						Yes	7747
WNS	Web Notification Service	0.0.9 *	18 Nov 06	06-095	GetCapabilities RegisterUser DoNotification DoCommunications DoReply	Yes	14155
						Yes	14155
						Yes	14155
						No	14155
						No	14155
+ Caution! Proposed specification last revised in 2003 or before may indicate lack of interest.							
CSW	Catalog Services for the Web	2.0.2	23 Feb 07	07-006r1	GetCapabilities DescribeRecord GetDomain GetRecords GetRecordByld Harvest Records Transaction	Yes	8070
						Yes	8070
						No	8070
						Yes	8070
						No	8070
						No	8070
						No	8070
FPS	Feature Portrayal Service	0.0.30*	12 Sep 05	05-110	GetCapabilities GetPortrayal	Yes	14156
						Yes	14156

**OGC Specifications not covered in detail:**

WOS	Web Object Service	0.0.3 *	15 Jan 03+	03-013	No
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Web Service	Described Operations	Operation Description	Coordinating Editor
WMS  SLD	GetCapabilities GetMap  GetFeatureInfo DescribeLayer  GetLegend GetStyles PutStyles	Obtain metadata of the available list of layers and CRSs supported Retrieve an image consisting of one or more layers defined by a CRS and a bounding box Return information about the layers given a single reference point  Describe the layers requested, mainly to determine if the 'layer' comes from a WFS or a WCS Generates a legend graphic based on the layer and parameters sent Retrieve user defined styles from a WMS Store user defined styles into a WMS	Jeff de La Beaujardiere NASA Goddard Space Flight Center delabeau@iniki.gsfc.nasa.gov  William Lalonde CubeWerx, Inc.
WFS	GetCapabilities  DescribeFeatureType GetFeature  GetGmlObject  Transaction  LockFeature  GetFeatureWithLock	Obtain metadata of the available list of feature types, layers and database tables and operations supported Return XMLSchema describing the specific feature type requested Retrieve the features requested in the format specified by the "DescribeFeatureType" operation Retrieve element instances by traversing XLinks that refer to their XML IDs Operation to modify features using primitives create, update and delete Operation to lock features of a feature type. Supports serialized transactions. Retrieve and lock the features requested in the format specified by the "DescribeFeatureType" operation	Panagiotis A. Vretanos CubeWerx, Inc. pvretano@cubewerx.com
WCTS	GetCapabilities  Transform IsTransformable  GetTransformation  DescribeTransformation DescribeCRS DescribeMethod	Obtain metadata of the available operations, CRSs and transformations Perform transformations between the Source CRS to the Target CRS Query the WCTS server as to the possibility of the specified transform on the requested data Retrieve the definition of the transformation(s) from one CRS to another Retrieve the definitions of one or more identified coordinate operations Retrieve the definitions of one or more identified CRSs Retrieve the definitions of one or more identified operations method, primarily for user defined CRSs	Arliss Whiteside BAE Systems Arliss.Whiteside@baesystems.com  Frank Warmerdam DM Solutions Group warmerdam@pobox.com
WTS	GetCapabilities GetView	Obtain metadata of the available layers and terrains Generate an image based on the point of view of the observer, layers and the terrain selected	Joshua Lieberman Syncline.com jlieberman@syncline.com
WCS	GetCapabilities DescribeCoverage GetCoverage	Obtain metadata of the available coverages (layers) Return a full description of one or more coverages (layers) Returns a coverage (raster data) in a well known format	John D. Evans NASA / GST, Inc. jdevans@gst.com
W3DS	GetCapabilities GetScene	Obtain metadata of the available scenes (layers) Return a 3D scene graph of the specified geographical area	Udo Quadt, Institute for Cartography and Geoinformation University of Bonn quadt@ikg.uni-bonn.de
WPS	GetCapabilities DescribeProcess  Execute	Obtain metadata of the available data manipulation processes Retrieve the input / output types and the parameter descriptions needed to perform the process requested Execute the process given the input data and the necessary parameters	Peter Schut Agriculture and Agri-Food Canada schutp@agr.gc.ca
WICS	GetCapabilities GetClassification TrainClassifier  DescribeClassifier	Obtain metadata of the available classifiers and type of classifiers Return an image based on a set of images and a specified classifier Select a classifier and send training data and return training parameters Receive detailed information about the selected classifier	Arliss Whiteside BAE Systems Arliss.Whiteside@baesystems.com
WNS			Ingo Simonis, Univ. of Muenster simonis@uni-muenster.de
CSW	GetCapabilities DescribeRecord GetDomain  GetRecords GetRecordByld  HarvestRecords  Transaction	Obtain metadata about how to retrieve catalog data Allow client to discover elements of the information model Obtain runtime information about the range of values of a property or request parameter Resource discovery by means of the operations 'search' and 'present' Retrieve the default representation of catalog records using their identifier Update catalog by 'harvesting' catalog information from other OGC Web Services Interface for creating, modifying and deleting catalog records	Doug Nebert U.S. Federal Geographic Data Committee ddnebert@usgs.gov
FPS	GetCapabilities GetPortrayal	Obtain metadata of the available formats and operations supported Retrieve styled feature data from a WFS or WCS in a map-like image	Arliss Whiteside (see WICS) Bill Woodward ObjectFX Corporation