

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	06-024	GetCapabilities GetMap GetFeatureInfo	Yes Yes No	Yes Yes Yes
SLD	Styled Layer Descriptors Addendum for WMS 1.1.1 only	1.0.0	19 Sep 02	02-070	DescribeLayer GetLegendGraphic GetStyles PutStyles	Yes No No No	No No No No
WFS	Web Feature Service	1.1 ISO 19142 (20.00)	3 May 05	04-094	GetCapabilities DescribeFeatureType GetFeature GetGmlObject Transaction	Yes Yes Yes No No	7738** 7738 7738 No 7739
WCTS	Web Coordinate Transformation Service	0.3.0 *	13 Apr 05	05-013	GetCapabilities Transform IsTransformable GetTransformation DescribeTransformation DescribeCRS DescribeMethod	Yes Yes No No No No No	Yes Yes Yes No No Yes No
* Caution! Specifications less than 1.0 are only proposed, not approved.							
WTS	Web Terrain Service	0.5.0 *	7 Nov 03 +	03-081r2	GetCapabilities GetView	Yes Yes	7741 7741
WCS	Web Coverage Service	1.0.0 Corrigendum (IS)	14 Oct 05	05-076	GetCapabilities DescribeCoverage GetCoverage	Yes Yes Yes	7742 7742 7742
W3DS	Web 3D Service	0.3.0 *	2 Feb 05	05-019	GetCapabilities GetScene	Yes Yes	No No
WOS	Web Object Service	0.0.3 *	15 Jan 03 +	03-013	GetCapabilities DescribeObjectType GetObjectByID GetObject GetObjectWithLock LockObject Transaction	Yes Yes ? ? ? ? ?	No No No No No No No
+ Caution! Proposed specification last revised in 2003 or before may indicate lack of interest.							
WPS	Web Processing Service	0.4.0 *	16 Sep 05	05-007r4	GetCapabilities DescribeProcess Execute	Yes Yes Yes	7740 7740 7740
WICS	Web Image Classification Service	0.3.3*	8 Feb 05	05-017	GetCapabilities GetClassification TrainClassifier DescribeClassifier	Yes Yes No Yes	7747 7747 7747 7747
WNS	Web Notification Service	0.1.0*	21 Apr 03 +	03-008r2	GetCapabilities RegisterUser DoNotification DoCommunications DoReply	Yes Yes Yes No No	No No No No No
CSW	Catalog Services for the Web	2.0.0	2 Aug 04	04-021r2	GetCapabilities DescribeRecord GetDomain GetRecords GetRecordByld Harvest Records Transaction	Yes Yes No Yes No No No	8070 8070 8070 8070 8070 8070 8070
		**MicroImages New Feature Request Number					

Web Service	Described Operations	Operation Description	Coordinating Editor
WMS	GetCapabilities GetMap	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	Jeff de La Beaujardiere NASA Goddard Space Flight Center delabeau@iniki.gsfc.nasa.gov
SLD	GetFeatureInfo DescribeLayer GetLegend GetStyles PutStyles	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	William Lalonde CubeWerx, Inc.
WFS	GetCapabilities DescribeFeatureType GetFeature GetGmlObject Transaction	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 feature 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	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 image or geometric elements) 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
WOS			Panagiotis A. Vretanos CubeWerx, Inc. pvretano@cubewerx.com
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