



OGC Activities of Interest to IOOS Regional Associations

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Agenda



- Brief Introduction of OGC
- OGC Activities that IOOS-RA should be aware of
- Compliance Program

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- **Brief Introduction of OGC**
- OGC Activities that IOOS-RA should be aware of
- Compliance Program

Open Geospatial Consortium (OGC)



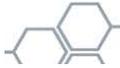
To serve as a **global forum** for
and lead the development,
promotion and **harmonization** of
open and freely available
geospatial standards.

OGC at a Glance (20110331)



- Founded in 1994, not for profit, consensus based and voluntary
- Over 420 member organizations (industry, government, academia) (January 2011) <http://www.opengeospatial.org/ogc/members>
- 19 staff members
- 35+ adopted OGC Standards (some are ISO Standards) <http://www.opengeospatial.org/standards>
- 40+ Interoperability Program initiatives since 1999.
- Several hundred software products, implementing OGC Standards <http://www.opengeospatial.org/resource/products>
- Broad user community worldwide, many policy positions for NSDI based on OGC standards
- Cooperation with other standards organizations and foundations, e.g. CEN/TC 287, ISO/TC 211, OSGeo and others <http://www.opengeospatial.org/ogc/alliancepartners>

OGC from an Organizational Perspective



Agenda



- Brief Introduction of OGC
- **OGC Activities that IOOS-RA should be aware of**
- Compliance Program

Standards Tracking at OGC Network



- <http://www.ogcnetwork.net/node/1586>

Document	Charter	Number	RFC/Fasttrack	OAB/TC	Public comment	SWG or TC App. Vote	TC Adoption Vote end	PC Vote end	Posted	Notes
Catalogue 3.0	3/10/2008									
CF-NetCDF Candidate standard	10/8/2009	10-090, 10-091, 10-092	10/18/09	07/15/10	09/08/10	11/05/10	01/04/11	1/18/11	4/5/2011	v 1 Approved
CityGML 2.0	11/11/2009									
ebRIM Application Profile of CSW 2.0	3/26/2010									
ebXML RegRep 1.0	11/26/2008									
EO Satellite Tasking Extension for Sensor Planning Service (SPS)	NA	10-135	06/01/10	08/12/10	09/16/10	12/10/10	3/4/11	4/8/11		v 1 approved
Earth Observation Metadata model based on O&M	NA	10-057		3/23/11						
Earth Observation Discovery model for ebRIM catalogues		10-189								
Filter 2.0 (ISO 19143)	NA	09-026r1	NA	02/15/09			08/23/10	09/05/10	11/22/10	ISO Published 10/15/2010

SWE specification framework - 2.0



- Article that provides a review of SWE 2.0
 - Link: <http://www.mdpi.com/1424-8220/11/3/2652/>
 - An analysis of the changes between SWE 1.0 and SWE 2.0
 - A description of related work on Sensor Web research (e.g. A comparison to the 'Web of Things')
 - A list of past/on-going projects utilizing SWE
 - Challenges as well as future work on SWE

SWE Service Model Implementation Standard



1) Overview

This standard currently defines eight packages with data types for common use across OGC Sensor Web Enablement (SWE) services. Five of these packages define operation request and response types. The packages are: 1.) Contents – Defines data types that can be used in specific services that provide (access to) sensors; 2.) Notification – Defines the data types that support provision of metadata about the notification capabilities of a service as well as the definition and encoding of SWES events; 3.) Common - Defines data types common to other packages; 4.) Common Codes – Defines commonly used lists of codes with special semantics; 5.) DescribeSensor – Defines the request and response types of an operation used to retrieve metadata about a given sensor; 6.) UpdateSensorDescription – Defines the request and response types of an operation used to modify the description of a given sensor; 7.) InsertSensor – Defines the request and response types of an operation used to insert a new sensor instance at a service; 8.) DeleteSensor – Defines the request and response types of an operation used to remove a sensor from a service. These packages use data types specified in other standards. Those data types are normatively referenced herein, instead of being repeated in this standard.

2) Downloads

Version	Document Title (click to download)	Document #	Type
2.0	OpenGIS® SWE Service Model Implementation Standard	09-001	IS

PC voted 1/21/11

<http://www.opengeospatial.org/standards/swes>

SWE Common 2.0 is a standard !



- Sensor Web Enablement (SWE) Common Service Model Interface Standard Version 2.0 - The OGC SWE Common Encoding Standard provides a standard model (and XML implementation of the model) for the representation, nature, structure and encoding of sensor related data. It is used for describing static data (files) as well as dynamically generated datasets (on-the-fly processing), real-time streaming data, and process and web service inputs and outputs.
- <http://www.opengeospatial.org/standards/swecommon>

netCDF is an OGC standard !



1) Overview

This document specifies the network Common Data Form (netCDF) core standard and extension mechanisms. The OGC netCDF encoding supports electronic encoding of geospatial data, specifically digital geospatial information representing space and time-varying phenomena. NetCDF is a data model for array-oriented scientific data. A freely distributed collection of access libraries implementing support for that data model, and a machine-independent format are available. Together, the interfaces, libraries, and format support the creation, access, and sharing of multi-dimensional scientific data.

2) Downloads

Version	Document Title (click to download)	Document #	Type
1.0	OGC Network Common Data Form (NetCDF) Core Encoding Standard version 1.0	10-090r3	IS
	NetCDF Binary Encoding Extension Standard: NetCDF Classic and 64-bit Offset Format (1.0)	10-092r3	ISx
	CF-netCDF Core and Extensions Primer	10-091r3	Primer

XML for O&M v 2.0 is a standard



- XML for Observations & Measurements 2.0

SOS 2.0 - in progress



- Addressed public comments Jan-Feb 2011. Fixing the document accordingly
- Tutorial here:
http://www.ogcnetwork.net/sos_2_0/tutorial/capabilities

SensorML 2.0 Standard Working Group (SWG) energized



- Started meeting again in March.
- Join the SWG or provide feedback !
- Discussing issues in issues tracker:
- https://portal.opengeospatial.org/?m=projects&a=view&project_id=286&tab=5

Sensor Model Language (SensorML) 2.0 SWG

Sensor Model Language (SensorML) 2.0 SWG

[Return to List](#)

General | [Contacts](#) | [Files](#) | [Tasks](#) | [Actions](#) | **Issue Tracker**

[View Issues Table](#) | [Report New Issue](#) | [Issue Tracker Settings](#) | Turn on global project watch

Category: CR
Discussion
Functional

Type: undefined

Status: Open
accepted
accepted - closed
closed
rejected

Priority: Normal
high

Entered By: Botts, Mike
Cox, Simon

Assigned To: Botts, Mike
Robin, Alexandre

Show Complete (include responses):

Resources Needed contains:

Related to Issue #:

Clear Filter

Apply Filter

Text Search: In Title In Details In Show 20 per page

Showing Records: 0-17 of 17

ID	Title	Category	Status	Priority	Reporter	Assigned	Created	Last Update	Closed	Related
549	Add definition attribute to Event	Functional	accepted	Normal	Botts, Mike		2010-07-15 13:23:51	N/A	N/A	
497	Use XPath for Connection Links	CR	rejected - closed	Normal	Botts, Mike		2010-03-08 09:58:44	2010-09-22 03:42:54	N/A	
454	Require uniqueID	Functional	accepted	Normal	Botts, Mike		2009-12-10 15:18:17	2010-09-21 15:45:18	N/A	
446	Support real-time streaming	Functional	accepted	Normal	Botts, Mike	Botts, Mike	2009-12-09	N/A	N/A	

New WaterML 2.0 SWG



- New Working group was formed in March 2011
- <http://www.opengeospatial.org/projects/groups/waterml2.0swg>
- WaterML 2.0 is implemented as an application schema of the Geography Markup Language (GML) version 3.2.1 and makes use of the OGC Observations and Measurements (O&M) standard and the O&M eXtensible Markup Language (OMXML) GML Application Schema. OGC WaterML 2.0 will support encoding of hydrological and hydrogeological observation data in a variety of exchange scenarios.

Pub Sub SWG



- Pub Sub SWG created in November 2010
- Pull or Push ?
- Common Publish/Subscribe Patterns within OGC services
- <http://www.opengeospatial.org/projects/groups/pubsubswg>

PUCK 1.0 SWG



- <http://www.opengeospatial.org/projects/groups/puck1.0swg>
- Standards such as OGC SWE and IEEE 1451 strive to integrate diverse instruments into networks with minimal human effort and high reliability. Use of these standards requires several software components that must be installed on the instrument network, including instrument "drivers", web servers, and metadata documents that describe instruments in a standard way.

OGC KML SWG will start working soon



- Change Request piling up.
- <http://www.opengeospatial.org/standards/cr>

	Inconsistent use of Snippet vs snippet in KML documents	10-193
	KML Change Request: Correct latitude & longitude bounds & defaults	10-108
	Refine Granularity of Timestamps	10-112
	Add date type to list of SimpleField types	11-002
	decimal fraction separator specification	11-003
	Extended metadata needed for KML ExtendedData Schema elements	11-001

OpenSearch interface for Catalogs



- OpenSearch will be available in CSW 3.0.
- <http://www.ogcnetwork.net/node/398>

The screenshot shows the OGC Network website. The header includes the OGC logo with the tagline "Making location count.", the "NETWORK" logo, and navigation links for "OGC Home", "OGC Network", and "OGC Forum". A blue navigation bar contains links for "networks", "domains", "services", "infomodels", "learn", "servicelist", and "help", along with a search box. The main content area is divided into two columns. The left column has a "User login" section with a form for "Username" and "Password", a "Log in" button, and links for "Create new account" and "Request new password". Below this is an "ogc news" section with a list of recent announcements. The right column shows the breadcrumb "Home » Interest Domains » 2008 OGC Geospatial Search Meeting - background and readings", followed by a "Reference Materials" section with a "Table of contents" and several blue hyperlinks: "Introduction", "General References", "ISO/IEC 13249-3:2006", "OASIS WS-Search Technical Committee documents", "OASIS Registry related activities", "Open Geospatial Consortium", and "Opensearch and Opensearch Geo extension proposal".

GEOSS Pilot



- http://www.earthobservations.org/geoss_call_aip.shtml
- AIP-4 will improve access to the GEOSS datasets that have been identified as supporting critical Earth observation priorities by the GEO User Interface Committee. The goals of AIP-4 are to:
 - Increase on-line access to “Critical EO Priorities Data Sources”;
 - Ensure that datasets are discoverable through the GEOSS Common Infrastructure; and
 - Demonstrate effectiveness of general and specialized software tools for using data.
- Responses to this CFP are requested by **6 May 2011**

OGC Water Information Services Concept Development (11-013)



- Objective: Advance CUAHSI research results towards consensus adoption via OGC Interoperability Program
- Working with CUAHSI, OGC
 - Conducted a Concept Development study on the application of OGC Web Services to the domain of Water Information
 - Produced an Engineering Report (ER) for presentation to the OGC Specification Program as the basis for an OGC Best Practice.
- Concept Development results as the basis for an international OGC Pilot.
- Publicly available in May 2011.
- Link:
http://portal.opengeospatial.org/files/?artifact_id=43622&version=1

OWS-8 Portrayal Registry

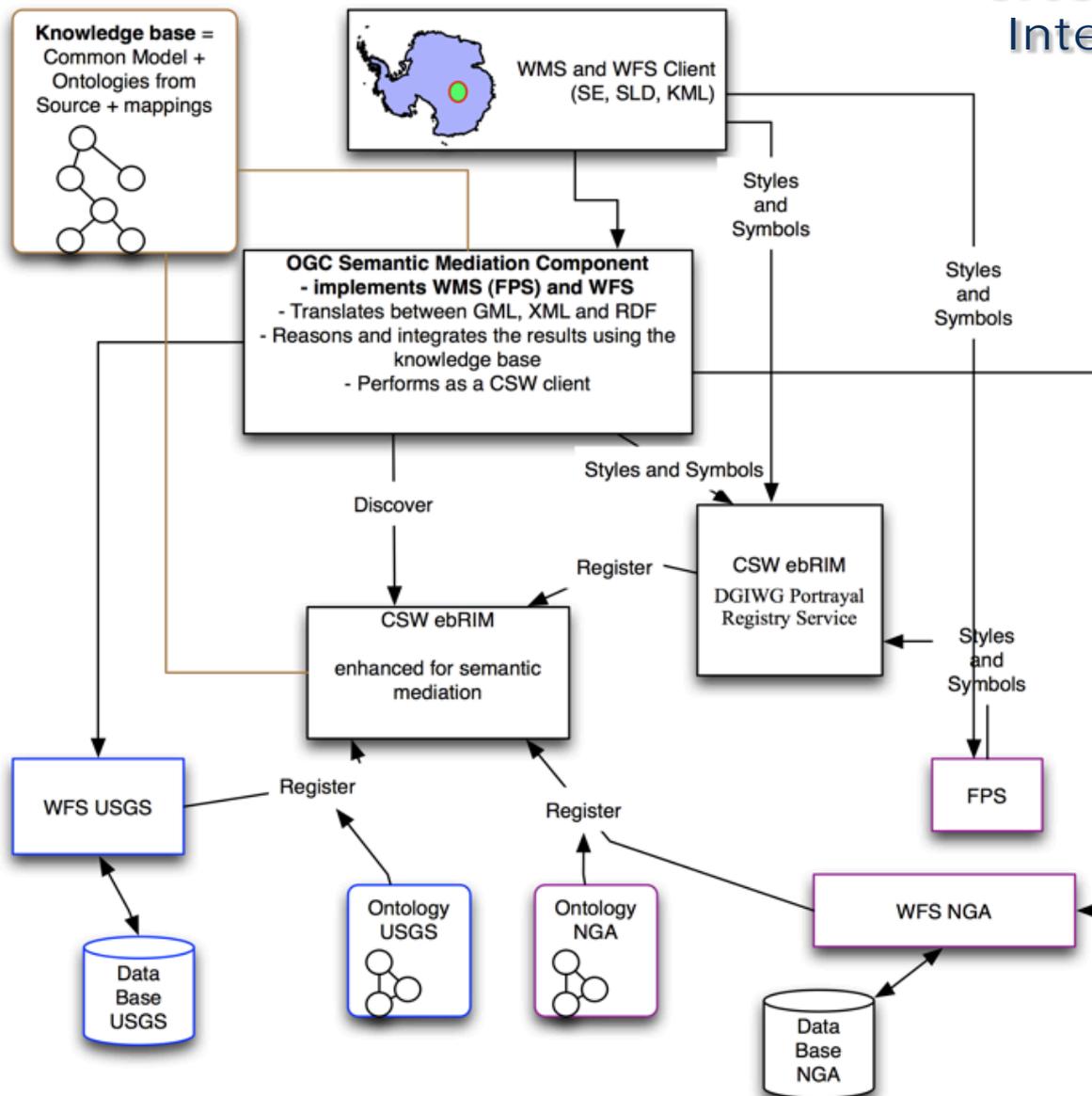


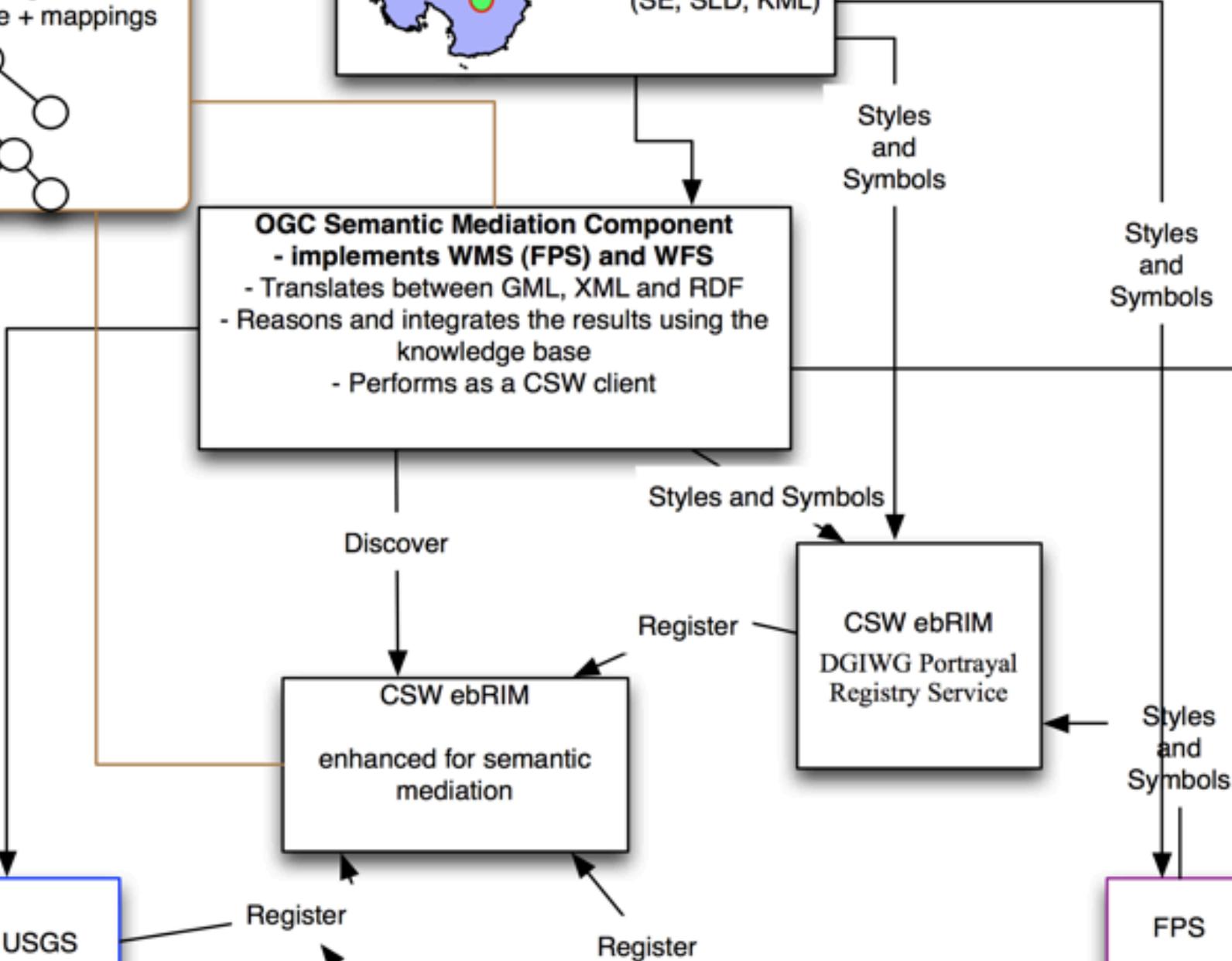
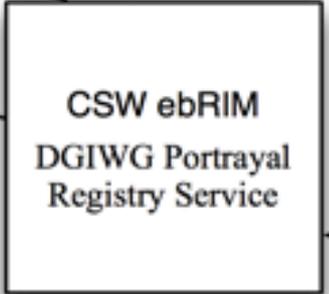
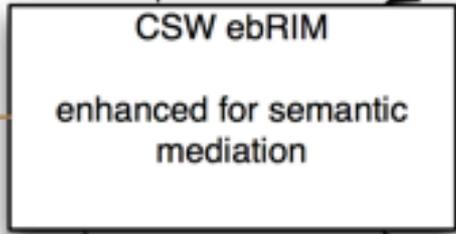
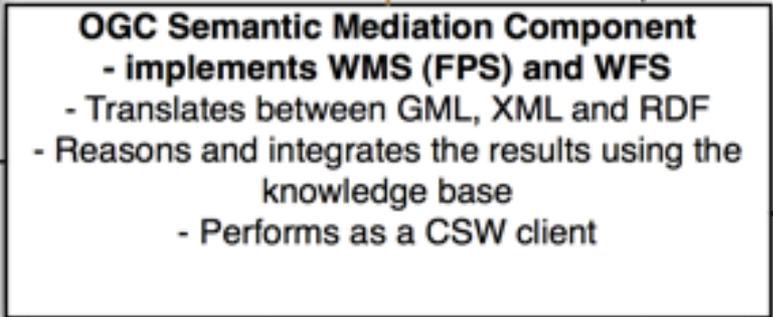
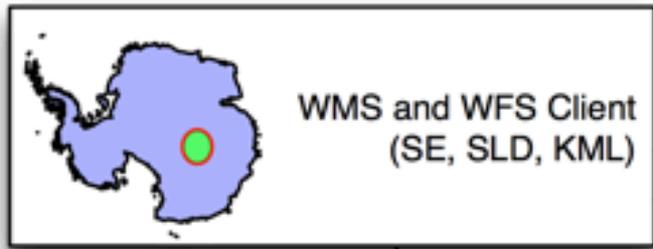
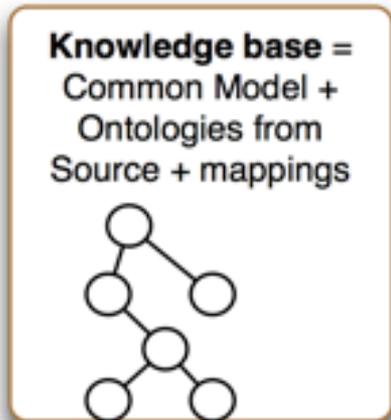
- Will help how to better display data and share the rules and symbology
- From RFQ: Develop a CSW ebRIM Profile for Portrayal Registry
 - The DGIWG Portrayal Registry is a repository of symbols and portrayal rules that link symbols to features. OGC Symbology Encoding (SE) is the standard XML encoding for these portrayal rules and symbols. The DGIWG Portrayal Registry will be able to provide a Symbology Encoding (SE) document for rules and symbolizers for a symbol set.

Semantic Mediation at OWS-8



Cross Community
Interoperability
Thread





Other Activities



- ???

Next Steps of OGC Activities



- If you are an OGC member join the groups that interest you
- If something bothers you from any OGC standard submit a change request
<http://www.opengeospatial.org/standards/cr>
- Respond and plan to participate in the GEOSS AIP 4
- Create a JSON SweCommon or JSON O&M WG
- Join the linkedin OGC group
- Attend an OGC meeting to learn more about OGC and network.
 - Taiwan June 2011
 - Boulder September 2011

Agenda



- Brief Introduction of OGC
- OGC Activities that IOOS-RA should be aware of
- **Compliance Program**

Compliance Program Goals



- Provide robust standard compliance solutions for communities applying/using geospatial software/technologies
- Provide a process whereby compliance for OGC specifications can be tested. Validate certified product compliance with OGC standards and provide Seal of Approval.
- Increase systems interoperability
- Reduce technology risks

Compliance Numbers (Mar 2011)



- More than 10 years providing certification
- Web Testing Engine - open source - operational since 2007
- More than 260 compliant products in the market

ESRI	
Product Name	OGC Spec
ArcGIS 8.1	
ArcGIS Server 9.3	
ArcGIS Server 9.3.1	
ArcGIS Server 9.2	
ArcGIS	
ArcG	

KSIC(Korea Geospatial Information & Communication Co., LTD.)	
Product Name	OGC Spec
IntraMap/Web v5.6	GML 3.0, WCS 1.0.0, WFS 1.1.0, SLD 1.0, WMS 1.1.1, WMS 1.3.0 (compliant)
IntraMap/Web 6.0	WMS 1.3.0 (compliant)

lat/ion GmbH	
Product Name	OGC Spec
deegree Sensor	
Observation Service	SOS 1.0.0 (compliant)
deegree Web	
Coverage Service	WCS 1.0 (compliant)

Oracle Corporation	
Product Name	OGC Spec
Oracle Application Server MapViewer, 10g Release 2 (10.1.2)	WMS 1.1.1 (server compliant)
Oracle Locator 11g, Release 11.1.0.7	SFS(TF) 1.1 (compliant)
	server compliant)
	server compliant)

Rolta India Ltd.	
Product Name	OGC Spec
Rolta OnPoint 6.4	WMS 1.3.0 (server compliant), CAT 2.0.2, WFS 1.0.0 (server compliant)
	server compliant)

Compliance Procedure

- 1) Developers go to online test engine

- 2) Fill the Test Results (TSR) form

- 4) Get compliance certificate

TEAM Engine
(Test, Evaluation, And Measurement Engine)



Welcome

The Test, Evaluation, And Measurement (TEAM) Engine is a test script interpreter. It executes test scripts written in CTL to verify that an implementation of a specification complies with the specification.

The following test suites are available:

Specification	Test Suites	Test Datasets	Release Notes
Catalog Service-Web (CSW) 2.0.2	r2	r2	relnotes.txt
Sensor Observation Service (SOS) 1.0.0	r0	NA	relnotes.txt
Sensor Planning Service (SPS) 1.0	r0	NA	relnotes.txt
Web Coverage Service (WCS) 1.0.0	r2	NA	relnotes.txt
Web Coverage Service (WCS) 1.1.1	r0	NA	relnotes.txt
Web Feature Service (WFS) 1.0.0	r3	r3	
Web Feature Service (WFS) 1.1.0	r4	r4	relnotes.txt
Web Map Context (WMC) 1.1.0	r0	NA	
Web Map Service (WMS) 1.1.1	r2	r2	relnotes.txt
Web Map Service (WMS) 1.3.0	r1	r1	
Web Registry Service (WRS) 1.0	r0	r0	

⚠ It may be necessary to load test data before running a test suite!

[Start Testing](#)

<http://cite.opengeospatial.org/teamengine/>



Appendix A - Test Summary Report

1. Test Completion Date		2. Test Suite Name	
3. Test Results		4. Test Environment	
5. Test Summary		6. Test Details	
7. Test Results		8. Test Summary	
9. Test Results		10. Test Summary	
11. Test Results		12. Test Summary	
13. Test Results		14. Test Summary	
15. Test Results		16. Test Summary	
17. Test Results		18. Test Summary	
19. Test Results		20. Test Summary	
21. Test Results		22. Test Summary	
23. Test Results		24. Test Summary	
25. Test Results		26. Test Summary	
27. Test Results		28. Test Summary	
29. Test Results		30. Test Summary	
31. Test Results		32. Test Summary	
33. Test Results		34. Test Summary	
35. Test Results		36. Test Summary	
37. Test Results		38. Test Summary	
39. Test Results		40. Test Summary	
41. Test Results		42. Test Summary	
43. Test Results		44. Test Summary	
45. Test Results		46. Test Summary	
47. Test Results		48. Test Summary	
49. Test Results		50. Test Summary	
51. Test Results		52. Test Summary	
53. Test Results		54. Test Summary	
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57. Test Results		58. Test Summary	
59. Test Results		60. Test Summary	
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87. Test Results		88. Test Summary	
89. Test Results		90. Test Summary	
91. Test Results		92. Test Summary	
93. Test Results		94. Test Summary	
95. Test Results		96. Test Summary	
97. Test Results		98. Test Summary	
99. Test Results		100. Test Summary	

- 3) Pay License Fee

Licensee Total Gross Annual Revenue	Annual Fee per Product Version per Implemented Standard Version	
	Non Member	Member
\$0M - < \$2M	\$100	\$80
\$2M - < \$3M	\$250	\$200
\$3M - < \$10M	\$500	\$400
\$10M - < \$20M	\$750	\$600
\$20M - < \$50M	\$1,200	\$960
\$50M - < \$100M	\$2,000	\$1,600
\$100M - < \$500M	\$4,500	\$3,600
\$500M+	\$7,000	\$5,600



- 5) Use certification mark



More information:
<http://bit.ly/gTmmSo>

Online Facility (Java Web Server) Team Engine

<http://cite.opengeospatial.org/teamengine/>

TEAM Engine

(Test, Evaluation, And Measurement Engine)



MOZILLA PUBLIC
LICENSE
Version 1.1

Welcome

The Test, Evaluation, And Measurement (TEAM) Engine is written in CTL to verify that an implementation of a specification is correct.

The following test suites are available:

Specification	Test Suites	Test Results
Catalog Service-Web (CSW) 2.0.2	r2	r2
Sensor Observation Service (SOS) 1.0.0	r0	N/A
Sensor Planning Service (SPS) 1.0	r0	N/A
Web Coverage Service (WCS) 1.0.0	r2	N/A
Web Coverage Service (WCS) 1.1.1	r0	N/A
Web Feature Service (WFS) 1.0.0	r3	r3
Web Feature Service (WFS) 1.1.0	r4	r4
Web Map Context (WMC) 1.1.0	r0	N/A
Web Map Service (WMS) 1.1.1	r2	r2

sourceforge

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SourceForge.net > Find Software > TEAM Engine



TEAM Engine Beta by [kstegemoeller](#), [luisbermudez](#), [morrich](#)

[Summary](#) [Files](#) [Support](#) [Develop](#)

TEAM Engine (Test, Evaluation, And Measurement Engine) is an engine for testing resources. It executes test scripts written in Compliance Test Language (CTL).

Download Now!



OR

[View all files >](#)

TEAM Engine

(Test, Evaluation, And Measurement Engine)



Select test suite:

Organization	Standard	Version	Test Suite Rev
OGC	WMS	1.3.0	r1

Select Profile(s):

Enter Session Description (Optional):

Tester selects test suite

Tester names session

OGC Production release. Built 2010-11-16. Problems? Email the [webmaster](#).

Web Map Service 1.3.0

Capabilities Setup

Enter a capabilities document URL below. main may be the URL to a static capabilities document, or a GetCapabilities request from a WMS. A typical GetCapabilities request will take main form:

`http://hostname/path?SERVICE=WMS&REQUEST=GetCapabilities&VERSION=1.3.0`

Tester provides end point of the service



UpdateSequence Values

The WMS spec allows servers to use an UpdateSequence [specification](#). If the server advertises an UpdateSequence, the UpdateSequence behavior automatically. However, tests may not always be correct. If you suspect a problem

Automatic - The updateSequence tests will use the values supplied in the capabilities document.
 Manual - The updateSequence tests will use the values supplied below

(Fill in these boxes if the Manual option is selected)

<input type="text"/>	A value that is less than or equal to the updateSequence value in the capabilities document.
<input type="text"/>	A value that is less than or equal to the updateSequence value in the capabilities document.

Options

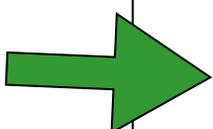
<input checked="" type="checkbox"/>	BASIC - Test basic functionality that depends on the CITE dataset. This option is required for certification.
<input checked="" type="checkbox"/>	QUERYABLE - Test GetFeatureInfo functionality that depends on the CITE dataset.
<input type="checkbox"/>	RASTER ELEVATION - Test the elevation dimension using the cite:Terrain raster dataset.
<input type="checkbox"/>	VECTOR ELEVATION - Test the elevation dimension using the cite:Lakes vector dataset.
<input type="checkbox"/>	TIME - Test the time dimension using the cite:Autos dataset.
<input type="checkbox"/>	RECOMENDATIONS - Test functionality which is recommended in the specification.

Tester Selects Options



```
Console
Testing suite wms-1.3.0:compliance_suite...
Testing main:main (s0001)...
Assertion: The implementation under test complies with the WMS 1.3.0 specification.
Testing interactive:main (s0001/d3607e344_1)...
Assertion: The tests that require user interaction behave properly.
Testing interactive:basic-polygons-sanity-check (s0001/d3607e344_1/d3402e17_1)...
Assertion: The diamond from the cite:BasicPolygons layer displays correctly.
Test interactive:basic-polygons-sanity-check Failed
Testing interactive:blue-lake-sanity-check (s0001/d3607e344_1/d3402e19_1)...
Assertion: The layers from the Blue Lake dataset display correctly.
Test interactive:blue-lake-sanity-check Failed
Testing interactive:layer-order (s0001/d3607e344_1/d3402e21_1)...
Assertion: When a GetMap request contains multiple layers, then the response render
Test interactive:layer-order Failed
Testing interactive:aspect-ratio (s0001/d3607e344_1/d3402e23_1)...
Assertion: When a GetMap request is made where the aspect ratio of the BBOX and the
```

Console provides feedback on test assertions



Results for session s0006

Test Suite: Web Map Service (WMS) 1.3.0

Summary
of
Results

- [-] [Test main:main \(View Details\)](#): Passed
 - [-] [Test interactive:main \(View Details\)](#): Passed
 - [Test interactive:basic-polygons-sanity-check \(View Details\)](#): Passed
 - [Test interactive:blue-lake-sanity-check \(View Details\)](#): Passed
 - [Test interactive:layer-order \(View Details\)](#): Passed
 - [Test interactive:aspect-ratio \(View Details\)](#): Passed
 - [Test interactive:exceptions-inimage \(View Details\)](#): Passed
 - [Test interactive:fees-and-access-constraints \(View Details\)](#): Passed
 - [-] [Test main:options-requirements \(View Details\)](#): Passed
 - [Test main:gif-or-png \(View Details\)](#): Passed
 - [Test main:std-data-present \(View Details\)](#): Passed
 - [Test main:getfeatureinfo-supported \(View Details\)](#): Passed
 - [Test main:std-data-queryable \(View Details\)](#): Passed
 - [-] [Test basic_elements:main \(View Details\)](#): Passed
 - [-] [Test basic_elements:version-negotiation \(View Details\)](#): Passed
 - [Test basic_elements:negotiate-no-version \(View Details\)](#): Passed
 - [Test basic_elements:negotiate-basic_elements-version \(View Details\)](#): Passed



CITE WIKI



<http://cite.opengeospatial.org/>

OGC® Home | OGC Network™ | OGC Forum

OGC[®]
Open Geospatial Consortium, Inc.

Compliance and Interoperability Testing Initiative (CITE)

CITE Navigation

- About CITE
- Start Testing
- Beta Testing
- TEAM Engine Quick Start
- Build Instructions
- ▶ Standards Available for Testing
- Reference Implementations
- Developer Information
- Frequently Asked Questions
- Discussion / Issues
- Service Status
- Contact Us
- Recent posts
- Tests Available in Future

Compliance & Interoperability Testing & Evaluation Initiative

Submitted by webmaster on Tue, 2007-04-03 18:06

Compliance & Interoperability Testing & Evaluation (CITE), also known as the **OGC Compliance Testing Program**, is an ongoing initiative that develops tests for OGC standards, and makes those tests available for online testing. The goal of CITE is to increase systems interoperability while reducing technology risks by providing a process whereby compliance for OGC specifications can be tested.



The Compliance Testing Program provides confidence to technology vendors and buyers. Vendors feel confident that they are providing a product compliant with OGC standards, which will be easier to integrate and easier to market. Buyers feel confident that a compliant product will work with another compliant product based on the same OGC specification, regardless of which

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TEAM Engine - CSW, WFS, & WMS compliance testing along with WMC validation. GeoRSS Validator - Validate your GeoRSS feed. GML 2.1.2 Validator - Validate your GML schema or instance documents.

Visit the [OGC Website](#) for a listing of certified OGC® Compliant products.

OGC

IOOS Standard Compliance



- OGC Testing facility can be used for:
 - SOS testing, including SOS profiles
 - NetCDF testing
 - QA/QC testing
 - WMS Testing
 - In the future
 - For Monitoring
 - Clients testing

IOOS Standard Compliance



- Please tell us about any testing issues.
 - Send an email to
 - Luis Bermudez (lbermudez@opengeospatial.org)
or
 - cite-forum@lists.opengeospatial.org
 - Feng Chia University (FCU) are the SWE Compliance (CITE) leads. FCU, OGC staff (me) and other OGC members will work on the issues.
- We can create a branch for you at sourceforge.

Compliance Resources



- You OGC buddy
 - Luis Bermudez <lbermudez@opengeospatial.org>
- Wiki
 - <http://cite.opengeospatial.org>
- **Developers list and issue tracker !**
 - <http://cite.opengeospatial.org/forum>
- Team Engine at Sourceforge
 - <http://sourceforge.net/projects/teamengine/>
- General questions about the program and submissions of test results
 - compliance@opengeospatial.org