



INSPIRE Workshop on validation and conformity testing (MIWP-5)

Definitions of terms

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Definition of terms – validation and testing

- Validation/conformance testing:

process to determine whether a metadata record / service / data set satisfies the specified requirements

- Interoperability testing:

check if the different components of SDI (metadata, services, data sets) inter-operate with each other properly



Definition of terms – Conformance

ISO 19105 Geographic information - Conformance and testing

- Conformance
 - *fulfilment of specified requirements*
- Conformance clause
 - *clause defining what is necessary in order to meet the requirements of the standard*
- Conformance testing
 - *testing of a product to determine the extent to which the product is a conforming implementation*

OGC Compliance Testing Program Policies & Procedures

- Conformance
 - *A standard's “abstract conformance” to Standards Packages for that standard (see ISO 19105).*



Definition of terms – Compliance

OGC Compliance Testing Program Policies & Procedures

- *A state of a specific software product, which implements an OGC Standard and has passed the Compliance Testing Evaluation.*
- Compliance Testing Evaluation Procedure:
Set of steps used to evaluate a software product for proper implementation of an OGC standard.



Definition of terms – Conformity

INSPIRE Metadata element CONFORMITY

The requirements referred to in Article 5(2)(a) and Article 11(2)(d) of Directive 2007/2/EC relating to the conformity, and the degree of conformity, with implementing rules adopted under Article 7(1) of Directive 2007/2/EC shall be addressed by the following metadata elements: ...

DEGREE OF CONFORMITY

- Conformant (conformant): The resource is fully conformant with the cited specification.
- Not Conformant (notConformant): The resource does not conform to the cited specification.



Definition of terms – Abstract test suite

- ISO 19105 Geographic information - Conformance and testing:
 - Abstract test suite: *abstract test module specifying all the requirements to be satisfied for conformance*
 - Abstract test module: *set of related abstract test cases*
 - Abstract test case: *generalized test for a particular requirement*
- OGC Compliance Testing Program Policies & Procedures:
 - *A set of testable assertions about the functionality of a standard, which an implementation must support in order to achieve compliance to the standard. ATS are based on the conformance clauses defined in the standard.*



Definition of terms – Executable test suite

- ISO 19105 Geographic information - Conformance and testing:
 - executable test suite: *set of executable test cases*
 - executable test case: *specific test of an implementation to meet particular requirements*

- OGC Compliance Testing Program Policies & Procedures:
 - executable test suite (ETS): *A set of code (e.g. Java and CTL) that provides runtime tests for the assertions defined by the ATS. Test data required to do the tests are part of the ETS.*