

**Minutes of the Initial Operating Capability Task Force**  
**Krakow, 22 June 2010**

Title	Minutes of the Initial Operating Capability Task Force Meeting, Krakow, 22 June 2010
Creator	European Commission DG Joint Research Centre, Initial Operating Capability Task Force
Creation date	28/06/2010
Date of last revision	13/07/2010
Subject	INSPIRE Initial Operating Capability Task Force, network services technical guidance, discovery, view
Description	Minutes of the third meeting of the Initial Operating Capability Task Force held in Krakow, PL, on the 22 <sup>nd</sup> June 2010.
Contributor	European Commission DG Joint Research Centre, Initial Operating Capability Task Force
Status	Final
Publisher	European Commission DG Joint Research Centre
Rights	Public
Language	EN
Identifier	MInutes_IOCTF_Meeting_Krakow.doc

## 1. Welcome and approval of the agenda

The chairman opened the meeting welcoming all the participants to the third meeting of the Initial Operating Capability Task Force (IOC TF).

The agenda was approved.

## 2. Status of the IOC (Discovery and View) Service Team work

*Wolfgang Tinkl, AT*

Wolfgang Tinkl (AT) presented the work performed so far from the IOC Service Team, which was primarily on the updating of the Technical Guidance (TG) documents for discovery and View Services. In addition to the two TGs a Domain model was also developed to highlight dependencies between the different technical components of INSPIRE.

Main issues identified include: GeoRM, SOAP, Bindings in general, link service operation and language parameter. Milestones include the decision to follow a phased approach with Phase I till May 2011 to concentrate on the INSPIRE requirements and Phase II after June 2011 to address GeoRM and SOAP.

Next steps include:

- Start work on TG V. 2.2, validation of content of 2.12, further versions may be needed after 2.2 and an implementation meeting is foreseen before the IOC.
- For the testing what is needed is some context on what to be tested

## 3. Presentation of the updated (v. 2.12) Technical Guidance documents

*IOC Service Team*

Joeri Robbrecht (BE) and Anders Friis-Christensen (DK) presented the updated technical guidance documents for View and Discovery services respectively. Andreas von Dömming (DE) presented the proposed solution for the INSPIRE language parameter requirement. Important changes to the TGs include:

- Discovery service is based on OGC 07-045, CSW ISO AP, OGC Catalogue Services Specification 2.0.2 - ISO Metadata Application Profile for CSW 2.0, version 1.0.0.
- View Service is based on ISO 19128:2005 (EN).
- In both cases the bindings and protocols are as mandated by the above standards (for e.g. HTTP GET binding as mandated by the ISO 19128:2005 (EN)).
- **Get Discovery/View Service Metadata response:** The description of two possible scenarios on how to publish INSPIRE metadata for network services and include those in the Get discovery or View Service Metadata Response. Scenario 1 is based on the availability of an INSPIRE service metadata record in a Discovery catalogue and referenced in the getCapabilities of the service. In scenario 2 all INSPIRE service metadata are included in the extended capabilities of the service.
  - A question was expressed by BE whether the proposed approach is feasible or sustainable.
  - On the request for feedback from the standards bodies, on the proposals, Olaf Østensen (NO and ISO TC211 chairman) pointed out that rather, the standards need to be able to take into consideration the requirements from the community.
  - BE recommended to establish an INSPIRE repository for CRS
  - CZ will provide clarification with regards the harvest operation.
- **Link Service:**
  - Recommended implementation using the Publish metadata operation of the Discovery Service, ie. CSWT:Transaction or CSWT:Harvest

- Rationale: Services related to INSPIRE, form a "virtual" network of services: The publish metadata operation enables to link services into this network (publish-find-bind paradigm)
- Links to the National catalogues will be made available to the Commission. Through the discovery services all other network services will be found.
- EC requested how the National catalogues will be made available. EC suggested that a register is made available where MS will be able to register the National discovery services including all the required parameters to access the service.
- BE requested from EC to make available a discovery service from the INSPIRE geoportal to allow a Member State to search metadata from other Member States. EC agreed to provide an INSPIRE discovery service.
- **Language parameter:**
  - Additional Parameter “Language” for GetCapabilities-Operation (http/get) to be supported. Extended Capabilities declare
    - list of supported languages and
    - current language
    - default language

Details on the above modifications as well as examples are in the Technical Guidance documents v. 2.12.

Following a suggestion from UK it was agreed that IOC TF documents (TG’s etc) would go under “change control” and “differences version to version highlighted” - from this point onwards (i.e. no retrospective action required).

#### **4. Comparison of INSPIRE View Service and OGC WMS 1.3**

*Marcel Reuvers (NL)*

A detailed comparison of the INSPIRE view service (as specified in TG V2.12) and OGC WMS 1.3.0 (ISO 19128) was presented by Marcel Reuvers (NL). In addition, Marcel informed the group about the requirements capturing process that OGC has set up.

It was questioned why the language parameter proposed in the TG v 2.12 is not compliant with OWS 2.0. Also the OGC WMS specification needs to be updated so that it complies with OWS. The approach the Service Team has taken is to use the extended capabilities for the language.

NL expressed its willingness to extract the specific INSPIRE extensions to the current specifications for both the Discovery and View Services and following consultation with the IOC TF and coordination with JRC to submit these to the OGC. The proposal was welcomed by the IOC TF. The submission is planned to coincide with the next OGC Technical Committee meeting in Toulouse on 20<sup>th</sup> of September.

#### **5. Domain model presentation**

*Christian Elfers (DE)*

The domain model is meant to identify, describe, link and relate the technical components of INSPIRE together to help understand the nature of technical components and the linkages, their purpose, context and how they could interact to realize use cases and workflows. The Domain model was conceived in the IOC Service Team meeting that took place in Arnhem on February 2010. The current domain model helped clarifying how to access metadata from service capabilities and use of identifiers, implementation possibilities for different situations for spatial datasets and how to make them available for view and download and possibilities to describe services with metadata and link with metadata for spatial datasets.

UK commented that the document is difficult and too technical to understand. It was also proposed to put the document into context with respect to the existing architecture diagram (Network Services architecture 3.0).

Christian Elfers replied that a future update of the document will include examples for better understanding and agreed that it was a good idea to consider the current Network Services Architecture Document.

Related to accessing spatial data metadata from service metadata and vice versa JRC presented a workflow based on BPMN (Business Process Modelling Notation) using only INSPIRE metadata elements (see annex I).

## 6. Testing

The current version of the Technical Guidance documents need to be validated and testing scenarios defined. Testing scenarios may be based on the existing document already available in CIRCA where all use cases are still valid. UK (Tim Duffy) has already volunteered to coordinate this activity. The primary focus of the testing must be:

1. Feasibility of current TG for both Discovery and View Services. Priority for testing shall be given to the major changes introduced in the TGs including:
  - a. Validate operations and whether they return valid responses;
  - b. Capabilities and extended capabilities (scenario 1 & 2 from TG)
  - c. Language parameter;
  - d. Link View/Discovery Service;
  - e. Collating Maps;
  - f. Namespaces;
  - g. CRS (Registries, Olaf Østensen will report status of an ISO CRS repository in the next meeting)
2. Clarity of TG to people that need to implement INSPIRE services or INSPIRE compliant clients

Although a detailed testboard and use cases will need to be defined the following Member States volunteered to take place in the forthcoming testing:

- a. DE has volunteered to update the OGC TEAM compliance engine to test conformance with the INSPIRE discovery services. JRC was requested to provide help to make the tool available.
- b. BE to test the extended capabilities for the View services
- c. DK to test the extended capabilities for the discovery services
- d. DE and CZ to test the extended capabilities
- e. FI to test the multilingual part
- f. UK for the tests
- g. NL will participate in tests at the interface level
- h. JRC to participate at the tests with the prototype INSPIRE geoportal testing requirements from the Technical Guidance.

It was suggested to co-operate with FP7 projects for the testing, (ESDIN, EURADIN, GIS4EU, ...) not clear how to do this however.

JRC is currently implementing INSPIRE metadata for the CCM (Catchment Characterisation and Modelling) dataset and implement view service with related metadata. JRC will investigate whether these can be made available to the testing.

IOC TF members need to investigate the use of other datasets (Administrative Areas?)

## **7. Relationship IOC TF and standardisation entities (ISO-OGC-CEN)**

On the request of OGC to participate in the IOC TF meeting a specific session was organized to discuss how to best submit INSPIRE related requirements resulting from the activities of the IOC TF to the standardization entities. Participants were Athina Trakas from OGC and Olaf Østensen (NO IOC TF member and ISO TC211 chairman). OGC-ISO-CEN, are already discussing a joint approach to capture community responses to the standards and specifications, which will probably be based on an existing OGC web application.

Both ISO and OGC explained to all participants the possibility to submit requirements it is not enough however to just provide requirements and change requests, these need to be followed through and provide resources for further processing.

Olaf Østensen commented that amendment procedures could be fast and not taking too long time to accomplish.

Member States (DK and FR) noted that resources may be a problem and current priority is to comply with the INSPIRE requirements. In addition the solutions currently proposed in the Technical Guidelines are pragmatic solutions aiming to satisfy the INSPIRE requirements based on existing standards. As a result the proposals may not be optimal and therefore not necessarily the best way to proceed with standardizing such solutions.

In addition, it was noted that requirements could not be issued to OGC without having a timeline or no guarantee that the requirements will be taken on board and addressed within a reasonable time.

In general, it was evident that a coordinating body is required to collect the requirements and bring them to the standardisation bodies. It was agreed that for what concerns the requirements for the Discovery and View services these will be submitted to ISO-CEN-OGC by NL as agreed before in an earlier session.

## **8. Architecture and Maintenance (Discussion)**

JRC provided a summary on the discussions the INSPIRE Committee meeting of 17<sup>th</sup> June 2010. Following a request by the INSPIRE Committee JRC elaborated a proposal for the maintenance of the Data Specifications which was presented during the last INSPIRE Committee meeting. The discussion identified the need to create a Working Group for the maintenance and revision of code lists.

In addition the need for a more comprehensive approach for the maintenance of all INSPIRE components was recognized. In this respect, the Commission is currently reflecting to define a new organizational framework to address new needs.

## **9. Summary and Next Steps**

The next IOC Service team meeting will be hosted by UK in Edinburgh on 16-17th September to discuss the next version of the TGs following the testing results.

One more meeting is foreseen to finalise the TG for discovery and View services. This meeting is planned to take place in Ispra at the JRC premises.

## 10.ACTIONS

No.	What	Who	When
1	REQUEST TO REGISTER <a href="http://inspire.europa.eu">http://inspire.europa.eu</a> as a namespace	EC	TBD
2	Implement a CSW service available from the INSPIRE geoportal	EC	15/09/2010
3	Implement a registry for discovery services	EC	TBD
4	Gather the requirements for both View and Discovery (DRAFT) – to be sent to IOC TF for confirmation	NL	06/09/2010
5	Submit requirements for both View and Discovery to ISO/OGC/CEN	NL	15/09/2010
6	Provide input to the Discovery Service TG to clarify the harvest operation	CZ	10/07/2010
7	Provide input to the TG to address the LANG parameter requirement in all scenarios.	FR	10/072010
8	Evaluate the use of the CCM (Catchments Characterisation and Modelling Data) metadata and associated services for testing purposes	EC	15/07/2010
9	Update OGC TEAM compliance engine to	DE	TBD

## 11. List of Participants

Country	Task Force Member	Organisation
AT	Wolfgang Tinkl Markus Jobst	Land-, forst- und wasserwirtschaftliches Rechenzentrum GmbH, Bundesamt für Eich- und Vermessungswesen
BE	Bart Cosyn Joeri Robbrecht	Flemish Geographical Information Agency (AGIV)
CZ	Jiri Kvapil, Stepan Kafka	CENIA, česká informační agentura životního prostředí
DK	Anders Friis-Christensen	Ministry of the Environment National Survey and Cadastre, Spatial Data Infrastructure Department
FI	Jani Kylmäaho	National Land Survey of Finland
FR	Didier Richard	IGN
DE	Andreas von Dömming Jan Grohmann Christian Elfers	Federal Agency for Cartography and Geodesy Federal Agency for Cartography and Geodesy
IE	Bruce McCormack	Department of the Environment, Heritage and Local Government
IT	Monica Pasca	
LT	Lina Papsiene	Lithuania
NL	Marcel Reuvers Linda van de Brink Rob van de Velde	Geonovum
NO	Olaf Østensen	Norwegian Mapping and Cadastre Authority
PL	Marek Brylski	Polish National Mapping Agency (GUGiK)
ES	Emilio López-Romero	Ministry Housing
SE	Frederik Persäter	Lantmäteriet, The Swedish Mapping and Land Registration Authority
UK	Keith Murray	Defra
EC	Ioannis Kanellopoulos, Gianluca Luraschi, Cristiano Fuggazza	EC JRC

