

Minutes of the 4th Initial Operating Capability Task Force Meeting
Ispra, 19-20 October 2010

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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. Overview of the Issues List

Bart Cosyn, BE

Bart Cosyn (BC) explained the goal of the issues list to keep track of pending issues. The full updated issues list is attached to this document. From the discussion the following questions emerged:

- Include in the TG a section on registers and registries relevant for the discovery and view services. General discussion on registers is needed.
- Requirement for a repository for INSPIRE schemas is pending.
- IETF vs ISO 639-3 language encoding. Suggestion to include in the TGs a mapping of IETF and ISO language codes (potentially maintain a register on this). This does not apply to metadata but support for IETF needs to be provided for the Language parameters.

Open Questions

- Whether IETF needs to be used also for the queryables.
 - What are the consequences if IETF is recommended for service requests while the metadata mandates the use of ISO?
 - The OGC OWS 2.0 is based on IETF, so this is the preferred choice. On the other hand, the metadata regulation requires ISO 639-2.
 - Not clear what happens if a Member State chooses to use IETF (compliant with the NS regulation but not with NS TG).
 - Proposed solution: use the ISO codes, for the language parameter required for the discovery and view services and for the queryables and provide a mapping from ISO to IETF.
- Transparency in View services: There is a proposal to make a Change Request to OGC to make TRANSPARENCY=TRUE by default in forthcoming WMS versions. Currently this is false by default. This however would break backward compatibility with existing OGC WMS services and clients.
 - Having checked with the INSPIRE NS regulation there are no specific requirements concerning transparency, it was therefore decided to leave the default value as false and there will be no change request to OGC. To allow for the overlay requirement from the INSPIRE directive the TG shall mention explicitly that users/clients shall add TRANSPARENCY=TRUE to the requests.
 - Extended capabilities for the Discovery Service. Andreas von Dömming (DE) indicated an error in the extended capabilities for the discovery service:
 - The current schema for the capabilities of the discovery service (http://www.inspire-geoportal.eu/schemas/INSPIRE_DISCOVERY_GetCapabilities.xsd) depends at the same time on both Versions of OWS (OWS1.0 and OWS 2.0) and also both GML Versions (GML3.2.1 and GML3.1.1). This is obviously an error in the current schema: The ExtendedCapabilities substitutes the ExtendedCapabilities of OWS2.0 but must substitute the ExtendedCapabilities of OWS1.0 because the CSW-base specification is based on OWS1.0. As there is no other dependency to OWS2.0 used in the INSPIRE-schema that dependency to OWS2.0 can be removed. The proposed solution is to:
 1. change the namespace declaration in top level schema-element from `xmlns:ows="http://www.opengis.net/ows/2.0"` to `xmlns:ows=http://www.opengis.net/ows`

2. Change following import of OWS2.0 from


```
<import namespace="http://www.opengis.net/ows/2.0"
schemaLocation="http://schemas.opengis.net/ows/2.0/owsAll1.xsd"/>
```

 to:


```
<import namespace="http://www.opengis.net/ows"
schemaLocation="http://schemas.opengis.net/ows/1.0.0/owsAll.xsd"/>
```
3. Correctness (versions, namespaces,...) need to be checked, tested and validated. XML Spy validation is not sufficient.
 - Andreas von Dömming (AvD) provided an INSPIRE schema dependencies table (attached) which is proposed to be made available together with the schemas.
 - To make it coherent with the GetViewServiceMetadata schema the schema location for the view service needs to be updated for gmd, gco: change <http://schemas.opengis.net/iso/19139/20060504> to <http://schemas.opengis.net/iso/19139/20070417>
 - Sequence diagrams (attached) were created (AvD) for the <Link Service> operation. These will be included in the next version of the Technical Guidance documents.
 - When metadata are harvested/cached a potential issue updating of the records. Potential approaches such as RSS feed, log file, RSS feed with a transaction inside to indicate deleted records, were discussed but no clear solution has emerged yet.
 - Proposed to remove reference to hop count 2, as long as a service conforms with performance requirements, any hop count may be used. Reason for limit hop count to 2 is to avoid circular references. To the knowledge of the participants this has never been tested apparently.
 - Both WMS 1.1.1 and WMS 1.3 (ISO 19128) will be supported. The WMS 1.1.1 DTD needs to be tested.
 - Access to WMS 1.1.1 needs to be tested from the prototype INSPIRE geoportal. BE has made available a WMS 1.1.1 for testing purposes.

Next steps include:

- Update of the Issues list
- The Technical Guidelines will be updated with the sequence and the general use case diagrams
- JRC will launch procurement before the end of October to contract an external editor to produce the final technical guidelines.

3. Reporting on tests performed

JRC has performed tests accessing discovery and view services (BE, DK, PL, FR) detailed reports are produced and sent to the MS. In each case the discovery and view services INSPIRE operations according to the latest versions of the TGs and related schemas were tested and in the case of metadata the metadata compliance with the INSPIRE regulation and Technical Guidance.

NL and UK indicated their availability to test Discovery and View services with the prototype INSPIRE geoportal.

4. Security

JRC is participating in the OGC Web Services (OWS) Shibboleth Interoperability Experiment (IE). Shibboleth is an open source software package released by the Internet2 Consortium for web single sign-on across or within organizational boundaries based on the SAML standard from OASIS. European National Mapping Agencies and leading European universities have been advancing the use of Shibboleth in operational spatial data infrastructures as part of the ESDIN project. The scope

of the IE is to advance best practice for implementing standards on federated security in transactions involving geospatial data and services. It will build on practices from the European Spatial Data Infrastructure Network (ESDIN) project.

Security related issues have not been widely discussed in the IOC TF till now there is interest in the SAML standard and the shibboleth implementation and has been suggested to invite in a future IOC TF meeting a representative from the ESDIN project to present security related aspects for geospatial data and services.

In the discussion the following aspects emerged:

- Two aspects for security: security of data and charging.
- It was noted the need for mechanisms to cope with charging Under certain condition data providers can charge for View Services (see Art. Of the Directive) and if that is the case there needs to be a service mechanism even if it is outside the MS or EU geoportal in many cases. The conclusion was that there is a need to articulate requirements better.
- Need a register of licenses. It may be too soon to discuss some of the as it is still in a development phase but needs to be addressed nevertheless.
- View services will be available free of charge through a national portal but the service may not be used in other applications and may in certain cases involve charges.
- How the commission will access the data? Through the geoportal or using also dedicated clients? (ArcGIS, other applications?)

5. Registries

Both DE and UK presented their current practices and requirements for registers and registries (both presentations are attached). Suggestions for registers for the following:

- INSPIRE monitoring values,
- Coordinate Reference Systems,
- Data models, feature types (XML+UML),
- Styles (SLD & SE), linked to feature types
- Licenses to harmonise licensing
- unique id's (namespaces as IF prefixes)

DE reports that simple solutions to implement registers based on ISO 19135 model are sufficient for the moment. Resources are managed based on files (XML).

It is planned in the future that the Monitoring and Reporting Information will be filled in from the catalogues.

UK suggests that a clarification is needed on who is doing what and in particular what are the EC plans related to registries with respect to INSPIRE content. Furthermore how are the common and national registries are to be linked? It was proposed that a registry service may be seen as a spatial data service and the discussion may be of relevance to the recently formed working group on spatial data services.

It has been decided in order to address some of the issues above to start a discussion paper on registries including list of registries and use cases. This will take into account the registries related information in the INSPIRE Generic Conceptual Model (D 2.5, Version 3.3). Requests from MS to the Commission for the creation of an INSPIRE registry should be made via the NCPs.

Further discussion and questions include:

1. There is a question on how to distinguish between INSPIRE and non-INSPIRE resources as in most cases a discovery service will include both. AT reports that there will be at least

from some providers two separate discovery services one at National level and one for INSPIRE related resources. Other MS on the other hand do not plan to make such distinction and the same discovery service will include both INSPIRE and non-INSPIRE scoped resources. The question on how best to distinguish between the two remains open.

2. Ability to search on feature types.

6. IOC TF Scope Update for Download and Transformation Services (Discussion)

EC provided an update on the status of the draft regulation on Download and Transformation and the related Technical Guidance documentation:

- **Regulation Status**
 - The proposed regulation passed the scrutiny of the European Parliament and of the Council. It can therefore be adopted by the European Commission and the publication is currently forecasted for the end of November.
- **Technical Guidance Status**
 - Technical guidance documents for download and coordinate transformation have been written by the NS DT and are publicly available in the INSPIRE web site. In addition and due to the lack of relevant standards, the JRC awarded a contract for the production of technical guidance for schema transformation that is available on the INSPIRE Web site and are complemented by a set of documents that will soon be made available on the INSPIRE web site.

Scope Update proposal

In accordance with the IOC TF terms of reference, the Commission requests the IOC TF to reach a consensus on the proposal to extend the scope of the IOC TF to include the download and transformation (coordinates and schema) Network Services.

In principle, the IOC TF agrees with the proposal and there is great willingness to continue with the two new services. Nevertheless, the following points will need to be taken into consideration as these emerged from the follow up discussion:

- This is potentially a bigger task owing to the difference of the document of schema transformation (DK);
- Potentially this requires more resources (DK);
- The amount of resources required can be estimated at a later stage once the current documents have been reviewed and assessed for fitness for purpose. To better estimate the resources needed an initial assessment of the complexity of the download and transformation services as well as exploring possible use cases may be required (ALL);
- From participants envision that Member States do not plan to implement transformation services but these will be built in the publication process; (ALL)
- Following up on the experience from the discovery and view services TG the IOC TF suggests defining from the start of the process roles such as an editor and facilitator. These roles shall be included in the EC proposal to the Member States to update the scope of the IOC TF to include the two new services; (ALL);

7. Summary and Next Steps

The final published version of the Technical Guidance for the Discovery and View Services is foreseen for January-February 2011.

The next IOC Service team meeting is planned for 27-28 January 2011 host to be decided.

ACTIONS

No.	What	Who	When
1	REQUEST TO REGISTER http://inspire.europa.eu as a namespace	EC	In progress
2	Repository for INSPIRE schemas	EC	12/2010
3	Implement a registry for discovery services	EC	In progress
4	IETF and ISO 639-3 mapping	FR	30/11/2010
5	Testing IETF with querables	ALL	30/11/2010
6	Update and test schemas for discovery and view services	EC, ALL	In progress
7	Update the View services TG with sequence diagrams and general use case diagrams	BE	15/12/2010
8	Update Issues list	BE	30/11/2010
9	Test WMS 1.1.1 DTD	ALL using WMS 1.1.1.	30/11/2010
10	Test prototype INSPIRE Geoportal with NL and UK discovery services	EC, NL, UK	DONE, tests started
11	Discussion paper on registries	EC in collaboration with the MD, DS and NS Drafting teams	15/12/2010
12	Proposal to National Contact Point extending the current Scope of the TF	EC	15/12/2010
13	Update the Discovery services TG with sequence diagrams and general use case diagrams	DK	15/12/2010

8. List of Participants

Country	Task Force Member	Organisation
AT	Wolfgang Tinkl	Land-, forst- und wasserwirtschaftliches Rechenzentrum GmbH
BE	Bart Cosyn Joeri Robbrecht	Flemish Geographical Information Agency (AGIV)
CZ	Jiri Kvapil	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
DE	Andreas von Dömming	Federal Agency for Cartography and Geodesy
IT	Monica Pasca	
NL	Michel Grothe	Geonovum
PL	Marek Brylski	Polish National Mapping Agency (GUGiK)
SK	Jan Jendrichovsky	Slovak Environmental Agency
GB	Keith Murray	Ordnance Survey (UK)
EC	Ioannis Kanellopoulos, Freddy Fierens, Angelo Quaglia, Paul Smits, Michael Lutz, Sven Schade	EC JRC