

**Minutes of the Initial Operating Capability Task Force**  
**Edinburgh, 28 June 2011**

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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. Review of Actions from previous meetings/telecons

What	Who	When	Status
Update Terms of reference for IOC TF	EC	20/06/2011	OK
Draft Best Practices Document on AAA	??	25/06/2011	
Nominate experts for Service team on download and transformation	IOC TF	03/06/2011	Only 1 MS replied*
Nominate experts for the Architecture WG	IOC TF	03/06/2011	Only 3 MS replied
Registers Position Paper	UK	06/05/2011	OK
Provide Comments to the discussion paper on the Maintenance of data specifications and associated components by Member States.	IOC TF	13/05/2011	No comments provided
Registers Discussion paper	EC	20/06/2011	OK
Provide Comments to EC on the registers discussion paper	IOC TF	21-06-2011	4 replies received
Provide potential topics to be addressed by an Architecture WG	IOC TF	20/06/2011	No input received so far
Compile proposed list of topics for the Architecture WG	EC	24/06/2011	No action
Status of the INSPIRE maintenance and implementation discussion paper	EC	28/06/2011	MS feedback, internal on-going discussions

## 3. Scope and Terms of Reference of the IOC TF

[EC presented the updated Terms of Reference](#), which include the extension of the scope to cover the download and transformation services as was proposed to the INSPIRE National Points of Contact and subsequently to the IOC TF members. The updated terms of Reference now contain detailed rules of procedure to cover such items as the creation of sub-groups to address specific topics (for e.g. the Service teams) or the admission of 3<sup>rd</sup> parties when additional expertise is required.

In the discussion that followed it was suggested to substitute the technical guidance in the deliverables section with the more generic term Technical documentation to allow for additional documents.

EC clarified that with the current Network Services Regulation the end of the IOC is at end of 2012 when the Download and Transformation Services IOC period ends. The EC also confirmed that will provide support for the editing of the download and transformation technical guidance document.

The IOC TF approved the terms of reference with no objections.

## 4. Initial Operating Capability of Discovery and View Services

The EC presented the [status on the discovery and view services](#) with IOC that were received from the MS following a request to the INSPIRE National Points of Contact and provided an overview on the development of the operational INSPIRE geoportal. For what concerns the interoperability tests between the MS services and the INSPIRE geoportal EC informed that:

- A detailed report with the tests performed, as well as the outcome of the tests will be sent to each MS. All tests were made against the Technical Guidance documents 3.0;
- Once the register for the discovery services is made available, an automatic generation of the testing results will be sent to each MS following the registration of the discovery service.

In addition the EC provided an overview on the status of the INSPIRE geoportal development. EC stressed the importance of the active involvement of the IOC TF in both the requirements and testing phases to ensure interoperability between MS Network Services and INSPIRE geoportal. To assist the development, the current IOC services and test outcomes will be made available to the contractor developing the INSPIRE geoportal.

DE informed that the TEAM engine is ready for testing and feedback is welcomed from the IOC TF. In the afternoon, there was a brief presentation of the TEAM engine.

On a question related to the use of OpenStreet maps in the INSPIRE geoportal, EC clarified that these are not used as there have been issues with MS boundaries.

The SLDs for the view services have been corrected from FR for use with the geoserver open source S/W. The [SLDs are available on CIRCA](#).

## **5. Architecture**

The discussion was focused on the need for an Architecture WG (AWG) and the topics to be addressed by such group.

It was suggested that one of the responsibilities of the AWG could be the updating of the Network Services Overview Architecture document.

The TF members were also informed that the ISO 19119 is currently being revised and they could provide useful input.

Following the discussion the IOC TF decided to set up a separate Architecture WG. The mandate of the AWG is to define the scope, the topics that need to be addressed and establish priorities. The AWG shall address current and other short-term issues until a maintenance group is established. Once the scope is defined, a broader call to other DTs will be required.

The AWG currently consists of representatives from DE, BE, AT, NO, DK, FI and EC.

BE will forward to the WG a list of topics that could be addressed by the AWG (in the meantime the list has been distributed to the TF members).

NO will forward to the IOC TF topics related to the standards.

It was also agreed to use the Jira issue tracker, which has been proved useful for the data specifications thematic working groups.

### ***Authorisation-Authentication-Accounting***

[AT presented an Institutional approach \(BEV\) to control access](#) of view services. It is still under discussion whether this will also be the National approach. This requires individual registration, even if an individual represents an organisation, subsequently a token and a user key are generated.

[BE presented their approach to user and access management](#) based on SAML ([Security Assertion Markup Language](#)), [WS-Trust](#) and [WS-Federation](#).

The main message was to move towards federated authentication. Perform interoperability experiments based on different S/W solutions (SAML, OpenID etc).

### ***Registers***

The EC will update the discussion paper following the comments received. The Jira issue tracker may be used to further discuss this subject and the update of the discussion paper.

One issue is that the ISO 19135<sup>1</sup> is currently under revision. The aim from ISO is to have a new version early next year. The main problem with the current standard is the information model, and things will change in the next version. EC will get in touch with the editor and ask advice how best to proceed.

In general the next steps following the discussion paper are not clear.

It was recommended to use as much as possible existing registers available in the MS or provided by other organisations (e.g. EPSG codes).

### ***Metadata for Services and ISO 19139 encoding.***

The issue is that there exist two sets of schemas (in OGC and ISO repositories) referencing different GML versions for the services and data. EC will check the metadata TG and the JRC implementation.

## **6. Download and Transformation Services**

The IOC TF decided to not work currently on the update of the transformation services technical guidance documents. The rationale behind this decision was that according to Art. 7.3 of the INSPIRE Directive Member States have to provide harmonised datasets and are given the option to do so either directly through the download services or through the transformation services.

DE proposed a list of issues to be considered for the download services technical guidance document update:

- Update to the final versions of WFS 2.0 (ISO/FDIS 19142) and FES 2.0 (ISO 19143). This in particular includes a revision of the list of conformance classes.
- Harmonise Capabilities Extensions with View Service Technical Guidance (including the broken schema in Annex A)
- Reconsider that SOAP is mandatory (make it optional). HTTP GET probably should be mandatory to allow URL links to features
- Remove reference to the "SOAP framework"
- Maybe specify a WFS 1.1 profile (similar to the WMS 1.1.1 profile in the View Service TG)?
- Specify WCS 2.x profiles and extensions for the coverages types needed for the Annex II/III data specifications - requires interaction with OGC!
- Same with SOS 2.x for observations
- The Technical Guidance does not provide any guidance how to realise both types of download services in a consistent way. Maybe something could be added, for example, describing how stored query concepts could be used.
- In general, the section on the "non-direct access" download service needs a revision.

The IOC Service Team will be responsible for the updating of the Technical Guidance, which as previously done for the discovery and view services are subject to approval of the IOC TF.

## **7. Quality of services**

[DK presented questions and interpretation issues with respect the Quality of Service requirements](#) from the Network Services Regulation and stressed the need for some common guidelines, which should be integrated in the Technical Guidance documents. [DK also presented similar issues on behalf of AT](#) especially for what concerns view services.

On the question concerning the 99% of the time availability the FR National Contact Point and Committee Member clarified that this was discussed during the INSPIRE Committee meeting and

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<sup>1</sup> ISO 19135:2005 specifies procedures for the registration of items of geographic information.

the time to be considered is 1 year. In addition, with respect to a view service, the requests refer to 1 layer. FR agreed that although some guidance is needed this should not contradict the discussions and decisions taken at the Committee level. Finally the FR NCP informed that during the INSPIRE Committee discussions there were costs considerations and as a result the QoS requirements were quite conservative.

BE suggested that rendering needs to be taken into consideration for the Quality of Service requirements for the view service

DE recommended following the wording from the download services where reference is made to parallel requests to a view service. (Note: for the download services it refers to the number of requests processed in parallel).

UK underlined the need for guidance sooner than later since discovery and view services need to be implemented now.

**Based on the input provided by DK and AT the IOC TF and ST will provide further clarifications.**

DK made an additional [presentation on monitoring services named EasySDI](#) an open source tool for creating monitoring reports supporting also INSPIRE reporting.

## **8. INSPIRE operational geoportal**

Planenek s.r.l, the company awarded to develop the operational INSPIRE geoportal, made a presentation on the current status of the development. Key topics for discussion with the IOC TF include:

- ✓ Data volume (and cache size) estimation;
- ✓ How to ensure interoperability with services under authentication & access policies;
- ✓ Data and Services availability and implementation details;
- ✓ Discovery and View Services Implementations follow TG 3.0? Any other standards?
- ✓ Discovery Services;
- ✓ Number of metadata sets;
- ✓ View Services;
- ✓ Number of layers;

The IOC TF was requested to provide answers to a questionnaire with the above questions. Representatives from Planetek s.r.l discussed also with individual members of the TF in separate meetings.

## **9. AOB**

Jira could potentially be used for the work of the IOC TF.

## **10. Summary and Next Steps**

The next IOC Service team telecom will take place the week of 18<sup>th</sup> July. (This has now been fixed for the 22<sup>nd</sup> of July).

No decision has been taken on the kick off of the Architecture WG.

## **11. Decisions**

1. Establish an architecture Working Group
2. Maintain the current Service Team with the addition of new members for the updating of the Download Services Technical Guidelines

3. The IOC TF will currently not work on the updating of the Transformation services technical guidance documents. Should there be any requirement the TGs may be revisited at a later stage.
4. Update the TG 3.0 providing clarifications for the Quality of Service requirements.

## 12.ACTIONS

No.	What	Who	When
1	Distribute updated Terms of Reference	EC	30/07/2011
2	Send list of topics for discussion in the Architecture Group	BE	DONE
3	Send list of standards related topics for discussion in the Architecture Group	NO	30/07/2011
4	Contact ISO 19135 editor to seek advice for best way forward	EC	Discussion started
5	DE to distribute the "GDI-DE Testsuite" for testing	DE	DONE
6	Update Registers Discussion paper	EC	31/08/2011
7	Send details for the testing performed for the INSPIRE geoportal and discovery and view services with IOC (includes which metadata schemas are used for validation)	EC	DONE
8	Provide report on the outcome of the tests performed between the discovery and view services with IOC and the INSPIRE geoportal.	EC	31/08/2011
9	Provide guidelines for Quality of Services (starting point the DK and AT presentations)	IOC TF/ST	15/09/2011

### 13. 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	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 Jari Reini	National Land Survey of Finland
FR	Didier Richard Jean Jacques Serrano Marc Leobet	IGN  Ministry of ecology, sustainable development, town and country planning
DE	Andreas von Dömming Christian Elfers Clemens Portele	Federal Agency for Cartography and Geodesy Con terra Interactive Instruments
IE	Gareth John	Department of the Environment, Heritage and Local Government
LV	Arvids Ozols, Martins Smilga, Inga Vilnere Linda Freimane	Latvian Geospatial Information Agency
NL	Michel Grothe	Geonovum
NO	Olaf Østensen	Norwegian Mapping and Cadastre Authority
PL	Joanna Kolacinska	Head Office for geodesy and cartography
ES	Emilio López-Romero José-Miguel Rubio-Iglesias	Ministry Housing
SE	Mauritz Bomark	
SK	Tomas Kliment Peter Deak	Slovak University of Technology Research Institute of Geodesy and Cartography of the Slovak Republic
UK	Keith Murray Ian James Alex Coley Tim Duffy	Ordnance Survey Environment Agency British Geological Survey
EU	Gianluca Luraschi	EMSA
EC	Ioannis Kanellopoulos, Michael Lutz, Michel Millot Beatrice Eiselt	EC JRC  EUROSTAT