# Interoperability with GEOSS

## Abstract

The following paper summarizes the current status of the interoperability with GEOSS from the author’s point of view. The author doesn’t claim to have the full picture. Furthermore the paper tries to initiate a discussion regarding the interoperability with GEOSS inside the WIS community and presents different options to improve the interoperability with GEOSS.

### Current status of the interoperability with GEOSS

Some of the operational GISCs are providing a GUI for SRU (Search and Retrieve by URL) which offers the possibility to query the GEOSS clearinghouse (<http://clearinghouse.cisc.gmu.edu/geonetwork>). If I issue an empty query on the portal of the GEOSS clearinghouse the result-set contains 35.198 records. The same query issued at the GEOPortal (<http://www.geoportal.org/>) - which is the main portal for GEOSS - returns more than 25 Million records. Therefore I assume that the GEOSS clearinghouse isn’t any more in sync with the GEO DAB (Discovery and Access Broker). In addition the GEOSS clearinghouse is decommissioned since February 2015 and is not anymore a part of the operational GCI (GEOSS Common Infrastructure).

KMA harvests in an operational manner from the GEOSS DAB the metadata records which fulfill the WIS requirements for metadata records (a valid ISO 19139 document, and in addition a fileIdentifier < 255 chars to be able to exchange the records as files for a backup case). Currently KMA holds 865.782 records which are made available by the GEOSS DAB.

Furthermore GEO DAB supports distribute search and includes the results into the result set. Therefore a pure metadata harvesting approach will always provide only a subset of the search result in GEOSS.

Currently the GEO DAB doesn’t offer a SRU interface.

### Discussion

Taking the reported status above into consideration I want to initiate a discussion

* Does it make sense that the operational GISC still point their remote search against the GEOSS Clearinghouse which is obviously not in sync with the GEO DAB and is not any more part of the operational GCI?
* Assuming that the offered service by KMA is operational would it make sense that the GISC point their remote search against KMA’s service instead against the GEOSS Clearing house?
* Does the possibility to search in the harvested GEOSS records fulfills our requirement for a remote search in GEOSS considering the different sizes of the result-sets for an empty search (865.782 vs ~ 25 million)?

In the following I like to present some alternatives

* If TT-GISC supports the idea I would like to suggest that ET-WISC (or another body) liaises with GEO to encourage GEO to implement SRU again in GEO DAB.
* Taking into consideration that the remote search in WIS is given through SRU I like to suggest that TT-GISC encourages at least one GISC to liaise with GEO to implement a proxy solution which translates a SRU query into a remote search understood by GEO DAB and returns again a SRU response.

### Notes

I assumed that the KMA SRU service offers a possibility to search only in the GEOSS records (like the portal search does). I suggest that this assumption is verified by KMA before the GISC points their remote GEOSS search against KMA’s service.

## Recommended text for report

The meeting noted the presented report from Germany.

[Depending on the outcome of the discussion please fill in the results]

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