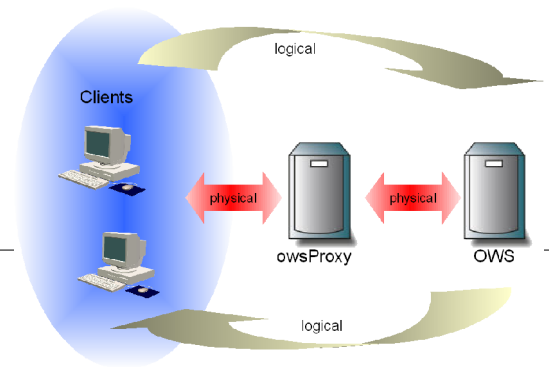


# deegree iGeoSecurity

Secure, yet interoperable access to  
OGC Web Services like WMS and  
WFS



## Funktional Range

The specifications of the Open Geospatial Consortium (OGC) make interoperability in Spatial Data Infrastructures possible. As interface specifications they do not yet cover the subject users, access rights and security mechanisms. A WMS service can be used by anybody who knows its base address (URL). As there is by now a large number of WMS and WFS clients available accessing those services can easily be done. Usually the complete number of data sources of a OWS server is available to anyone accessing it. Access constraints and allowances for specific users or for specific spatial areas is usually not possible. The description of advertised data sources by a service (GetCapabilities) is a necessary prerequisite for interoperability so it cannot simply be omitted. Besides these problems, OWS so far only support communication via unsecure connections, protocols like HTTPS cannot be used.

The solution for this is that proxy in front of the OGC Web Service (OWS) behaves like the OWS itself, but filters in- and output.

## Use case examples

- + A number of views on the OWS is created. Different users only have access to parts of these views.
- + An owsProxy only allows a user access to specific layers.
- + Access can be spatially restricted.
- + The Output can be filtered, e.g. the quality of the output, map size or the resolution.
- + Output can be modified based on specific access rights, e.g. the capabilities document or GetFeatureInfo can be filtered, or a water mark can be put into the map
- + With deegree iGeoSecurity it is also possible to use secure connections and authentication mechanisms.

## Components

- + deegree owsProxy: Proxy for a OWS like WMS, WFS or CS-W
- + User Rights, Roles and Resources (U3R): Database for administration of Users and access rights (including web frontend)
- + deegree Web Security Service
- + deegree Web Authentication Service
- + deegree Web Authentication Client
- + deegree iGeoPortal – security module

deegree iGeoSecurity is like all deegree components Free Software / Open Source under LGPL (<http://www.deegree.org>)



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