

InteProxy Users Manual

Status: Nov, 13th 2006 for InteProxy 0.1

Note: InteProxy is currently in „beta phase“. This means, not all features are implemented yet and usability is not as comfortable as it should be.

InteProxy is a helper for those applications that use HTTP for arbitrary services that also need secure transmission via SSL and user authentication.

The proxy runs on the same system as the actual application.

A typical case are the services that have been specified by the Open Geospatial Consortium (WMS, WFS, etc.).

Download

The current version of InteProxy can be found under http://wald.intevation.org/frs/?group_id=23.

For the Windows operating system you should download the Windows installer package (e.g. „InteProxy-0.1-setup.exe“).

Installation

As administrator on your Windows system, execute the setup program of InteProxy. You will not need to install any other applications.

Usage

Start InteProxy as user via Windows menu. A DOS box is opened where log information will appear. You can minimize the box if you like.

Now in your application prefix the actual URL of the WMS service with the text „<http://localhost:64609/>“.

InteProxy caches the authorization data for each URL. Thus you have to authorize only once per URL. Once you stop InteProxy, all cached data are lost. It is necessary to stop InteProxy and restart it in case you want to log in for a URL where you already authenticated with another user account.

Simple Test (via Web Browser)

With this test you check whether InteProxy basically works and is not blocked e.g. by a firewall.

To test whether InteProxy runs properly, open the web browser and enter the following URL:

http://localhost:64609/frida.intevation.org/cgi-bin/frida_wms?VERSION=1.1&SERVICE=WMS&REQUEST=GetMap

The browser will first request at port 64609 on your local system where InteProxy is waiting for requests. InteProxy raises a authentication dialog for user name and password. For the above URL it does not matter what you enter. After you finish authentication, your browser should now show a map of the city of Osnabrück, because InteProxy executed the actual WMS request

(frida.intevation.org/cgi-bin/frida_wms?VERSION=1.1&SERVICE=WMS&REQUEST=GetMap)and relayed the answer to the browser. Especially, InteProxy uses the protocol „https“ and not „http“.

Full Test (via OpenJUMP)

The desktop GIS „OpenJUMP“ (www.openjump.org) is Free Software and supports WMS 1.1.1 layers in the map view.

Start InteProxy and OpenJUMP. In OpenJUMP choose menu „layers“ and then item „add WMS request“. You will be asked for a URL. Enter this one:

<http://localhost:64609/inteproxy-demo.intevation.org/cgi-bin/frida-wms>

For the use of the data two accounts are available:

User/Password = meier/meier: Allowed to view any WMS layers

User/Password = schmidt/schmidt: Allowed to view all WMS layers but the roads

If you authenticate as „meier“, the layer choice contains more than layers than for user „schmidt“. Note, that due to the password caching you need to stop and restart InteProxy to change the user.

Limitations and Perspectives

Currently, InteProxy expects a deegree OWSProxy on the server side. Any other proxy that uses the URL parameters „user=“ and „password=“ will work as well.

It is very simple (because already implemented) to have InteProxy use the standard HTTP authentication method. If a corresponding server is used, you need to uncomment the deegree-specific element (user, password) in the source code.

A adaption for MapBender OWSProxy is also relatively easy to realize („sid“ and „wms“ instead of „user“ and „password“).

User-friendliness (graphical dialogs) of these (and other) configurations are planned.