







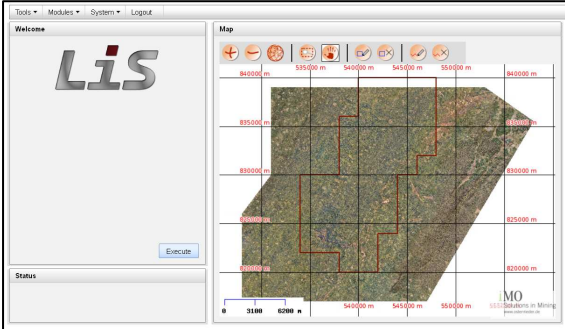
## Introduction



iMO offers enterprises dealing with lidar data sets a professional solution for centralised data storage and administration in combination with a web browser based access to the data. Client data are stored on an external server using Lis Server as database. The scaleable data base model allows the storage of airborne, terrestrial and mobile laser scanning data sets as well as conventional raster data like aerial images, intensity images or maps. A web interface called Lis Webinterface provides access to the external server via an interactive web view.

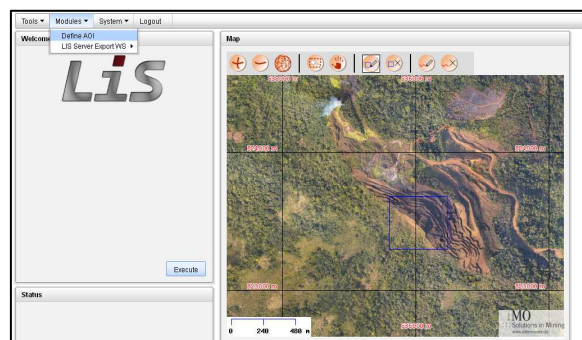
To introduce the system to potential users, iMO has installed 3 sample projects on an external server. The following describes the handling of the web interface to access and manipulate those Lis Server projects.


## Description

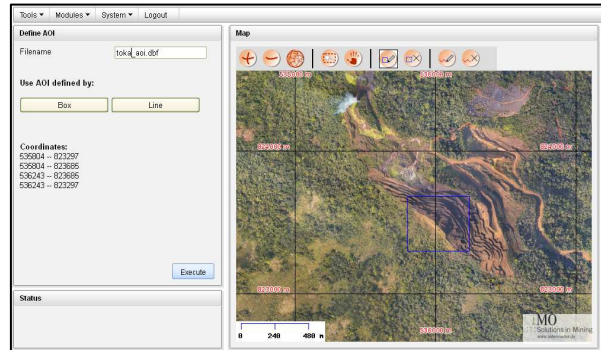
- 1) Use the following link to visit the “News” section of the iMO web site:  
<http://www.ostenrieder.de/news/>
- 2) Choose for instance the link “*mining concession*”.
- 3) A *Login View* is opened. Use “xxxxxx” as user name and “yyyyyy” as password.

- 4) The adjacent screen view is displayed. The map window on the right of the screen is showing an overview image of the project area. The top menu bar contains all control options. In the left window all necessary parameters to execute the functionalities are prompted and the *Status* window on the bottom serves for reporting. With the ,  and  icons the map window can be zoomed in. Clicking the -icon allows to go back to the overview. By the -icon rectangular areas and the -icon polygonal ones can be flagged. For this example the area, for which data can be downloaded from the server is surrounded by a red polygon.
 

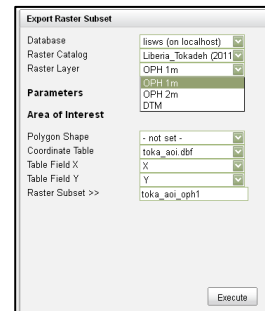
- 5) To download data execute the following steps.
  - a. Zoom in an area of interest using the -icon.
  - b. Create a rectangle around the area by using the -icon. Hold the left mouse bottom, while drawing the rectangle. In case you wish to change the



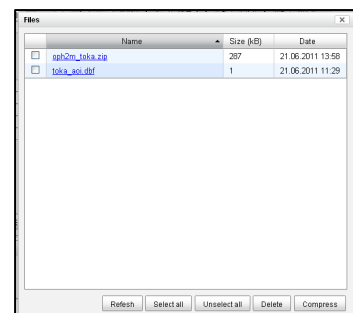
selection, click the -icon to remove a selection. Go to the *Define AOI* option under the *Modules* menu. Enter a file name in the *Filename* field, for instance *toka\_aoi.dbf*. The file name must have the extension *.dbf*. Click the *Box* option under *Use AOI defined by*. As result a list of coordinates is displayed representing the corners of the area of interest. Now click the *Execute* bottom. This stores a file with the area of interest on the web server.



- c. Go to the menu option *Modules / LIS Server Export WS/ Export Raster Subset*. The adjacent image shows the menu displayed now on the left side of the screen. For this example project only one *Database* and one *Raster Catalogue* are stored on the server. Therefore leave the default options of the accordant drop down fields. For the *Raster Layer* are currently existing various options. The first option, a digital ortho photo with a ground resolution of 1 pixel per meter is stored under the name OPH1m. The second option (OPH2m) is a digital ortho photo with a resolution of 1 pixel per 2m. The third option (DTM) represents a digital terrain model in xyz format with a ground resolution of 1 point per m<sup>2</sup>. Choose for instance OPH2m. As *Coordinate Table* select now *test\_aoi.dbf*, which is the name of the file created, while defining the area of interest. Under *Raster Subset* fill in the name, that you want to give the data set, which is going to be created, for instance “oph2m\_test”. Now press execute. LIS is extracting the data from the data base into a separate file, which is then stored on the web server. This process might take a while depending on the size of the area of interest.



- d. To download the data from the web server use the menu *Tools/ File Manager*. The window beneath will be expanded. Two files are displayed. The *test\_aoi.dbf* is the file containing the corner coordinates of the area of interest. The *oph2m\_test.zip* is containing the geo tif image. Double click this file to download and store it on your hard drive. Unzip the data on the hard disk. Now the process is complete and the data can be used locally for any purpose.



To download digital terrain model information or a section of the digital ortho photo with 1m resolution use the same procedure, just use a different Raster Layer. All files,

which have been produced on the web server will stay available until they are deleted by using the file manager. Just select a file by clicking the box on the left hand side of the file name and press the *Delete* option on the bottom of the window.

## **System Advantages**

- Central data storage and distribution
- Centralised data updating
- Multiple user access with password protected user administration
- No restrictions to a sheet line system

## **iMO's Services**

iMO offers the following data management services

- Project setup
- Data update