

## PRODUCT SPECIFICATION

1

### Overview

The AL.VIS/Images is a network-based, multi-user web application for managing digital images. The application is designed as an internet solution for managing large databases. This includes the creation, management, searching, and export of images.

The software is based on a reliable technology, delivering high-performance, and stable applications. This includes the use of Microsoft .NET technology, an efficient database system and the IIS web server. The GUI is also based on Ext.NET and Sencha Ext JS, ensuring that a modern interface with extensive functions is installed.

### Product Features

#### Sharing Images

- User web interface for simple search
- Download of individual data sets as Zip archive or in personalised shares
- Interfaces for searching, displaying metadata, and previewing photos
- Creation of dynamic watermarks for export
- Different print layouts

#### Different Views

- Detail view and data editor
- List view
- Thumbnail previews
- Easy browsing through search results

#### Technology

- Microsoft .NET Framework 4.5.1 for application development
- Windows Imaging Components for image processing and analysis
- Ext.NET-based web interfaces
- IIS web server
- User interface: Internet Explorer, Chrome, Firefox, Opera
- Database system for data management – Microsoft SQL Server 2008 or higher, Oracle 10 or higher, Postgre SQL/PostGIS
- Image data storage using network share - Optional: storage in database

#### Organisation and Structuring of Image Data

- Image categorisation
- Classification of images into different image groups
- Author and recording date/time management

**PRODUCT SPECIFICATION****2*****Data Import***

- Upload of several images simultaneously using the web interface
- Synchronisation of the database with a network folder
- Automatic extraction of metadata (EXIF, IPTC)
- Link to ActiveDirectory, for retrieving and storing information about the creator (e.g. name, e-mail)
- Support of standard image formats: BMP, GIF, JPEG, PNG, TIFF; other optional extensions using plug-ins

***Administration***

- Path adjustment for storing images
- Configuration of available meta data
- Editing of image categories

***Software Security and User Permission Management***

- Management of data in separate shares
- Access permissions for Active Directory groups

***Support of Geo Tags***

- Presentation of the geotagging location on a map
- Map-based selection of images

***Interfaces***

- Provision of open service interfaces – Standardised WSDL description, Service provides answers as XML or JSON
- Configurable database-based application interfaces
- Support of Cardo interfaces (web-GIS)

***Search Options***

- Search by title, description, categories and groups
- Search in meta data content
- Map-based geographical selection

***Languages***

- Application interface in german and english