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Visual Logistics

Tailored Software for Logistics Business

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3-u Software-Concepts

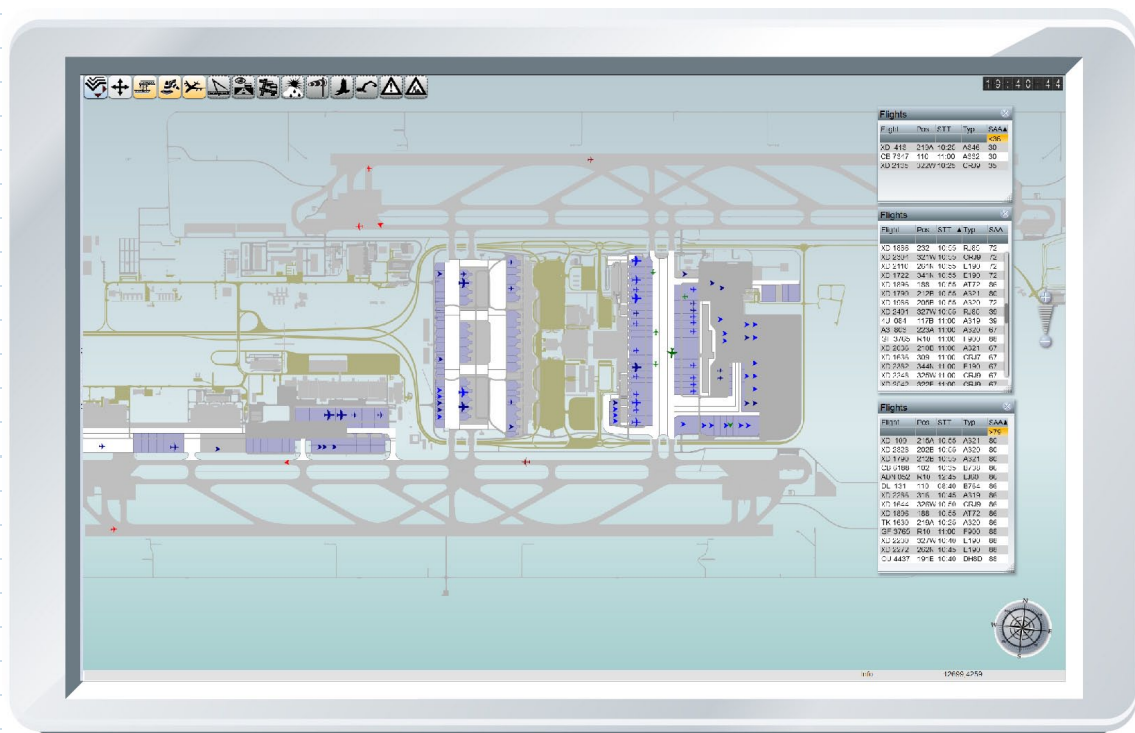
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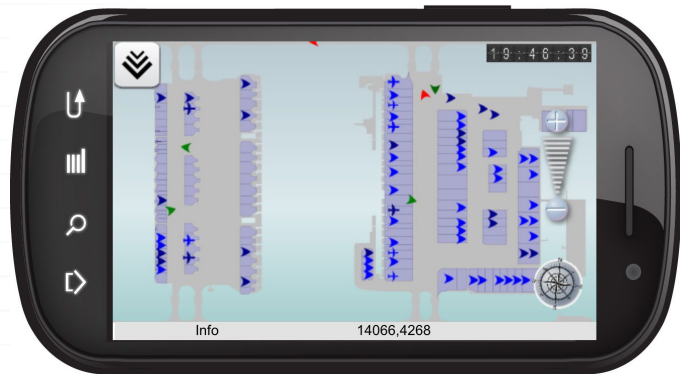
I. Introducing Visual Logistics

Visual Logistics - Tailored Software for Logistics Business

Visual Logistics is a web-based system with emphasis on the requirements of locally area-restricted logistic enterprises such as airports. It provides an overview of a defined workspace and manages all strategic data in a specialized graphical user interface - as shown in the following images. We have used iPhone, iPad, Android HTC Desire and Samsung to give you a small insight into the variability of Visual Logistics.



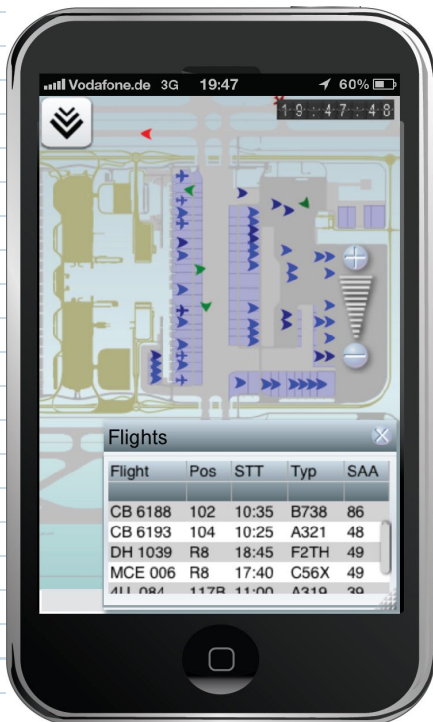
PC: The image shows the view incl. streets, buildings, and various flight listings



Android Smart Phone: The image shows the map with collapsed toolbar.



iPad: This image shows the editing of closures.

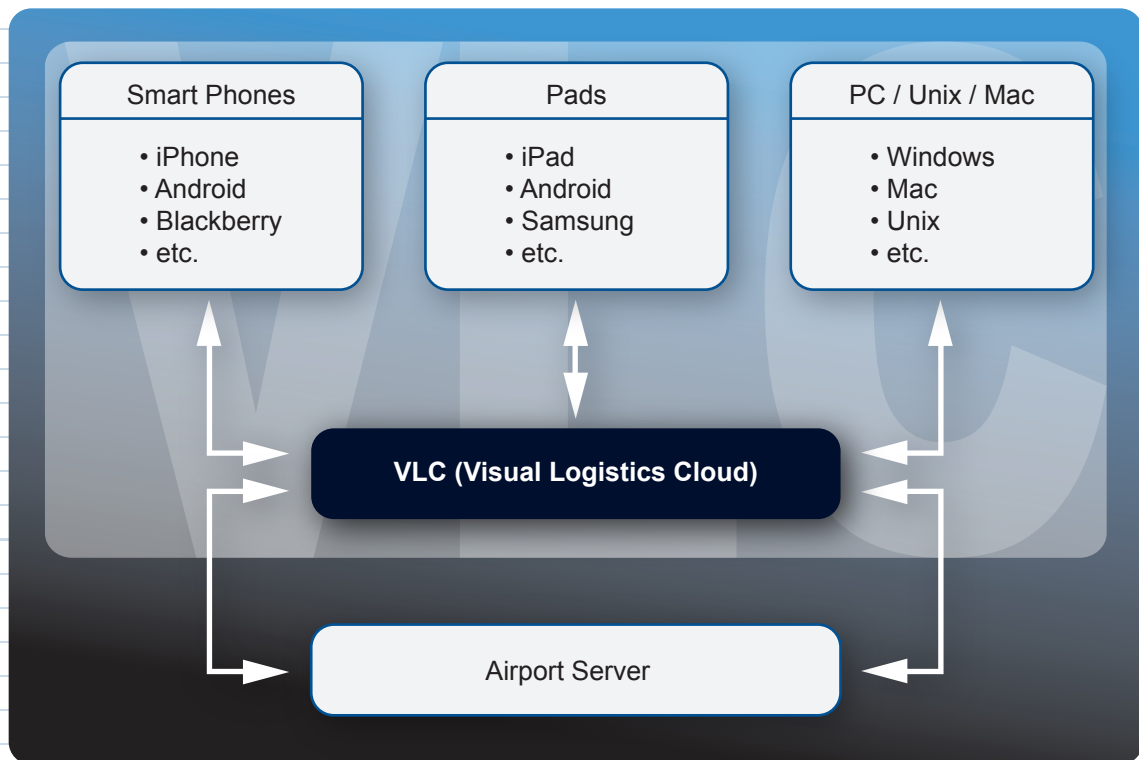


iPhone: This image shows the map with collapsed toolbar and with a flightlist.



The concept behind Visual Logistics lies in the centralisation of data and the ability to edit and view it by using web browsers. Technology in web browsers allows for a complete new approach with amazing results.

Visual Logistics takes advantage of the cutting-edge technology browsers have to offer and of utilizing the possibilities of the Cloud.



Airport clients can be loaded either on a web browser or as standalone applications exchanging data with the Visual Logistics Cloud. We can supply the complete infrastructure including airport-clients. Every client can be adjusted to each customer's requirements.

The airport's back end data server sends data, updates it to the Visual Logistics Cloud and will then receive in turn updates from the Cloud. The Cloud is a partial data replication layer of the airport's data.



II. Clients

The Client accesses data in the Visual Logistics Cloud and displays it for the user. The user edits the data and the client updates the data in the Visual Logistics Cloud.

The client needs an application for this service. Visual Logistics uses modern browser technologies. Any modern browser that supports HTML5, such as Firefox, IE or Safari on a Macintosh, PC (Windows or Unix), pad or a smartphone is able to use a Visual Logistics client or several. Modern browsers are capable of displaying the complex and rich data.

Visit our homepage at <http://www.3-u.com> to get a first-hand impression of the features and abilities of Visual Logistics.

We work with an extensive range of different clients. Each client is tailored to visualize the data in the Visual Logistics Cloud for special purposes as shown below.

Data in the VLC Cloud	Specification
Flight status (Approach, On block, Boarding)	Groundhandling, Airlines, Public Viewers, Customers
Flight movement	Apron Control, Flight Control
Closures	Apron Control, Flight Planning
Runway Closures	Apron Control, Flight Control
Construction Sites	Apron Control, Business Partners, Construction Workers, Flight Planning
Emergencies	Apron Control, Flight Control, Fire Department
Flight List (Approach / Departure)	Flight Planning, Apron Control, Groundhandling
Birdstrike	Apron Control, Flight Control, Emergency Services
Wildlife Control (Counting)	Environmental protection
Damage Control (Lights and Signs)	Apron Control, Service Staff
Winter Service	Apron Control, Flight Control, Driver / Disposition of Winter Service
Weather Information	Apron Control, Flight Control, Winter Service
Runway Condition	Apron Control, Flight Control, Airlines
Passenger Transport	Groundhandling
Vehicles	Groundhandling, Apron Control, Repair Shop
Findings on Runway / Taxiway	Apron Control
Cameras	Security, Apron Control, Fire Department

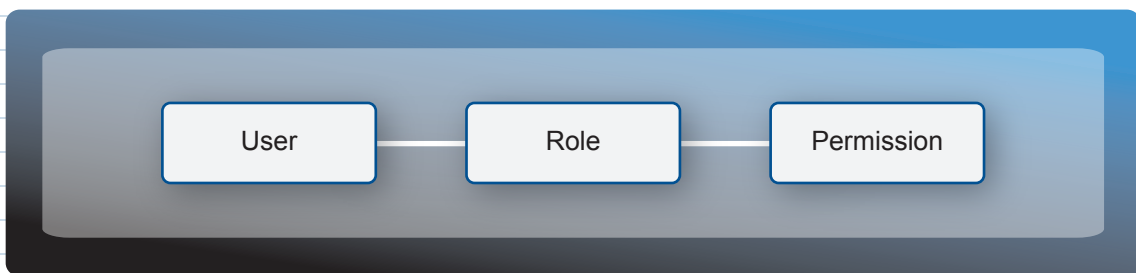
Any plugin can be exchanged, customized and added to enhance the support for every group using Visual Logistics.



Configuring a client

Any element within Visual Logistics is a plugin. Users have access only to the plugins they have been authorized to use. It is necessary to specify which plugin users are able to see and also to which extent they will be able to change its contents. In some cases it may be sufficient to only give users the ability to view data.

Visual Logistics uses a role-based system to authorize and grant permissions to users:



The administration interface will enable you to define the user's permissions.

Recognizing users

Any user may be identified by three limitations:

1. Public users / Guests are limited to only being able to view specific parts of the application and are restricted from making modifications (read-only role).
2. Logged on users have to go through an authentication gateway prior to gaining access to the application and being able to make modifications
3. Trusted Hosts user are identified by their login on the host they are using. This is the preferred way for most users working in an airport.



2. Visual Logistics Cloud

The Visual Logistics Cloud is the central data base for the clients. It has a role-based access system. Every client logs into the Cloud and then receives views and data adjusted to their permissions.

The administration interface of Visual Logistics Cloud configures roles and access levels and defines the interface for exchanging data with the Cloud.

The number of Clouds is limitless. It is possible to start as many Clouds as you need by using different configurations.

By default it is recommended to maintain three different environments on your servers: Testing, Training and Production.

- **Testing**
This is for testing new features. Updates are installed here. The user can test the new features and request a production release.
- **Training**
At least one or two Clouds are running for training purposes. Here you can train your employees, show them new features or refresh their knowledge.
- **Production**
This is the Cloud with real online data. Only tested and cleared features will make it to the online Cloud.



III. Cloud Admin

The Visual Logistics Cloud has an admin interface. The admin interface allows the airport access to the configuration of the Cloud.

Add / Edit / Remove Permission

Every provided plugin has a unique ID and sub-IDs for various functions. A permission can be granted to access the plugin and its functions.

Add / Edit / Remove Roles

Permissions are grouped into Roles. Any role consists of one or more permissions.

Add / Edit / Remove User

A user is known to the system and has a name, an optional password and one or more roles. A specific group is the „Public User“ which has no password. A user might be identified by other means than a password, e.g. Windows-login.

Add / Remove plugins

Plugins are the building blocks of the front end. A plugin displays and edits data.

Add / Remove / Change DB

The Cloud database (DB) contains the data of the clients and can be altered at any given time. However, removing and changing might be a hindrance to the function of plugins. Every change should be done in the test Cloud first.

Two admin interfaces are supplied:

Administrator

The Administrator is the head administrator. The Administrator has full access to all interfaces.

Power User

The Power User has limited access. The Administrator can assign and define permissions and users to a group and allow users of this group to edit their roles.