OmniAccess

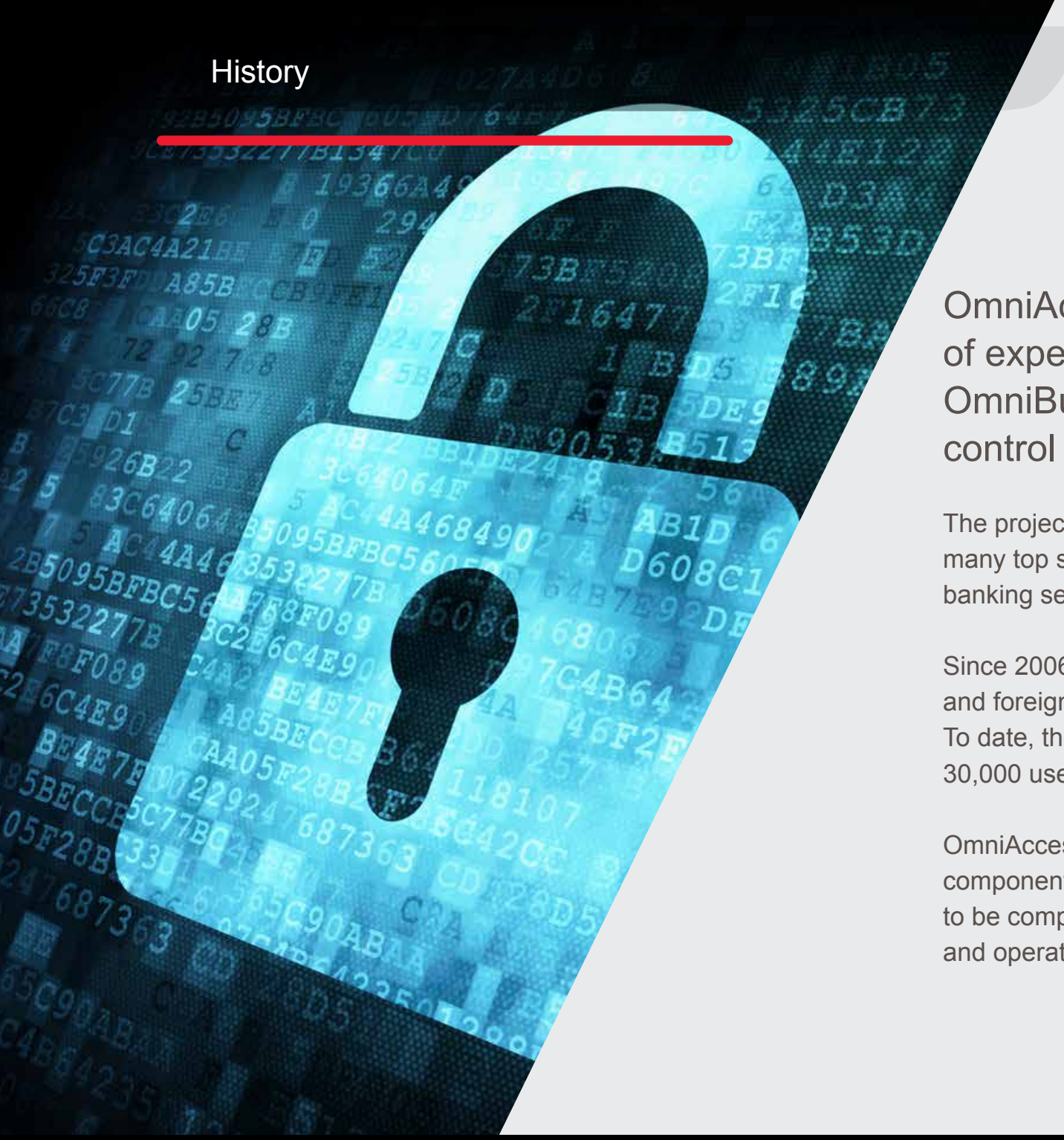
The world of access control

The innovative and
modular solution
in the world of Access Control

Engineering OmniBus

Intelligent Building

History



OmniAccess stems from decades of experience of the members of OmniBus in the field of access control and building automation.

The project started in 2004 in cooperation with many top security managers in the commercial banking sector.

Since 2006 OmniAccess is offered on both Swiss and foreign markets.
To date, the system manages a total of more than 30,000 users and several thousand gates.

OmniAccess is constantly maintained and its components are in line with the latest technologies to be compatible with current hardware and operating systems.

Struttura

1. OmniAccessSuite

TCP/IP Network

2. FieldServers

LON Network

3. GateControllers

1.

Software level:
Includes the user interface, the functions to manage and archive data, and the operational services of the system.

2.

Control Hardware:
This level consists of the network of field-servers, i.e. the hardware components “instructed” by the software level to independently manage accesses.

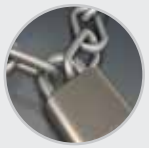
3.

Operational hardware level:
This level contains all hardware components that physically deal with user identification (badge readers, biometric, ...) and the control of gates (gate controller, openers, sensors, alarms).

OmniAccess Suite: The software modules

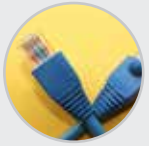
CORE	OmniConsole	The console for the operator
	OmniGateway	The interface towards authentication and gate control hardware
PLUG-INS	OmniDB	Application for data management
	OmniAlert	Reporting module of alarms via e-mail
	OmniStatus	Monitor for system operation
	OmniMap	Graphical display of gates and areas on layouts
	OmniAgent	Scheduler of access rules
	OmniExport	Automatic export of historical events
	Presence	Analysis present/absent, total time and detail
	Material supplies	Management of materials assigned/delivered to users
	Visitors	Module for the management of external visitors

OmniAccess Suite: Workflow



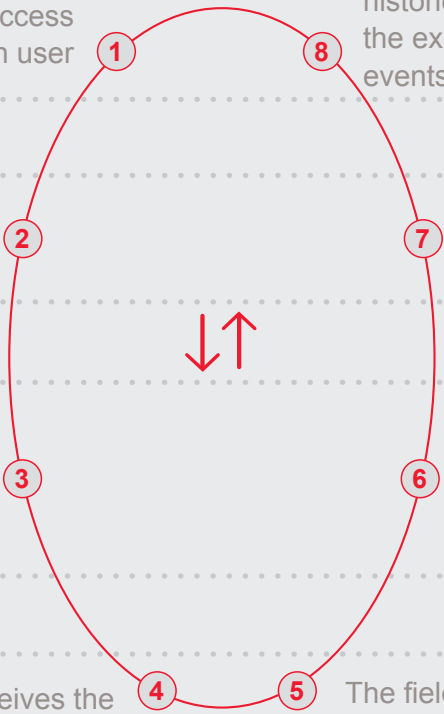
OmniAccessConsole

OMNIDB



OMNIGATEWAY

FIELD SERVER
& GATE CONTROLLER



1. The operator enters registration data, as well as rights and access rules for each user
2. User Master Data and transit rules are stored in the database
3. The data is transmitted to the field server concerned with the management of gates enabled for the user
4. The gate controller receives the user-ID, requests confirmation to the server to authorize transit, and manages the gate lock
5. The field server stores locally the event of transit or any errors
6. The gateway retrieves the event data from the field server and stores them in the database
7. The events are stored in the database
8. The operator has access to the historical data to view and analyze the executed transits and received events.

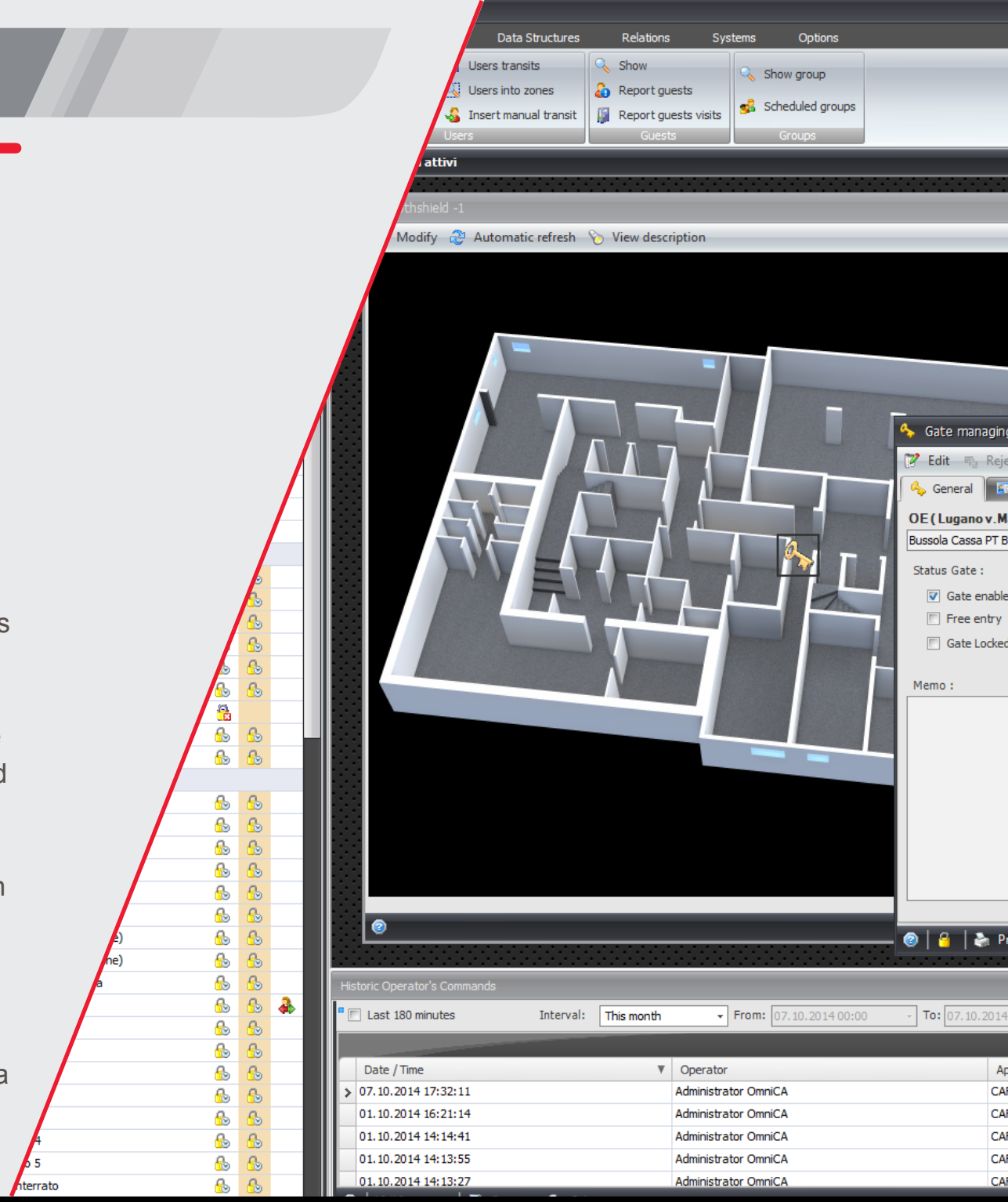
OmniAccessSuite: OmniConsole

A single interface to manage the entire system.

From the definition of the hardware, the central user register, the temporal rules, to the analysis of the data. Compatible with the Microsoft Office guidelines for a more rapid learning of the usage for the operator.

Infinite number of operator profiles, and operators with restricted access to specific sets of functionality.
More than 230 functions available. No limit to the number of users, groups, areas, maps, gates and readers.

Real-time monitor of transits, alarms, presence in areas, and state of the hardware modules.
Event history limited only by the characteristics of the database (one million
transits generate about 300MB of data).
Possibility of internal reporting and exporting data
- Excel, CSV, XML, .. - for all main tables.

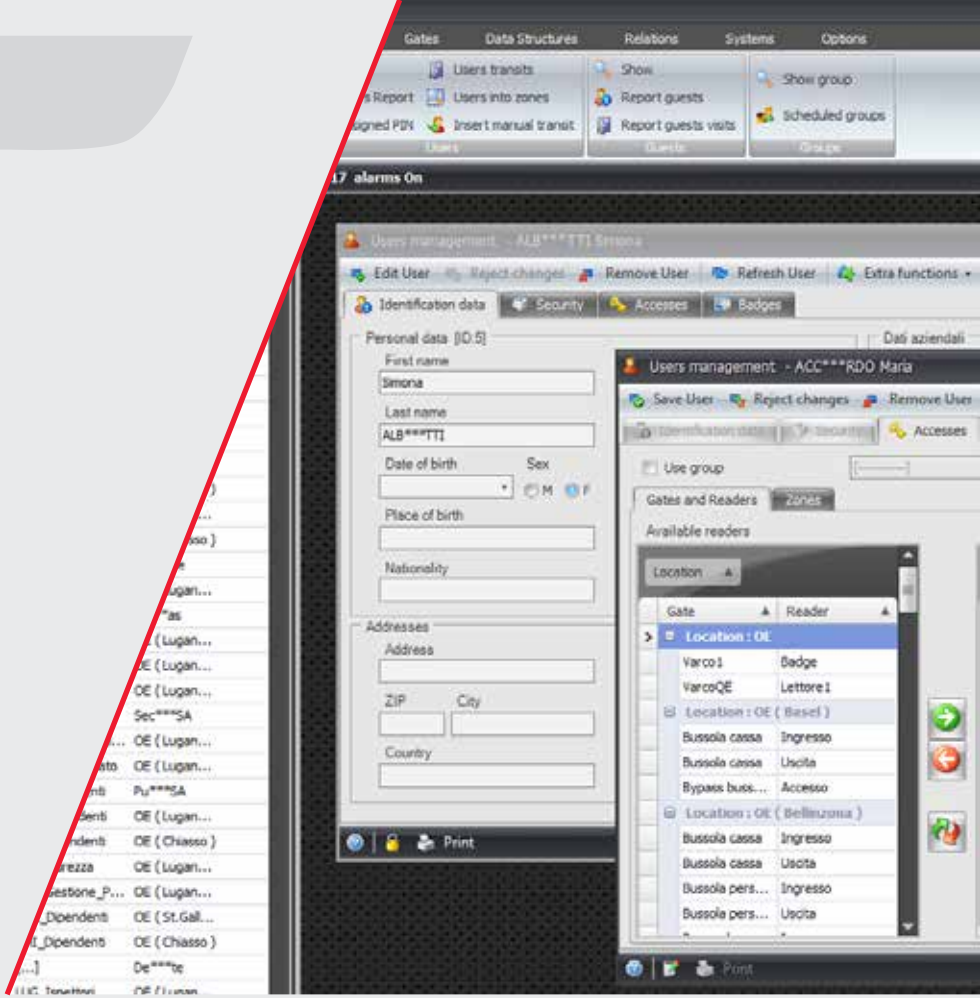


OmniAccessSuite: OmniConsole

- accesses
- presences
- absences
- duration

- operating parameters of the gates
- scheduling rules for identification
- customized log for events and alarms

- profiling users and operators
- management groups and access areas
- temporary modification of access rights
- export functions and reporting



1.

Ability to create an unlimited number of users and gates.
Functions for the analysis of user presence: presence/absence, first/last access, duration of presence.

2.

Integrated management of gates
with the possibility to intervene directly on the operating parameters.
Relationship functions between groups, users, and access points.

3.

Complete user management.
Central registry, capturing photos from webcams, customization of access for gates or areas, no limit to the number of gates and badges assigned to the user.
Search functions for last transit and link of user with an archive of assigned materials.

Standalone Architecture

All modules of the suite reside on the same computer.
• OmniAccess | OmniDB | OmniGateway | OmniAlert | OmniStatus | OmniAgent | ...

All hardware modules reside within the same network.
• LAN LON | Gates | Turnstiles | Badge readers | Biometric readers

Networking Architecture

All modules can be installed on different computers.
Several operators may work simultaneously.
The management of readers may be divided into subnets optimizing performance and reducing disruptions in the event of a network failures.

• OmniAccess | OmniDB | OmniGateway | OmniAlert | OmniStatus | OmniAgent | ...

Hardware modules may be distributed throughout a WAN
• LAN LON | Gates | Turnstiles | Badge readers | Biometric readers

Field Server

Field Server

- This module interfaces via LAN with OmniGateway from which it receives all data concerning badges, corresponding authorization, time slots, exceptions, and holidays. Based on these data the field server independently manages access to the gates associated with the device.
- The Field Server stores locally all transits, alarms and events received from the gates and transmits them via LAN to OmniGateway to be archived in the database.
- All communications between LAN Server and Field OmniAccess are encrypted using a proprietary algorithm.

Field Server

- LAN interface towards OmniAccess
- LonWorks ® FTT-10 interface to the hardware for the management of gates and home automation systems.
- Support for up to 8 gates with readers for entry and exit.
  Management of up to 16 readers/gates.
- Management of up to 20,000 badges.
- Management of 500 temporal rules of access,
  500 exception time intervals,
  500 holiday periods.
- Archiving of up to 30,000 alarm
  and transit events.
- Management of events transmitted from burglary and fire stations.
- One digital output and two programmable digital inputs.
  RS-232 Interface.

Gate Controller

Gate Controller

- This module is responsible for managing the hardware of the gate.
- Captures the badge data from the two readers connected via Wiegand or Data/Clock.
- Acquires the state of the magnetic contacts of the handle and the door opener.
- Captures the command for a possible door opener button.
- Manages the command to open the electric lock.
- Communicates with Field Server to receive permission to open the gate and sends to the Field Server events of transit or alarm.

Gate Controller

Interface LonWorks FTT-10 toward Field Server
and home automation systems.

Wiegand or Data/Clock interface for two card readers.
Each interface has one digital input and 3 digital outputs
for the management of audible
and visual signals on the readers.

Two digital outputs for electric locks,
NA and NC, 60W -125VA - 220VDC - 250VAC - 2A.

5 digital inputs for potential-free management
of magnetic contacts, the door lock release keys ‘Exit’,
and the signals in case of burglary,
fire or tampering.

OmniAccessSuite **Base Solution**

- Single operator standalone solution
- One workstation OmniConsole, one single OmniGateway module
- Optional plug-ins
- Possibility to upgrade to Networking version

OmniAccessSuite **Network Solution**

- No limit to the number of OmniConsole to be installed (optional licenses)
- No limit to the number of OmniGateway to be distributed within the network (optional licenses)
- Optional plug-ins

Options

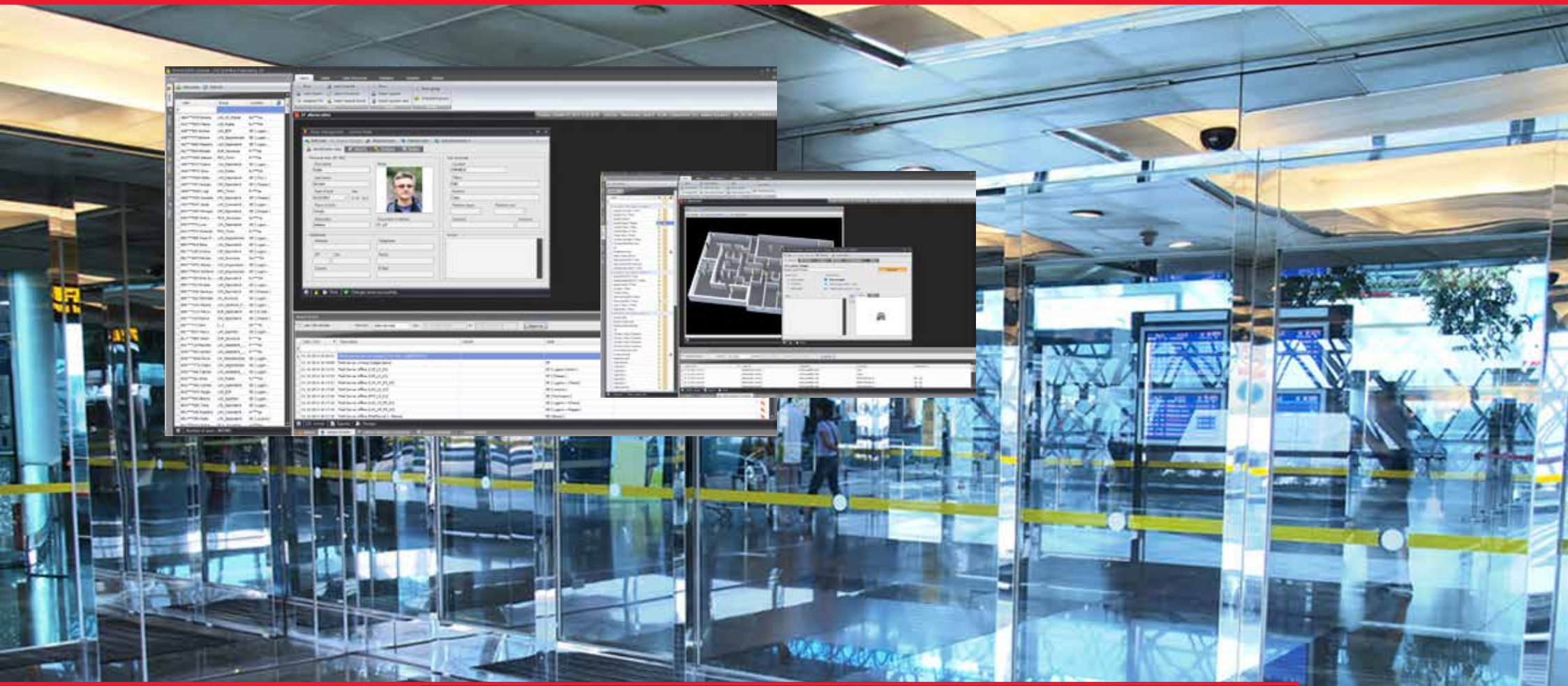
	Base Solution	/	Network Solution
Upgrade to Network Solution	●	/	
Licensing additional badges	●	/	●
Licensing additional OmniConsole		/	●
Licensing additional OmniGateway		/	●
OmniAlert		/	●
OmniConsole: Material management	●	/	●
OmniConsole: Management guests	●	/	●
OmniConsole: Presence management	●	/	●
OmniMap	●	/	●
OmniAgent: Exceptions groups	●	/	●
OmniAgent: Exceptions gates and readers	●	/	●

Projects

Banca Popolare di Sondrio


LAC - Lugano Art and Culture Center


NGS Net Global System Nigeria



Banca Popolare di Sondrio

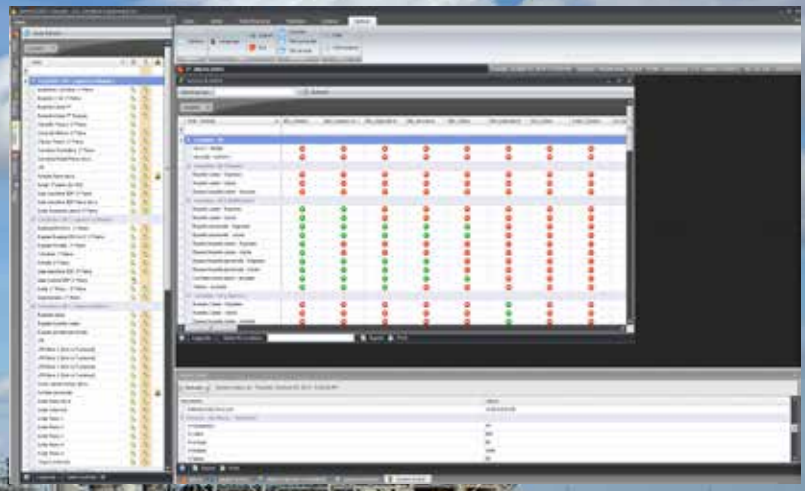
The main office and 24 branch offices throughout Switzerland are connected via a single access control system.
In addition, the management of lighting and blinds is implemented using OmniBAS.

- *24 locations*
- *21 external companies*
- *750 users*
- *154 profiles*
- *1700 badges*
- *134 gates*
- *210 biometric readers*
- *1850 daily transits*
- *Over 3 million recorded transits*

LAC - Lugano Art and Culture Center

Access control system for each area of the museum and the theater.
Access scenarios for the transport of art objects and management of performances.
Recognition of biometrics, badges and pins.

- *Over 90 gates*
- *600 users*
- *110 control modules*
- *Integration burglary/fire Securiton*
- *Integration elevator Falconi*
- *Integration SCADA Comsa Emte*



NGS Net Global System Nigeria

OmniACCESS manages all accesses to the entire oil complex with more than 12,000 employees across the country. Users are identified via HID proximity badges and Dibis Lon for biometrics.

- *14 locations*
- *12000 users*
- *20000 badges*
- *260 gates*
- *15 router LAN/WAN*
- *Over 37000 daily transits*

Contacts

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