Faccess system

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Technical specifications

Faccess System

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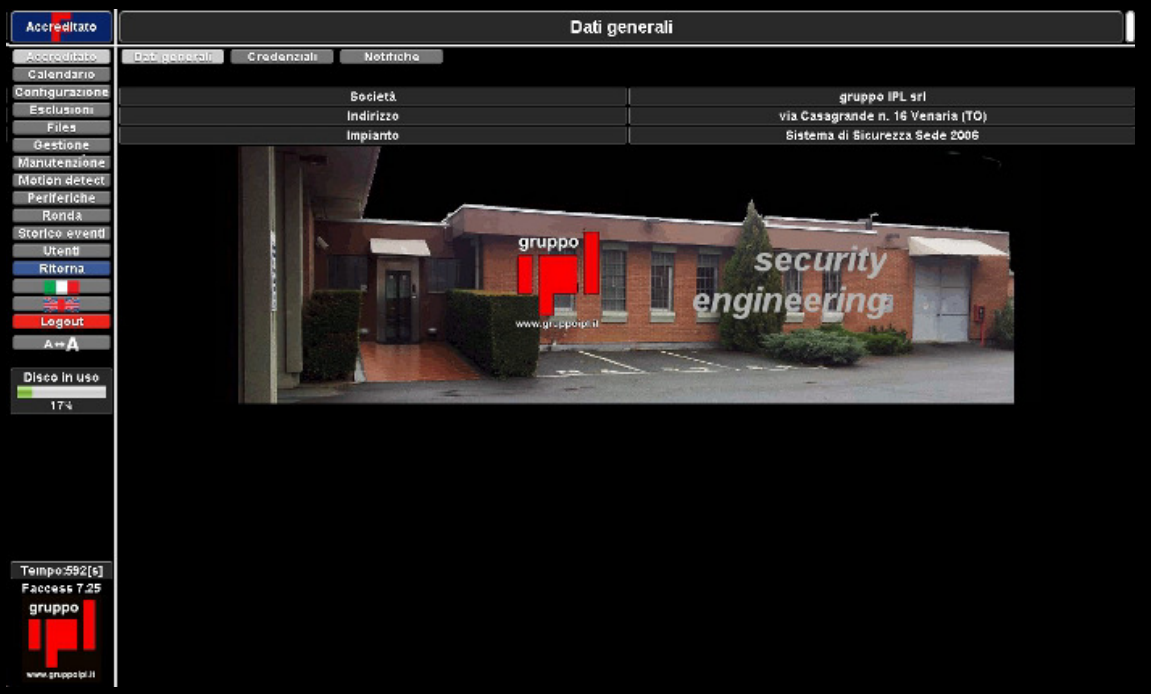

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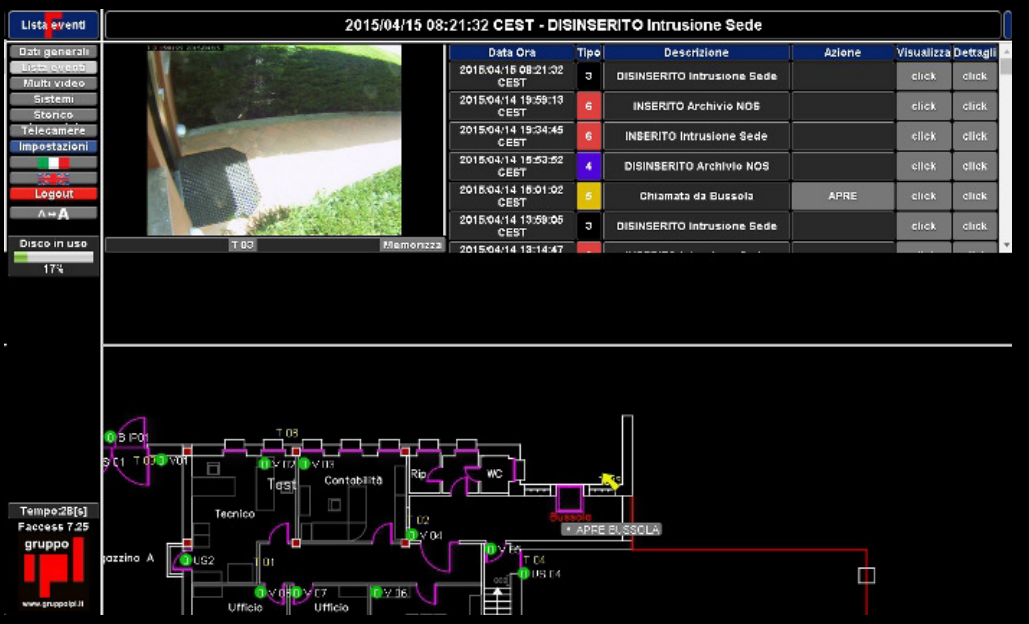

Preface

Faccess is a geographically distributed security system able to:

•detect alarms/events from remote intelligent peripherals;
•receive/send digital/analog data in real time from/to peripherals;
•capture images for both real time visualization and historical archive;
•grant access to sensible areas after identification via bio-metrics access points;
•dispatch SMS messages and/or emails;
•handle users connected via HTML5 browsers.

Faccess objective is to realize systems more and more:

•maintainable;
•reliable;
•less expensive;
•continuously growing;
•user friendly;
in adherence to standard.

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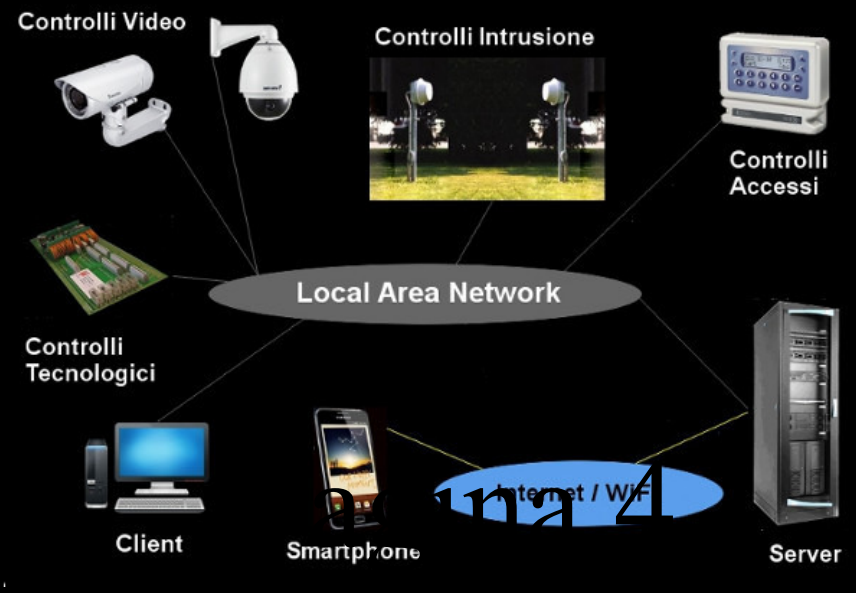
Architecture



bBBasic architecture components are:Network – based on TCP/IP, any carrier: copper, optical fiber, radio. Radio link is discouraged in critical paths.

•Nodes – intelligent routing between carriers, eventually with redundancy and spanning tree on critical paths.

• Server – core of the Faccess System, where all information from the field are analyzed, stored and available to clients. Where hi-reliability is mandatory, computers and/or storage may be redundant. Operating system: Linux.

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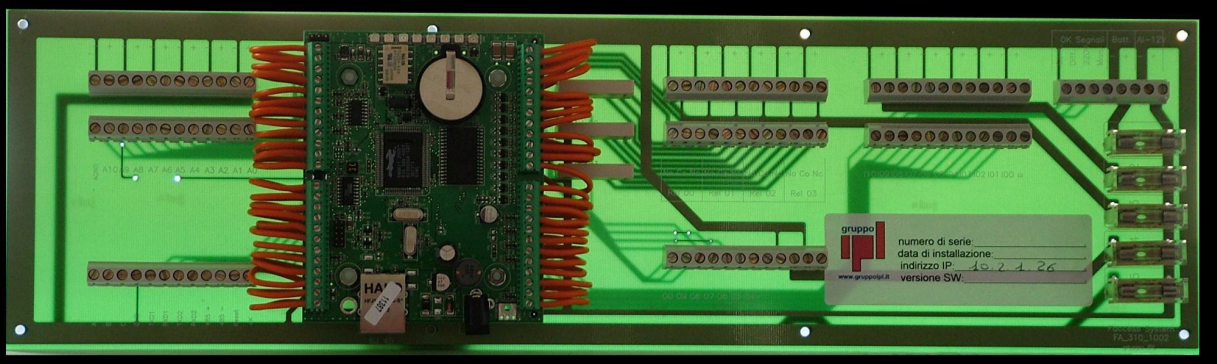

•Field supervisors – network connected peripherals with analog and digital I/O in order to keep Faccess informed on the real time situation of the field. Analog balanced lines are used in order to have more diagnostics on wire status. Field supervisors run local programs, so they are able to identify events / alarms and send them to Faccess. In case of network failure, they may also react locally to prefigured situations.

•Access control – network connected ID readers, usually with biometrics, RFID, Badge, keyboard etc etc. Once Faccess receives ID info, coherent with user capabilities, access is granted.

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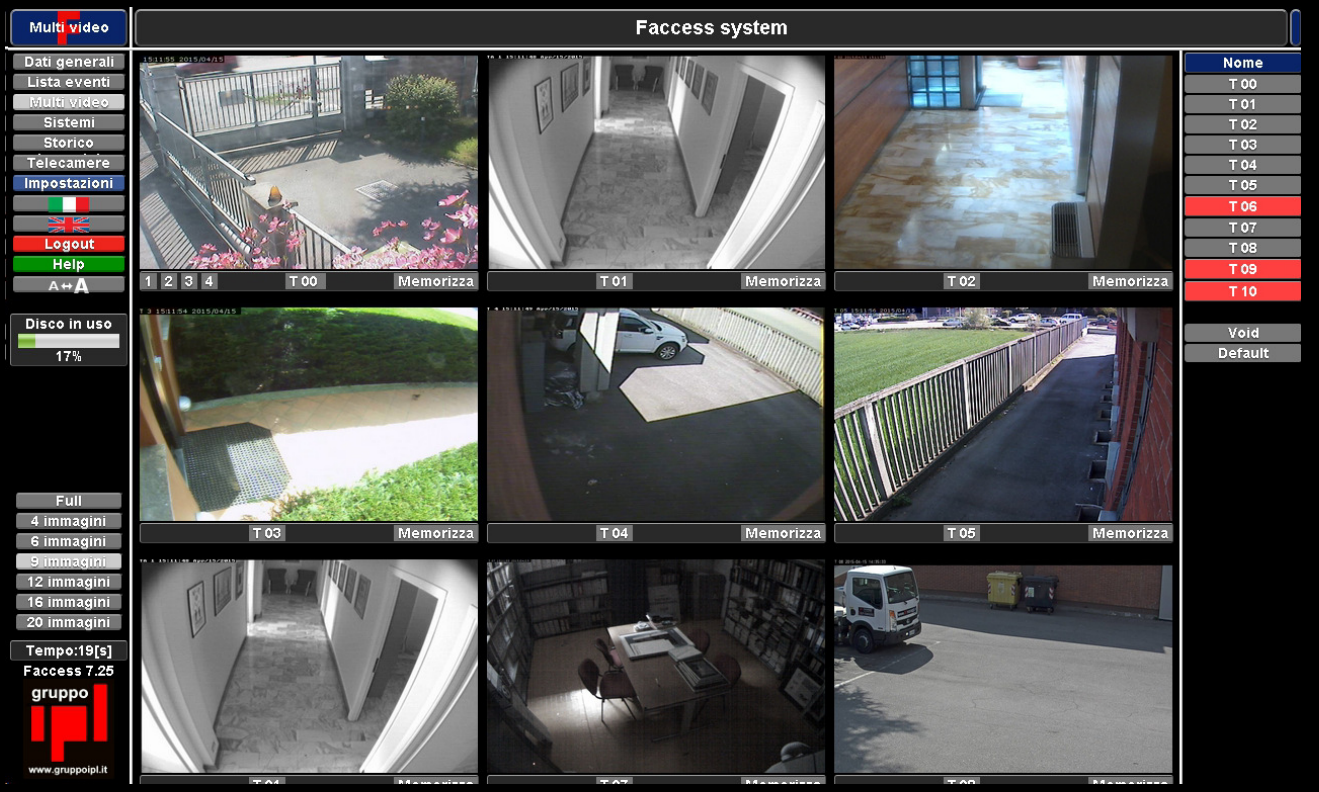
•Network cameras – able to send, upon request, single images or video streaming to Faccess system.



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Faccess software

Faccess uses resources from both client and server in order to achieve:

•event / alarm detection and handling;

•continuous diagnostics on media and equipment, with immediate alarm on failure;

•data base connection for fast data retrieving;

•remote alarm / event with SMS, email etc etc;

•remote maintenance for better and quick problem solving;

•backup hardware information;

•map 2d/3d with focus on critical area in case of alarm / events;

•real time images of critical area in case of alarm / events;

•image replay of past data;

•image replay of past alarm / events;

•motion detect for intelligent data compression;

•full camera control, whereas possible;

•video export with date/time info as subtitle.

Software architecture guarantees scalability and modularity..

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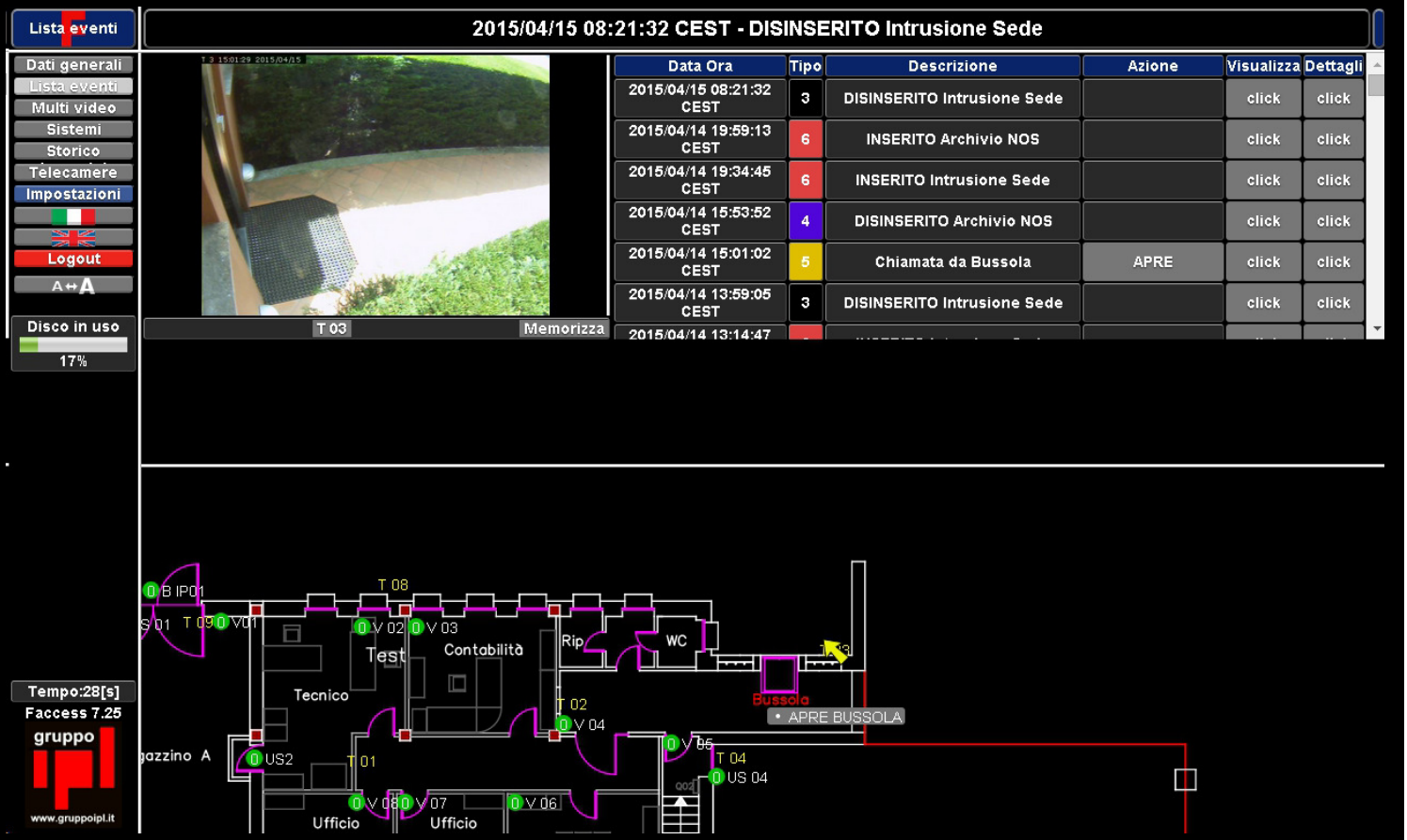
Some pictures



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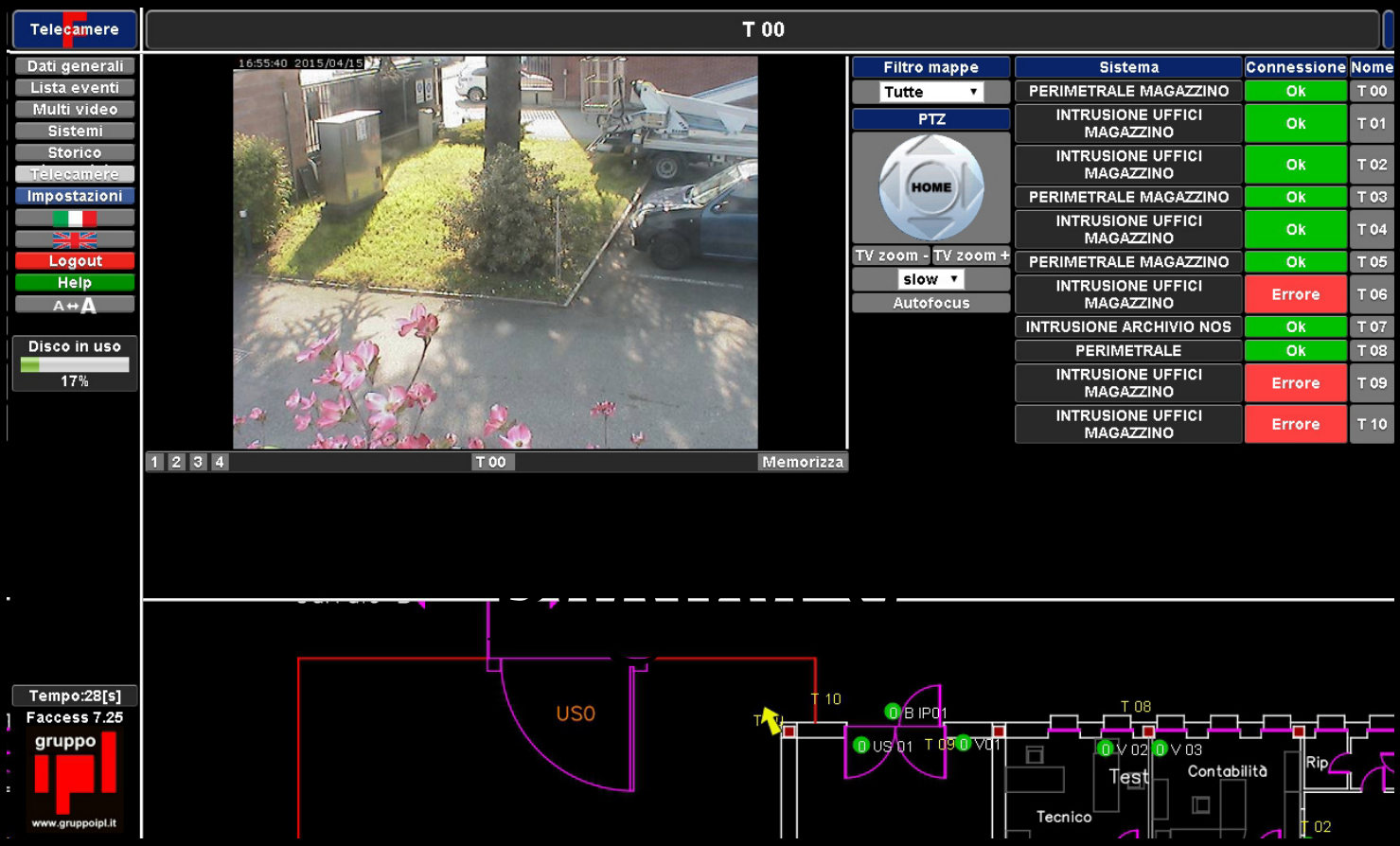

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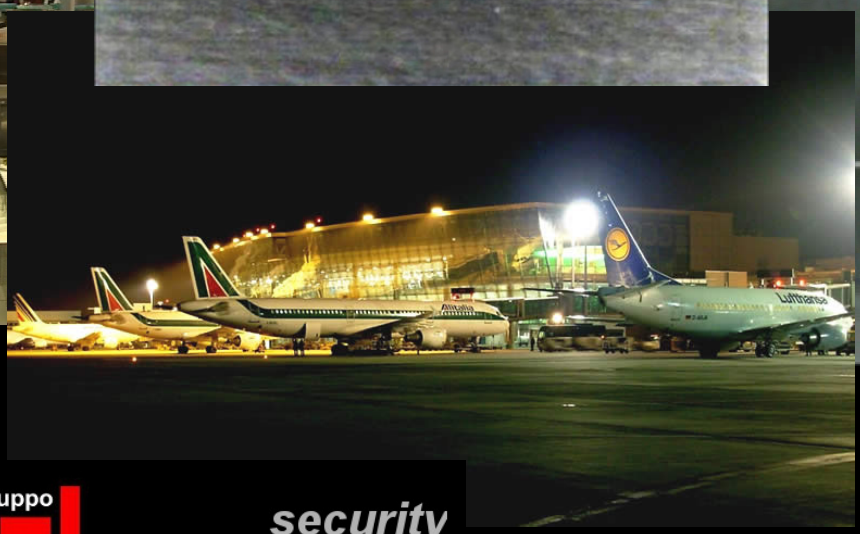

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security engineering

an italian company