

Paulista Shopping Mall

Building Automation System Enables Operators to Control Automated Systems in Mall with Minimal Training



The Paulista mall is controlled around the clock by an InduSoft building automation system.

- Modern shopping mall controls all phases of operation with InduSoft Web Studio based application.
- Intuitive graphic displays and ease of use permit reduced operator training costs.
- Slow network speeds are overcome by communication optimization enabled by InduSoft.
- Tools for rapid development permitted quick deployment of solution.

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Shopping Paulista

Background

The InduSoft application used by the Paulista Shopping Mall allows a small staff to monitor and control all automated systems inside a modern shopping mall located on the stylish Rua Treze de Maio in São Paulo, Brazil. The graphical

capabilities of InduSoft allowed creation of an intuitive and easy to use interface, which makes it very simple, even for inexperienced users, to monitor and control environmental conditions in the mall. From the control room, the duty operator can perform tasks such as

turning on and off specific sections of the monitoring system, check temperatures in different areas of the mall and change setpoints as needed, check for failures in the electrical system, visualize the demand control, print reports, visualize and acknowledge alarms,

and—very important to this user—set schedulers to turn on and off specific areas or pieces of equipment inside the system.





Left:
Temperature and ventilation settings can be controlled by the operators from an intuitive interface that covers operation of the entire mall, with real time monitoring of operations and local conditions.

Bottom Left:
Illumination is controlled for different zones on each floor in the mall with this graphic display.



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The Paulista mall system has three InduSoft Web Studio licenses, and supervises approximately 1000 points using one workstation with a Pentium 4 CPU running at 2 GHz, with 512MB of RAM.

The following phases of operation are controlled:

- Illumination
- Escalators and elevators
- Electrical power system
- Air conditioning
- Demand control
- Fire alarms
- Water supply
- System scheduling

Rapid Development and Scheduler Capabilities Drove Choice of InduSoft

There were several reasons why InduSoft was chosen. We needed a product that would allow us to create a very powerful interface, but that would not take a long time to be developed. With the arrays, classes, and the replace capabilities built in the InduSoft product, it was very easy to create generic screens and avoid the need of duplication.

Another critical point that made InduSoft the perfect solution was the scheduler capabilities. The software is so flexible that it allowed us to create several programming files and select the specific program that we want to run on a daily basis.

Furthermore, because of the large number of points being monitored and the low speed network available, we could only achieve the required performance speed—response in less than a second—due the optimization capabilities available in the InduSoft communication spreadsheets.

Paulista staff worked closely with our systems integrator Taquions Engenharia to define and develop this application. Upon examination of the options proposed by Taquions, the following technical reasons drove the selection of InduSoft:

• Communication optimization:

We could configure communication over the available network and optimize it so we could get very good performance.

Right:

Escalators and elevators throughout the mall are monitored from a single display.



• **Ease of use:**

InduSoft development tools are designed for ease of use and simplified developing the application with them.

• **Scheduler module:**

By using the recipe module and the scheduler module, we were able to create a precise and easy to use scheduler to turn on and off any equipment connected to the network.

• **Security system controls access:**

InduSoft made it very easy to create user groups and define what they can and what they cannot do in the system.

The resulting application with InduSoft Web Studio enables our operators to easily control all the automated systems in the mall. We have found that even an operator with minimal experience can use it without training.

Integration Team

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