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## The intercom *updated by Regulvar*

Who doesn't remember sitting in class and hearing a voice telling a student to go to the office? In most schools, that voice is transmitted by an intercom system made up of speakers and a centrally located microphone.

In some teaching establishments, the devices have aged and now need to be updated or replaced. Regulvar worked with the Commission scolaire des Samares to find a solution tailored to their needs in this regard. After evaluating the existing products, both parties decided to develop a tactile interface intercom that can integrate the bell system and building automation functions using a BACnet stack.

Regulvar assigned this mandate to its R&D team, who designed a bidirectional communication device that could also be used to control the environment, manage emergency calls, and display the weather forecast, absences, procedures and the time. Options such as text messaging or a camera can also be added.

The user-friendly tactile interface allows the user to navigate easily in the various functions, including the following:

**Intercom** • To make general calls to certain classes or groups.

**Calls** • To call between rooms.

**Comfort** • To adjust the temperature and lighting, and access information regarding environmental conditions.

**List of absences** • To know which students are absent.

The person designated as the administrator has tools to configure the various parameters, for instance the bell system's sounds or chimes, groups or schedules.

The R&D team's work has clearly been successful given that the final product will soon be installed at the customer's site and everyone is looking forward to testing it out.

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## Projects for the future

To provide added value to the building automation services it has offered since 1974, Regulvar created a Research and Development (R&D) team 10 years ago.

The team's mandate includes designing and creating tools that will enable Regulvar to quickly integrate leading-edge technologies to its solutions, but also to improve existing products, create new ones to bridge gaps or meet the specific needs of customers, and propose new activities.

In all cases, the R&D team contributes to Regulvar's ability to project itself into the future of building automation.



# The **CHUM** + A major project for Regulvar

Construction of the new CHUM—Centre hospitalier de l'Université de Montréal—began in 2010. The new CHUM will be made up of the Research Centre and the Integrated Centre of Teaching and Education (2013), the hospital centre (2016) and the surrounding buildings: office tower, amphitheatre and library (2019).

Regulvar is pleased to announce it was chosen among five major companies to implement the building automation system in the hospital centre and its surrounding buildings based on the Company's ability to carry out the required work, the size of its team and its specialized resources. As a result, Regulvar is now partnering with Construction Santé Montréal, the consortium in charge of designing and building the hospital centre.

Given the scope and duration of the work, Regulvar created a dedicated team made up of project leaders, designers, a business manager, an installation manager, eight technicians and over 30 installers. The team will implement a solution for some 6000 rooms that will control all the HVAC,

lighting and load control systems. The team will also welcome the considerable yet fascinating challenge of integrating the smoke removal system in the building automation system while keeping in mind that it will share the equipment and ducts used in the HVAC system.

Although it provides advantages related to space, reliability and diagnostic information, this approach presents considerable restrictions with regard to equipment and programming.

First, all the material used must meet strict safety criteria to ensure it can fulfill its duties under the worst conditions\* and must be approved by the fire marshal.

What's more, this means that in the event of a fire, all the HVAC system components—fans, dampers, etc.—must be programmed to stop performing their usual duties in order to contain and evacuate the smoke, regardless of its point of origin in the building. To do so, Regulvar will need to implement elaborate control strategies and operating sequences, and install

parallel networks that ensure reliable control transmission. The Company will also provide a main control room equipped with management software that the customer can use to closely monitor operations and intervene when necessary.

In short, this major project will without question captivate the interest of everyone involved, and Regulvar is proud to contribute its expertise.

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## Did you know?

### SAFETY AND ELECTRICITY

*A top priority  
for Regulvar*

To ensure the safety of its employees and to comply with standards, Regulvar recommends that work be carried out in a de-energized environment and always under lockout.

If an employee is required to carry out live-line work on an exceptional basis, he or she must wear personal protective equipment as stipulated by the CSA Workplace Electrical Safety standard, which Regulvar provides to all concerned personnel.

## UPCOMING TRAINING

### Laval (French):

**ORCAVIEW**  
intermediate level  
September 9 • 10

**ORCAVIEW**  
advanced level  
September 11 • 12

**GCL + PROGRAMMING**  
September 16 • 17 • 18

**CREATION OF  
GRAPHIC INTERFACE**  
September 25 • 26

**INTRODUCTION TO  
WIRELESS CONTROL**  
October 1 • 2

### Ottawa (English):

**ORCAVIEW**  
intermediate level  
September 16 • 17

**ORCAVIEW**  
advanced level  
September 18 • 19

**GCL + PROGRAMMING**  
September 23 • 24 • 25

**CREATION OF  
GRAPHIC INTERFACE**  
Depending on enrollment

**INTRODUCTION TO  
WIRELESS CONTROL**  
October 8 • 9

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