ZOne

Rēgulvar

When building **automation** goes hand in hand with **security** A+

A *trendy* **security system** for students

In August 2018, Azrieli Schools opened their new Herzliah High School on the Jewish Community Campus. Equipped with a roof terrace, this four-storey building has a capacity of 550 students.

How did **Regulvar** find itself involved in this project? In addition to acquiring the latest educational technologies, Herzliah School wanted to equip itself with a state-of-the-art security, heating, ventilation and air conditioning (HVAC) system. In July 2017, the consulting engineering firm Ingémel (Bouthillette Parizeau) and the architectural firm NEUF ARCHITECTE called upon **Regulvar**'s expertise for this innovative project, in keeping with the school's mission: excellence in education.
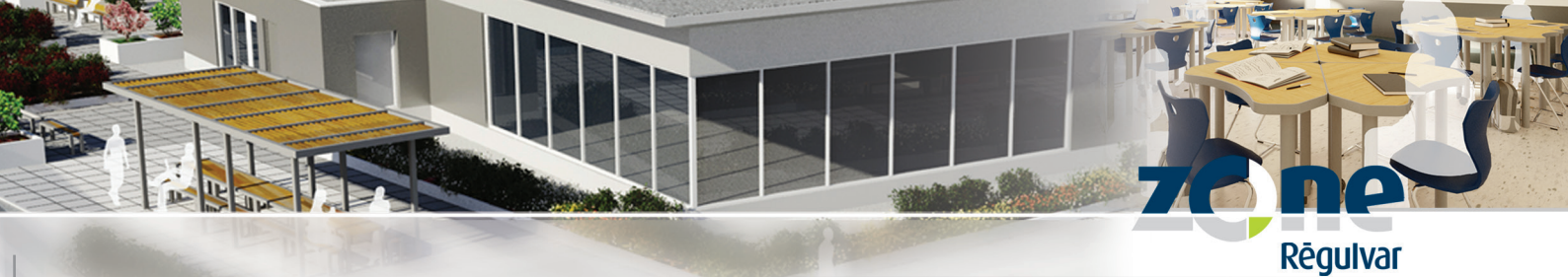
Regulvar is a class leader when it comes to innovation. **Regulvar**'s team was able to seamlessly integrate into the same Web and mobile application the security system with 58 cameras, intercom system (46 touchscreen intercom systems including cameras and 12 phones), access control system (10 doors controlled with 2N® Helios intercom systems), 26 supervised doors, interior parking barriers, intrusion system (4 keyboards and 160 motion detectors), lockdown system (as well as the automated call to 911) and 570 HVAC and lighting control points.

Full **integration** into *enteliWEB*

In order to streamline the management of the numerous controls, **Regulvar** decided to integrate them all into a single server application: enteliWEB. As a result, Herzliah School has a state-of-the-art centralized system that can be easily managed through user-friendly 3D graphical interfaces from a browser, such as Chrome or Microsoft Edge.
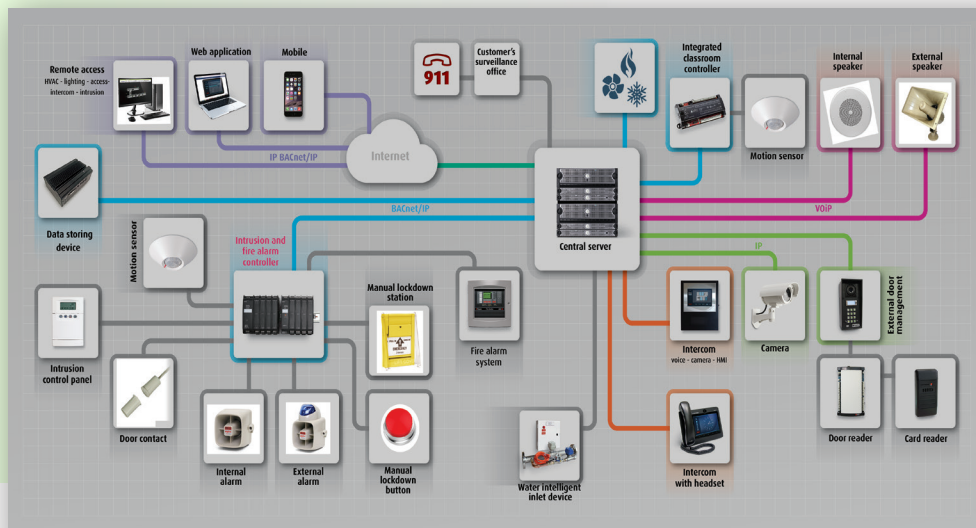
The integration of all controls into the enteliWEB server makes this project unique. Indeed, the control and monitoring of cameras, access, intercom, telephones, tablets, motion detectors, intrusion controllers, door controllers, alarms, lockdown systems, etc. have been integrated into enteliWEB.

The main challenge for **Regulvar** in this project was to integrate all cameras into a single server, accessible with a smartphone or tablet, and allow a two-way video call between a remote Web software and intercoms.

EnteliWEB

What is enteliWEB? enteliWEB is Delta Controls' technical facility management and energy management software. It connects all installations in a single platform and centralizes building automation management, building engineering, Web energy analysis, security and access.

Cameras integration in a *few words*

The 104 cameras are integrated into enteliWEB's dynamic, 3D browser and graphics. The user is not limited to a fixed layout for dynamic videos: he can design his own page containing up to 16 dynamic cameras. From the 3D graphics of the floors, the user chooses by clicking on the camera or intercom what he wants to see on the grouping page. Then, he clicks on the "View camera" button, and the page is created and operational.

It should be noted that **Regulvar** is a pioneer in this type of integration, going beyond what existing camera suppliers normally do, which is to show only static images of multiple cameras on a Website.

All the user has to do is click on the + signs to select different cameras and view multiple videos at once.

Intercoms in the BACnet system

When intercoms become security *tools*

Regulvar has added several new features to its intercom system. This touch-screen system already makes it possible to perform video calls between premises, to the management team and specialized help services, to broadcast messages, to navigate menus, to manage course ringtones, to take attendance, as well as to control temperature and lighting. However, in order to meet the needs of the Herzliah School management team, lockdown calls have been added and the ONVIF protocol has been implemented. The addition of ONVIF allowed the videos to be recorded on the IP camera recorder server. Thus, in the event of intrusion or lockdown, the intercom camera can transmit a video to a server-recorder, just like an IP surveillance camera, and gives the security authority the ability to playback the video.

2N® Helios IP Force access and intercom systems

Intelligent *security*

Regulvar has installed a complete access management system. It ensures the safety of the school by controlling the external doors.

To do this, **Regulvar** combines its telephone sets with the robust 2N® Helios IP Force intercom, a smart card reader and an electric door opener. This allows you to make video calls from the outside, see who is at the door and open it.
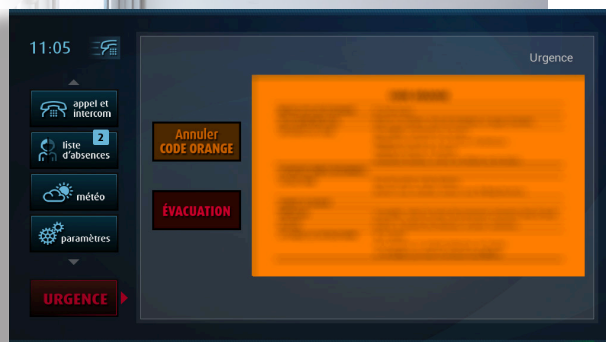
Lockdown system
Safety first and *foremost*

A lockdown procedure is required in schools, particularly in the event of an emergency, potentially violent incident or the presence of an unauthorized visitor whose intentions are unknown. But how does the lockdown system created by **Regulvar** work?

The lockdown alarm can be triggered at any time from an intercom, telephone, manual lockdown station or eWEB software (via a computer, telephone or tablet). When the alarm is activated, the cameras, the intercom cameras of the 2N® Helios IP Force intercom systems start recording. The intercom screens display the procedures to be followed, a pre-recorded message is played, the controlled doors are locked, and the system automatically calls 911 via the monitoring centre.

Bi-directional sound:
another *exclusive feature*

No other building mechanical management (BAS) software allows two-way communication with telephones, intercom systems or SIP cameras.

An improved enteliWEB interface
Integration of cameras and intercom systems with *3D graphics views*

Thanks to the flexibility and resources of HTML5, **Regulvar** has developed a tool in its 3D graphic pages that allows internal or external security managers to create pages themselves in real time containing up to 16 cameras of their choice, as well as to access their recordings. This tool, accessible via a browser, is unique.

Completion of the project

Project coordination	Kodem Developments Inc.
Architecture	NEUF ARCHITECTE
Building automation	Regulvar
Mechanical and electrical system	Ingémel, Bouthillette Parizeau

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BAS SOFTWARE II	June 5 · 6	Upon request
BAS SOFTWARE III	Upon request	Upon request
GCL PROGRAMMING	June 10 · 11 · 12	Upon request
CREATING GRAPHICAL INTERFACES	June 18 · 19	Upon request
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