

# University electricity final distribution

## Digital electrical protection to retrofit an existing building



### Customer case

Sofia is studying electrical distribution to retrofit a private school in her city. Special care must be considered because of high density of people in such building.

Moreover, common areas and private apartments are located into the same building and existing electrical wires will be reused. It is important to include Arc Fault Detection to limit fire risk.

In terms of operation, she thinks that setting pre-alarm will improve service continuity thanks to fast diagnosis and correction.

She is looking for a solution optimized in terms of space, wiring, and that will provide a set of accurate data for operations.

### Our recommendation

**Active Safety System is an all-in-one solution made of:**

- Acti9 Active protection range: features a combination of terminal protection (MCB, RCD, AFDD) in a single device.

- EcoStruxure Panel Server (Gateway): connects Acti9 Active to the supervision to provide advanced benefits like alarms and trip diagnostics, pre alarms to notify before the trip happens, circuit monitoring and measurement.

- EcoStruxure analytics solution: unlocks the full potential of your data with proper insights and trend visualizations either with Schneider Electric softwares or other existing supervision systems.

### Benefits

#### For Specifier:

- Solution for retrofit that brings every protection levels for building with digital features.
- Answer advanced safety and digital requirements.
- Comply with MCB standards IEC 60947-2 and IEC 60898-1.

#### For Contractor and Panel Builder:

- Save time because no need to look for MCB auxiliaries anymore: they are already inbuilt.
- Keep your wiring habits even with this new advanced device: same cabling, same comb busbars.

#### For Operations manager:

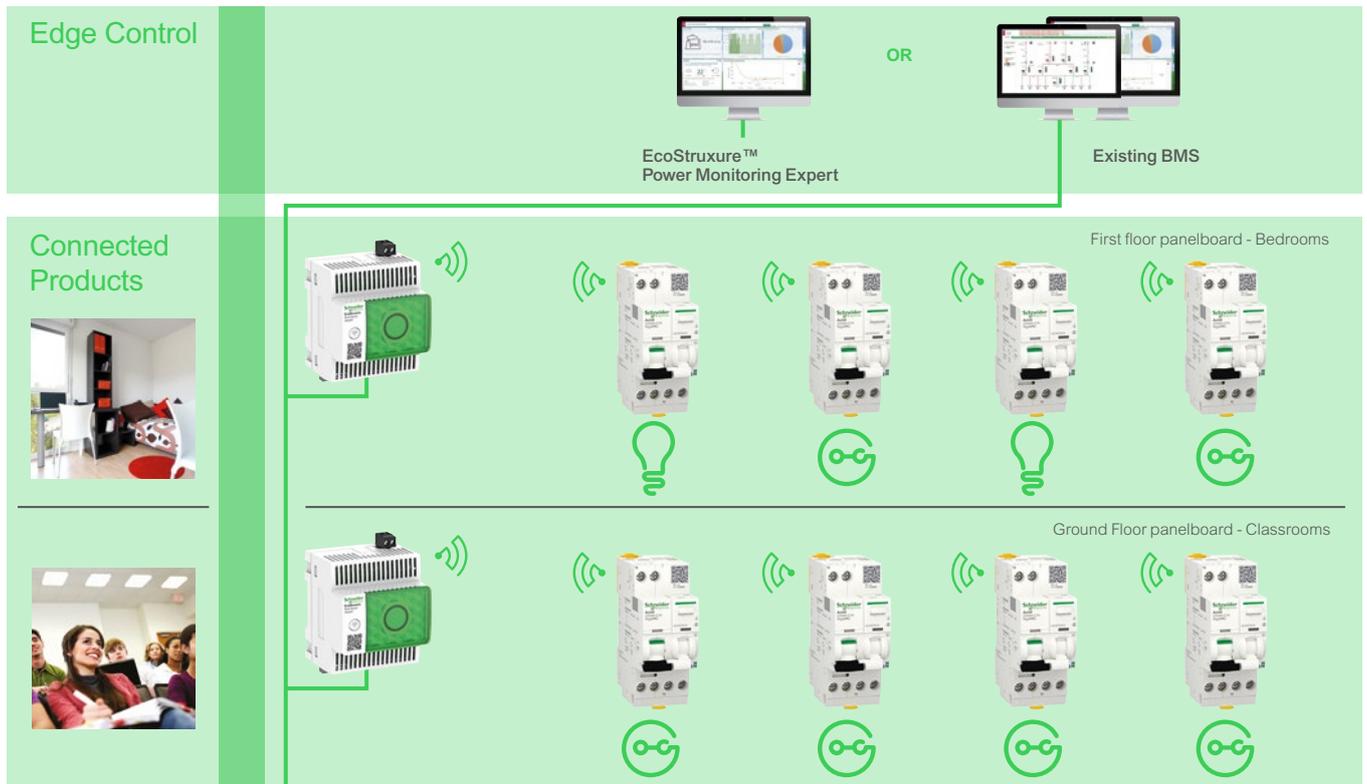
- Anticipate potential downtime thanks to customizable pre-alarming functions.
- Locate and diagnose electrical faults faster.
- Reduce downtime and improve efficiency in operation.

se.com

Life Is On

**Schneider**  
Electric

# Solution Diagram



## Specifications

- The outgoers should embed into one device: protection against short circuits, overcurrent, overvoltage, residual current and both serial and parallel arc fault.
- Outgoers will embed an inbuilt wireless communication system to notify end-user when approaching tripping threshold.
- The Gateway shall be equipped by DPWS (Device Profile for Web Services) technology (available on Windows operating systems starting with Vista) with the two following web-services: Discovery and Identification.
- The gateway settings shall be accessible through a configuration software that would allow back-up and restore of the settings.

Products used		
Product	Function	Reference
Acti9 Active	All in One RCBO, AFDD, 16 A, 1P+N	A9TDFD616
Panel Server	Gateway EcoStruxure Universal Panel Server	PAS600T

More About  
Active Safety System



Scan or click on  
QR code

se.com

Life Is On

Schneider  
Electric

Schneider Electric Industries SAS  
35, rue Joseph Monier - CS 30323  
F92506 Rueil-Malmaison Cedex

Document Number CA9SS100E ©2020 Schneider Electric. All Rights Reserved.  
Life Is On Schneider Electric is a trademark and the property of Schneider Electric SE, its subsidiaries and affiliated companies.