



ComAp Company Profile and, Introduction to the IntelliNeo 530 BESS

Introducing the IntelliNeo 530 BESS



- › New controller capable of replacing the existing BCU/Local Controller. Key features:
 - › Battery Management System (BMS) and Power Conversion System (PCS) integration
 - › AC & DC startup sequence control
 - › Monitor and protect auxiliary systems
 - › Alarm and fault management
 - › Secure external network interface

Capabilities of the IntelliNeo 530 BESS

Direct AC measurement for control and protection

BMS and PCS integration via Modbus device list (9)

AC and DC startup (pre-charge) sequence control

Auxiliary systems monitoring, protection and control

Alarm and fault management



Control of the AC Circuit Breaker (sync/non-sync)

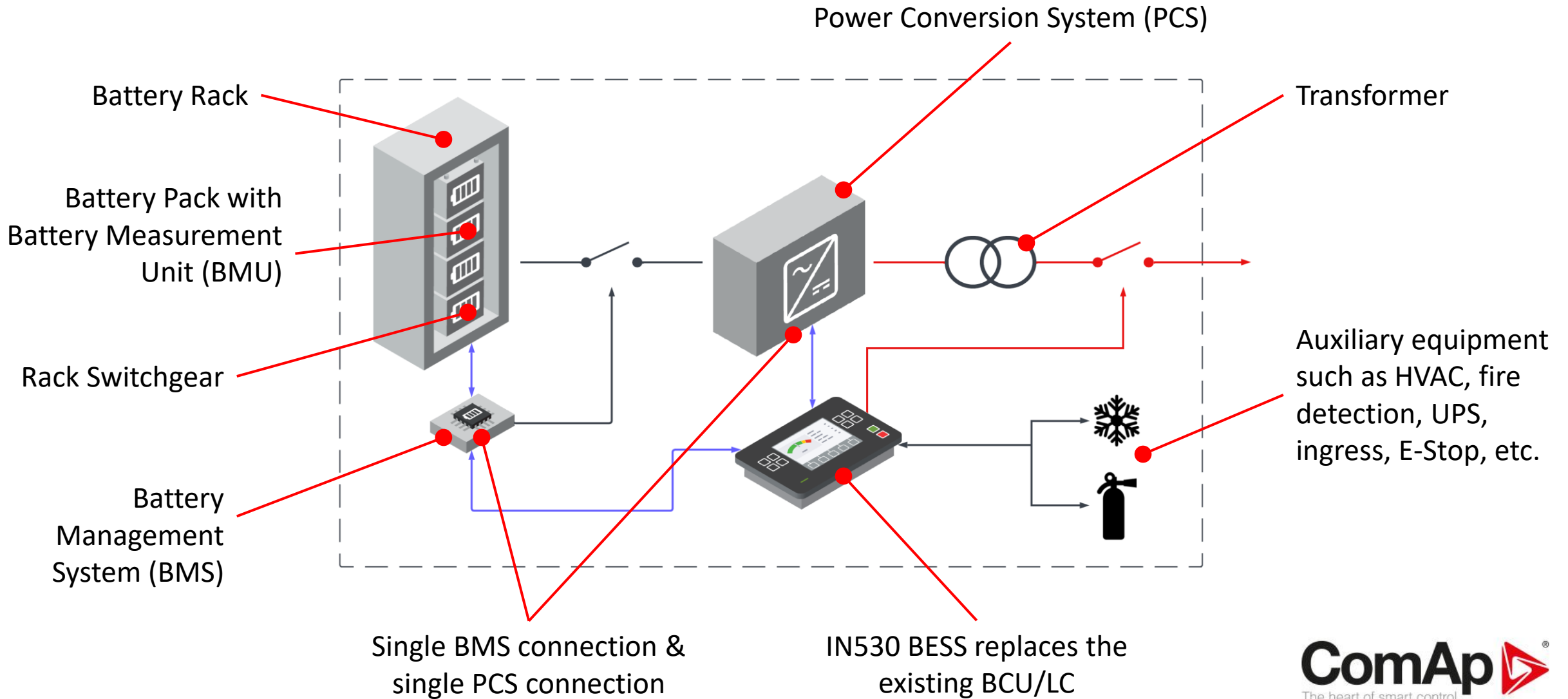
Control of the DC Circuit Breaker

Power Management and Load Sharing via CAN (32)

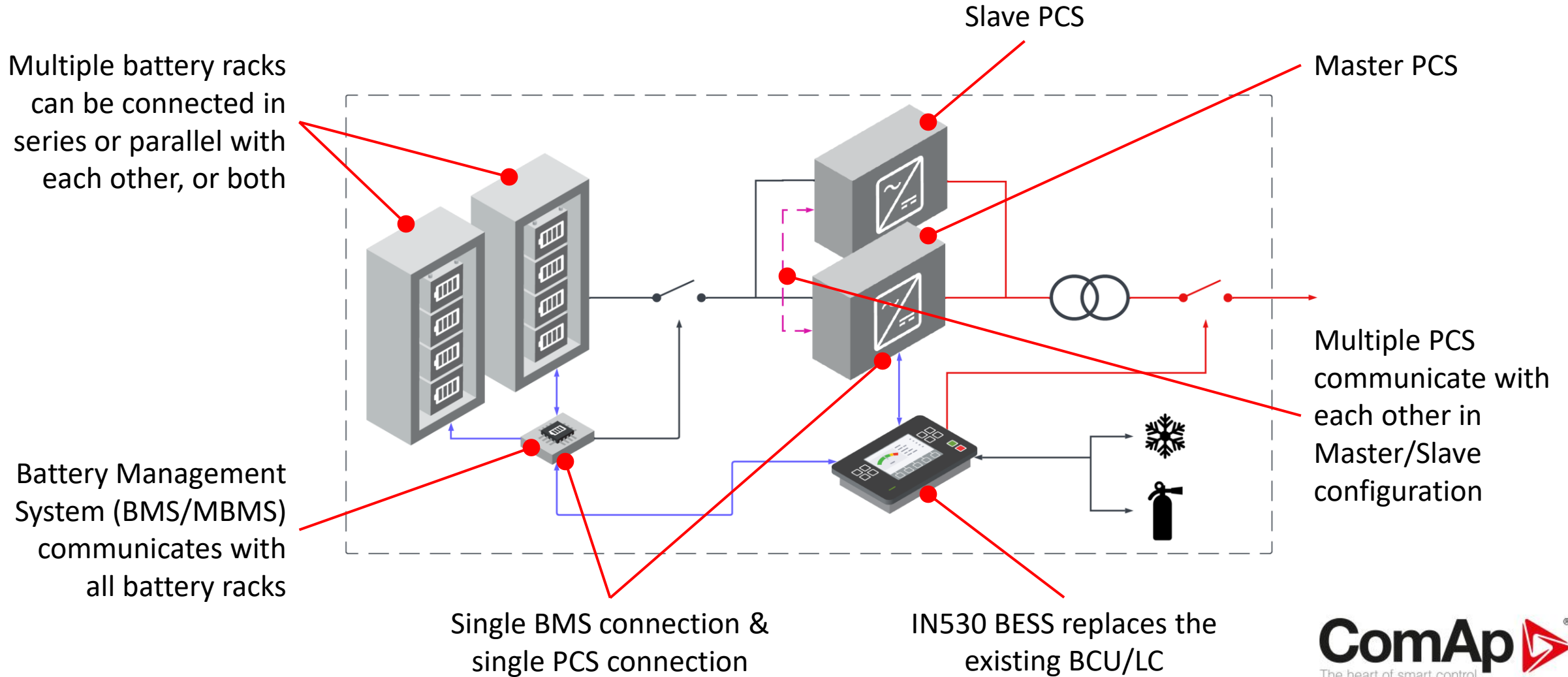
PLC editor for additional functionality

Secure network interface to the outside world

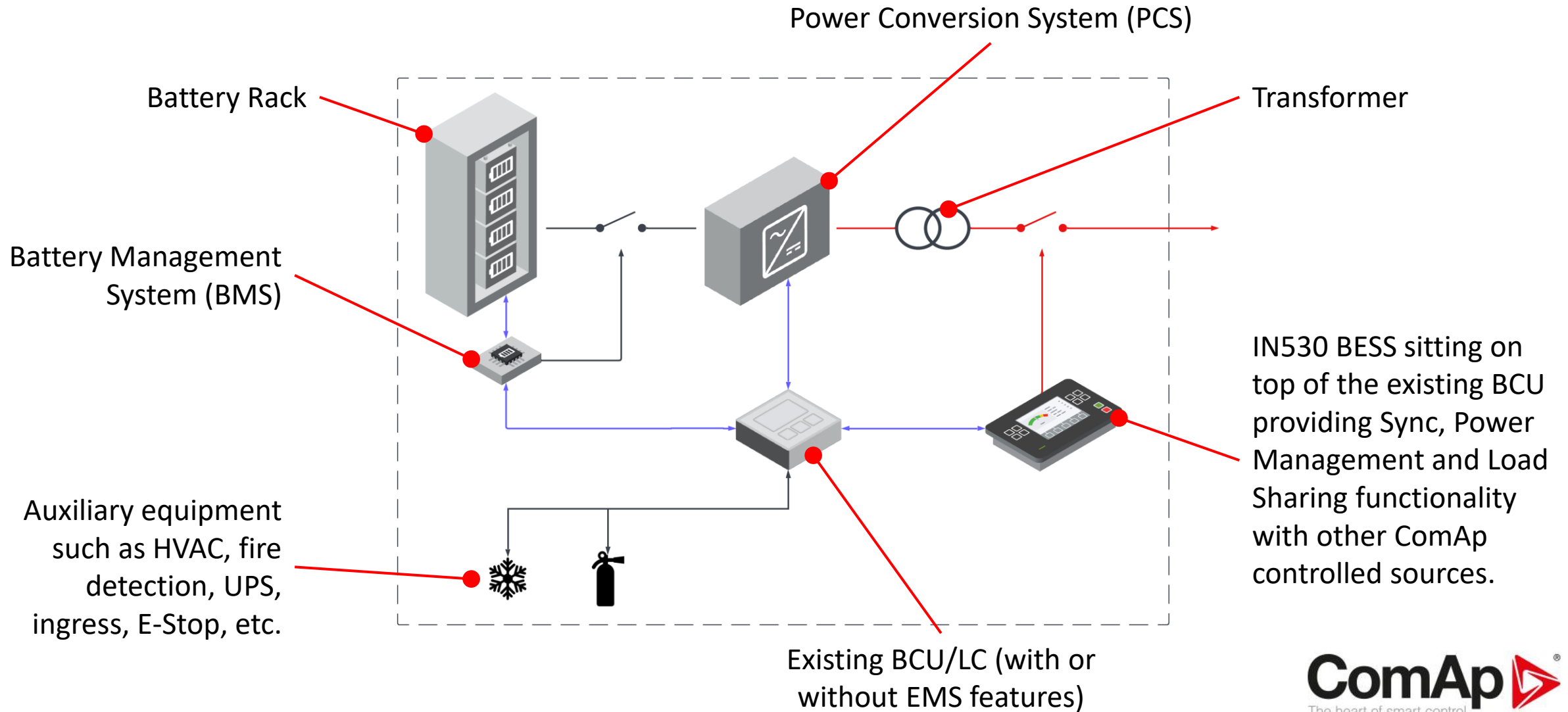
Integration of the IntelliNeo 530 BESS



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Integration of the IntelliNeo 530 BESS



Cybersecurity within the InteliNeo 530 BESS



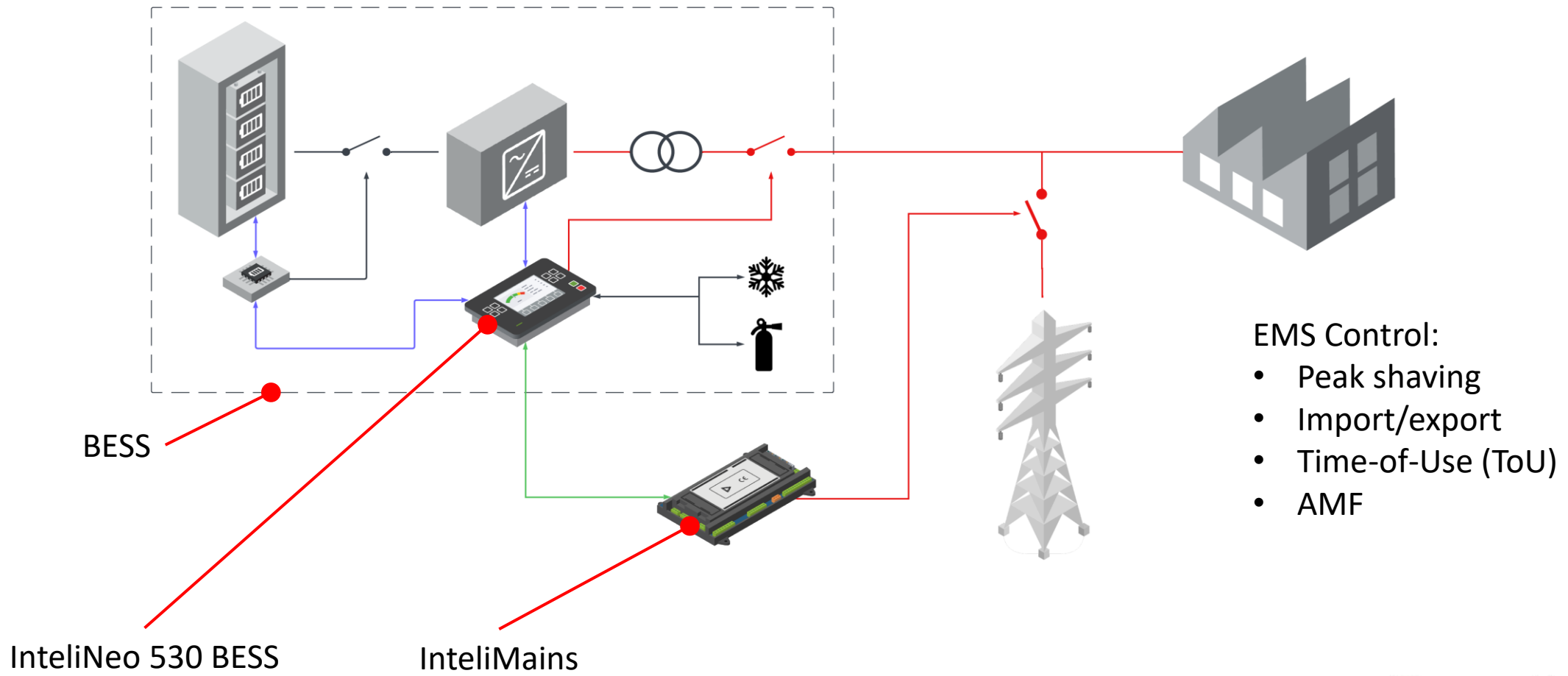
- › Cybersecurity designed in accordance with the ISA62443 standard
 - › Communication via public networks is protected by ciphering algorithms
 - › Firmware transmissions are encrypted
 - › Authentication control via user login including activity tracking
 - › Administrator account recovery via robust algorithms
 - › Intrusion detection and prevention including brute-force attacks

Features and Functions of the IntelliNeo 530 BESS

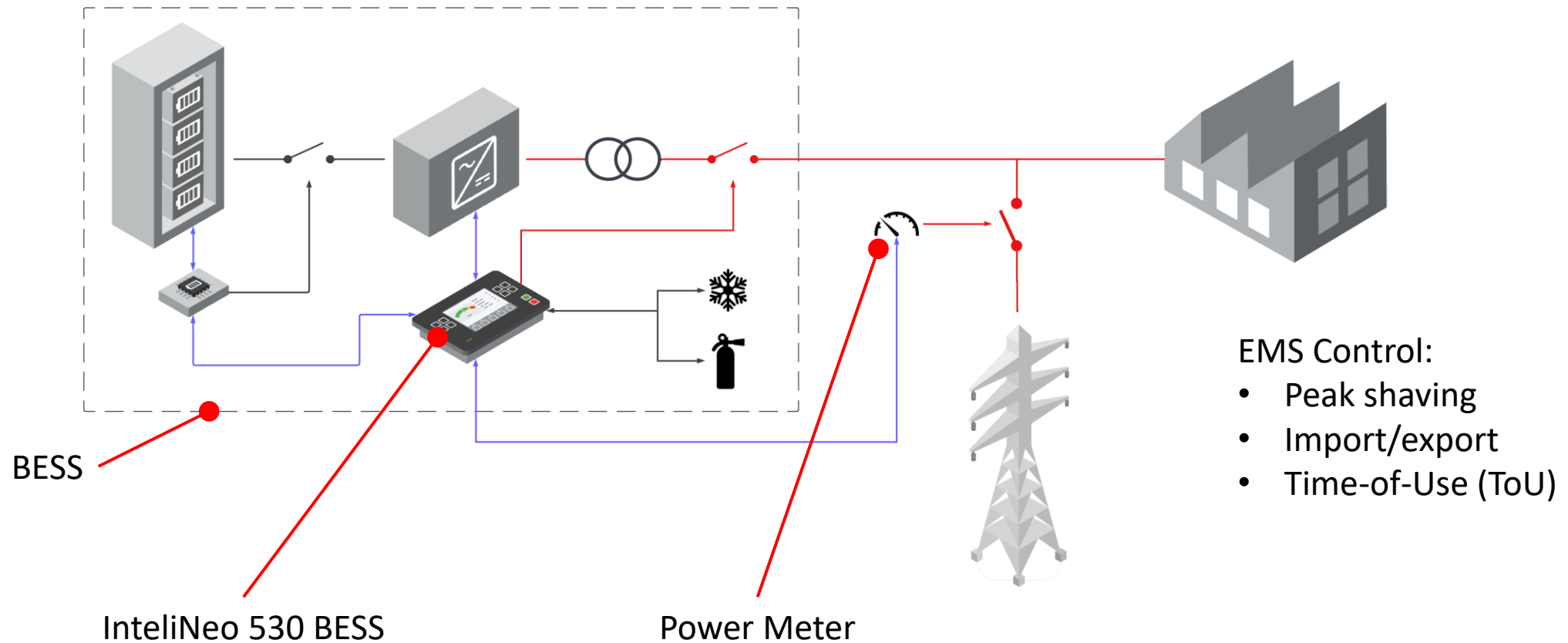
- › Energy Management System (EMS)
 - › Peak Shaving
 - › Energy Import/Export control
 - › Time of Use (ToU) control
 - › Auto Mains Fail (AMF)
- › Load Sharing
 - › Off-Grid, Battery Systems with Gensets
 - › On-Grid, Battery Systems
 - › On-Grid, Battery Systems with Gensets
 - › On/Off-Grid IntelliNeo Microgrid Systems



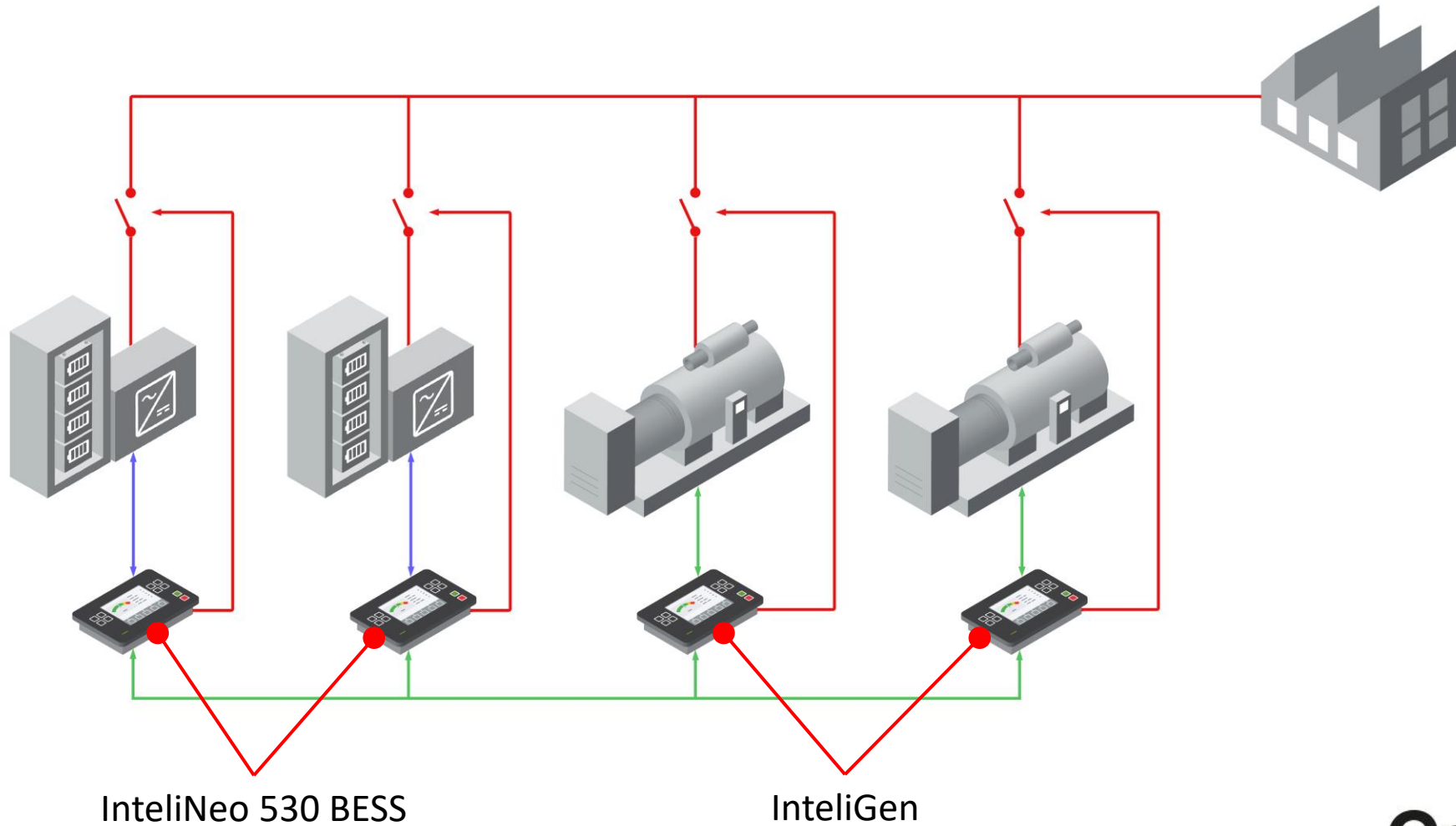
EMS using the IntelliNeo 530 BESS and IntelliMains



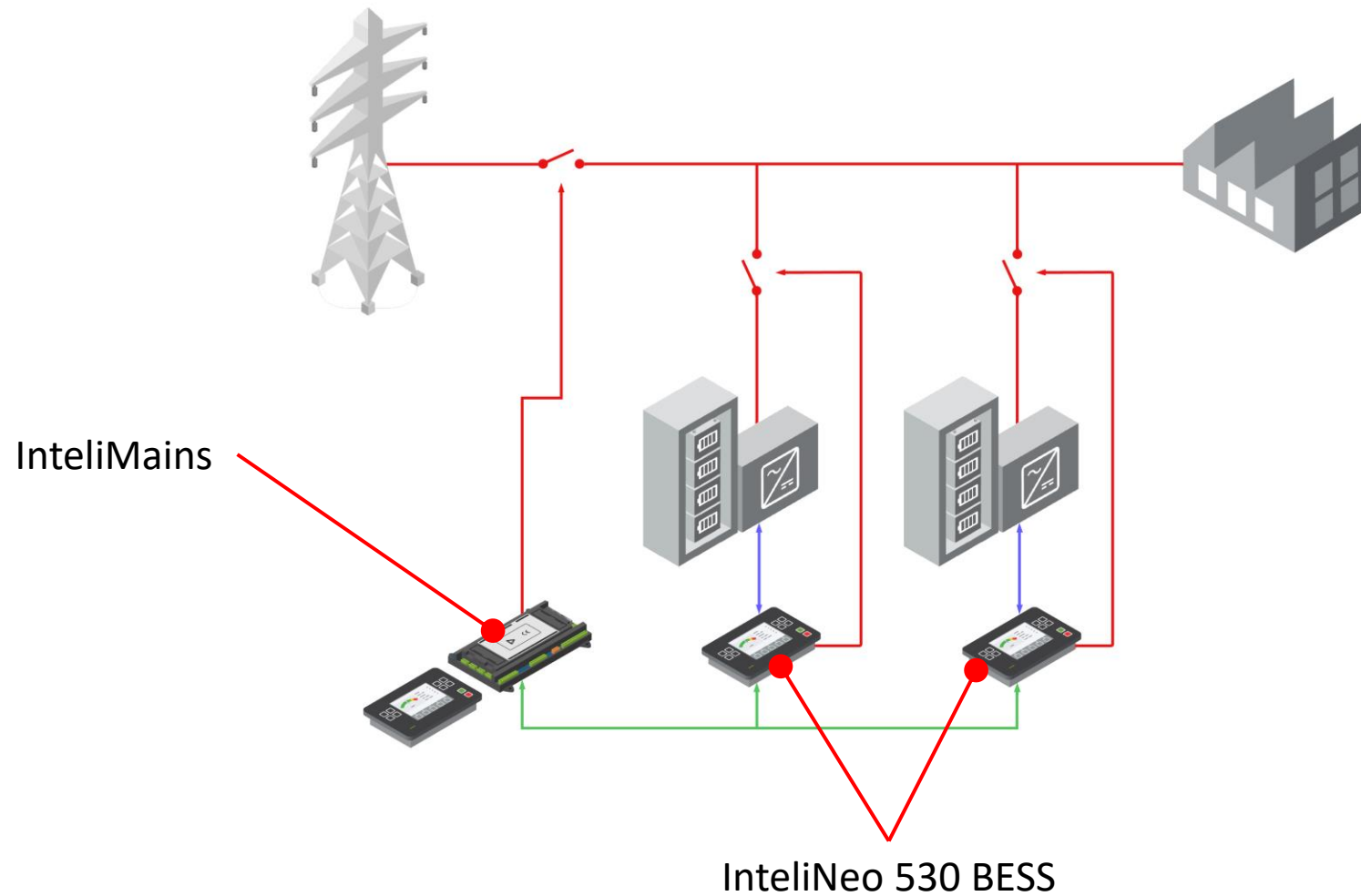
EMS using the InteliNeo 530 BESS and external signal



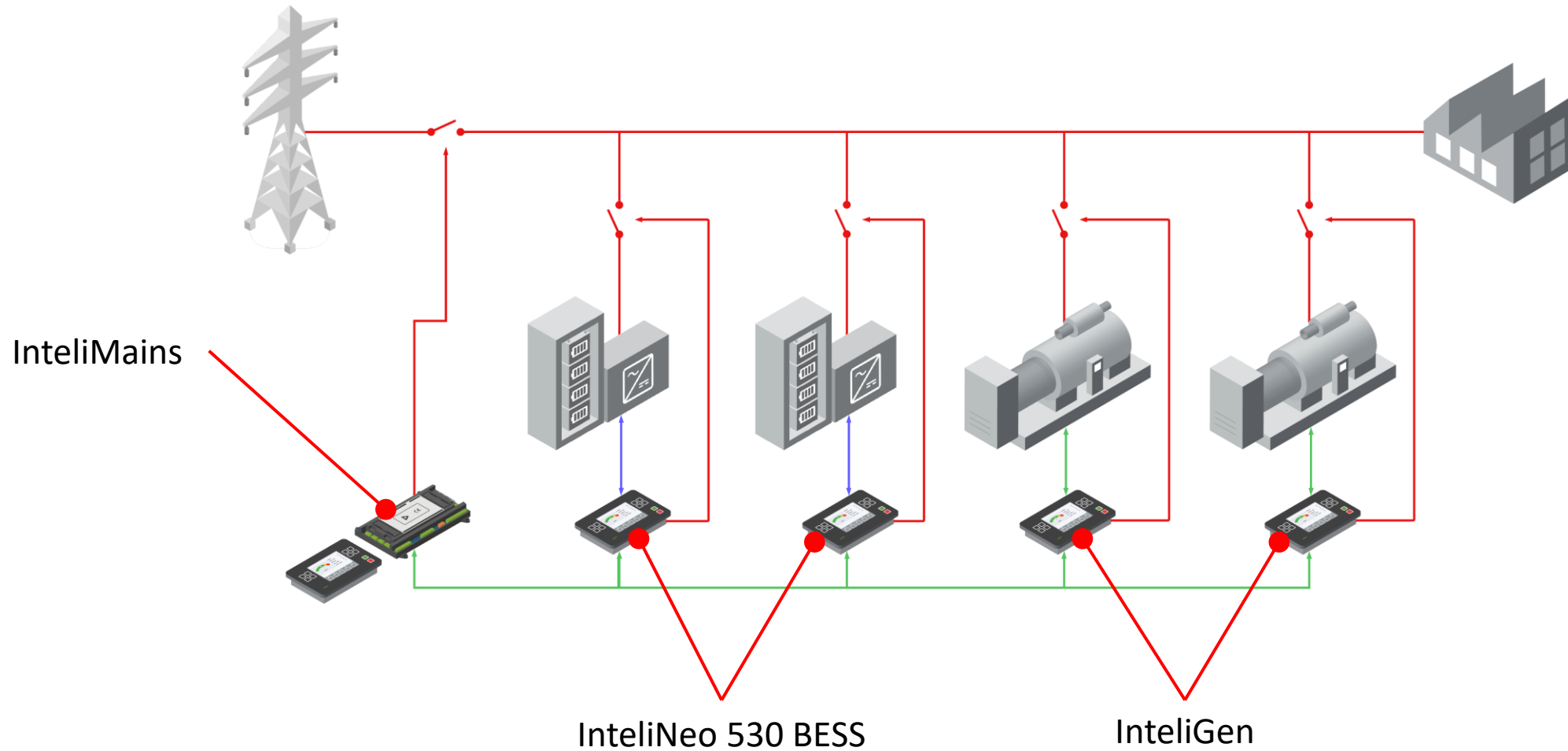
Load Sharing, Off-Grid BESS + Genset



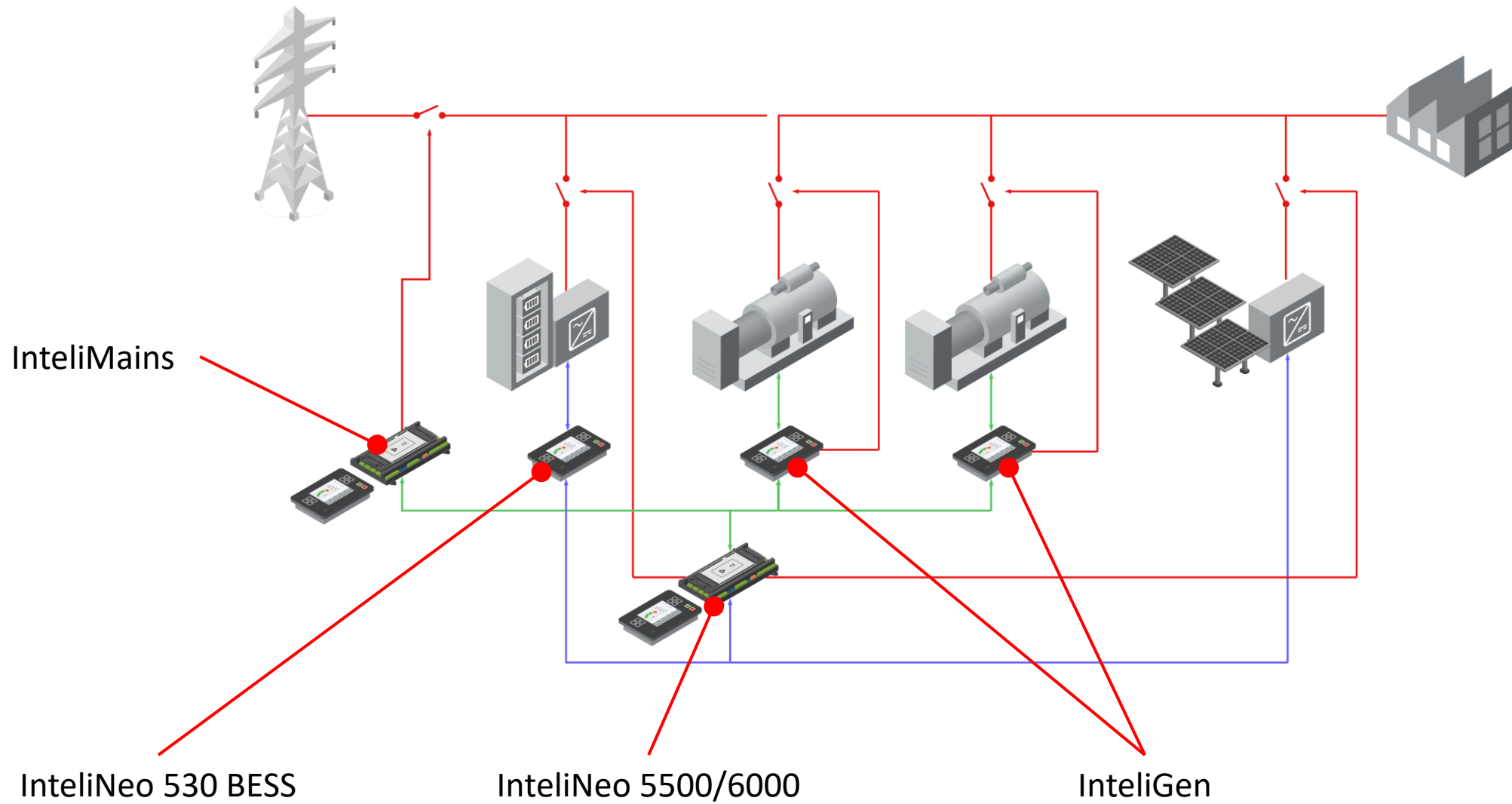
Load Sharing, On-Grid BESS



Load Sharing, On-Grid BESS + Genset



Load Sharing, IntelliNeo 5500/6000 Single BESS Microgrid System



Ecosystem benefits of the InteliNeo 530 BESS



› InteliConfig

- › Industry leading configuration tool for all ComAp controllers in your system, configure your entire site with just one PC tool.

› InteliSCADA

- › Fully customizable SCADA package for all your site monitoring needs.

› WebSupervisor

- › Secure, cloud-based fleet monitoring and management tool with powerful logging, graphing and API functions

› AirGate 2.0

- › Robust remote connection to your controller via distributed servers around the world



Supported Controllers, Displays and Modules

› Controllers

- › IntelliGen4 200, IntelliGen 500 G2, IntelliGen 1000
- › IntelliMains 210 G2, IntelliMains 510, IntelliMains 1010
- › IntelliNeo 5500, IntelliNeo 6000

› Displays

- › IntelliVision 5.2
- › IntelliVision 10 Touch
- › IntelliVision 13 Touch
- › Intelivision 18

› Plugin Modules

- › CM-RS232-485
- › CM2-4G-GPS
- › CM3-Ethernet
- › EM-BIO8-EFCP



› CAN connected Modules

- › IGL-RA15
- › Intelli AIN8
- › Intelli IO8/8
- › IGS-PTM
- › Intelli AIN8TC
- › Intelli AIO9/1

› Other Modules

- › IDC4/4 (direct measurement of DC voltage and current)

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