



Li-ion E-supervision

Saft's E-supervision service taps into batteries' live operational data to give visibility and control of your installation round the clock as well as creating a track record for your installed base.



▶ OBJECTIVES

- Provide real-time battery data
- Act as early warning tool to enable proactive response
- Zoom in to health status at different levels

▶ FUNCTIONALITIES

- Web portal can be accessed anywhere
- Enables monitoring of: State of Charge (SOC), power, defaults code, min/max temperature, min/max voltage...
- Generates alerts by email and/or SMS to notify technicians and maintenance operators
- Web Portal optionally customizable to better tune your operations and maintenance process
- Stores historic data to create a track record for your installed base to support root cause analysis

▶ APPLICATIONS

- Applicable to Saft's entire range of Li-ion products that integrate a Battery Management Module (BMM) or a Master Battery Management Module (MBMM)
- Suited for energy storage, maritime, railways, electric vehicles, telecom and other industries

▶ BENEFITS

- Alerts enable fast action and attention
- Helps to anticipate failures and plan your service activities
- Easy access to your installed base track record for easier root cause analysis and return of experience
- Provides your operation & maintenance team with the consistent information everywhere in the world
- Traceability of operating information (system status)
- Cost-effective and simple to install and operate
- Supports lower cost preventive maintenance versus corrective maintenance
- Increases battery life
- Provides same level of information to all stakeholders in real time

▶ PRICES

For more information on prices, contact your local Saft representative.





E-SUPERVISION PACK

Saft's turnkey solution can be adapted to meet differing requirements. You can run E-supervision on a stand-alone basis or combine it with additional services for complete peace of mind.

- Supply, installation and maintenance of E-supervision hardware
- Real-time data access
- Emergency stand-by contract
- Data analysis by Saft experts
- Fleet management

	Pack		
	Real-time	Advanced	Customized
• Supply, installation and maintenance of E-supervision hardware	■	■	■
• Real-time data access	■	■	■
• Emergency stand-by contract		■	■
• Data analysis by Saft experts		■	■
• Fleet management			■

How does it work?

Data collection

A compact BDC (Battery Data Collector) device plugs into the diagnostic bus of the Battery Management System (RS485). The device does not disturb the battery's operation and uses the already embedded MODBUS protocol.

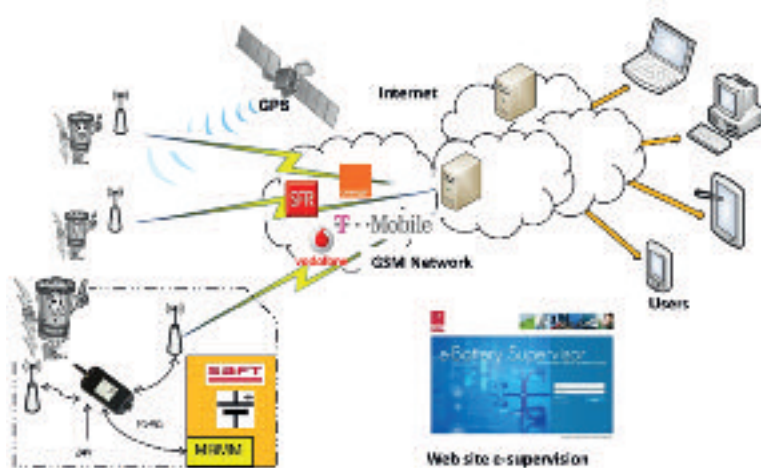
- Dimensions: 200 g and 65 X 32 X 136 mm
- Built in security of the e-supervision system : flexible architecture allowing to install one BDC per battery system

Data transmission & processing

- A wireless GPRS connection transmits battery data to Saft's dedicated server
- The multi-national and multi-operator connection guarantees superior coverage and availability
- A SIM card for each BDC can be activated remotely, anywhere your battery system is installed
- High and continuous availability (95%) is a feature of the system

Data access

- Simple, straightforward and secure access to data via the web
- As an option, your web portal can be customised to meet your requirements
- A data safety policy ensures privacy and protects access to data with a secured login
- Html technology enables access from PCs, tablets and smartphones
- Real-time alerts can be delivered through e-mail and SMS formats for specific actions



"Saft's new E-supervision tool helps me to monitor the availability of my system remotely and mitigate the risk for unexpected down time."

System engineer at a marine transportation company



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