

CLOUD SaaS

AUSTRALIAN MICROSOFT AZURE HOSTED

EN 50160 & IEEE 1159

REST API · IEC 60870-5-104

eXpertConnect™ iOS & ANDROID

[View Expertpower™ features and book a demo on expertpower.com.au ↗](#)

Expertpower™

Cloud Energy Management, Billing & Power Quality Software

Expertpower™ is SATEC's web-based energy management system for sites that need to see, bill and act on their energy data. It brings sub-metering, tenant billing, meter data management, power quality analysis and energy efficiency reporting together in one platform. Facility managers, building owners, embedded network operators and utilities access it through a standard web browser.

Expertpower is cloud based, running as a service hosted on Australian Microsoft Azure servers with no server hardware or on-site IT to manage. It collects data from SATEC meters, third-party meters and water, gas and steam meters and grows from a single device to tens of thousands. The companion **eXpertConnect™ app** puts each approved user's own usage, cost and alert information on their phone.



Cloud Platform

Cloud SaaS hosted on Australian Microsoft Azure servers. No server hardware, software or on-site IT required.

Integration

RESTful Web Services API and IEC 60870-5-104 for BMS, SCADA, ERP and accounting systems.

eXpertConnect™ App

iOS and Android app for approved users, synced every 30 minutes from Expertpower.

Main Features

- Browser-based access with no client software to install, maintain or train staff on
- Customisable dashboards, single line diagrams, heat maps and GeoLocation maps
- Tenant billing with dynamic tariffs, invoice management and invoice comparison
- Power quality event and waveform analysis with EN 50160 and IEEE 1159 reports
- Multi-level alarms with email and SMS notifications and user acknowledgement
- Manual, automatic or scheduled reports exported to Excel, PDF and CSV
- RESTful Web Services API and IEC 60870-5-104 interfaces for BMS, SCADA, ERP, CRM and accounting systems
- Multi-user access with multiple security levels

Feature Capabilities

Data Collection

- Automatic data collection from electricity, water and gas meters, power quality analysers and substation automation controllers
- Collects data from SATEC and other products over Modbus, BACnet, DLMS and SNMP protocols
- Easy configuration of new devices, communication servers and register mapping
- Virtual devices perform real-time calculations such as summation and subtraction across two or more devices

Energy Management & Monitoring

- Live data views of voltage, current, power, power factor, demand and energy
- Executive dashboards, fully editable for each user
- Single line diagrams with real-time data updates and colour or icon status indicators
- Heat maps and an advanced comparison wizard across multiple devices, parameters and time periods
- Historical trends to detect unnecessary load operation

Billing & Sub-metering

- Complete sub-metering solution with tenant management
- Dynamic tariff settings including prices, usage and seasons
- Accurate cost calculation and time-of-use bills for tenants
- Flexible invoicing options and invoice comparison
- Energy balance and total distribution reports

Power Quality

- Detailed event analysis with continuous waveform display, trigger indicator and moveable selection
- RMS chart and harmonics spectrum for any selected time period
- Symmetrical components for fault direction analysis
- EN 50160 and IEEE 1159 compliance reports with weekly category overviews

Energy Efficiency

- Compares cumulative monthly consumption with previous years
- Highlights excessive weekend consumption and outliers outside working hours
- Tracks losses reflected in the energy balance distribution
- Monitors HVAC coefficient of performance (COP) trends for proactive maintenance
- Configurable consumption alerts via email, SMS and mobile app

Reports, Alarms & Events

- Manual, automatic or scheduled reports, preconfigured or customised
- HTML output with export to Excel, PDF and CSV
- Multi-level thresholds for complex alarm criteria
- Messaging, email and SMS alarms, with every alarm logged
- Requests user acknowledgement of alarms

Demand Response & Smart Grid

- Automatic and manual generator operation to reduce peak demand by schedule, incentives and availability
- Power station load management, production tracking and detection of consumption irregularities
- Control of substation automation bay controllers
- GeoLocation dashboard for map or satellite meter display, alerts and navigation

Lobby Application

- Customisable full screen kiosk mode for foyers and public displays
- Shows consumption over time, energy saving competitions and the weather forecast
- Engages occupants with live building performance

Feature Capabilities (continued)

IPP & Utility Management

INDEPENDENT POWER PRODUCERS & UTILITIES

- Meter data management (MDM) and billing core processes
- Generates daily production plans and sends or receives daily production data from a Central Dispatch Centre
- Predicts customer consumption
- Manages power plant status, including availability, start-up duration and interruptions
- Energy and cost balance calculations based on import and export energy, plant status and tariffs
- Billing for electric power and related thermal products

Connectivity & Interoperability

- Integrates energy management, automation and billing in one web-based system
- Standard RESTful Web Services API and IEC 60870-5-104 interfaces
- Optional web interface module connects to third-party BMS, SCADA, ERP, CRM and accounting applications
- Automatic bill data retrieval through the Utility Vault
- Built-in data export to Excel, PDF and CSV

Architecture

- Completely web-based design with multi-browser support
- Grow as you go: from a single device to tens of thousands
- Cloud based, hosted on Australian Microsoft Azure servers
- Data collected, stored and processed in the cloud, accessible from any location over the Internet

Lower Total Cost of Ownership

- A standard web browser is the only user interface required
- No special client hardware or software and no user training on installed applications
- Cloud hosting removes the need for server hardware, server software and on-site IT experts



Software Support

- **Power Analysis Software (PAS):** licence-free Windows software for configuring SATEC instruments, retrieving data and analysing power quality locally
- **Expertpower™:** the web platform for dashboards, reporting, tenant billing, alarms and power quality analysis across every site
- **eXpertConnect™ App:** iOS and Android app that gives approved Expertpower users their own usage, cost and alert information
- Support from the SATEC Australia technical team, including account set-up through the Expertpower web portal

eXpertConnect™ Mobile App

eXpertConnect™ gives approved users convenient mobile access to their electricity usage, demand, alerts and billing insights. Designed for sites using SATEC metering connected to Expertpower, it helps tenants and residents spot unusual activity and make smarter decisions about usage, cost and efficiency while on the go.



Get the App

Available free on both platforms. Your account is activated by the SATEC technical team before first use.

[Download on the App Store ↗](#)
[Get it on Google Play ↗](#)
[Register for eXpertConnect™ ↗](#)
[See all app features ↗](#)

Usage & Demand

- Energy usage synced every 30 minutes from the Expertpower platform
- Daily usage split into morning, afternoon and evening
- High and low usage days and usage history
- Demand information showing when electricity use is highest

Costs & Tariffs

- Monitor monthly, daily and hourly cost
- Current tariff and rate information where available
- Cost estimate for a chosen date range
- View past invoices

Alerts & Insights

- Notifications about excessive usage and a high predicted monthly bill
- Alerts when usage changes in an unexpected way
- Carbon dioxide equivalent (CO₂e) emissions for your usage
- See how weather affects your usage, with practical energy tips

Access & Privacy

APPROVED EXPERTPOWER USERS ONLY

- Requires a SATEC meter installed and connected to Expertpower
- Account set up through the Expertpower web portal by SATEC
- Register with the same name and email linked to your Expertpower account
- Residents see only their own individual usage; common area data is not accessible

Specifications

DEPLOYMENT

Platform	Cloud based SaaS
Hosting	Hosted on Australian Microsoft Azure servers
Scalability	Single device to tens of thousands of devices
On-site servers	None required

USER INTERFACE

Access	Standard web browser over the Internet
Browsers	Multi-browser support, including Edge, Chrome, Opera and Safari
Client software	None required
Users	Multi-user with multiple security levels
Views	Dashboards, single line diagrams, charts, heat maps, GeoLocation maps, lobby kiosk

DATA STORAGE

Location	Cloud, on Australian Microsoft Azure servers
Logging	All data logged; any measured parameter can be charted

NOTIFICATIONS

Channels	Email, SMS and mobile app notifications
Alarm logic	Multi-level thresholds, logging and user acknowledgement

DATA SOURCES

Meters	SATEC meters and third-party meters
Utilities	Electricity, water, gas and steam; HVAC meters
Other devices	Power quality analysers and substation automation controllers
Pulse & analogue	Digital pulse and 4–20 mA inputs via meter or I/O gateway

COMMUNICATIONS

Device protocols	Modbus TCP/RTU, BACnet, DLMS and SNMP
M-Bus	Via ETC-II gateway or converter
Site links	Site Internet gateway, modem provider gateway, 4G/GPRS modem, RF concentrator

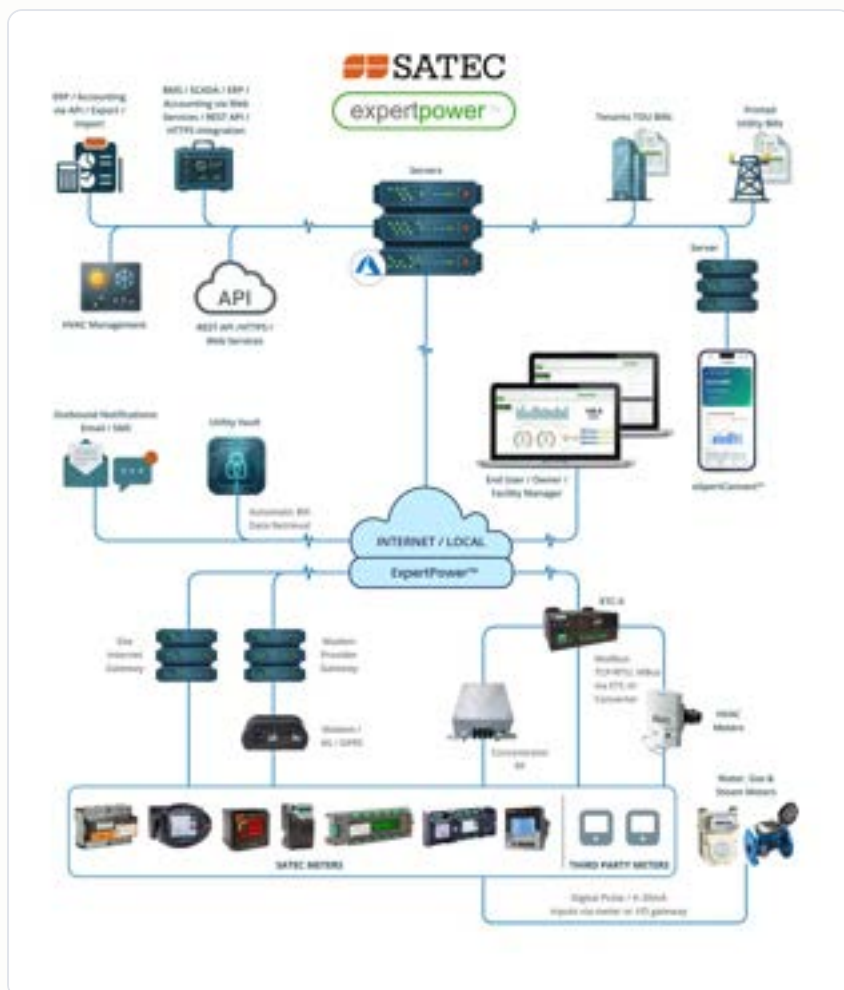
INTEGRATION

APIs	RESTful Web Services API over HTTPS
Telecontrol	IEC 60870–5–104
Third-party systems	BMS, SCADA, ERP, CRM, accounting and HVAC management
Export formats	Excel, PDF, CSV and HTML

EXPERTCONNECT™ APP

Platforms	iOS and Android
Data refresh	Synced every 30 minutes from Expertpower
Eligibility	Approved Expertpower users with a connected SATEC meter
Activation	By the SATEC technical team via the Expertpower web portal

System Architecture & Standards Support



Power Quality Reporting

- EN 50160 voltage characteristics compliance reports
- IEEE 1159 power quality event reports

Communication Standards

- IEC 60870-5-104 telecontrol interface
- Modbus TCP/RTU
- BACnet
- DLMS
- SNMP
- M-Bus via ETC-II

Integration Standards

- RESTful Web Services API
- HTTPS

Expertpower reports against these power quality standards using data from connected analysers. The software itself is not a certified measuring instrument.

Applications

- **Commercial:** office buildings, shopping centres, universities, hospitals, hotels, chain stores
- **Residential & embedded networks:** apartment and shared residential buildings with individual submeters
- **Data centres:** high-resolution billing down to an individual cabinet
- **Utilities & smart grid:** generation, transmission, distribution and AMR/AMI with billing
- **Renewables:** solar, wind and wastewater
- **Industrial:** process industry, semiconductors, pharmaceutical, mining and automotive

Ordering Information

ENQUIRE – **SCOPE** – **INSTALL METERS** – **CONNECT** – **CONFIGURE** – **GO LIVE**

PLATFORM

DESCRIPTION	AVAILABILITY
Expertpower™ cloud SaaS platform hosted on Australian Microsoft Azure servers	Quote on request

INTEGRATION

DESCRIPTION	AVAILABILITY
Web interface module for BMS, SCADA, ERP, CRM and accounting systems	Optional
Communication gateways, modems and ETC-II for M-Bus and third-party meters	Quote on request

EXPERTCONNECT™ APP

DESCRIPTION	AVAILABILITY
eXpertConnect™ for iPhone (App Store)	iOS
eXpertConnect™ for Android (Google Play)	Android
User access request for existing Expertpower customers (register online)	Approved users

RELATED SATEC SOFTWARE

DESCRIPTION	AVAILABILITY
Power Analysis Software (PAS) for local instrument configuration and analysis	Licence free

PLACE AN ORDER



To request a demonstration or a quotation for Expertpower™ and eXpertConnect™, contact the SATEC Australia sales team or scan the QR code.

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