

REMOTE SINGLE-MULTIPOINT SYSTEM MANAGEMENT SOFTWARE

SSE ENERtel

For the
MULTI VOLTAGE POWER-ONE NETWORKS POWER SYSTEMS
-48Vdc, +24Vdc and 230Vac

SSE ENERtel is the REMOTE SINGLE-MULTIPOINT
Monitoring and Management Software
for the ENERtel&Power-One Network Power Systems
based on ACC and ACX Control Modules

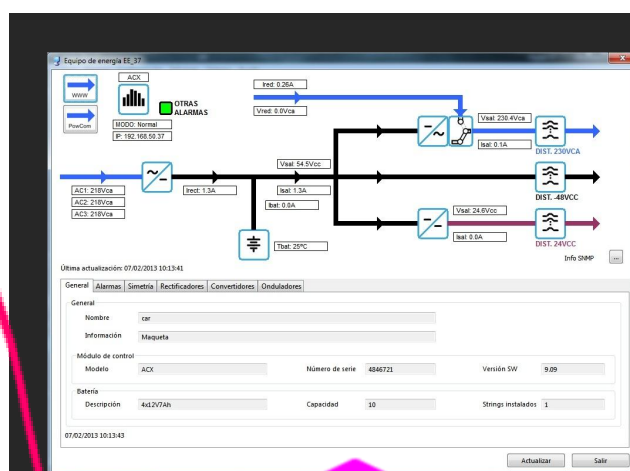
OVERVOLTAGE
PROTECTION,
WITH
AUTO RESTART

-48Vdc GUARDIAN
SYSTEM -14.500 W

+24 Vdc FMD 15.24
SYSTEM


230 Vac SLI-48-1500
SYSTEM

BATTERY TRAYS



SISTEMA DE SUPERVISIÓN DE ENERGIA -SSE- ENERtel

SERVIDOR SSE ENERtel

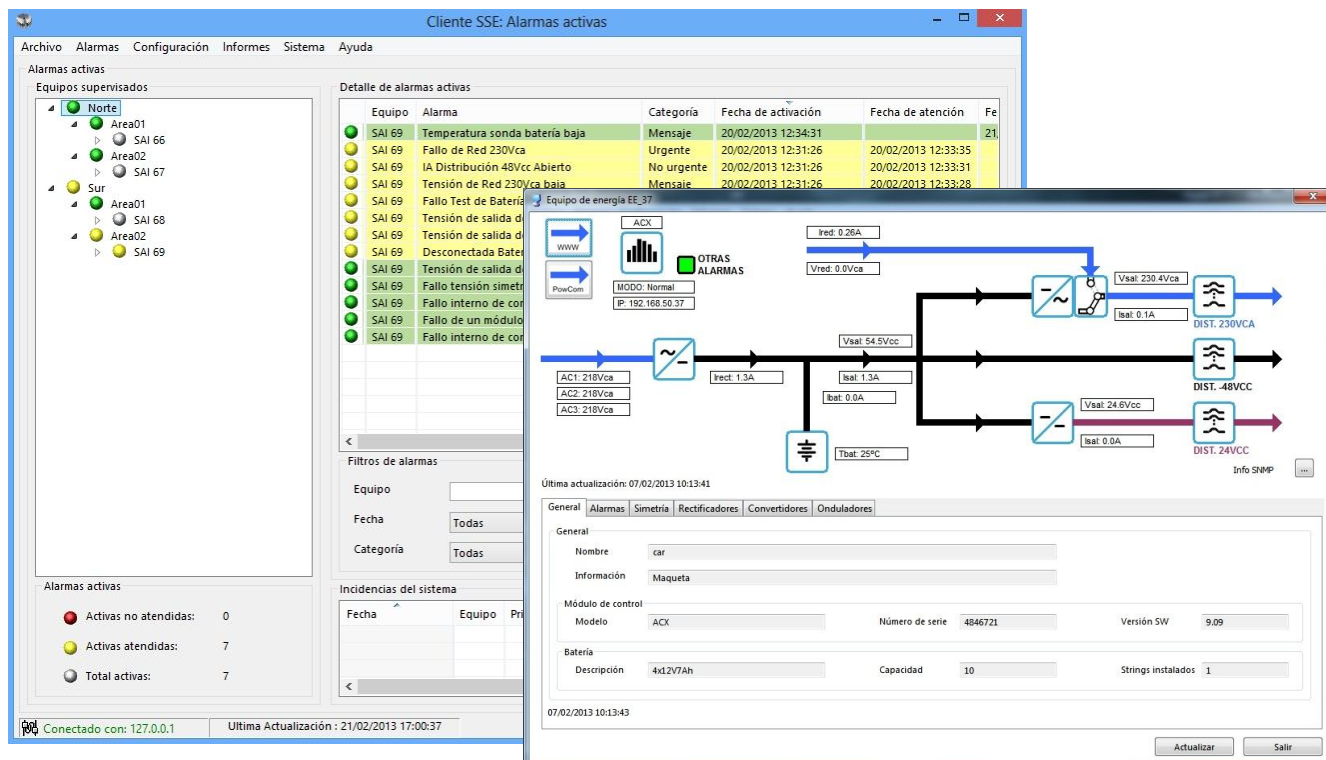


Datos de validación:

Usuario:

Contraseña:

Aceptar Cancelar



The screenshot displays the 'Cliente SSE: Alarmas activas' window. On the left, a tree view shows supervised equipment organized by area (Norte, Sur) and SAI (SAI 66, SAI 67, SAI 68, SAI 69). The main panel shows a table of active alarms with columns for equipment, alarm type, category, activation date, and attention date. A detailed view of a power system diagram is overlaid, showing ACX controllers, battery banks, and various voltage and current measurements. A summary table at the bottom provides details for the selected equipment, including its name, model, serial number, and battery specifications.

Equipo	Alarma	Categoría	Fecha de activación	Fecha de atención	Fe
SAI 69	Temperatura sonda batería baja	Mensaje	20/02/2013 12:34:31		21
SAI 69	Fallo de Red 230Vca	Urgente	20/02/2013 12:31:26	20/02/2013 12:33:35	
SAI 69	IA Distribución 48Vcc Abierto	No urgente	20/02/2013 12:31:26	20/02/2013 12:33:31	
SAI 69	Tensión de Red 230Vca baja	Mensaje	20/02/2013 12:31:26	20/02/2013 12:33:28	

DESCRIPTION

SSE ENERtel is a Windows based software for the remote management and monitoring in charge of the ENERtel&Power-One Power Systems based on ACC and ACX controllers

The **SSE ENERtel** software provides all the necessary tools needed to monitor and manage the Power Systems remotely.

The **SSE ENERtel** software connects to the TCPIP network as the Power-Systems and uses the SNMP protocol.

The design of **SSE ENERtel** software is based on a client-server architecture which permits a centralised supervision of the Power Systems from a single point :

- The Server receives the alarms from the Power Systems and will periodically sample the Power Systems parameters.
- The clients will be connected to the server in order to get the Power Systems data and display results on screen.

In order to stock the information from the Power Systems the **SSE ENERtel** software will write all the data to a dedicated database which will keep the totality of recorded information coherently.

The user graphic interface has been designed to allow an easy and quick Reading of the generated alarms with the intention to provide a quick and efficient way to fix the possible malfunctions that could appear on the Power Systems.

MAIN FEATURES

- Windows™ and TCPIP design
- No licence number
- Client Server architecture
- Up to 5 clients per server
- User/Password access
- Information log written on pdf and xls files, print feature available
- SMS and email alarms notification
- Rectifiers, DC/DC converters and inverters individually supervised
- Graphic interface oriented to a quick reading of the Power Systems state
- Systems are showed as a tree and classified by areas
- Real time system synoptic
- Integration of *PowCom™* software for advanced system configuration
- Integration of *WEB Browser* for advanced system configuration

Client server architecture

Centralized management of the power systems: The server receives the alarms sent by the controllers and samples periodically the power systems functional parameters. The user can access the server and get the systems data through the client station.

The SSE allows the configuring of sampling periods in order to be integrated into bigger networks environments with hundreds of Power Systems.

Restricted Access by user/password

In order to avoid unsuitable actions from users, the access to the SSE is restricted by user/password access.

Two kinds of users are available: The Administrator who has full access and the Operator who has access to the systems that were previously assigned.

Data history Smart Management

In order to get a well system functioning, the SSE automatically records all the data either per time or amount of data, both can be configured.

The history keeps the alarms, system malfunctions, user accesses and samples pooling from the systems.

Configurations Import / Export

In order to facilitate the import and export of the configurations between servers, the SSE provides the tools to generate configuration files that can be exported between servers.

User alarms advanced configuration

The SSE can monitor the user alarms programmed on the controller. The user alarms allow the integration of the power systems to the environment on which they are installed.

Alarms maintenance database

In order to facilitate the maintenance tasks, the SSE can keep a database of the jobs done when alarms are generated by the power systems. When an alarm is displayed the corrective actions are recorded to the database.

Easy and Intuitive Graphic Interface

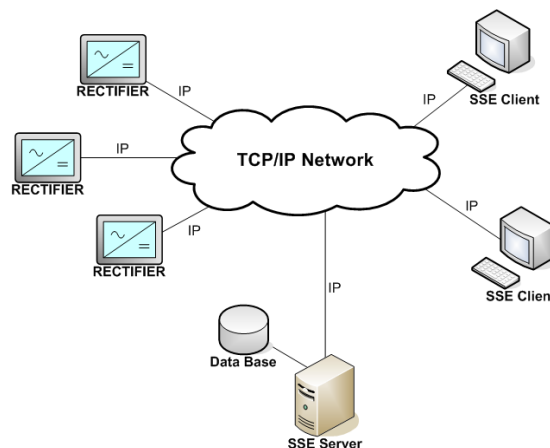
The graphic interface has been designed to facilitate the operator job oriented to an easy identification of the alarms generated by the systems.

A tree structure is used to display the power-systems.

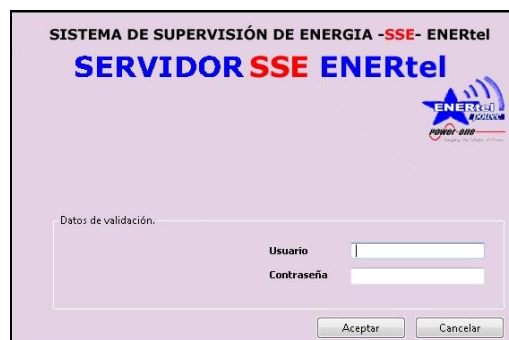
The active, non-active and recon-active alarms are displayed through a colour code, also the power-systems state (alarm, no alarm and recon alarm)

Power Systems Tree Hierarchy

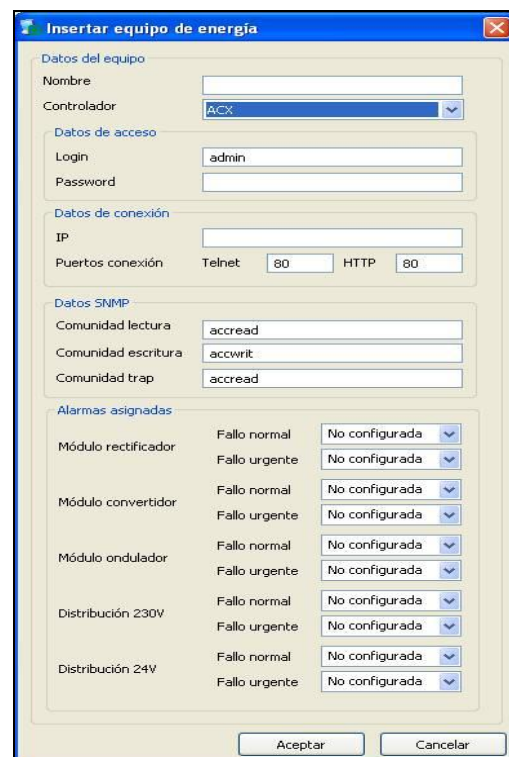
In order to improve the alarm identification it is possible to create areas and sub areas on the power systems tree. The power systems sharing common features will be shown as per geographic site, room, part of the infrastructure...



Client server architecture to centralized the alarms monitoring on one site



Restricted Access to avoid not allowed user actions



Intuitive systems integration and easy configuration of the power modules and user alarms

Available Reports

In order to analyse the information generated during the motorisation of the power systems, the SSE provides the necessary tools to build pdf and xls files and also a print feature.

The available information is:

- Alarm History.
- Power systems samples pooling history.
- Inventory of the power systems
- Inventory of the power systems state.
- User Access log on the power systems.

Advanced Real Time System Supervision

In order to facilitate the power systems advanced supervision, a synoptic is integrated on the SSE that contains the diagram of the power system parts. The synoptic allow a quick visualization of the power system and the rest of integrated parts.

Advanced Power Modules Supervision

The advanced supervision permits to motorize each integrated power modules individually (rectifiers, inverters and converters)

PowCom Software and WEB Server

In order to improve the SSE configuration capabilities, the ENERtel-Power-One configuration and control software PowCom has been integrated in the SSE. PowCom is accessible through the SSE menus.

A WEB browser has also been integrated in the SSE to permit the control of the power modules through integrated Web server.

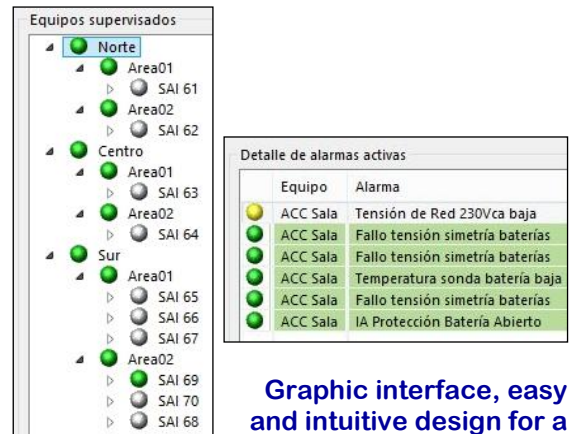
Hardware and Software Requirements

Hardware requirements:

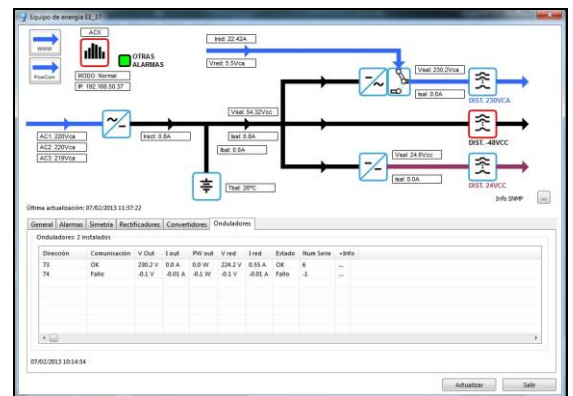
- **SERVER PC:** Pentium IV 3.0 GHz or faster with a minimum of 2048MB RAM and 80GB of free space on the HDD.
- **CLIENT PC:** Pentium IV 3.0 GHz or faster with a minimum of 1024MB RAM and 1GB of free space on the HDD.

The Server PC and client PC have also to be equipped with a NIC 10/100 Base-T. The Server and client console can be installed in the same PC.

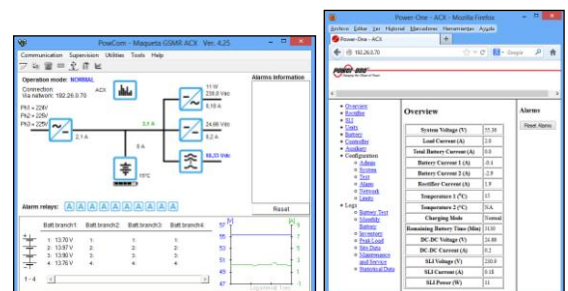
SSE EnerTel is a Windows based software that runs on Windows XP and newer.



Graphic interface, easy and intuitive design for a quick reading of the alarms and systems state



Advanced real time system supervision and individual Power Modules supervision



PowCom and WEB Browser integrated