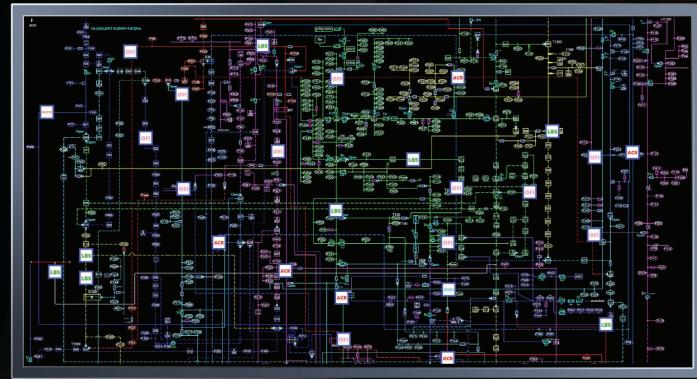




SMART GRID MANAGEMENT SYSTEMS

SIMA Grid, SIMA City, SIMA Home, SIMA Universe, SIMA Big Data

DRCs



ROSE

(Remote Operation System Enhancer)





ROSE

Remote Operation System Enhancer



ROSE is a cost-effective software solution tailored for small and medium-sized electrical utilities, special economic zones, and other facilities.

It integrates all DRC solutions into a unified platform, providing operations and management teams with robust data collection and analysis capabilities.

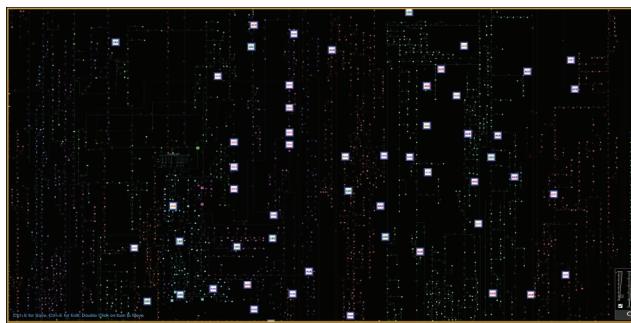
Designed with a focus on long-term growth, ROSE optimizes efficiency and supports scalable business development.



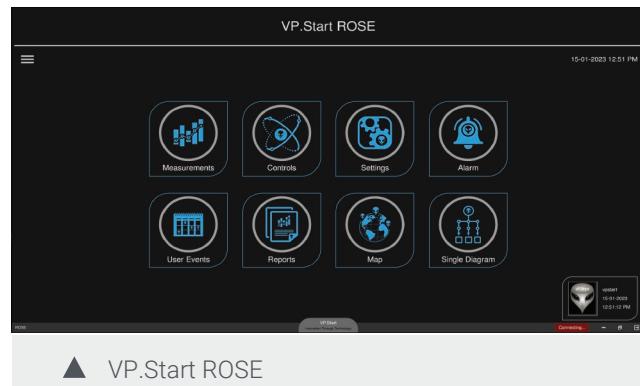
▲ Managing the electricity distribution network becomes easier

Key Features

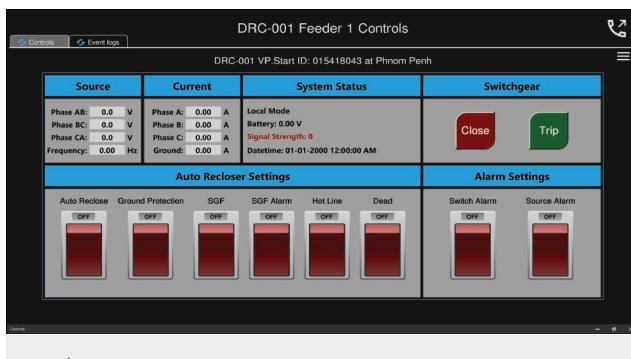
Remote Control:	Facilitates remote trip/close operations for Auto Recloser, LBS, Fusesavers, and Sectionalizers, along with access to device settings and event logs.
Measurements:	Monitors key electrical parameters such as Current, Voltage, Power (Active, Reactive, Apparent), Power Factor, and Frequency, supporting efficient energy management.
Setting:	Enables operators to modify electrical equipment parameters via DRC solutions, including hosting, protection, and current settings.
Reports:	Local reporting of network data, including Current, Voltage, Power, Power Factor, and Frequency, provides essential insights for comprehensive analysis.
User Event:	Logs all operator actions with detailed timestamps, enhancing accountability and system transparency.
Alarm:	Delivers instant fault notifications and maintains a detailed fault log for future analysis.
Call Control Function:	Supports direct calls to control switchgear operations and monitor real-time network status.
Single Diagram:	Displays electrical equipment schematically for efficient fault identification and network management.
Map View:	Integrates with Google Maps for precise location tracking and quick identification of impacted areas.
Analyze:	Aggregates alarms and key data for network improvement, enabling efficient problem-solving and expansion.
Backup & Restore:	Ensures data protection through server backups and quick recovery of critical configurations.



▲ Single Diagram



▲ VP.Start ROSE



▲ Control

Alarm		Message Alarm					
No	Name	Operator	VP Start ID	Alarm	Type	Datetime	Message Alarm
1	DRC-001 Feeder 1	vpstart	096123041	ON	DRC-001	13-10-2022 01:15:03 PM	Simulation DRC-004 Lost Of Power at 13:15:03 13/10/2022 Voltage Line1=0.0V Line2=0.0V
2	DRC-001 Feeder 1	vpstart	096123031	ON	DRC-001	13-10-2022 01:15:01 PM	Simulation DRC-003 22kV Supply off at 13:15:01 13/10/2022
3	LBS Testing	vpstart	086553134	ON	DRC-002	13-10-2022 01:15:00 PM	Simulation DRC-002 Switchgear off at 13:14:59 13/10/2022
4	DRC-001 Feeder 1	vpstart	015418043	ON	DRC-001	13-10-2022 01:15:03 PM	Simulation DRC-001 Switchgear off at 13:14:53 13/10/2022 Lineout G:149 C:134 Fault C-G
5	DRC-001 Feeder 1	vpstart	096123031	ON	DRC-001	23-11-2022 03:08:35 PM	Simulation DRC-003 Switchgear off at 15:08:34 23/11/2022
6	LBS Testing	vpstart	086553133	ON	DRC-002	23-11-2022 03:08:34 PM	Simulation DRC-002 Switchgear off at 15:08:33 23/11/2022
7	DRC-001 Feeder 1	vpstart	015418043	ON	DRC-001	23-11-2022 03:08:32 PM	Simulation DRC-001 Battery Line 20.8V at 15:08:32 23/11/2022
8	DRC-001 Feeder 1	vpstart	096123031	ON	DRC-002	23-11-2022 03:08:28 PM	Simulation DRC-002 RI Name: 15:08:28 23/11/2022 Line1 A:5/A Temporary:16/A Line1 B:5/A Temporary:17/A Line2 C:5/A Temporary:16/A
9	DRC-001 Feeder 1	vpstart	096123031	ON	DRC-009	23-11-2022 03:08:15 PM	Simulation DRC-001 Switchgear off at 15:08:14 23/11/2022
10	DRC-001 Feeder 1	vpstart	096123031	ON	DRC-010	23-11-2022 03:08:12 PM	Simulation DRC-010 RI Name: 15:08:12 23/11/2022 Line1 A:5/A Permanent:16/A Line1 B:5/A Permanent:16/A Line2 C:5/A Permanent:16/A
11	DRC-001 Feeder 1	vpstart	096123071	ON	DRC-007	23-11-2022 03:08:05 PM	Simulation DRC-007 Switchgear off at 15:08:05 23/11/2022 Fault_Peak: IA:345 IB:11 IC:315 Fault_RMS: IA:234 IB:206 IC:246
12	DRC-001 Feeder 1	vpstart	096123041	ON	DRC-004	23-11-2022 03:05:18 PM	Simulation DRC-004 Current Warning at 15:05:18 23/11/2022 Current Line1=20.0/A Line2=0.0/A Line3=0.0/A
13	DRC-001 Feeder 1	vpstart	096123031	ON	DRC-003	23-11-2022 03:05:16 PM	Simulation DRC-003 22kV Supply off at 15:05:15 23/11/2022

▲ Alarm

Product Specification

Remote Control Unit

Supported Devices	A. Auto Recloser: - Auto Schneider (ADVC) - Auto ENTEC - Auto Cooper B. Load Break Switch: - Model ABB (22kV/35kV) - Model S&S Korea - Model Precise (SREC-24) - Model Precise ORAP21.396.6MT - Model Precise SLBS.24 - Model Schneider PLA - Model Schneider RL-Series - Model ZW32 - Model ENTEC KPS - Model JK-SGS (Cover) - Model JK-SGS (Uncover) - Model LBS SEL - Model SPG-24 C. Fusesaver: - SIEMENS Fusesaver D. Over Head Fault Indicator: - Overhead Fault Indicator
Operation Security	<ul style="list-style-type: none">• System Security with Login Account (Username and Password).• System Login with Operator Photo Record.• User Operation Event Log.• Switchgear Control with System Validation and Operator Photo Record.
Communication Security	<ul style="list-style-type: none">• Dynamic Encryption Data Communication Security.
Operation Security	Data Communication Protocol Support: - VP.Start Protocol - DNP3 - Modbus - IEC 60870-5-101/104
System Event Log and Report	A. Operator Action Record: - System Login/Logout. - System Control Event Record. B. Power Line Event Record: - Controller Alarm Record. - Switchgear OFF Event Record. - Line Fault Alarm Record.
RPM Grid Function	1. CONTROL 2. SETTING 3. MONITORING 4. REPORTING & LOG 5. ALARM 6. SOFTWARE MANAGEMENT

Single Line Support	<ul style="list-style-type: none"> A. Support Single Line Diagram. B. Controller Located Indication on Single Line. C. Controller Information Indicated. D. Controller Alarm Indication (Blinking) on Single Line. E. Support Action: <ul style="list-style-type: none"> - Click to go to Controller. - Point to Show Controller's Information. - Zoom In/Out.
RPM Grid Function	<ul style="list-style-type: none"> A. Support google Map. B. Controller Located Indication on Map. C. Controller Information Indicated. D. Controller Alarm Indication (Blinking). E. Support Action: <ul style="list-style-type: none"> - Click to go to Controller. - Point to show Controller's Information. - Zoom In/Out.
Map Support	<ul style="list-style-type: none"> A. Support google Map. B. Controller Located Indication on Map. C. Controller Information Indicated. D. Controller Alarm Indication (Blinking). E. Support Action: <ul style="list-style-type: none"> - Click to go to Controller. - Point to show Controller's Information. - Zoom In/Out.
Call Control Function	<ul style="list-style-type: none"> A. Call Line Report (Status, Measurement). B. Call Switchgear Report. C. Call Switchgear Control.

RPM Modem

Communication Modem	<ul style="list-style-type: none"> • GSM/GPRS Modem
Communication Support	<ul style="list-style-type: none"> • GSM/GPRS (900, 1800) MHz
Modem Communication Interface	<ul style="list-style-type: none"> • USB Communication
Modem Power Operation	<ul style="list-style-type: none"> • 5 VDC
Modem SIM Support	<ul style="list-style-type: none"> • Micro SIM Card
Modem SIM Slot	<ul style="list-style-type: none"> • 1 SIM Card
Ambient Temperature Range	<ul style="list-style-type: none"> • 0 to 55 °C
Operating Humidity	<ul style="list-style-type: none"> • < 95 %
Data Storage	<ul style="list-style-type: none"> • Internet Hosting (Cloud) & Local Storage



VP.Start

Visit Us

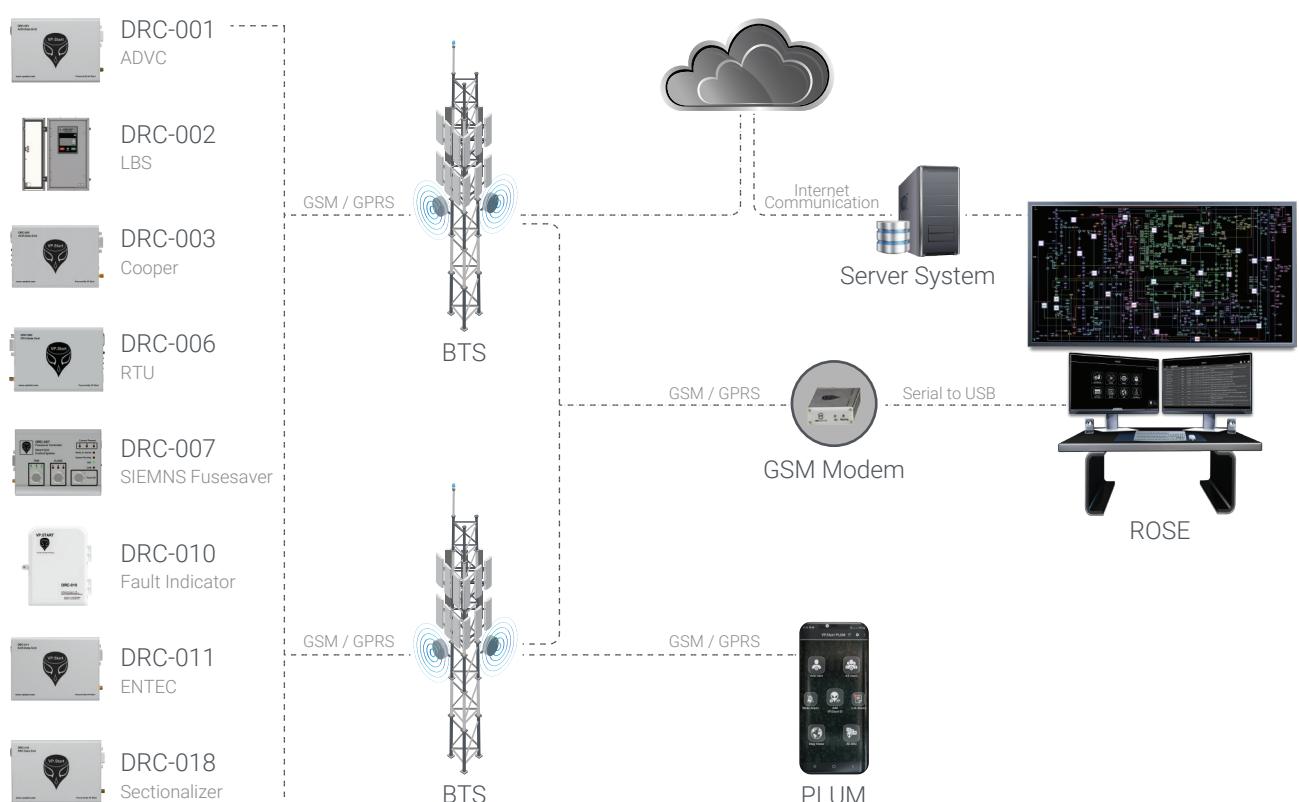


www.vpstart.com

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-  Website :www.vpstart.com
-  Email :sale@vpstart.com / info@vpstart.com

Data Security	<ul style="list-style-type: none"> • Data Backup • Data Encryption
Modem SIM Slot	<p>A. Data Reporting:</p> <ul style="list-style-type: none"> - Daily Report - Weekly Report - Monthly Report <p>B. Recording Data:</p> <ul style="list-style-type: none"> - Apparent Power (kVA) - Active Power (kW) - Reactive Power (kVar) - Frequency (Hz) - Current (Amp) - Voltage (V) - Power Factor
Controller Event Log	• Yes

System Architecture





▲ Direct control from the control room over the Remote Operation System Enhancer