Future-proof solutions to accelerate the digitalization of power grids

Grid Automation Management

gridspertise
accelerating your electric future

Grid Automation Management

THE CHALLENGE

Grid operators face numerous challenges in **ensuring reliability, reducing downtime**, and efficiently **managing faults**.

Manual fault detection, isolation, and service restoration processes are **time-consuming**, leading to extended **outages**, **dissatisfied customers**, and increased **operational costs**.

Legacy SCADA systems often **lack** the advanced capabilities required for **effective fault management** and **self-healing automation**.

There is a need for a comprehensive **solution** that addresses these challenges and **empowers grid operators** to **proactively manage faults** and **enhance grid reliability**.
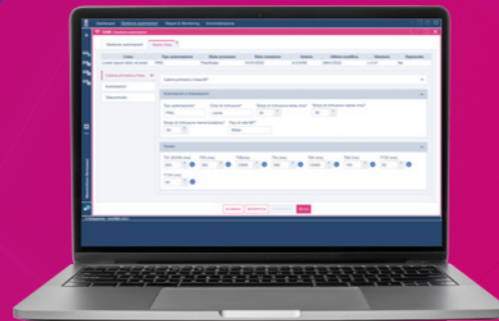
THE SOLUTION
GAM - FLISR Module
for any SCADA

GAM serves as the **ultimate FLISR module** for any SCADA systems.

Smoothly **integrating with any existing SCADA** infrastructure, GAM enhances any legacy system capabilities, empowering them with **advanced fault location**, **isolation**, and **service restoration** functionalities.

By combining **slow and fast self-healing automation**, GAM provides a comprehensive approach to **fault management**. Operators gain greater control, **reduced response times**, and the ability to deliver **uninterrupted power supply** to customers.

Fast Self-Healing Automation

In critical situations where immediate fault resolution is crucial, GAM fast self-healing automation capabilities come into play. By leveraging advanced fault detection algorithms and distributed communication with IEDs, GAM swiftly isolates and restores service, ensuring minimal disruption to customers.
Restoration time is lower than 1 second thanks to GOOSE message integration.

Slow Self-Healing Automation

GAM facilitates the gradual restoration of power by automatically rerouting electricity flow and isolating faulty sections. This slow self-healing automation helps minimize the impact of faults, reducing downtime and improving grid reliability. Operators can proactively address faults before they escalate into major outages, resulting in enhanced customer satisfaction and operational efficiency.
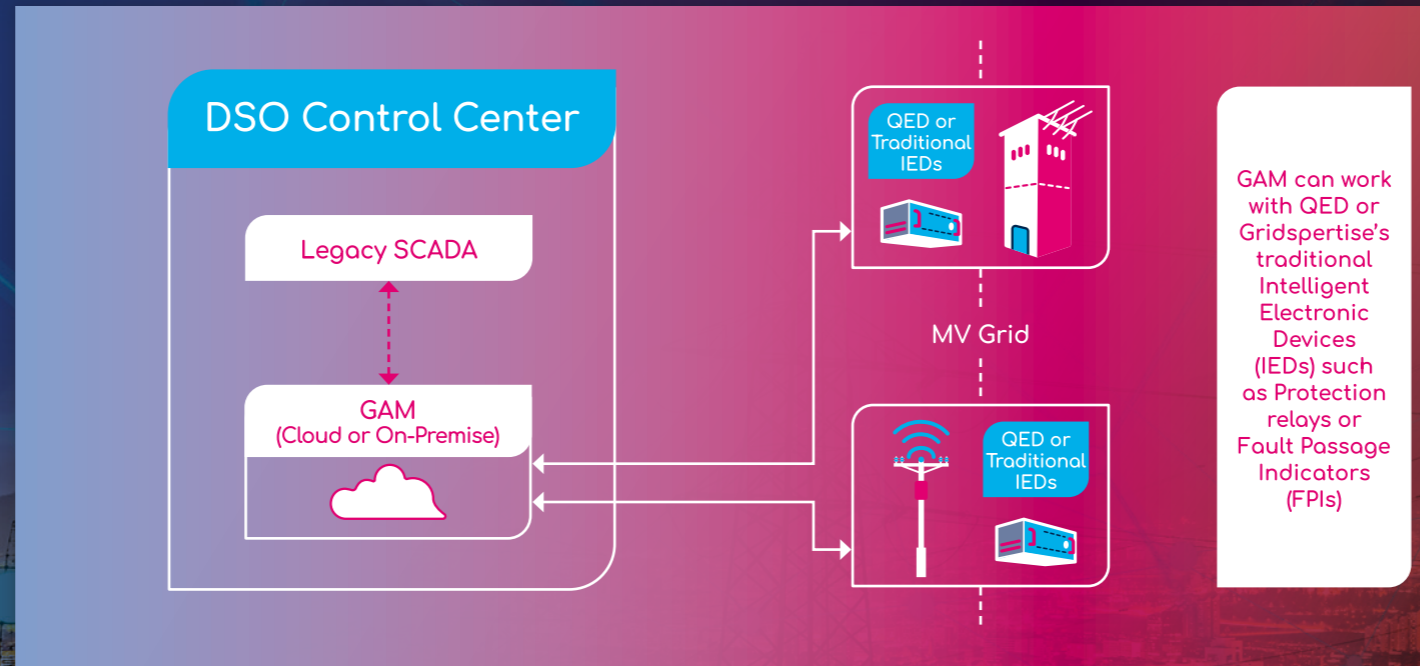
GAM Solution Architecture and Benefits

SAIDI Reduction

By automating fault detection, isolation, and restoration processes, GAM **significantly reduces System Average Interruption Duration Index (SAIDI).** This leads to improved grid reliability and customer satisfaction.

User-Friendly Configuration

GAM boosts a user-friendly interface that **simplifies system configuration and operation.** With intuitive tools and comprehensive documentation, users can **easily adapt and customize the automation settings** to meet their specific requirements.

Reduction of MV Equipment Wear-Out

Through optimized fault detection and load management, GAM **minimizes stress on medium voltage equipment,** thus extending its lifespan and reducing maintenance costs.

Proven Track Record

GAM has been rigorously **tested and successfully implemented by Enel Group as DSO since 2010.** The extensive real-world experience of Enel Group validates the effectiveness and reliability of the solution.

DSO Control Center

Legacy SCADA

GAM
(Cloud or On-Premise)

MV Grid

QED or Traditional IEDs

QED or Traditional IEDs

GAM can work with QED or Gridspertise's traditional Intelligent Electronic Devices (IEDs) such as Protection relays or Fault Passage Indicators (FPIs)

Results

Enhanced Grid Reliability

By leveraging GAM FLISR capabilities, operators achieve faster fault detection, isolation, and service restoration, minimizing downtime and improving overall grid reliability.
This leads to enhanced customer satisfaction and increased trust.

Future-Ready Grid Automation

With GAM scalable architecture, utilities can adapt and expand their automation capabilities over time.
From basic fault selection instructions to advanced Self-Healing Automation (SHA), GAM ensures utilities are future-ready and can meet evolving grid automation needs.

Embrace GAM and unlock the full potential of your distribution grid management.

Upgrade your SCADA system to enable unprecedented grid automation potential and leverage your existing investments

Let's accelerate your electric future!

Improved Regulatory Compliance

GAM ability to reduce SAIDI aligns with regulatory requirements and performance targets. Utilities can meet or exceed regulatory standards, avoiding penalties and maintaining a positive reputation.

Reduced Operational Costs

GAM proactive fault management and automation capabilities help reduce operational costs associated with prolonged outages, manual interventions, and unnecessary maintenance.

For information about ours products scan the QR code

HELP US BE PART OF YOUR
GRID DIGITALIZATION

LET'S WORK TOGETHER
ON YOUR USE CASE

NOTE

Are you ready
for the electric future?

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