

# Gemini-SCADA 2

Control & Monitoring for MV Electrical Distribution Systems



ENGINEERING BRILLIANT SOLUTIONS

## Gemini-SCADA 2 — The right SCADA choice

Lucy Switchgear offers our customers entire electrical network remote control options, via the use of our automation and monitoring products. In addition, Lucy Switchgear provides switching and protection solutions for electrical distribution systems. Our technology is at the cutting edge of MV switchgear design and innovation, specialising in both ground and pole-mounted switchgear. With these combined capabilities, we can offer our customers a truly systems engineered approach to their turnkey MV electrical distribution requirements for the utility, industrial, commercial and infrastructure sectors.

### The right partnership



Because we are a GE Fanuc Premier Solutions Provider, Lucy Switchgear's Gemini SCADA 2 (or G2-SCADA) automation solution is based on their award winning iFIX software.

This solution provides a dynamic and robust method for MV network monitoring and grants the user full visual control and information accessibility to any networked system architecture, which also incorporates Gemini G2-RTUs for localised remote control. Our SCADA software has been developed as "application specific" for the control and monitoring of MV electrical networks.

### Other benefits include:

- Use of an "off the shelf", Windows based solution that has the ability to be tailored to suit any control room operation
- Scalable and affordable system architecture
  - Requirements can be single user read only accessibility, right through to multi user read/write privileges that can be securely accessed from any networked PC
  - Network status and alarm handling can be interrogated via SMS messaging and mobile communication devices
- Low cost of ownership, due to easy configuration and upgrade paths to reflect future network changes
- Financing options available

### Core SCADA Capabilities

- Real time data collection, database management, real-time dynamic data display
- Secure operator supervisory control
- Alarm, event, sequence of event management
- Historical collection with real-time and historical trending graphs
- User-based security
- On-line configuration

## Time for the right call...

To improve your real time understanding and operational capabilities of your MV distribution systems, why not give Lucy Switchgear a call or email your requirements to our specialist Automation team.



# Specification for G2-SCADA

## Requirements

Microsoft Windows 2003 server,  
Windows XP or later  
Pentium IV; 512MB RAM  
120MB disc space; CD ROM  
TCP/IP LAN Interface  
SCGA or higher  
Mouse

## Display & Graphics

Multiple monitors per workstation  
Windows style navigation  
Object-orientated graphics  
Industry specific object libraries  
Pan, zoom with automatic declutter

## Summary Lists

Alarms  
Events  
Sequence of events  
Dynamic database display  
Control tag  
Information tag  
Manual overwrite  
Disabled alarms  
Operator notes



Automated Ground Mounted Ring Main Unit



Automated Pole Mounted Load Break Switch

## Connectivity

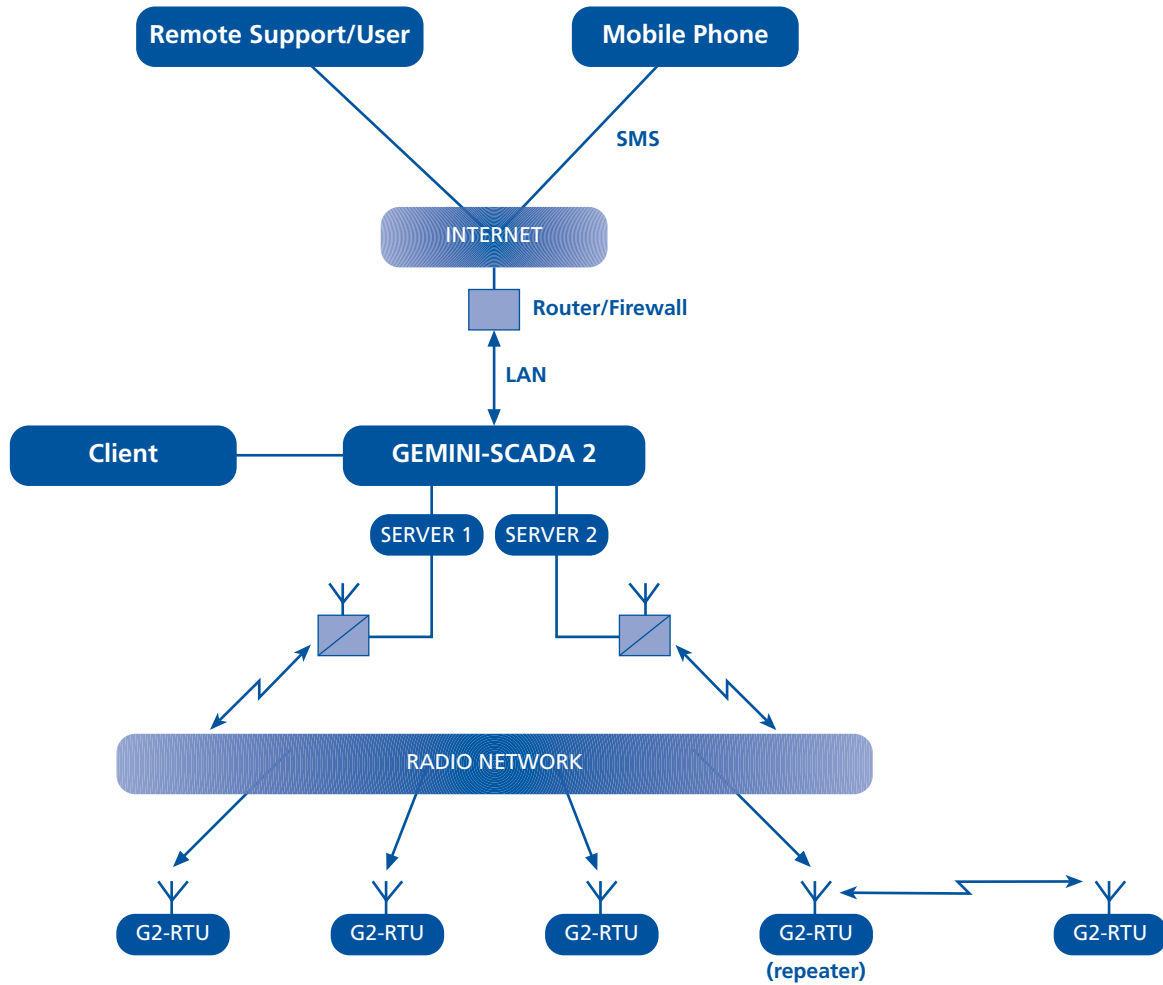
G2-RTU (Lucy Switchgear)  
Multiple communications to  
RTUs, IEDs, PLCs or other I/O devices  
DNP3, IEC 60870-5-101/104 – others on request  
Full OPC server and client support  
Multiple simultaneous parallel, serial  
and/or Ethernet communication channels  
e.g. radio, GSM or GPRS

## Safety Features

Select before operate control  
Control timeouts; control fail alarm  
Simultaneous control lock-out  
Control tagging (control lock-out)  
Information tagging

# Typical G2-SCADA System Architecture

(with redundant servers/communications)



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