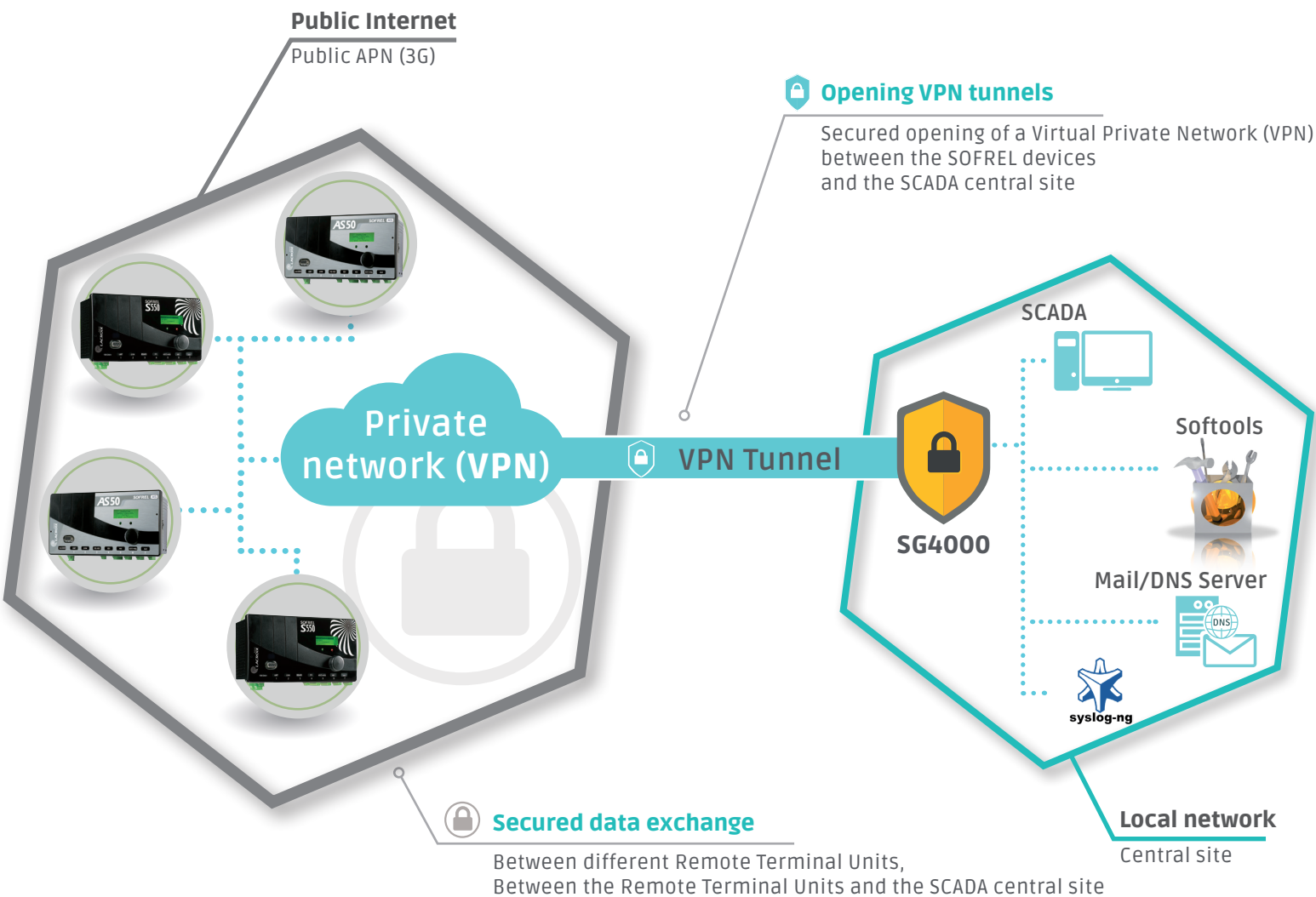# SOFREL SG4000

VPN SERVER FOR SOFREL ECOSYSTEMS

Secure data exchanges between the SOFREL RTUs and the telemetry and SCADA site

Public Internet
Public APN (3G)

🔒 **Opening VPN tunnels**

Secured opening of a Virtual Private Network (VPN) between the SOFREL devices and the SCADA central site

Private network (VPN)

🔒 VPN Tunnel

SG4000

SCADA

Softools

Mail/DNS Server

syslog-ng

Local network
Central site

🔒 **Secured data exchange**

Between different Remote Terminal Units, Between the Remote Terminal Units and the SCADA central site

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Simplicity

Cybersecurity

Software

Ready for use

➕ PRODUCT HIGHLIGHTS

- Secure transmission
- Creation of a VPN (data encryption)
- Fixed IP addresses assigned to Remote Terminal Units
- Configurable firewall

BENEFITS

- Optimisation of communication costs
- Ease of implementation and usability
- Secured data exchange

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Field Functions and Security Highlights

Securing devices and their data **exchange** is an **essential feature** of **Cybersecurity**. The LACROIX Sofrel range of telemetry products are specifically designed to manage these current issues. The SG4000 server is the key element in securing the LACROIX Sofrel ecosystem for communications on the Public Internet.

The installation and ease of use of this application on a server of the SCADA central site enables the fast and effective creation of a VPN network on the Public Internet (with 3G support).
This feature also enables **optimisation of the operational and communication costs** of the global system. The deployed Virtual Private Network (VPN) enables **secured data exchange** between the SOFREL Remote Terminal Units and the SCADA central site of the telemetry network. It houses the Field and Network applications of the client and ensures the routing of the IP communications.
To optimise operating facility and communications, the SG4000 server limits exchanges between the remote devices and the SCADA central site with the following functions:

- **Tasks**:
  - Interrogation of the Remote Terminal Unit
  - Remote Terminal Unit alarm reporting to a SCADA Central Station
  - Configuration and Operation of the Remote Terminal Unit
  - Updating of Remote Terminal Unit users and configurations
  - Remote Terminal Unit notifications to the Syslog Monitoring system

- **Network**:
  - Resolution of addresses by the DNS server
  - Sending of emails from the Remote Terminal Unit to a message server

SG4000 includes a **WatchDog** function giving the software **very high operational reliability**.

SG4000, an easy-to-implement solution

TECHNICAL CHARACTERISTICS	
Environment	Virtual application
VMWare ESXi	ESXi 6.5 (OVA format)
Microsoft Hyper V	Hyper-V (zip format) under Microsoft Windows 10 LSTB or Microsoft Windows Server 2012/2016
Capacities	Up to 400 Remote Terminal Units
Security	Encrypted communications
	Configurable firewall
Authentication	AS / S500: passwords
Periodical test	Verification of the SG4000/Remote Terminal Units connection every hour

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