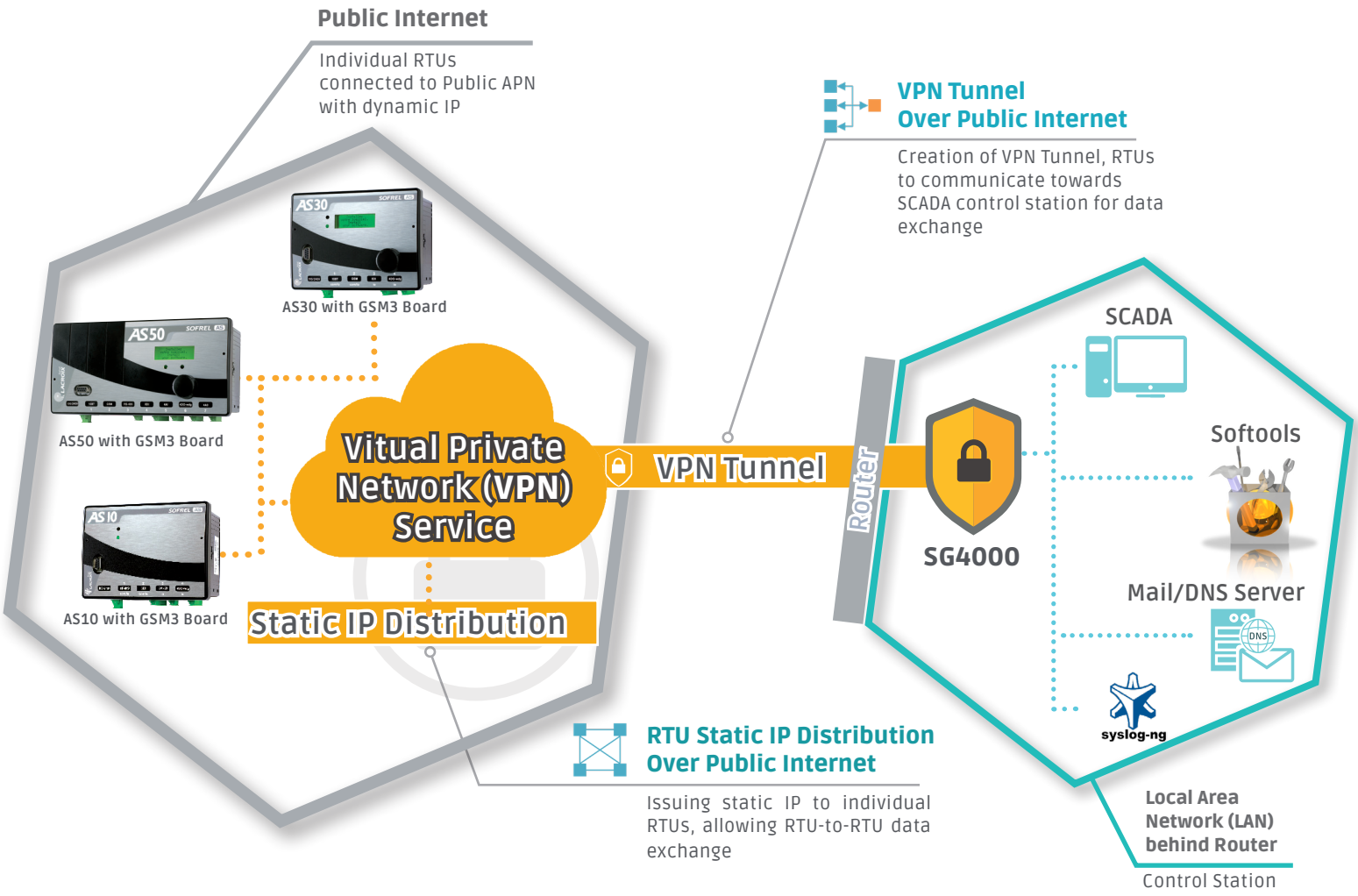
SOFREL SG4000

PROVIDING VPN SERVICE FOR SOFREL ECOSYSTEM



PRODUCT FEATURES

- Secured data transmission in the public network
- RTU Static IP managment
- Firewall control
- Network status monitoring and diagnosis

BENEFITS

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

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SOFREL SG4000 - Providing VPM Service for SOFREL Ecosystem

The **SG4000** is the key element of LACROIX Sofrel ecosystem, providing borderless, wireless, secured and reliable data accessing experience **over the public internet.**

Once the application is online, SG4000 will create **VPN tunnel** for SOFREL RTUs to communicate back to control station.

Moreover, the SG4000 provides additional service by **issuing static IP** to SOFREL RTUs, to perform RTU-to-RTU wireless interconnection, communicates over the public internet.

GENERAL	
Environment	SG4000 Virtual Software Application
- VMWare ESXi	ESXi 6.5 (OVA format)
- Microsoft Hyper-V	Windows Built-in Hyper-V (zip format) Microsoft Windows 10 LSTB or Microsoft Windows Server 2012/2016
Max. Manageable Devices	Up to 400 SOFREL RTUs
RTU Identification	Identified by RTU device number
Default Port	TCP port no. 10504 for the AS / S500 RTU VPN connection
Security	Protected communication with password checking and firewall control
Authentication	SOFREL AS RTU / S500 RTU : Password Authentication
Periodical Checking	Heartbeat checking and connection verification between SG4000 and RTU in every hour
NETWORK SETTINGS	
LAN Network	
- IP Configuration	IP, doman and DNS configuration
- Routing Table	IP routing, gateway IP and destination definition
- Firewall	Rule and restrict data exchanges (VPN - LAN network)
VPN Network	
IP Configuration	VPN IP configruation
RTU Registration	RTU site number, VPN IP and password managment
DIAGNOSTICS	
Diagnosis and Operations	
- Self-checking	Self-check and restart service if operation fault detected
- RTU Connection Overview	Overview monitoring of RTU connections status
- Network Analysis	Network equipment connection analysis
- Operation	Tracking of in comming TCP connections in real-time
- Logs	Recording the RTU events and SG4000 operation logs with timestamps
- Maintenance	.Cfg importing, exporting, VPN service rebooting, program upgrading

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