

# OPC SOFREL Servers

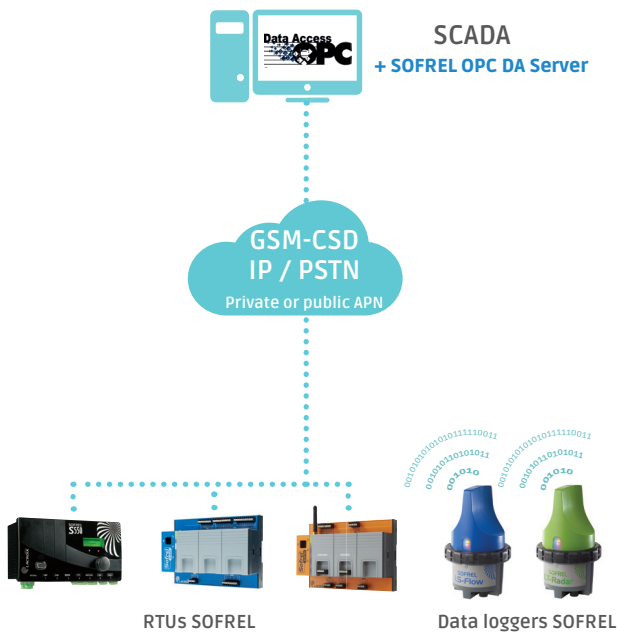
## SOFTWARE INTERFACES FOR COMMUNICATION BETWEEN SOFREL DEVICES AND INDUSTRIAL SUPERVISORS

OPC (OLE for Process Control) is a set of protocols for data exchange between industrial software that removes users from the barriers imposed by proprietary protocols.

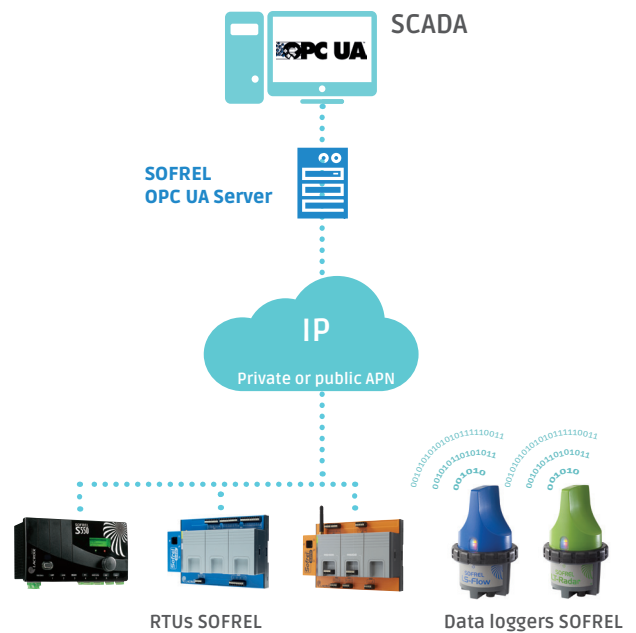
- **OPC DA** : Historical standard dedicated to Windows environment,
- **OPC UA** : Updated standard open to the IP environment, natively integrating multi-machine security and IT security aspects

LACROIX Sofrel has committed fully to this approach and offer an OPC server software suite enabling supervisors with an «OPC client» interface to communicate in OPC DA or OPC UA with all SOFREL RTUs and data loggers.

### OPC DA ARCHITECTURE



### OPC UA ARCHITECTURE



### Key FEATURES

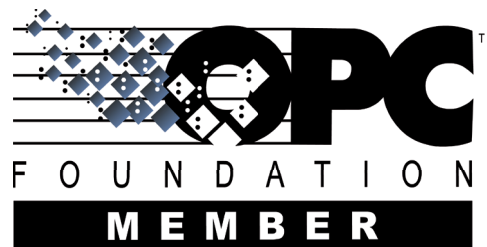
- Access to all data generated by the network of RTUs
- Transmission of setpoints and operating parameters
- Dual access medium to each Remote Terminal Unit
- Presentation of available services in the form of lists

### BENEFITS

- Opening of all SOFREL equipment of all generations to industrial SCADA systems
- Network cybersecurity\*

## Compatibility

With concerns for both performance and reliability, each supervisor with an «OPC client» interface is first validated. A list of validated supervisors is available on request, or in the LACROIX Sofrel Web site: [www.lacroix-sofrel.com](http://www.lacroix-sofrel.com)



## TECHNICAL SPECIFICATIONS

CAPACITIES	OPC DA	OPC UA
<b>SOFREL devices capacity:</b>		
- Remote Terminal Units	500	500
- Data loggers	2 000	2 000
<b>Communication supports:</b>		
- Communication ports	8	
- Ethernet link	1	1
<b>SCADAs :</b>		
- Communication with max. number of authenticated scada's	4	4
<b>OPERATING SYSTEMS</b>		
- Windows 10 Enterprise	✓	✓
- Windows Server 2019	✓	✓
- Windows Server 2016	✓	✓
- Windows Server 2012	✓	✓
- VMware Workstation Pro (Vmware + Windows Server)		✓
<b>COMMUNICATION</b>		
- Ethernet (LAN, ADSL GPRS)	✓	✓
- GSM Data and SMS	✓	
- PSTN	✓	
- Radio	✓	
- Dedicated line / Private line (DL/PL)	✓	
- Serial link	✓	
<b>EXCHANGE PROTOCOLS</b>		
<b>With SCADA systems:</b>		
- OPC UA Binary 1.04 'Server' with Data Access profile's - IEC 62541		✓
- OPC DA 2.0 'Server'	✓	
<b>With SOFREL equipment:</b>		
- LACBUS-RTU		✓

## FUNCTIONAL CHARACTERISTICS

FUNCTIONS	OPC DA	OPC UA
- Access to all data generated by the telemetry network	✓	✓
- current status values, alarms, measurements, metering		
- historical values and reports		
- operating parameters (time periods, etc.)		
- Transmission of setpoints and operating parameters	✓	✓
- Data loggers remote configuration modification		✓
- Dual access medium to each Remote Terminal Unit (backup medium in the event of malfunction of the main medium)	✓	✓
- Presentation of available services in the form of lists (browser)	✓	✓
- Integrated cybersecurity		✓
- securing		
- encryption		
- authentication		
- Redundancy		✓
- Communication diagnosis and logs	✓	✓
- XML configuration	✓	✓

