

# 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.

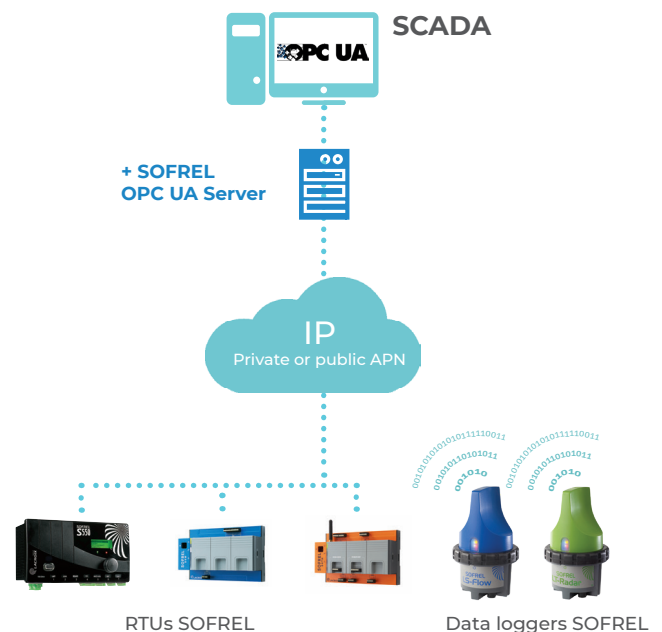
- OPC DA : Historical standard dedicated to Windows environment
- OPC UA : Updated standard open to the IP environment, natively integrating multi-machine security and IT security aspects

LACROIX Environment 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



### MAIN FEATURES:



Ready for use



Security



Software



Simplicity

### 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

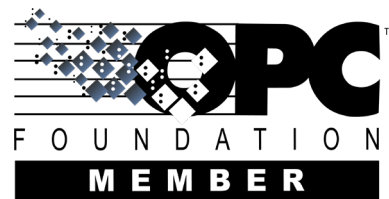
- Opening of all SOFREL equipment of all generations to industrial SCADA systems
- Network cybersecurity\*

\*Only available for OPC UA

# Technical and functional characteristics

## 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 Environment website: [www.lacroix-environment.com](http://www.lacroix-environment.com)



Capacities	OPC DA	OPC UA
Number of SOFREL Remote Terminal Units	500	500
Number of SOFREL Data loggers	2 000	2 000
Communication supports:		
- Communication ports	8	
- Ethernet link	1	1
SCADAs :		
- Communication with max number of authenticated SCADAs	4	100
Operating systems		
- Windows 10 Enterprise	✓	✓
- Windows Server 2019, Server 2016 and Server 2012	✓	✓
- VMware Workstation Pro (Vmware + Windows Server)		✓
Communication		
- Ethernet	✓	✓
- GSM Data and SMS	✓	
- PSTN	✓	
- Radio	✓	
- Dedicated line / Private line (DL/PL)	✓	
- Serial link	✓	
Exchange protocols		
With SCADA systems:		
- OPC UA Binary 1.04 'Server' with Data Access profile's - IEC 62541		✓
- OPC DA 2.0 'Server'	✓	
With SOFREL equipment		
- LACBUS-RTU	✓	✓
Functions		
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	✓	✓