

### Overview

SITRANS serve IQ is an on-premise application to acquire measurement data that has been sent from remote sensors. The data is stored locally on an Industry PC and can be visualized in trends and tables. Optionally, there is an interface to forward the data to a SCADA system, using the telemetry protocol IEC 60870-5-104. If enabled, authorized users can access this on-premise application via the Internet.

### Benefits

Widely distributed measuring points are used in a range of applications and industries. These include:

- Flow measurement in water supply networks.
- Level measurement in tanks and silos.
- Height measurement in bodies of water.

Today, data is either stranded locally or remote devices send measurement data and alarms in csv-format via email (e.g. SITRANS MAG 8000 3G or SIMATIC RTU 30xxc).

SITRANS serve IQ supports you by

- Reading and parsing the email attachment containing the valid measurement data from the email address provided by you.
- Visualizing historic and current process values as trend logs or in tables and displaying alarms (as sent by the devices).
- Forwarding process values to SCADA via the optional telemetry protocol IEC 60870-5-104.
- Providing global, secure access to process values from widely distributed measuring points using the Google Chrome web browser.

### Application

SITRANS serve IQ software must be installed on a local IPC, on-premise and must have access to an email account used for receiving data from remote devices.

When data from supported devices is sent to the predefined email account, SITRANS serve IQ performs the following activities:

- Reads and parses the email attachment containing the valid measurement data from the email address provided by you.
- Reads the time stamped measurement data and store it locally on your PC.
- Visualizes the data in trends, display alarms, and download the data in tables to authorized users.

Optionally, and on further request, the measurement data can be sent forward to a SCADA system via IEC 60870-5-104 telemetry protocol widely used in the water and power industries.

SITRANS serve IQ can be used with the following products:

- SITRANS F MAG8000 with integrated wireless communication module
- All transmitters in the SITRANS product family with 4 to 20 mA or Modbus RTU interface, which can be operated on a SIMATIC RTU30xxC.

SITRANS serve IQ continuously monitors measurement values against configurable upper and lower limits. Values exceeding the limits will be reported as warning or alarm, depending on the user setting.

For details and limitation, consult the Product page available at [www.siemens.com/SIOS/sitransserveiq](http://www.siemens.com/SIOS/sitransserveiq).

### Design

SITRANS serve IQ software is supplied with a Media Package on a USB stick or online software download with an installation program.

SITRANS serve IQ consists of a software package and several license upgrade options.

Software packages	
	SITRANS serve IQ perpetual <sup>1)</sup>
<b>Number of devices supported</b>	10 devices
<b>License type</b>	Perpetual license
<b>Features</b>	<ul style="list-style-type: none"> <li>• Online download or USB stick for software package and license</li> <li>• Reading and visualizing measured values from the CSV or log file, saving of measured values in the database</li> <li>• User management</li> <li>• Provision of worldwide remote access for system configuration and data visualization via Chrome web browser.</li> </ul>

License upgrade options:	
• Additional devices	SITRANS serve IQ license upgrade for 1, 10, 100, or 500 additional devices according to the customer's requirements, up to a maximum of 1 300 devices in total.
• IEC 60870-5-104 telemetry protocol	<ul style="list-style-type: none"> <li>• Data interface to SCADA server (single or redundant) with the standardized IEC 60870.5.104 telemetry protocol</li> <li>• Enables easy integration in SIMATIC PCS 7 Tele-control</li> </ul>

<sup>1)</sup> SITRANS serve IQ software is protected against unauthorized copying by the Automation License Manager (ALM) tool.

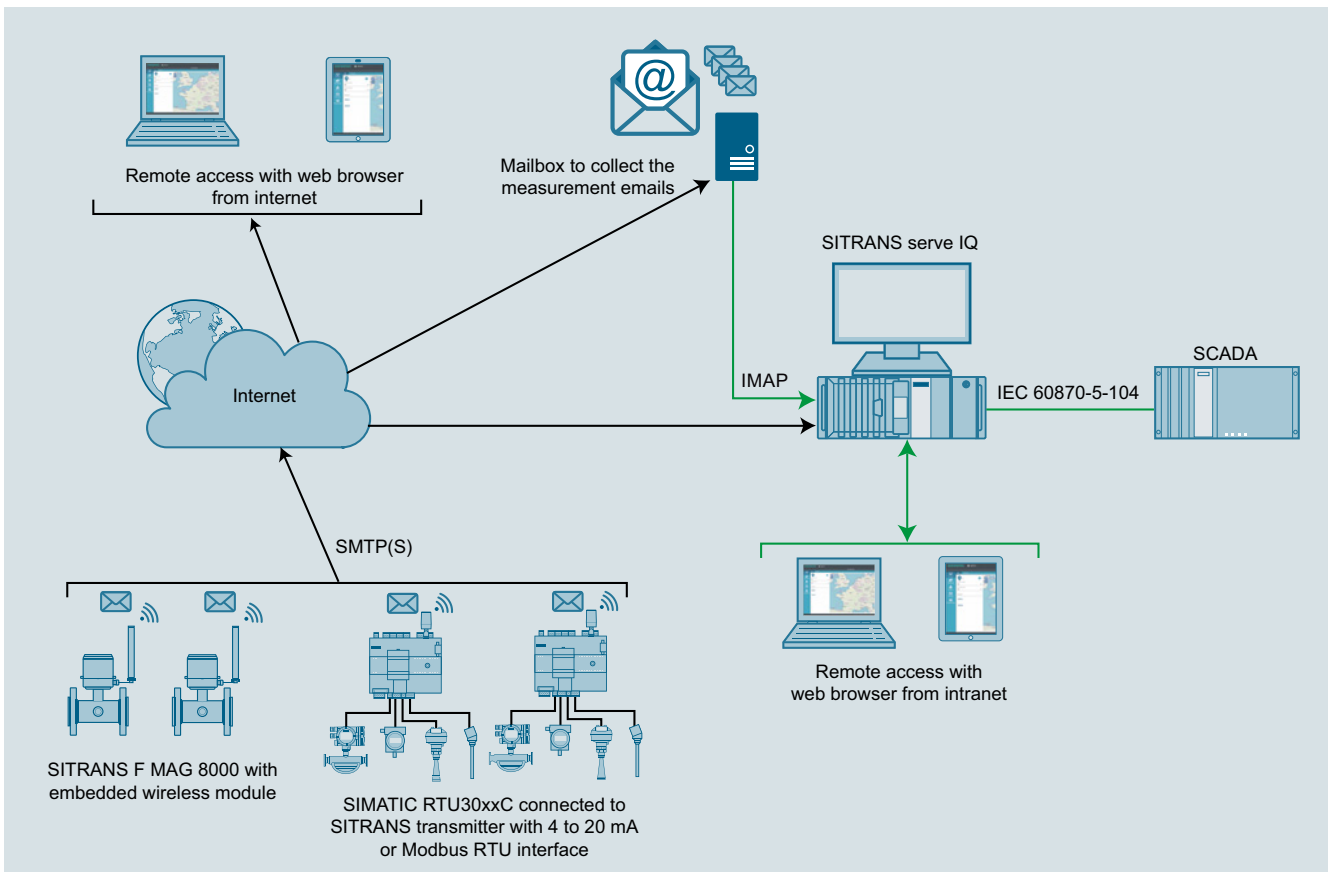
Note: a trial version for 90 days for two (2) devices is available. Following these 90 days, the installed software must be updated to the professional version by means of SITRANS serve IQ perpetual.

# Digitalization and Communication

## Apps for Process Instrumentation

### SITRANS serve IQ

8



SITRANS serve IQ, communication paths: processing, archiving, displaying and transmitting measured values

### Technical Specifications

#### Technical specifications for the on-premise installation

Operating system	Windows 10 Pro, 64-bit
RAM	Minimum: 8 GB, recommended: 16 GB.
Hard disk	At least 250 GB, SSD recommended.
Security	Firewall
Internet access	Routers that allow the forwarding of IP ports and address transformations.
Notes	<ul style="list-style-type: none"> <li>We recommend installing SITRANS serve IQ on a standalone SIMATIC IPC 427E Microbox PC, 6AG4141-7BC38-0GA8</li> <li>To minimize the risk of software conflicts, we recommend installing only Microsoft Office (Windows® 10 Pro 64-bit, Enterprise) and SITRANS serve IQ on the IPC. Installation on any other PC and with other software may have a negative impact on performance and proper functioning of SITRANS serve IQ.</li> </ul>

#### Other technical requirements

- Fixed IP address for the PC hosting SITRANS serve IQ.
- Internet access for the PC hosting SITRANS serve IQ, to read emails, and to access OpenStreetMap.
- A dedicated email mailbox supporting IMAP protocol to which the measurement data will be sent in a specific protocol.

For more details, please visit the product page at [www.siemens.com/SIOS/sitransserveiq](http://www.siemens.com/SIOS/sitransserveiq).

### Selection and Ordering data

#### SITRANS serve IQ, license upgrade, add 1 device

SITRANS serve IQ license upgrade to add 1 additional device.<sup>1)2)</sup>

- License on USB stick
- License via online software download

Article No.

**6BG0000-0AA10-3CA0**  
**6BG0000-0AA10-1CA0**

#### Add 10 devices

SITRANS serve IQ license upgrade to add 10 additional devices.<sup>1)2)</sup>

- License on USB stick
- License via online software download

**6BG0000-0AA10-3CB0**  
**6BG0000-0AA10-1CB0**

#### Add 100 devices

SITRANS serve IQ license upgrade to add 100 additional devices.<sup>1)2)</sup>

- License on USB stick
- License via online software download

**6BG0000-0AA10-3CC0**  
**6BG0000-0AA10-1CC0**

#### Add 500 devices

SITRANS serve IQ license upgrade to add 500 additional devices.<sup>1)2)</sup>

- License on USB stick
- License via online software download

**6BG0000-0AA10-3CD0**  
**6BG0000-0AA10-1CD0**

### Selection and Ordering data

Article No.

#### SITRANS serve IQ perpetual, 10 devices

On-premise application for Windows to acquire measurement data from remote sensors, store, and visualize in trends and tables via web browser. Perpetual license for 10 devices.<sup>1)2)</sup>

- Software and license on USB stick
- Software and license via online software download

**6BG0000-0AA10-2CS0**  
**6BG0000-0AA10-0CS0**

#### SITRANS serve IQ perpetual, 10 devices with IEC 60870-5-104 protocol

On-premise application for Windows to acquire measurement data from remote sensors, store, and visualize in trends and tables via web browser. Perpetual license for 10 devices and IEC 60870-5-104 telemetry protocol for data integration to SCADA.<sup>1)2)</sup>

- Software and license on USB stick
- Software and license via online software download

**6BG0000-0AA10-2CS1**  
**6BG0000-0AA10-0CS1**

#### SITRANS serve IQ 90 day trial, 2 devices

On-premise application for Windows to acquire measurement data from remote sensors, store, and visualize in trends and tables via web browser. 90 day trial license for 2 devices.<sup>1)2)</sup>

- License and software on USB stick
- License and software via online software download

**6BG0000-0AA10-2CR0**  
**6BG0000-0AA10-0CR0**

#### SITRANS serve IQ, license upgrade, add IEC 60870-5-104

SITRANS serve IQ license upgrade to add IEC 60870-5-104 telemetry protocol for data integration to SCADA.<sup>1)</sup>

- License on USB stick
- License via online software download

**6BG0000-0AA10-3CY1**  
**6BG0000-0AA10-1CY1**

- <sup>1)</sup> SITRANS serve IQ product sheet and specific terms and software licensing conditions shall apply.  
<sup>2)</sup> The number of devices refers to, for example, the number of SITRANS FM MAG8000 flowmeters with a wireless communication module or the number of SIMATIC RTU30xxC devices.