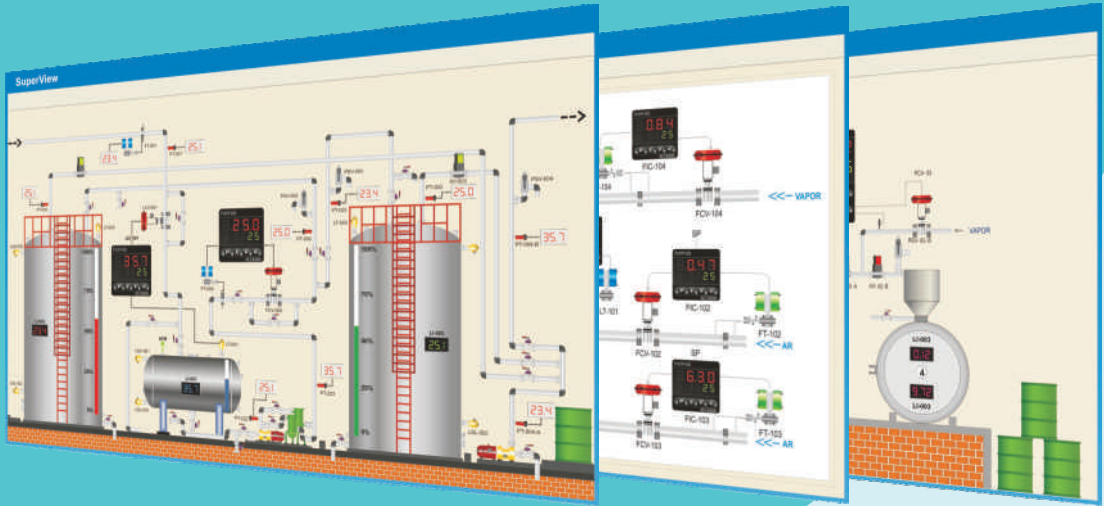


# Complete Automation Solution

SCADA



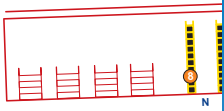
## SuperView

Recording and Data Acquisition

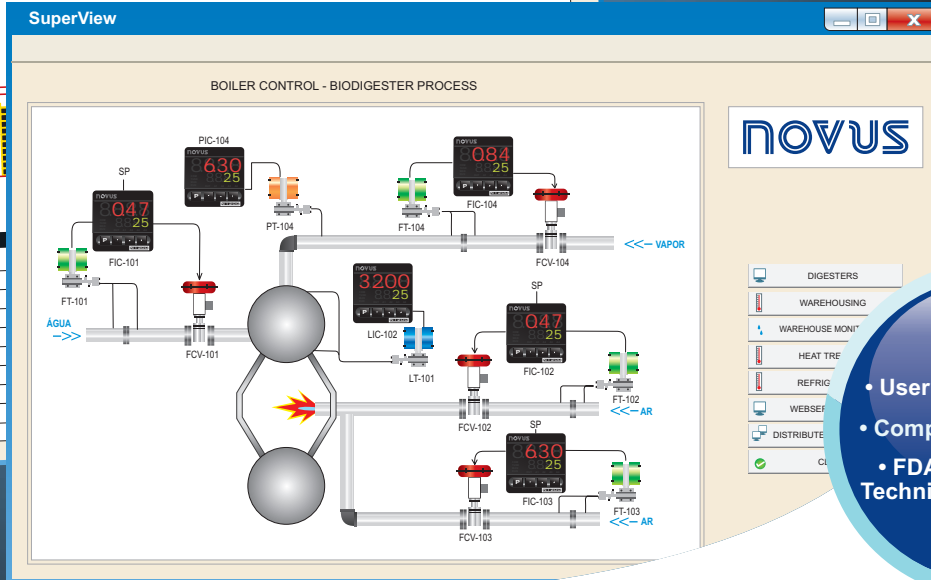
# NOVUS

We Measure, We Control, We Record

novus



SENSOR POSITION				
Serial Number	Sensor	Line	Row	Level
9101266	1	A	3	2
9101255	2	A	9	7
9101270	3	C	1	8
9101280	4	D	9	7
9101284	5	F	9	8
9101204	6	I	4	8
9101243	7	K	6	7
9101272	8	N	4	2



- Flexibility
- User friendly interface
- Competitive advantage
- FDA 21 CFR Part 11 Technical Requirements

Presentation

# SCADA SuperView

Flexible, functional and friendly, **SuperView** is a system designed for the supervision of industrial processes (SCADA - Supervisory Control and Data Acquisition) focused on the supervision of local applications or geographically distributed. Configuration simplicity gives the user the ability to create effective graphical representations of the real environment that is being supervised by the system.

As controller in the supervised process tools allow the user to describe the process logically and read and to write to the equipment. For each Tag (channel) supervised, diverse levels of alarms with configurable notifications are available, in order to make possible to take the correct action for each case.

The electronic registers can be visualized and exported to best known formats (XLS, PDF, RTF, XML, HTML, DBF, TXT, CSV). Authentication of users, task manager, application of formula and Log of events of the actions of the user and occurrences during the supervision complete the functionalities of the system.

**SuperView** satisfies the technical requirements of ANVISA and FDA 21 CFR Part 11 for validation of computerized systems. User accounts with recognition of alarms for electronic signature, electronic register of encrypted data, strong mechanism of authentication with password validity and register of events of the application (Audit Trail) for traceability. The protocols and the execution of validation are optional and are also offered to complement the application.

## Licensing

- Register by Hardkey
- Without limitation of Tags
- Package of remote licenses
- Publisher of application free of charge
- RUNTIME of demonstration free of charge



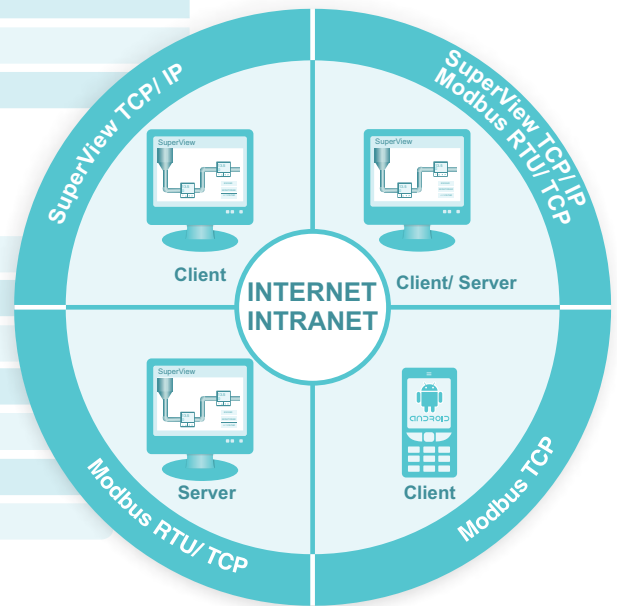
# Resources for Supervision and Control

## Main Characteristics

- Parameterizable screens and objects
- Mathematical formulas and expressions
- Logic of control by tasks
- Control and supervision geographically distributed
- Powerful tool for generation of reports
- Advanced management of recipes
- Alarms and Events of occurrences
- Satisfies requirements for ANVISA and FDA 21 CFR Part 11

## Architecture of Communication

- Protocols Modbus RTU and Modbus TCP
- Multiple connections for protocol
- Connection facilitated with NOVUS equipment
- Customer and Server for corporative nets or Internet
- Connectivity between **SuperView** stations (TCP/IP)
- Connection with Remote Services for register and alarm
- Interface for Smartphones and Tablets with Android TM system

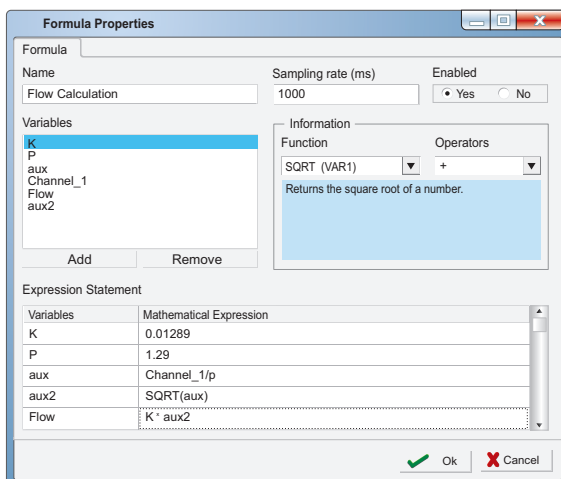


## Register of Data

- Visualization of data for graph or table
- Exportation of historical data for known formats (XLS, PDF, HTML, XML, TXT, etc)
- Importation of data of other applications
- Filter of data for analysis
- Register in real and historical time

## Graphs of Trend

- Visualization of up to 16 trends in real time
- Manual and automatic scales for each graph
- Graph in the Date/Value or Value/Value (XY) formats
- Independent intervals for each graph
- Configurable window of visualization and update
- Configurable template of colors



## Mathematical Formulas and Expressions

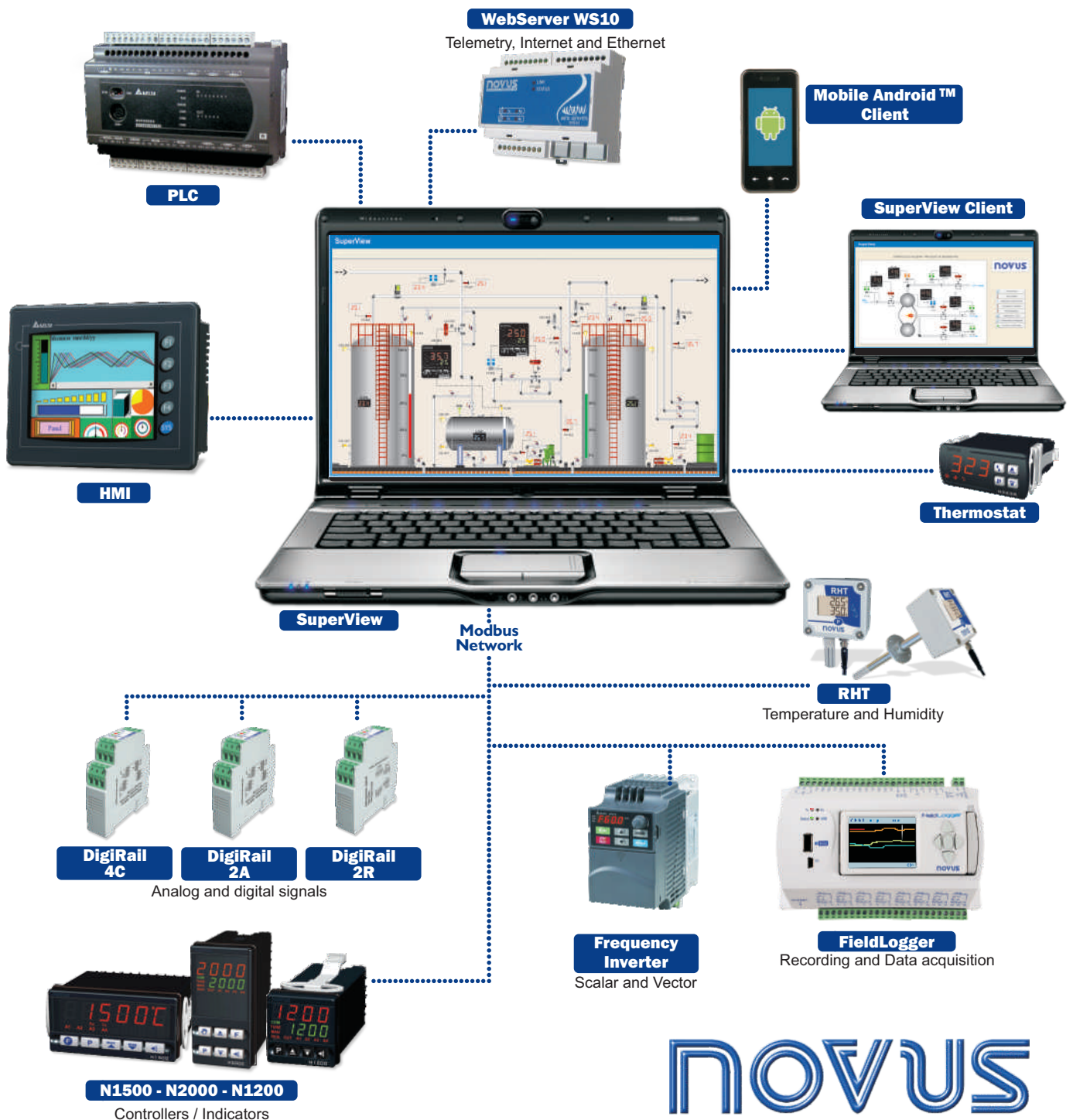
- Logical and conditional operators
- Mathematical library with functions standard
- Result can be sent to the Modbus recorders
- Evaluation of expressions
- Configurable Interval of execution
- Activation and deactivation in RUNTIME via Tag
- Integration with Alarms and Tasks

# Integration with products NOVUS

## Modbus Net / Ethernet Net

**SuperView** was designed to be easily integrated with NOVUS equipment and of other manufacturers for a local or distributed net. The ease of configuration and communication with NOVUS equipment is guaranteed by a base of equipment previously registered and constantly brought up to date.

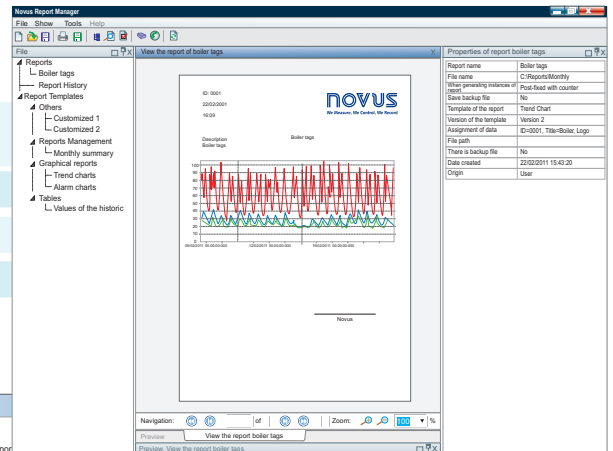
**SuperView** offers users an efficient set of tools to quickly develop a mimic diagram of the real process, to register data and to generate customized reports for supervision and management of the process. Allied to the equipment and package of services, **SuperView** complements the cycle of complete solution for automation offered by NOVUS.



# Resources for Information, Scalability, Security

## Reports

- Wizards for creation and management of simple and complex reports
- Importation and exportation of models for other applications
- Edition of reports in RUNTIME through Wizards
- Source of configurable data and properties



## Security

- Encrypted historical data
- Industrial Protocols
- Configuration of user profile
- Authentication with password validity
- Versioning of application
- Detention of improper alteration of historical archives

## Alarms and Events

- Reduction of risk through notifications
- Prioritization of alarms
- Recognition with Electronic Signature and reason
- Register in the Log of Events
- Sonorous notification, email, visual and writing in Tag
- Visualization of occurrences by filter

## Management of recipes

- External recipe publisher and RUNTIME
- Intuitive interface for configuration
- Execution of one or more recipes with an only click
- Importation and exportation of recipes for other applications
- Identification by code
- Integration with alarms and tasks



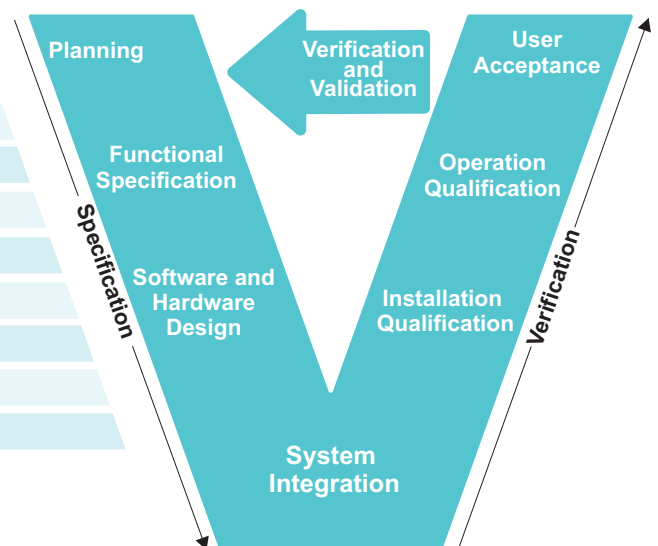
# Validation ANVISA and FDA 21 CFR Part 11

## Complete Solution for Validation

- Specification of the computational infrastructure
- Evaluation of the validatable area
- Analysis and classification of the risks of the process
- List of acquirers and indicators
- Sensors calibrated with traceable certification
- SuperView application for 21 CFR Part 11
- Documentation, interface and training
- Execution of the Protocols of Validation
- Acceleration of implementation
- Specialized technical support

## Technical Requirements of the SuperView Application

- Controlled access to the application
- Automatic Logoff of the user
- Versioning of application with electronic signature
- Encryption of the electronic registers of data
- Presentation of data in legible format
- Backup of the electronic registers in net
- Detection of alteration of the electronic registers
- Registers of occurrences (Audit Trail)
- Configuration and control of alarms with notification
- Reports signed electronically



### Check some other NOVUS products

- Process Controllers
- Electronic Thermostats
- Pressure Transmitters
- Conditioners & Isolators
- Temperature Transmitters
- Humidity Transmitters
- Data Loggers
- DAQ - Data Acquisition
- Softwares & RTUs
- Recording & Supervision
- Timers & Counters
- Calibrators & Handhelds

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[www.superview.com.br](http://www.superview.com.br)

**NOVUS**

We Measure, We Control, We Record