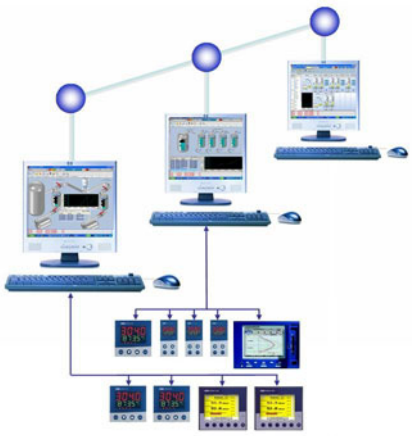
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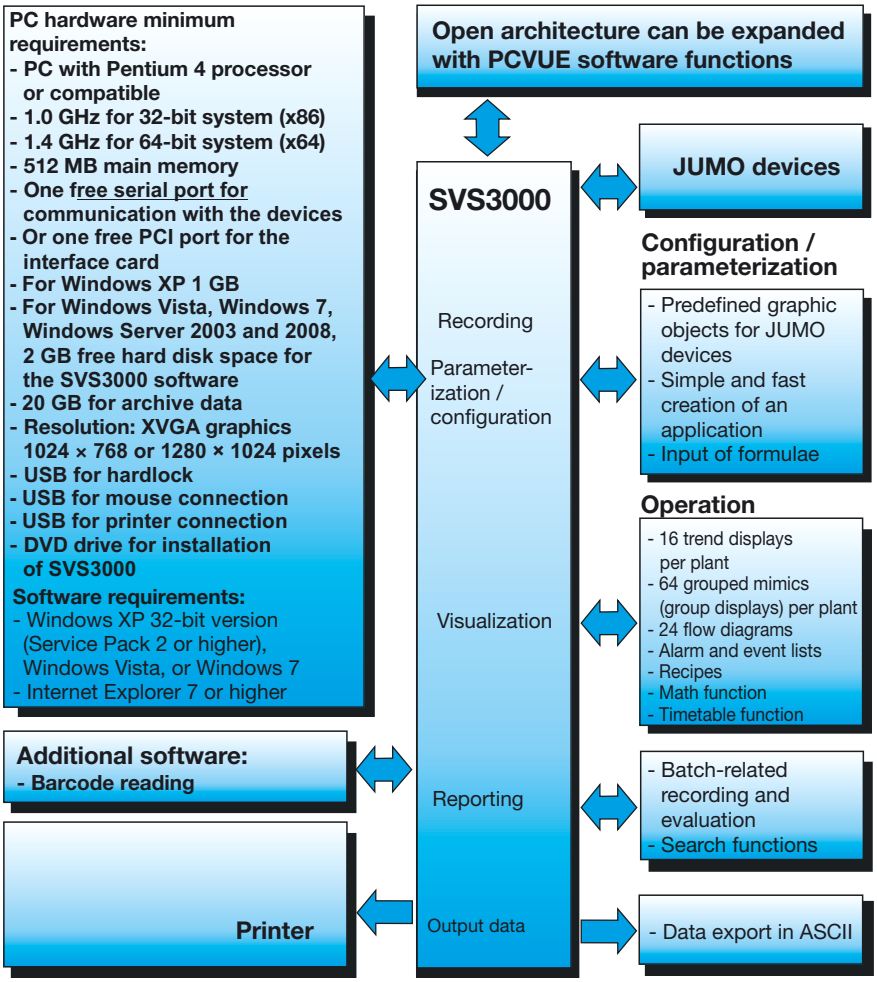
JUMO SVS3000
Plant visualization software with batch-related data reporting and evaluation in a network



Brief description

JUMO SVS3000 is a visualization software program that can run on Windows. Predefined graphic elements are provided in a library, specifically for the connection of JUMO devices. This reduces the creation of applications down to a simple plant configuration and shortens software project planning considerably. Data can be visualized as a real-time or historic trend.
Extensive reporting functions with batch-related report evaluation can archive the data for an adjustable period of time.
An existing PC network can be used to transfer SVS3000 plant data between several PCs. Each PC can record up to 50 plants, independently of one another. In a PC network, a single PC can view reports for up to 100 plants. One report, recipes, grouped mimics (group displays), 8 timetables, and 16 trend displays are available for each plant.

Block diagram of a station



Special features

Network functionality

- Visualization and reporting can be freely defined for each station

Easy creation of applications

- Quick and simple creation of the application by using predefined graphic objects for JUMO devices

Data recording

- Batch-related and continuous reporting and data recording for the processes
- Batch reporting
  with a search function for date and time, plant, and 3 freely definable batch criteria, such as program name, batch number, etc.
- Adjustable automatic printout and data export to ASCII files

Display

- Arrange predefined graphic objects and trend displays in grouped mimics (group displays) as required
- Plant-specific alarm and event lists

Real-time operation

- Grouped mimics (group displays), trend displays, and alarm or event lists
- With specifically set-up variables, editable (e.g. setpoint values)
- The sampling rate per interface and per connected device is between 0.7 and 2 seconds

Other functions

- Password-protected access rights
- Recipe function
- Expandable software functions through open architecture under PCVUE 32
- 3 languages: German, English, and French, on request
- A maximum of 50 plants can be managed and 100 displayed on each PC

Variable pricing, with the following upgrade levels

- Economical entry, with 75 I/O variables
- 250 I/O variables
- 1000 I/O variables
- 5000 I/O variables

Training/seminars

Training courses and seminars for the JUMO SVS3000 are held regularly in our training center.
For information on available courses and dates, please contact our training manager:
Manfred Schleicher
Phone +49 (6 61) 60 03-3 96

Scope of delivery

1 CD SVS3000
1 hardlock dongle either for USB or parallel interface
1 quick reference guide

Additional software

Remote-control software TeamViewer

This software includes the option to operate all plant functions remotely, from any location, via modem or through the network.

Drivers for linking JUMO devices

Type	Description	Bus protocol	Further info, see data sheet
dTRANS pH 01	Transmitter/controller for pH value	Modbus	202530
dTRANS Rd 01	Transmitter/controller for redox potential		202535
dTRANS Lf 01	Transmitter/controller for conductivity		202540
dTRANS Rw 01	Transmitter/controller for high-purity water		202545
dTRANS Az 01	Indicator/controller for electrochemical values		202550
IMAGO F3000	Process control for the meat processing industry	Modbus	700101
dTRON 304, 308, 316	Compact controller with program function	Modbus	703041
DICON 400/500	Universal process controller	Modbus	703570
IMAGO 500	Multichannel program controller	Modbus	703590
LOLGOLINE 500	Pen recorder with text printing	Modbus	706000
LOGOSCREEN 500 cf	3/6 channel paperless recorder	Modbus	706510
LOGOPRINT 500	Printing recorder	Modbus	706030
LOGOSCREEN cf	6/12 channel paperless recorder	Modbus	706570
LOGOSCREEN nt	3-18 channel paperless recorder	Modbus Modbus TCP/IP	706581
Wtrans receiver	Wireless data transmission	Modbus	902931
cTRON	Compact controller with timer and ramp function	Modbus	702070
eTRON M100	Electronic cooling controller or electronic 2-channel microstat	Modbus	701061
di308	Digital indicator	Modbus	701550
mTRON T modules	Modules from the automation system JUMO mTRON T	Modbus Modbus TCP/IP	705001 to 705060

These devices are no longer part of the delivery program but can be linked with SVS3000:

LPF-100/200	3-channel program controller	Modbus via communication module	
LKR-96	Controller for boilers		
PRF and PR-100	Process control system for meat processing	Modbus	
dTRON 16.1	Process controller	Modbus	
dTRON 04.1 dTRON 08.1	Process controller	Modbus	
DICON 401/501	Program controller/generator	Modbus	703580
DICON 1000, 1001	Process controller, program controller	Modbus	
DICON SM	Compact controller		
LOGOSCREEN	Paperless recorder	Modbus	
LOGOSCREEN 500	Paperless recorder	Modbus	
mTRON modules	Modules from the automation system JUMO mTRON	Modbus via communication module	704010 to 704090

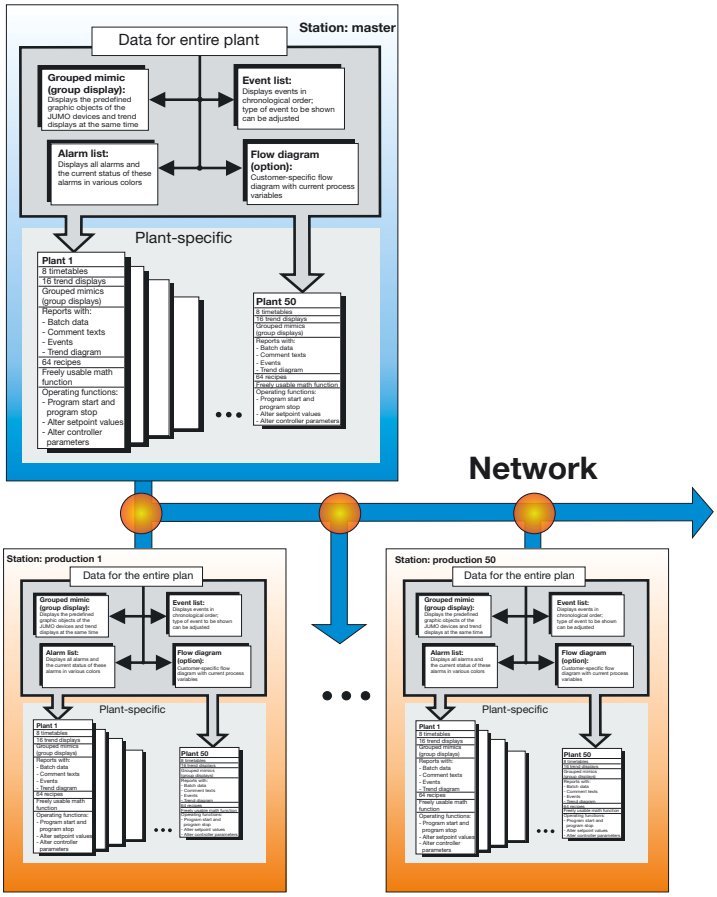
Barcode readers

Barcode readers are connected via RS232 or USB, like JUMO devices, or are looped directly into the keyboard connection to the PC. WinWedge software uses DDE for data exchange to the SVS3000.

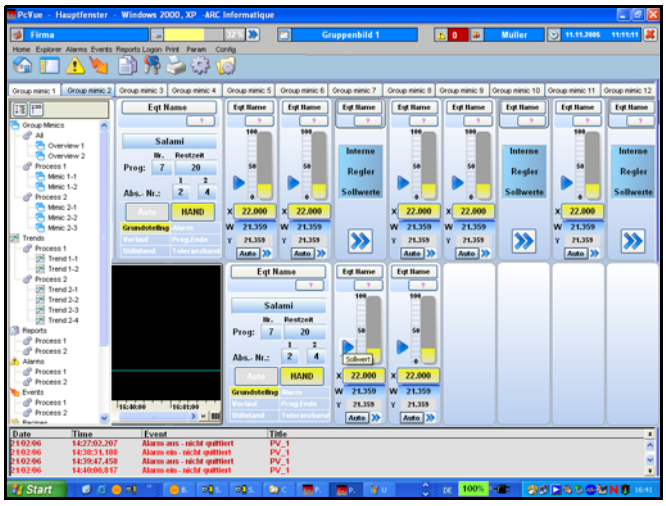
Function principle of SVS3000

SVS3000 provides supervisory and plant-specific visualization facilities.
The higher-level (supervisory), non plant-specific group displays and flow diagrams (optional), as well as global alarm and event lists, provide an overall view of all connected devices. The detailed data for the individual plants is assigned in the plant-specific section.
This pre-selection means that only the plant-specific data for reports, trend displays, plant-specific grouped mimics (group displays), and recipes are available in a plant.
In this way, an individual plant overview and simple operation can be implemented to suit the application.

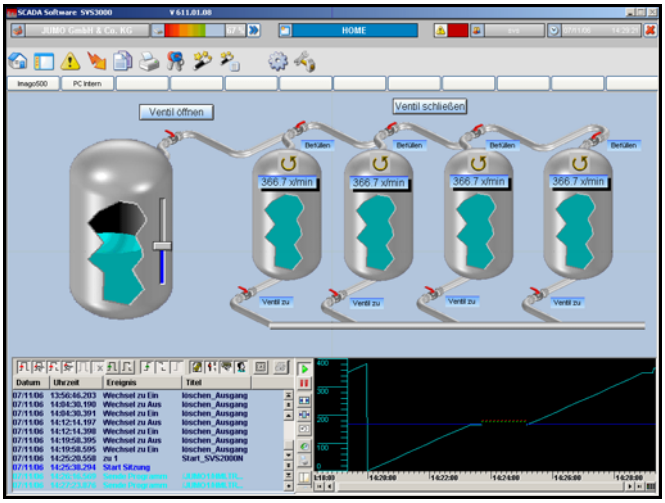
Structure of the network stations



Example: grouped mimic



Example: flow diagram



Visualization

64 grouped mimics

- At a resolution of 1024 × 768, up to 24 visualization objects can be combined to form a grouped mimic (group display)
- At a resolution of 1280 × 1024, up to 45 visualization objects can be combined to form a grouped mimic (group display)
- Windows for operating the connected devices, such as:
  -Program start and stop
  -Alteration of the setpoint value
  -Alteration of controller parameters
  -Controller changeover between manual and
  automatic modes
- Trend display of current process data

24 flow diagrams

- Animation of the flow diagrams by JUMO, customer-specific

Event list

- Chronological listing of all events
- Plant-specific selection

Alarm list

- Display of all alarms
- Overall list or plant-specific selection

Recipes

- Create and transmit

Math processing

64 different formulae can be calculated
- Free entry of formulae

Timetable function

- Calendar function for one year

Reporting

A reporting function is available for up to 50 plants per PC. The reports for up to 100 plants can be called up over the network.

Report types

- Batch processes
- Continuous processes (shift, daily, weekly, or monthly reports)

Report data

- Analog and binary signals (trend diagram)
- Events
- Batch criteria, such as program name, batch number, etc.
- Customer-specific text and definition of a standard form sheet
- Up to eight different products can be recorded in one report
- Starting and stopping report recording by time; input in the screen template, or via device variables

Report evaluation

Search function

- Date and time
- Plant
- Three editable batch criteria such as program name, batch number, etc.

Data export

- Export of data in ASCII format for further processing in spreadsheet programs, for example
- Selection options for the data to be exported
- Automatic or manual data export

Data printout

- Report data in the form of a trend display or list
- Event list
- Freely editable text comments
- Batch data
- Calculation of minimum, maximum, and average values
- Automatic or manual data printout

Accessories

- Interface card with 2, 4, or 8 × RS232 or RS422 interfaces
- RS232 to RS422/485 interface converter
- Program editor as PC software for the program controller concerned

Setup programs

The setup programs or program editors can be accessed from SVS3000.