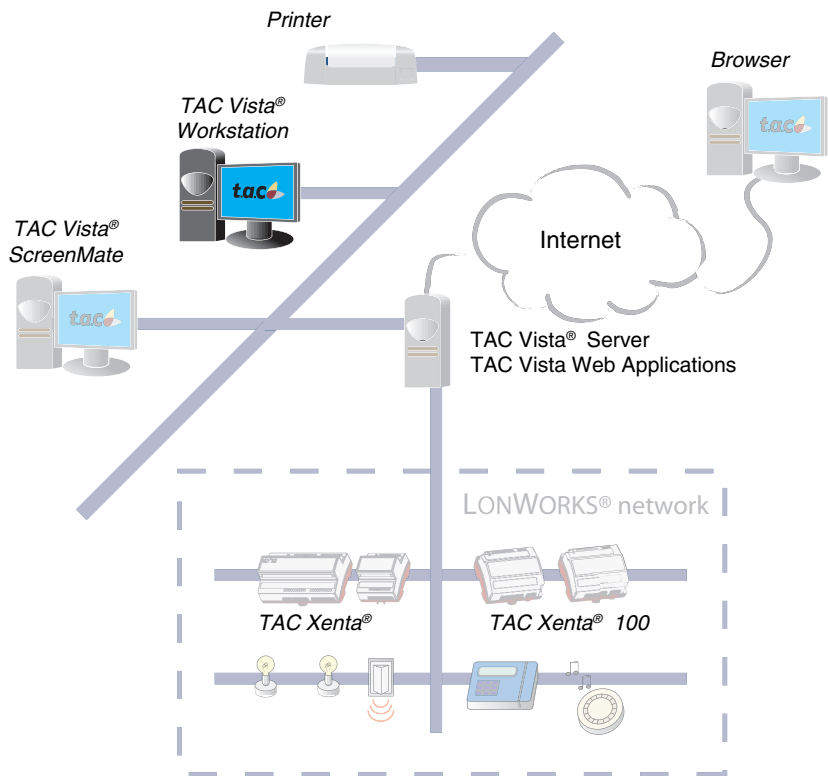


TAC Vista is an advanced Building IT™ system. TAC Vista monitors, controls and supervises systems for lighting, heating, ventilation, climate control and access/security in all types of premises and buildings.

The TAC Vista system runs as a stand-alone system or as a multi-computer system combining local and/or remote networks. The system can be used for both onsite operation/supervision or remote operation/supervision.

A TAC Vista system includes the following software:

- TAC Vista Server — for computers communicating with devices at the site and with other servers in the TAC Vista network.
- TAC Vista Workstation — for workstation computers used by operators or engineers for programming, configuration and day-to-day operation.
- TAC Vista Webstation — for day-to-day operation and displaying reports, diagrams and trend charts etc.
- TAC Vista ScreenMate — for room/zone control.



### TAC VISTA® WORKSTATION - GENERAL

TAC Vista Workstation is an application program running on a PC unit in a TAC Vista Network, or on any computer on the local area network.

It can run on the same computer as a TAC Vista Server, but it can also run on a remote computer connected in various ways to the Vista network.

The Workstation is used to monitor and control different aspects of a Building IT system.

The Workstation allows the operator to navigate the whole installation in ways suitable for the application. The interface is fully configurable: menus, buttons, windows and functions can be customized by the operator. A full screen mode is available.

Different graphics and charts present clear and comprehensive images of key parameters of the installation.

Links make convenient shortcuts to views where other aspects of the data are presented, and back/forward buttons help the operator to quickly move between recently visited windows.

A search engine can be used to find all kinds of objects and to limit the search, for example, to objects with values higher than a specified limit.

Alarm View windows can be configured to display only certain objects, filtered using specific criteria. For example: one alarm view could present only temperature alarms from the conference rooms of the supervised buildings.

TAC Vista Workstation is installed like any other program in Windows.

The operator logs on to a Vista Server, provided he has been granted access to that server.

The operator can open several windows to connect to different servers at the same time.

#### Features

- View Graphics
- View Alarms
- View Events
- View Online Charts
- View Trend Charts
- Create, view and edit Objects
- Search Database

## TAC VISTA® WORKSTATION - FUNCTIONS AND PACKAGES

TAC Vista Workstation is delivered in two different software installation packages:

- TAC Vista Server with Workstation Professional (Ws Pro)
- TAC Vista Workstation Remote (Ws R)

In the installation packages there are a number of licenses, making different functions available. Please refer to the table below.

Installation Packages			Licenses						
Ws Pro	Ws R	Function	Ws Std	Ws Mgr	Ws Pro	Vista LE	Vista Operator*	Vista Programmer*	Vista Enterprise*
x	x	Workstation	x	x	x	x	x	x	x
x	-	TAC Vista Server	-	-	-	-	x	x	x
x	-	TAC Vista Server LE	-	-	-	x	-	-	-
x	x	Report Generator	-	x	x	-	-	x	x
x	-	Signature	-	x	x	-	-	-	-
x	-	Menta	-	-	x	-	-	x	x
x	-	Graphics Editor	-	-	x	-	-	x	x
x	-	OPCTool	-	-	x	-	-	-	-
x	-	IPCL Editor	-	-	x	-	-	-	-
x	-	Central IPCL Editor	-	-	x	-	-	-	-
x	-	Database Generator	-	-	x	-	-	-	-
x	-	XBuilder	-	-	x	-	-	-	x
x	-	OPC Client	-	-	-	-	-	-	-
x	-	System 7	-	-	-	-	-	-	-
-	-	Webstation Server	-	-	-	-	-	-	x
-	-	Webstation 3 CAL	-	-	-	-	-	-	x

\* Not released in all countries.

## TECHNICAL DATA - TAC VISTA WORKSTATION

### Part numbers

TAC Vista Workstation Standard ..... 0-008-7965  
 TAC Vista Workstation Manager ..... 0-008-7966  
 TAC Vista Workstation Professional ..... 0-008-7967

### Environmental requirements for all devices

Ambient temperature ..... 16 to 32 °C (60.8 to 89.6 °F)  
 Relative humidity ..... 8 to 80 %, non-condensing

### Operating System

Microsoft® Windows 2000 Professional (Service Pack 4)  
 Microsoft® Windows 2000 Server (Service Pack 4)  
 Microsoft® Windows XP Professional (Service Pack 2)  
 Microsoft® Windows Server 2003

### Hardware requirements

PC ..... Intel® Pentium III  
 Clock frequency ..... 500 MHz or higher  
 Recommended PC ..... Intel® Pentium IV 2 GHz  
 Primary memory ..... > 128 Mbyte  
 Recommended primary memory ..... 512 Mbyte  
 Required hard disk space after installation ..... > 300 Mbyte

### General requirements

Graphics ..... Super VGA, 1024x768  
 Monitor size ..... 17" or larger  
 Printers ..... Any printer supported by Microsoft® Windows  
 CD ROM ..... Yes  
 Mouse ..... Mouse supported by Microsoft® Windows  
 External programs ..... Microsoft® Excel 2003 / XP

### ALARM OVERVIEW

Alarms are displayed in one or more Alarm View windows. Different windows can filter the alarms in different ways, depending on type, priority, value, etc.

The standard alarm overview is separated into the following fields:

- Unacknowledged
- Acknowledged
- Reset, unacknowledged

The different fields are displayed in different colors. The operator can choose the text and background colors.

The default colors are:

- Unacknowledged alarm appears (black text on a red background)
- Acknowledged alarm appears (black text on a green background)
- Reset but unacknowledged alarm appears (black text on a yellow background).

Alarms are sorted into the correct fields, then sorted within each field by priority or time, depending on which one the operator has chosen.

The user can program the alarm message with information such as time, priority and alarm text.

When TAC Vista is started, an alarm icon is displayed on the far right of the taskbar in Microsoft® Windows.

It is possible to configure the alarm handling so that an operator acknowledging an alarm is required to select the cause of the alarm, the action taken and to add a comment about the event. This information is logged in the event log and displayed in the Event Viewer.

### ALARM TEXTS AND ATTRIBUTES

The operator can define a unique alarm text for each alarm. This text can explain the situation in plain language, as well as the cause of the alarm and the recommended action.

It is also possible to define an alarm text for a reset alarm.

Attributes such as color changes and buzzer signals can be defined for the alarms.

Acoustic and optical sum alarms may be specified according to their priorities. Acoustic sum alarms are tripped each time an alarm is tripped within defined priorities. Optical sum alarms are active as long as there is an unacknowledged alarm within the given priorities.

### DISPLAY

The alarm printout can be controlled by time or priority, as well as by the acknowledgment or resetting of an event.

When alarms are displayed, the following types of linked information can also be displayed:

- Graphics (the linked graphics are displayed and the alarm message is printed).
- Reports and diagrams (the operational report is updated with current values and will report the status of the installation, e.g. the current measured values/operating modes for different air handling units).
- Trend charts (display the chosen trend logs connected to the alarm).
- Notepad files (with information such as a description of the actions that should be taken when an alarm is tripped and detailed instructions for resetting the alarm).

### DISABLING ALARMS

The alarm control also contains a function to disable alarms. This function is useful when the installation is being repaired, for example, when maintenance is expected to trip one or more alarms.

Disabled alarms are presented in a separate alarm overview.

### PRINTING ALARMS

The operator can print a complete list of alarms to any printer supported by Microsoft® Windows.

### OTHER ALARM FUNCTIONS

The operator can enter a time delay in order to prevent false alarms caused by temporarily high loads or maximum values.

It is possible to control the alarms displayed so that the users/groups may only view the alarms that apply to their tasks/fields of responsibility.

The operator acknowledges an alarm using the mouse or a function key. Once the alarm has been acknowledged, the alarm row will change color in the alarm overview.

Alarms are collected in an alarm queue where they are sorted in accordance with whether they are acknowledged, unacknowledged or reset, or in accordance with their assigned priority or time.

## WORKSTATION – GRAPHICS

### GRAPHICS

TAC Vista offers an object-oriented, graphical operator interface, for handling the day-to-day operation of the installation.

The graphics illustrate the installation and provide a simple explanation of it.

The graphics are created using the Graphics Editor for TAC Vista.

### GRAPHICS DISPLAYING A SITE

The graphics of a site have a hierarchical structure created by linking one graphic to another using link areas.

Within the hierarchy, the operator can move from a color graphic overview to plan drawings of buildings and floors, rooms, air handling units or other equipment.

### PRESENTATION

The operator monitors, controls and supervises the facility by viewing the graphics.

The operator can switch to graphics, change time settings, and change values and states. (TAC Vista is able to display three-dimensional rectangles and symbols).

It is possible to link a graphic to an alarm; when the alarm is tripped, the operator can choose to display the linked graphic.

Alarm states may be displayed in a graphic.

The zooming and scrolling of graphics is supported.

### DYNAMICS

Dynamic objects can be displayed using changes in color or form, flashing, showing current values, texts that are shown during changes and switch between two different symbols or texts.

Symbols can also be used to create an animation. In addition, it is also possible to play sounds or speech (\*.wav files), during dynamic changes to objects in the graphic.

## TECHNICAL DATA - GRAPHICS

Number of colors	Number of graphics .....	Depends on hard disk size
In a graphic .....	16	Number of dynamic objects .....
Color palette .....	min. 48	..... Depends on the PC's capacity
Font .....	Windows® and True Type®	
Graphical formats		
Storage .....	*.OGC, *.SGR	
Export .....	*.BMP, *.WMF, *.OGX or *.PCX	
Import .....	*.BMP, *.GIF, *.JPEG, *.PCX or *.TIF	

## WORKSTATION – CHARTS

The Trend View window can display on-line charts or trend charts.

On-line charts display on-line values/data from points in a site. Trend charts display trend logs in a chart.

Using an on-line chart, the operator can quickly monitor points and drag-and-drop points from the graphic into the on-line chart.

The collected data is presented as dynamic curves. The curves of the different values may be displayed in different colors.

## WORKSTATION – EVENTS

The Event View window displays the event log.

For each event, a number of columns display information such as type of event (alarm, object change, command), date and time, object ID and type, User ID or name, type of alarm, type of command, etc.

It is possible to filter the number of events to be displayed by specifying criteria for date/time intervals, types of events, object names (using wildcards), categories, priorities, etc.

It is also possible to select which columns to display and to rearrange the order of the columns in the event list.

In addition, the list can be sorted (into ascending or descending order) by clicking on a column.

The Event View window can make printouts of the event list on any printer supported by Microsoft® Windows. The Event View window also has a print preview feature.

Users can open multiple Event Views and filter them individually.

## WORKSTATION – OTHER FUNCTIONS

### LOGGING OUT

The operator can log out manually by selecting Log out from a menu. It is also possible to set an automatic logout (the operator is logged out after a designated period of time).

In standby mode, the computer is updated dynamically (new values, alarms etc. are displayed), but the computer will not accept any input.

Before logging out via the “log out” or “standby” commands, the operator can save the settings in the user profile.

### SYSTEM DOCUMENTATION

Using a separate program installed with the Pro package, TAC Vista® creates system documentation for the testing and final documentation of an installation.

The lists are displayed on the monitor. They can be printed and stored as files.

The following types of lists can be created:

- Systems configuration (a schematic list describing the physical connections of the installation).
- Process units (a list describing the process units and their adherent objects with variables).

- Object list (a list of logical, physical or table objects with their adherent attributes). It is possible to select one or more objects, the desired object type and the attributes of the objects.
- Inputs/Outputs (a list of the physical inputs and outputs of the units in the installation).
- Testing (a list intended for testing the inputs and outputs of the units in the installation).
- Forced variables (displaying the forced variables of the units in the installation).

## WORKSTATION – MODULES

Specific information about the modules is available in these data sheets:

### Part numbers

Report Generator .....	0-003-2266	IPCL Editor .....	0-003-2269
TAC Signature .....	0-003-2267	Central IPCL Editor .....	0-003-2270
TAC Menta .....	0-003-2201	Database Generator .....	0-003-2271
Graphics Editor .....	0-003-2268	TAC XBuilder .....	0-003-2308
OPCTool .....	0-003-2022		
TAC WebTool .....	0-003-2272		

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