

VISONIK®
User's Guide
New VISOTOOL Editor

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Chapter 1 About this document

Topics in this chapter

This chapter contains the following topics:

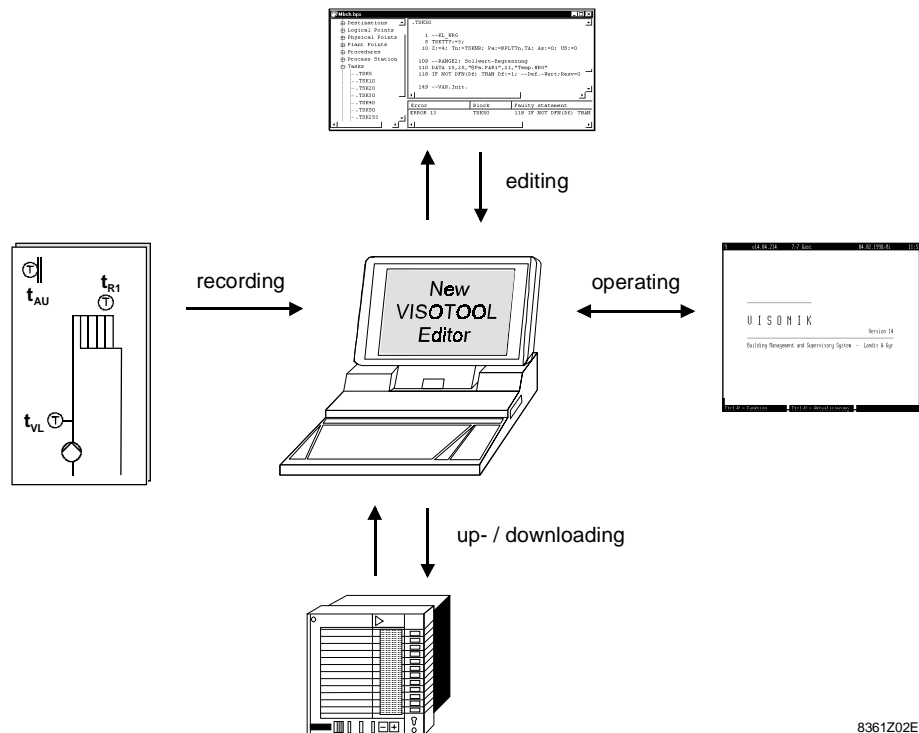
- What is this document about?
- Who is the target audience?
- What is the purpose of this document?

What is this document about?

Contents of this document

This document describes the "**New VISOTOOL Editor**".

The "New VISOTOOL Editor" is a PC software tool comprising extensive communication functions for VISONIK units:



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The above illustrated functions allow for:

- operation of process stations and Data and Communication Servers
- up- and downloading of data from and to the process stations
- recording trend data from the building automation plants
- comfortable editing of COLBAS documents.

Focus

This document is a **User's Guide** with the following focus:

- Overview and presentation of the "New VISOTOOL Editor" features
- Installation on a PC and initial connection
- Operation of the Terminal Emulator
- Working with the COLBAS Editor
- Performing uploads and downloads
- Generating and editing of recordings (trends)
- Detailed reference guide

Who is the target audience?

Target audience This document targets the following audiences:

- Landis & Staefa VISONIK experts, i.e., project engineers and service technicians
- Building management system operators with VISONIK system access privileges for operating levels 2 and 3

Requirements The above mentioned target audiences fulfill the following requirements:

- They are familiar with COLBAS and the VISONIK system functions, or the respective documents
- They are familiar with basic operations under Windows 95.

What is the purpose of this document?

Document purpose The document helps the above audiences to:

- introduce the "New VISOTOOL Editor" for audiences familiar with VISOTOOL 4.0 Editor
- provide instructions on using the "New VISOTOOL Editor" for new users

Objective of this document This document helps the audience:

- install and operate the "New VISOTOOL Editor"
- properly use the Editor's special features.

Chapter 2 Brief description of the main features

Overview

Introduction

This chapter briefly describes the "New VISOTOOL Editor". Its focus is on the following topics:

- Overview of communications options
- Introduction of the new user interface

After you have read these topics and after installing the software and establishing a connection, you will already be able to try out the "New VISOTOOL Editor" by following the instructions under chapter 3.

Topics in this chapter

This chapter discusses the following topics:

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Communication features	10
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Features of the "New VISOTOOL Editor"

A well-known and established tool

The "New VISOTOOL Editor" is a new implementation of the "VISOTOOL 4.0 Editor" on Windows 95/NT4. It primarily offers the well established functions of the earlier Editor, but has been advanced by a few special features.

General features

The following are general features of the "New VISOTOOL Editor":

- Windows 32 bit application (Windows 95, NT 4)
- Fully integrated in Windows, comprising among other features:
 - toolbar with buttons for the most commonly used commands
 - status bar with quick information on operation as well as the current connection
 - support of document types (e.g. *.col and *.bps) and their activation by double-clicking them
 - option to open several COLBAS document types (exception: trend profile 1 document)
 - drag & drop to open documents
- Save / restore of windows and settings, including the most recent connection (exception: telephone connections)
- Use of standard software and commercial components such as the Terminal Emulator (VT 320 emulation)



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Special features

The following are special features of the "New VISOTOOL Editor":

- various communication options
- Terminal Emulator with back scroll buffer
- COLBAS Editor / COLBAS document and its many useful functions for your daily work
- multiple-level, hierarchical help with VISONIK-specific terms: point types, parameters, error messages
- user-friendly trend function

Communication variants

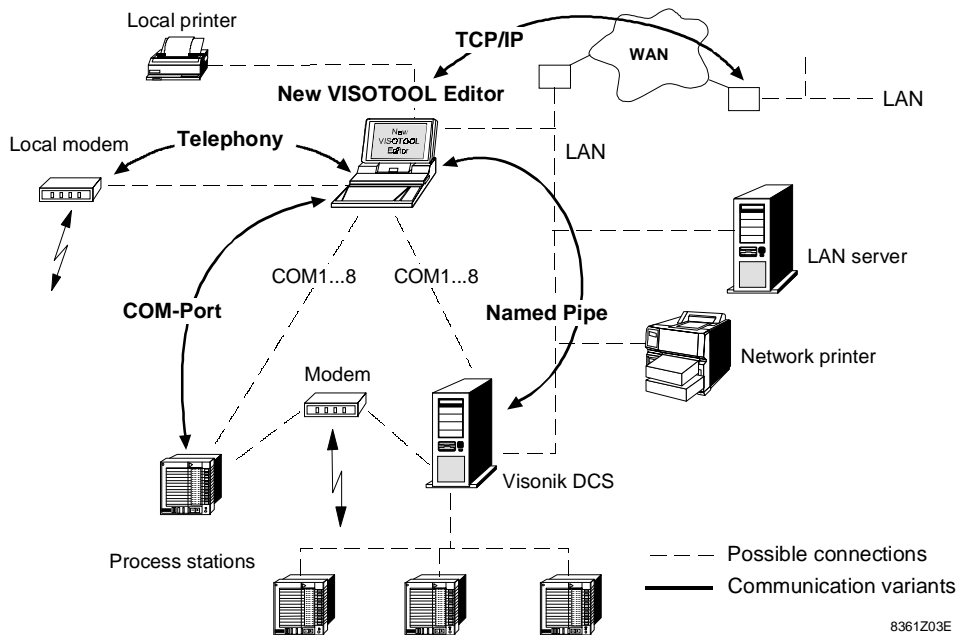
Four communication variants

The "New VISOTOOL Editor" provides the following four communication variants:

- direct, serial port (COM port)
- Named Pipe via local area network (LAN)
- TCP/IP via networks (LAN / WAN)
- dial-up communication via local modem

Overview of the communication options

The illustration below shows the various communication options that are available via the four variants:



Explanations (illustration)

The illustrated communication options are:

Variant	Options
COM Port	Direct connection via a serial port COM1.... COM8 of the PC to <ul style="list-style-type: none"> – a process station – a VISONIK DCS Continued from the VISONIK DCS via "DUS" to the process stations on the Building Level Network (SDLC ring).
Named Pipe	Connection via a network card in the PC to a local network (LAN). Connection to a VISONIK DCS with the installed Named Pipe. Continued from the VISONIK DCS via "DUS" to the process stations on the Building Level Network (SDLC ring).
TCP/IP	Connection via a PC network card to a local network which is part of a WAN (e.g. Intranet). As a result, connections via TCP/IP to any participant on the network are possible.
Dial-up communication	Connection via the public telephone network using the local modem on one of the serial ports COM1... COM8, or internally to: <ul style="list-style-type: none"> – a process station – a VISONIK DCS

Note on network variants

Each of the network communication variants requires that a PC not only have the corresponding card, but also be installed on the respective network! If this applies, the PC may also access other resources such as network printers.

Communication features

Use of Windows components

The "New VISOTOOL Editor" principally applies communication components installed under Windows. This applies to the following:

- serial ports COM1.... COM8
- the local modem
- the network connections

When the required components are not installed:

- Consult the operating system manual and install the required components.
- Call your local PC support.

Supported VISONIK units

The "New VISOTOOL Editor's" **terminal operation** allows for operating **all** VISONIK units, including the operating program.

Refer to chapter "Reference" for a detailed listing of **all** VISONIK units and their respective functionality.

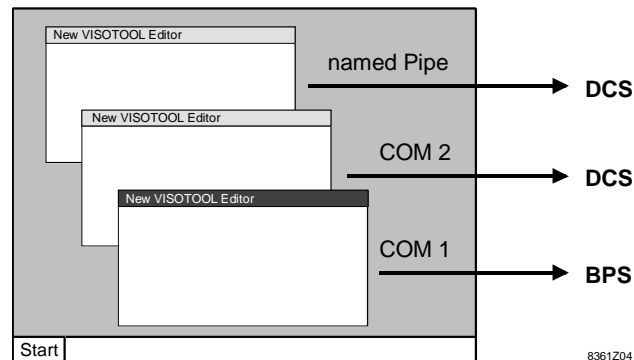
One active communication variant

Only one of the four communications variants can be active at any given time and per application window ("New VISOTOOL Editor"):

- local COM port
- **or** dial-up communication
- **or** Named Pipe
- **or** TCP/IP

Multiple, active application windows

On the Windows desktop, several "New VISOTOOL Editor" application windows with differing communication variants can be simultaneously be active as shown in the illustration below:



Response on several open application windows

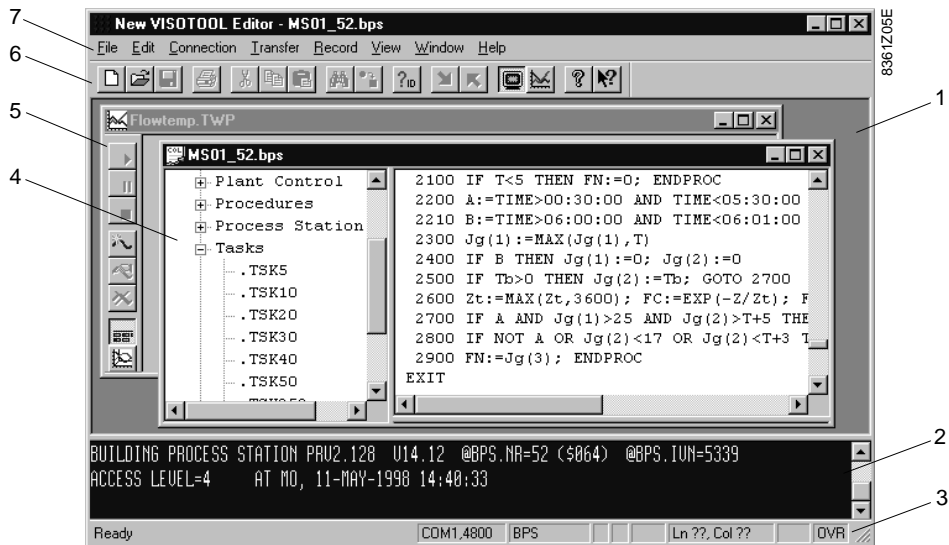
If several "New VISOTOOL Editor" application windows are active, the following applies:

- When you work in the active window, all communication variants remain active in the background. For example, downloading can be started in one window and then be continued in the background
- The "New VISOTOOL Editor" last closed determines the communication path which will be activated automatically upon restarting. Exception: dial-up communication is not automatically re-established.

The application window

Picture of the application window

The picture below shows the "New VISOTOOL Editor" application featuring a typical setting:



Individual sections in the application window

The above shown parts of the application window are:

Pos.	Designation	Interpretation
1	Working area	The blank field between the toolbar and the split bar above the Terminal Emulator. The working area contains all documents opened in one session for COLBAS Editor editing.
2	Terminal Emulator	The Terminal Emulator is always visible. It stands for a connection to the respective partner. The status bar indicates if this connection is active.
3	Status bar	The status bar contains information on operation (left) as well as connection status (right).
4	COLBAS document	The above illustration contains two open documents in the working area. Of the two documents, the COLBAS document is active.
5	Trend window	Document for recordings (own buttons)
6	Toolbar	The toolbar buttons enable you to perform commonly used functions by clicking them with the mouse.
7	Menu bar	The menu bar contains the available menus for the respectively active window.

Important features

The most important features in the application window are:

- Familiar WIN95 operation via menus — by using the mouse or the keyboard.
- The working area and the Terminal Emulator are both displayed on one screen. You can determine the size of either window as desired by dragging the split bar: from a minimal display of the Terminal Emulator to its maximum display at the toolbar.
- Several COLBAS documents can be opened (but only 1 trend window)
- You can freely select the size of each document window
- The file size in the COLBAS Editor is restricted only by your system's RAM
- All portions of the application window are saved on closing the "New VISOTOOL Editor" and will be restored when you open them again.

Menus and operation

Menu bar and toolbar

The illustration below show the menu bar and the toolbar for the "New VISOTOOL Editor".



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The menus

The table below contains the menus, functions and examples for the associated menu commands as they appear in open COLBAS documents.

Name	Function	Example for menu commands
File	File handling	File New, Print...
Edit	Edit files	Copy, Find...
Connection	Define / establish connections	Connect through Comm Port...
Transfer	Download and upload files	Download Block
Record	Record data	To file... , to printer
View	Display of the application window	Toolbar, font...
Window	Handling of the various windows	Cascade, New Window
Help	Various types of help	Contents, Index....

The buttons

The toolbar contains standard Windows buttons (New, Save, Print, Copy, etc.) on the left. The remaining toolbar buttons are "New VISOTOOL Editor"-specific buttons:

Symbol	Function
	Find terms
	Replace terms
	Identify partner
	Download (Block)
	Upload
	Activate / maximize terminal
	Activate terminal window

Operations in the application window

The menus and buttons are displayed in the application window for the following:

- general operations and settings
- the COLBAS Editor
- communicating with the communication partner via the Terminal Emulator

Calling up and using the menus follows standard Windows guidelines either via mouse or keyboard (**ALT** + mnemonics).

Operations in the Terminal Emulator

This Terminal Emulator provides the same operating functions as the previous version VISOTOOL V4.0:

- Standard VT keys
- Edit bar
- Last commands

Additionally, the "New VISOTOOL Editor" has a few extra features; see chapter 4.

Chapter 3 Installing and establishing communication

Overview

Introduction

Installation and establishment of communication form the basis for working with the "New VISOTOOL Editor". This chapter thus provides information on the following:

- Quick guide to install the software
- Instructions on communications setup and various connection options

After installing the software, you can directly move to the topic in this chapter which describes the type of connection you need.

Topics in this chapter

This chapter discusses the following topics:

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Installing the "New VISOTOOL Editor"

Required operating system

The "New VISOTOOL Editor" runs under the current as well as future versions of Windows 95 and NT4.

Hardware recommendations

The following are recommendations with regard to hardware:

Component	Recommendation
Processor	Pentium
RAM	16 MB
Hard drive	min. 20 MB free memory
Monitor	Resolution: 800 x 600 or higher, color

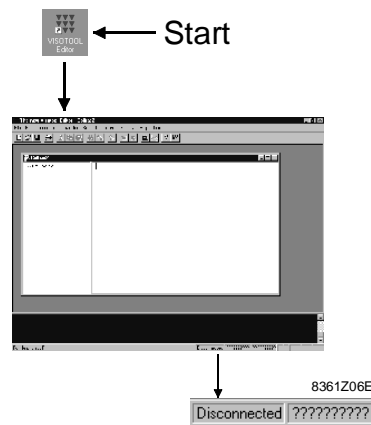
Installation

Below is a quick guide to install the "New VISOTOOL Editor":

1. Start the installation from diskette 1 via **Setup.exe**
2. Read and confirm the displayed recommendation
3. Confirm (or change) the suggested path for installing the files. Default: C:\Programs\LandisStaefa\Visotool
4. Select the desired option: "Default", "Compact" or "Customized"
5. Confirm your selection:
⇒ The software will be installed in the indicated directory.

Initial start-up procedure

Following installation of the software, the menu "Start / Programs / Landis & Staefa Tools" contains a program item for the "New VISOTOOL Editor". In addition, you can create a shortcut to your desktop as shown below. Start the "New VISOTOOL Editor".



The "New VISOTOOL Editor" application window appears. The status bar displays the following message:

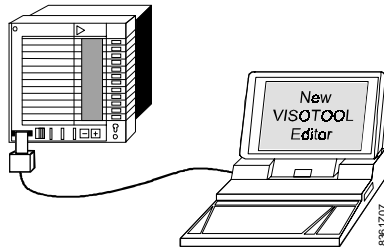
No connection ??????????

This message appears when you have not yet established a connection to a VISONIK unit. You can, of course, already work with the COLBAS Editor. But, let us first check if communication is possible. To do this, read the following topic.

Establishing a local connection

Example: VISONIK BPS

In this example, we will establish a local connection to a VISONIK BPS.



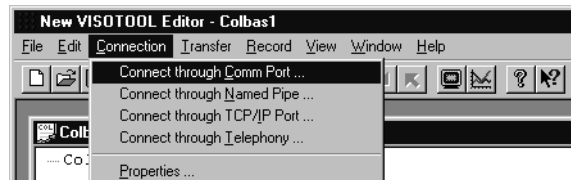
We have made the following assumptions:

- The "New VISOTOOL Editor" should communicate via COM1.
- The serial PC port as well as the VISONIK BPS tool interface have already been connected via an appropriate cable.

Procedure to establish connection

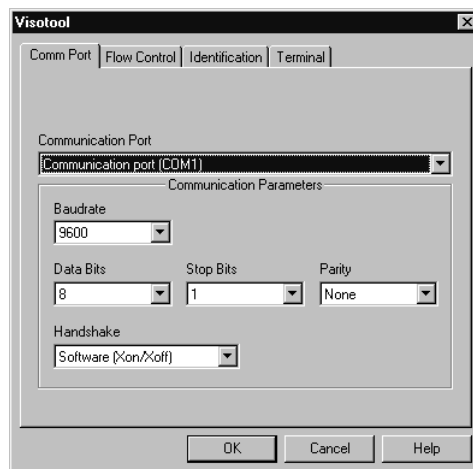
Proceed as follows to establish a connection to the VISONIK BPS:

1. In the open "New VISOTOOL Editor", select the "Connection" menu.



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2. Select "Connect through Comm Port":
⇒ The "Comm Port" tab opens.



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3. Set the desired Comm Port (COM1 for our purposes) and the baud rate (here: 9600). Leave the default values for all other settings (standard case).
4. Click "OK":
⇒ The selected values are transferred
⇒ The "New VISOTOOL Editor" establishes a connection, but:
an error message appears if the desired port is not available!

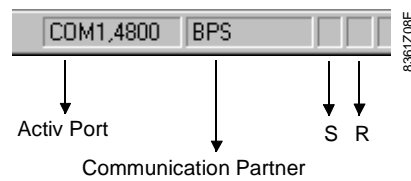
Notes on the remaining tabs

The remaining values are set automatically in accordance with the information provided by the identified partner. After establishing a connection, you can view the settings via "Connection" > "Properties", and changed them if desired. To do this, consult chapter Chapter 8 , "Reference".

Connected partner and communication partner

Status bar information

During a direct connection as established in our previous example, the following information on the respectively established connection appears in the status bar:



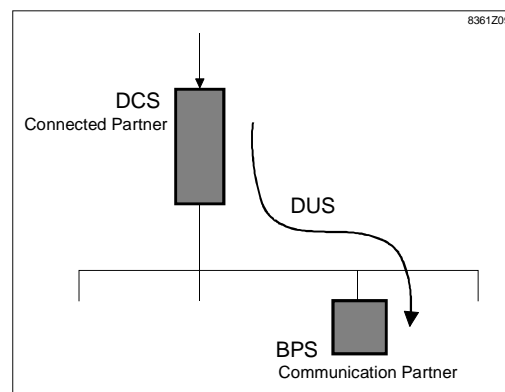
Explanation of the fields

The information displayed in the status bar fields is:

Information	Interpretation
Active Port	The port used by the "New VISOTOOL Editor": – Comm Port, baud rate (as shown above), or – pipe name, telephone number or TCP/IP address
Communication Partner	The partner to which the "New VISOTOOL Editor" is connected. Direct connection is not mandatory; see below
S / R	"S" and "R" briefly blink on these fields when the "New VISOTOOL Editor" is sending or receiving data.

Example for an indirect connection

The example below shows an indirect connections and illustrates the meaning of "Connected Partner" and "Communication Partner".



Explanations (illustration)

The above illustration shows the following situation:

DCS / Connected Partner	BPS / Communication Partner
The VISOTOOL Editor is directly connected to the DCS via a Comm Port.	Connection to the BPS on the Building Level Network was established via DCS on the DUS command.

Mandatory setting of communication partner

After establishing connection via DUS, select the current partner (BPS for the above example) from the drop-down list box via "Connection" > "Set Communication Partner". The status bar information changes from

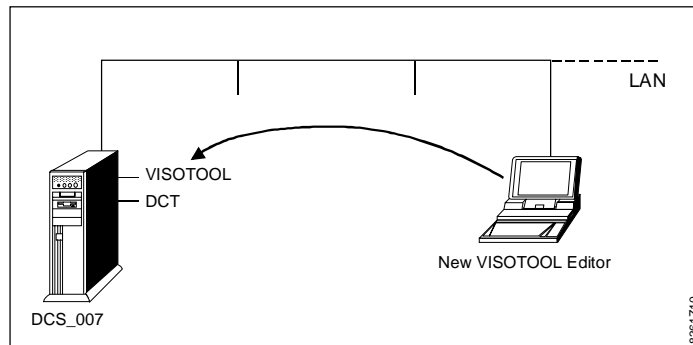
COM1,4800 **DCS** to COM1,4800 **BPS**

Important: By entering the Communication Partner, the associated settings for e.g. uploading and downloading are made and the menus are enabled.

Connection via Named Pipe

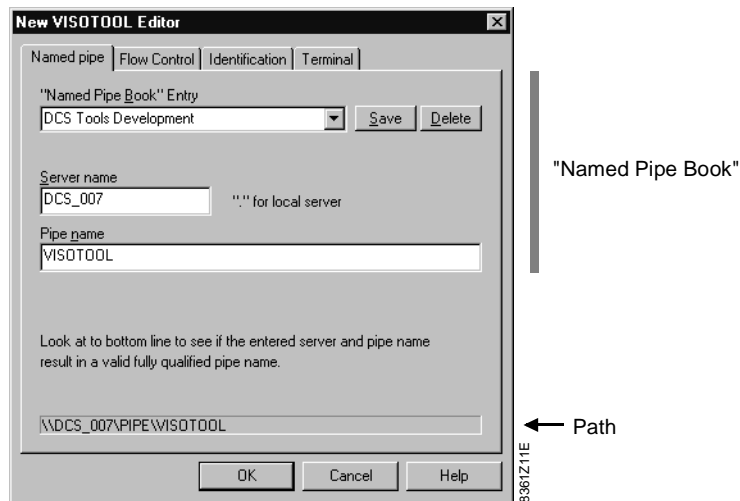
Example for a connection via Named Pipe

The illustration below shows an excerpt from a Local Area Network. Let us assume that we want to establish a connection from the "New VISOTOOL Editor" to the DCS_007 server. At the server, the two Named Pipes "VISOTOOL" and "DCT" exist as access.



Connection settings

Select "Connection" > "Connect through Named Pipe" to open the "Named Pipe" tab in the "New VISOTOOL Editor". This is where you enter all information required for connection:



Entry fields on the "Named Pipe" tab

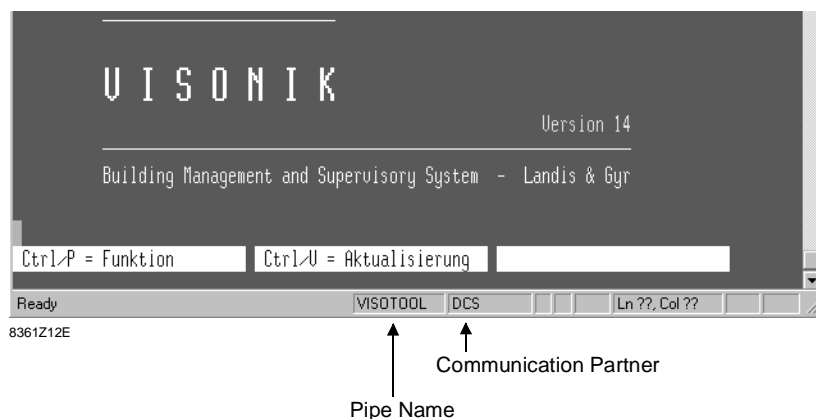
The fields below exist on the "Named Pipe" tab:

Designation	Interpretation
"Named Pipe Book" Entry	Entry and selection field for Named Pipes. This is where you select and save the connections you want to establish. When you click the arrow on the drop-down list box, all entries for selection reappear.
Server name	Designation of the partner to be connected on the LAN
Pipe name	Name of the pipe to be used. This pipe must be established at the respective partner under the same name.
Path	Technical name of the respective pipe. By completing the "Server name" and "Pipe name" fields, the path field is continuously updated and a check is run in the background to verify that the entries correspond to existing conventions. If a fault is found, the following message appears: "Invalid Pipe Name"

Continued on the next page

Connection via Named Pipe, *continued*

Establishing connection When you click "OK" in the "Named Pipe" tab, the selected connection is established and the DCS responds after you press ENTER.

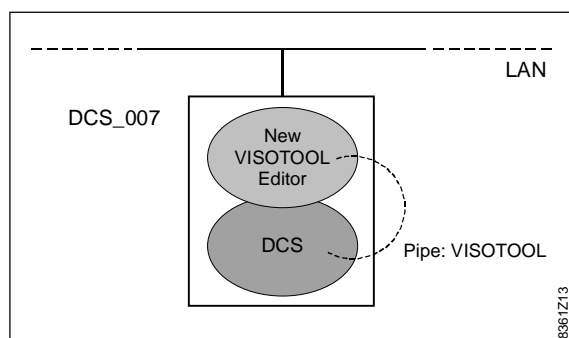


Status bar information The following information appears in the application window's status bar:

Information	Interpretation
Pipe name	Name of the used pipe; VISOTOOL for our example
Communication Partner	The DCS is the partner in our example. Had you established a connection via DUS to a BPS on the SDLC ring and entered the respective settings, "BPS" would be indicated as the partner.

Internal connection via Named Pipe

When the desired partner is installed on the same PC as the "New VISOTOOL Editor", you can also use a Named Pipe for communication (e.g. to operate the DCS) as shown below:



In this case, connection from the "New VISOTOOL Editor" to the DCS occurs inside the PC (DCS_007 in our example). For such a connection, enter a dot "." in the "Server name" field on the "Named pipe" tab.

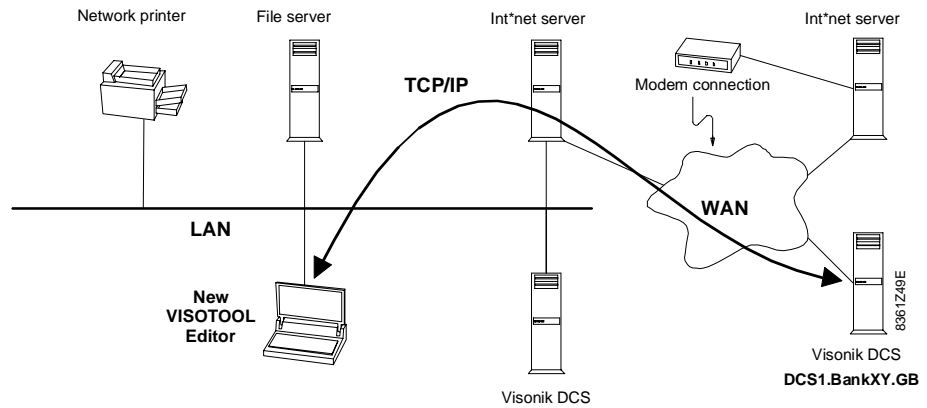
Advantages

When you use an internal connection for the two software applications, no external connection on the PC must be established, e.g., via serial ports (V.24 OUT / V.24 IN), and the connection is faster.

Connection via TCP/IP

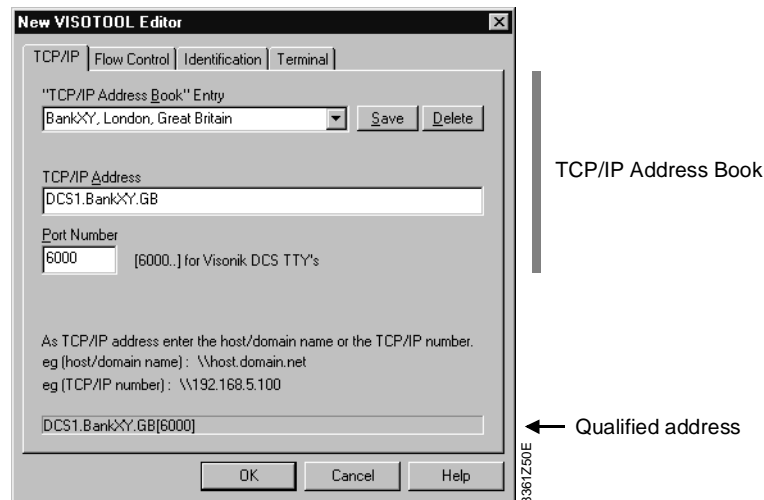
Application example

The illustration below shows an application example: You want to establish a connection with the address "DCS1.BankXY.DE" in a Wide Area Network (WAN) from the "New VISOTOOL Editor" on the LAN via TCP/IP to the VISONIK DCS.



Connection settings

Select "Connection" > "Connect through TCP/IP" to open the "TCP/IP" tab in the "New VISOTOOL Editor". This is where you enter all information required for connection:



Fields on the TCP/IP tab

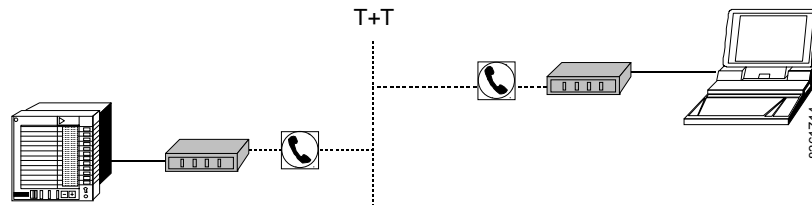
The following entry fields exist on the "TCP/IP" tab:

Designation	Interpretation
"TCP/IP Address Book" Entry	Entry and selection field to designate the TCP/IP partner. This is where you select and save the connections you want to establish. When you click the drop-down list box arrow, the entry list reappears that allows you to select the desired partner.
TCP/IP address	TCP/IP number or host/domain name; for our example: DCS1.BankXY.DE <i>Note:</i> When the "New VISOTOOL Editor" is installed on the respective DCS (local host), enter the reserved address 127.0.0.1.
Port Number	The numbers 6001 to 6010 are designated for VISONIK. Example: On 6007, the TTY channel is 2.
Qualified address	This is where the above entered address, if correct, is indicated. If the address is invalid, "Invalid TCP/IP address" appears.

Establishing dial-up communication

Example for dial-up communication

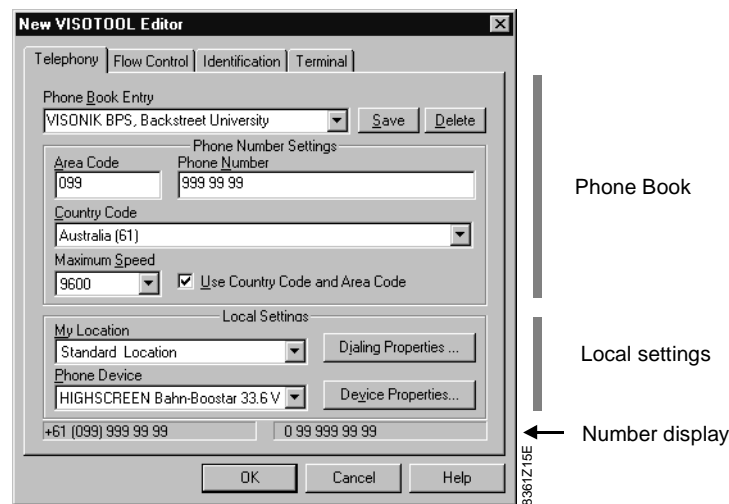
The illustration below shows an example for dial-up communication between the "New VISOTOOL Editor" (tele terminal) and a VISONIK BPS as the partner.



Dial-up communication setup

When you select "Connection" > "Connect through Telephony", the "Telephony" tab opens. This tab is used to:

- define and select the connections to be established
- set global dial-up connection settings for the respective computer
- trigger dial-up of the current telephone partner



Fields in the "Telephony" tab

The fields on the "Telephony" tab are segregated into three groups:

Group	Interpretation
Phone Book	This part of the tab represents the individual phone book of the "New VISOTOOL Editor". It contains entry fields for the following: <ul style="list-style-type: none"> – the names of the partners to be called up (Phone Book Entry) – the associated telephone numbers, incl. area codes – the associated maximum baud rate You can save and delete entries via the "Save" and "Delete" buttons. When you click the arrow on the drop-down list box, the partner selection list appears.
Local settings	These are general settings for dial-up communication: <ul style="list-style-type: none"> – Geographical location of the PC (with resp. area code) – Modem used and associated properties. If no entry exists in this field, you need to install a modem in Windows.
Number display	These two fields contain the following information: <ul style="list-style-type: none"> – Left field: complete partner phone number as per international conventions – Right field: dialed number (depending on location)

Continued on the next page

Establishing dial-up communication, *continued*

Establishing communication

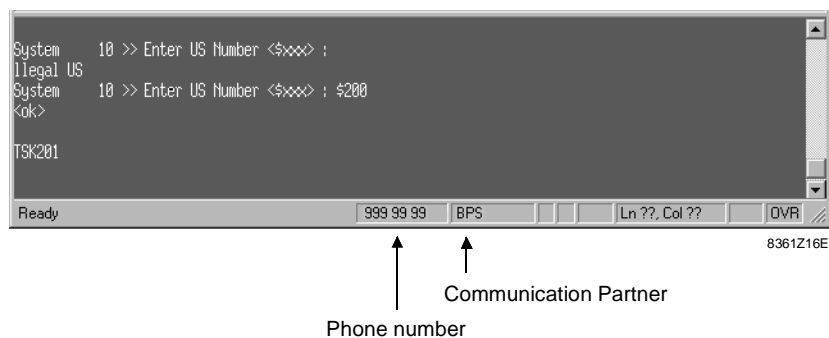
Proceed as follows after completing all settings in the "Telephony" tab:

1. Click "OK" on the "Telephony" tab:
 - ⇒ The modem becomes active and establishes connection to the selected partner.
 - ⇒ The partner responds and prompts you for the US number
2. Enter the US number (\$200 in the example below) and press ENTER:
 - ⇒ The partner confirms with "ok" if the entry was correct.

Status bar information

After successful dial-up connection, the status bar of the "New VISOTOOL Editor" displays the following information:

- Partner telephone number (here: 999 99 99)
- Communication Partner (here: BPS)



Tips on dial-up communication

When entering the dial-up communication settings, you may ask yourself the following questions:

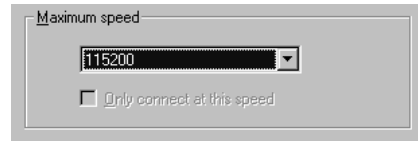
- What does the "Maximum Speed" entry do?
- What happens under "My location"?
- Can I transfer phone books?

The page below contains tips and tricks on these topics.

Tips and tricks on dial-up communication

Maximum speed

You can check the modem settings of a specific modem that are valid for **all** dial-up connections via "Device Properties" in the "Telephony" tab. The "General" tab opens and displays the respective speed.



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The displayed speed indicates the maximum speed between PC and **local** modem. Normally, the value is set to the maximum speed (e.g., 115200 default setting). This way, the respectively used modem automatically adjusts the speed.

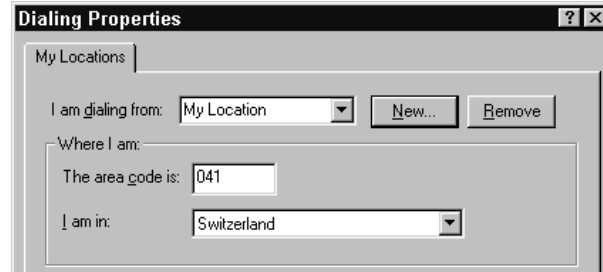
The **individual** setting for maximum speed can be set for each phone book entry in the "Maximum Speed" field of the "Telephony" tab. A speed setting may be required for the following cases:

- Communication with EKL and PRV1 (automatic speed adjustment may not always be reliable)
- Bad connection to a specific partner

Defining locations

When you click "Dialing Properties" on the "Telephony" tab, the corresponding tab opens. This is where you define further locations for the respective computer in addition to the existing "My Location" entry. A definition requires the following information:

- Name
- Area code
- Country



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Meaningful for service PCs

The option to define several locations is meaningful for service PCs for the following reasons: Once the various locations are defined, all partners listed in the phone book can easily and quickly be selected from the various locations. This is then possible without having to modify the phone numbers.

Transferring phone books

You can transfer an existing phone book to other computers by copying the following file:

C:\Programs\LandisStaefa\Visotool\VTTelephony.ini

Apply the same procedure to transfer the "Named Pipe Book" and the "TCP/IP Book" to other computers. The corresponding files are:

- VTNamedPipe.ini
- VTTCPiP.ini

Note on copying

In order to view the above file(s) in the Windows Explorer, select the "Show all files" checkbox under "View" > "Options".

Chapter 4 The Terminal Emulator

Overview

Introduction

You will use the Terminal Emulator to communicate online with the desired partner station. Requirements:

- a successfully established connection
- an active Terminal window

To find out more about online communication and the associated functions, you can either read the entire chapter step-by-step or directly proceed to the desired topic as per the topic list below.

Topics in this chapter

This chapter discusses the following topics:

Topic	Page
The Terminal window	24
Editing with the Edit Bar	26
Last Commands and Normal VT Keys	27
Copy and paste	28
Getting help	29
Recording dialogs	30
Printing the Terminal contents	31
Resetting the Terminal Emulator	32
Interrupting a connection	33

The Terminal window

Activate the Terminal window




Use **F4** to activate the Terminal window. This key has two functions:

1. Activate the Terminal Emulator
2. Maximize / restore (previous small window) the Terminal window

The  button in the toolbar displays the current status as follows:

- Button active Terminal operation is active
- Button inactive Document window is active

When you work with the mouse, you can maximize / restore the Terminal window by clicking the  button instead of pressing F4.

Connection notes

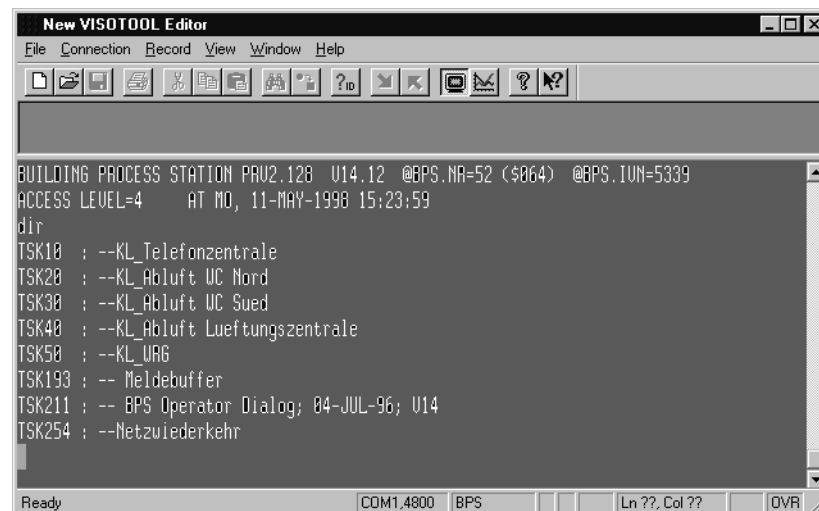
When you exit the VISOTOOL Editor while in "No connection" status, you first need to reconnect the Terminal to the partner; see chapter 3, under topic "Establishing a local connection".

Making entries using the BPS as an example

After activating the Terminal, the cursor appears and you can start:

1. Press ENTER.
 - ⇒ The process station acknowledges with *TSK203* (at the tool interface), provided it is not password protected — if it is protected login by entering *hello* and the password.
 - ⇒ If the process station does not respond:
Try pressing **Ctrl+Q** or **Ctrl+O** (until Output On).
2. Enter the desired operating tasks and entries.

The illustration below shows an excerpt of the Terminal window after successful login and entry of the "dir" command.



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The back scroll buffer

The Terminal Editor has a "back scroll buffer" containing a maximum of 1000 lines. This means:

When scrolling down, the lines that disappear from the screen are not lost but can be recovered to the indicated maximum by re-scrolling the same window.

Continued on the next page

The Terminal window, *continued*

Keyboard commands



You can use the following key combinations in the Terminal window:

Keys	Function
Alt+arrow keys	Scroll the back scroll buffer: up / down/ left/ right
Alt+PG UP↑ / PG DN↓	As above, but moving by pages
Arrow keys up/down	Depending on the partner — and when set in the "Terminal" tab — the Edit Bar appears; see next topic "Editing with the Edit Bar".
Ctrl+letter	Sends all Ctrl-commands as per VT100 rules to the connected partners. For instance: Ctrl+P, Ctrl+E, Ctrl+H, etc.
Esc	Deactivate the Terminal window

Changing Terminal settings

The program automatically sets the Terminal settings as per the corresponding partner. You can view and change the settings as follows:

1. Select "Connection" > "Properties" (existing connection) and then the "Terminal" tab.
⇒ The following window opens:



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2. Change the desired options; e.g.:
 - background colors for the active or passive Terminal window
 - arrow (cursor) key functions from "Edit Bar" to "Normal"
 - font size from 14 to 19
 - etc.For further settings, refer to chapter 8, "Reference" under "Communication settings".

Notes on "Terminal Type"

The "Terminal Type" as well as "Cursor keys" (arrow keys) and "Keypad" are designated with an asterisk (*). This means that they are set automatically by the "New VISOTOOL Editor" as per the respective partner. Keep the "Terminal Type" to communicate with VISONIK units set to VT 320 (8-bit).

Editing with the Edit Bar

The Edit Bar

The Edit Bar has been designed especially for online communication with the process stations. When the "New VISOTOOL Editor" recognizes a process station as the partner, the "Edit Bar" is activated for the arrow keys. This allows you to easily:

- repeat operating commands
- edit COLBAS programs line by line.

```
.TSK10
TSK10 EDITOR
1 --KL_Telefonzentrale
5 TSKTTY:=3
10 Z:=4; Tn:=TSKNA; Pa:=@PLTtn.TA; As:=0; US:=0; Resu:=0; Q1:=0
11 Q2:=0
109 --RANGE2: Sollwert-Begrenzung
111 DATA 15,26,"@Pa.PAR2",22,"ABL-Kuehlen.(SPC)"
112 DATA 10,50,"@Pa.PAR5",30,"Min.AUL-Klappe.(M)"
113 DATA 40,75,"@Pa.PAR8",50,"Feuchte.(M)"
118 IF NOT DFNCDF THEN Df:=1; --Def.-Wert
120 YK1:=0; YK:=1;
```

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Using the Edit Bar

Use the Edit Bar as follows to edit, e.g., a task:

Step	Action	Result / Comments
1	Call up and display the task you want to edit.	Display with "tsk10" (for example) and "list"
2	Press the up or down arrow key (or PG UP , PG DN).	The line containing the cursor is displayed as a bar; see illustration above.
3	Using the arrow keys, move the Edit Bar to the desired line and start editing	<i>Overtyp mode:</i> Delete the characters using the Backspace (←) key and enter new ones. <i>Insert mode:</i> Press the Insert key and enter additional characters at the cursor position.
4	Press ENTER.	The edited line is transferred to the connected device.
5	Press Esc	Use Esc to cancel the edit procedure.

Important!

Prior to pressing the ENTER key, ensure that the Edit Bar is located at the desired position on the task, procedure, or block, because:

If you move the Edit Bar to a line that does not belong to the current task and if you then press ENTER, the line is added to the current task, or a possibly existing line with the same number is overwritten — which may not be your intention.

Note for users familiar with the VISOTOOL 4.0 Editor

The functions of the Edit Bar of the "New VISOTOOL Editor" are identical to those of the VISOTOOL 4.0 Editor.

Last Commands and Normal VT Keys

Two alternatives to the Edit Bar

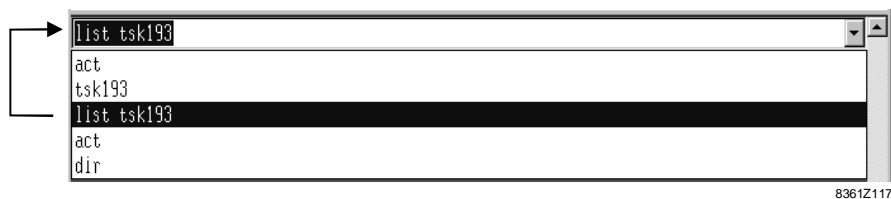
In the "New VISOTOOL Editor", one of the following two modes instead of the Edit Bar can be assigned to the arrow keys.

- Last Commands: To activate the most recent entered commands
- Normal VT Keys: Functions corresponding to the VT Terminal (required when the "New VISOTOOL Editor" communicates with a DCS)

Activation of these modes occurs either automatically on partner identification or manually via the "Terminal" tab by first selecting "Connection" > "Properties".

Last Commands

If the "Last Commands" mode is active, the entered commands are saved in sequence in the Editor and displayed on request; for example, "list tsk193":



Keyboard commands



You can use the following keys in the "Last Commands" mode:

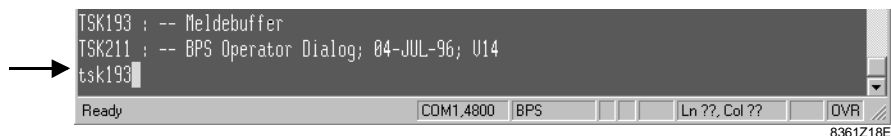
Key	Function
Arrow keys up / down or PG UP / PG DN	The commands entered last appear in a window (white background) on top of the Terminal Emulator. The most recent command is on top, the older ones below it.
Arrow keys up / down	Select the desired command from the list
Arrow key right / left	The cursor appears in the selected line: A command can be changed or supplemented.
ENTER	Transfers the command (command window closes)
Esc	Closes the command window without command transfer

Direct key commands such as **Ctrl+E** are not part of the "Last Commands" list.

Normal VT Keys

When the "Normal VT Keys" option is active, the arrow key function corresponds to that of the Terminal. The response on the respective entry depends on the partner.

For example: when the up/down arrow keys are used with the **VISONIK BPS**, the last entered commands from the BPS's buffer appear such as "tsk 193" in the illustration below.



Keyboard commands



When in the "Normal VT Keys" mode, use the following keys for the BPS:

Key	Function
Arrow keys up / down	Displays the commands last entered in the bottom line
Arrow key right / left	Moves the cursor back and forth on the line
Backspace (←)	Deletes the characters from right to left
ENTER	Transfers the line as a command

Copy and paste

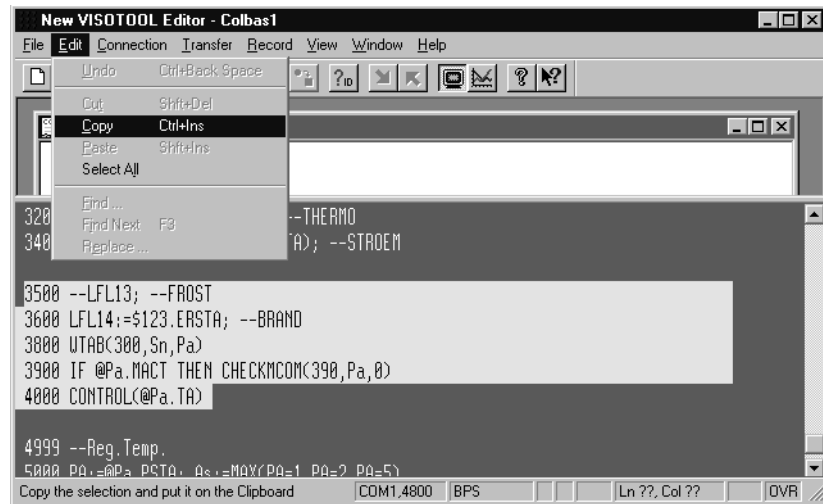
Using the function

This menu allows you to copy text from the Terminal window to the COLBAS Editor.

Procedure

Proceed as follows to copy the text:

1. Highlight the desired text in the Terminal window (using the mouse)
2. Select "Edit" > "Copy" or press **Ctrl+Insert**:
⇒ The highlighted text is copied to the clipboard.



3. Switch to the desired location in the COLBAS document.
4. Select "Edit" > "Paste" or press **Shift+Insert**:
⇒ The text is inserted in the document from the clipboard.

Keyboard commands



Two tips on working with the keyboard:

Key	Function
Esc	Use Esc to switch between the Terminal and the COLBAS document.
Alt	Use Alt to switch from the Terminal window to the menu bar. You would do this, e.g., to conduct a reset: "Alt" > "Window" > "Reset Terminal Emulator".

Do not copy to the Terminal!

Principally, you could also copy the highlighted text to the Terminal. In this instance, the entire text would be sent to the communication partner as an instruction and the respective response would appear at the end of the Terminal window.

However, the transmitted data are not subject to the required download protocol; thus: use the Edit Bar for this task!

Getting help

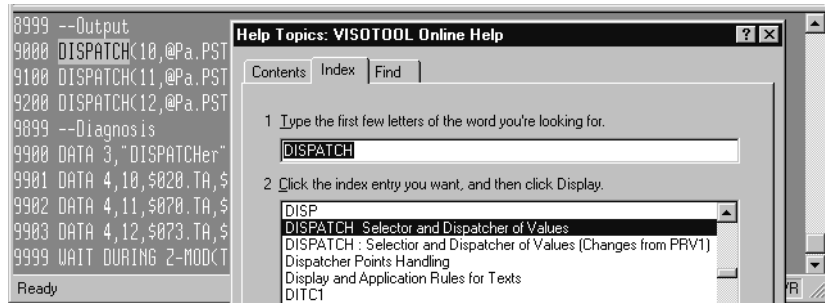
Context-sensitive help

The "New VISOTOOL Editor" provides context-sensitive help. This enables you to directly get contextual help within the application — you no longer have to search for help in the help menu.

Example:

In a COLBAS task, you come across the term "DISPATCH" and you would like to get detailed information. Proceed as follows to get context-sensitive help:

1. Highlight the term "DISPATCH"
2. Press **F1**:
⇒ The "Help Topics" window opens with the highlighted term and a selection of further entries, whereby "DISPATCH" is highlighted.

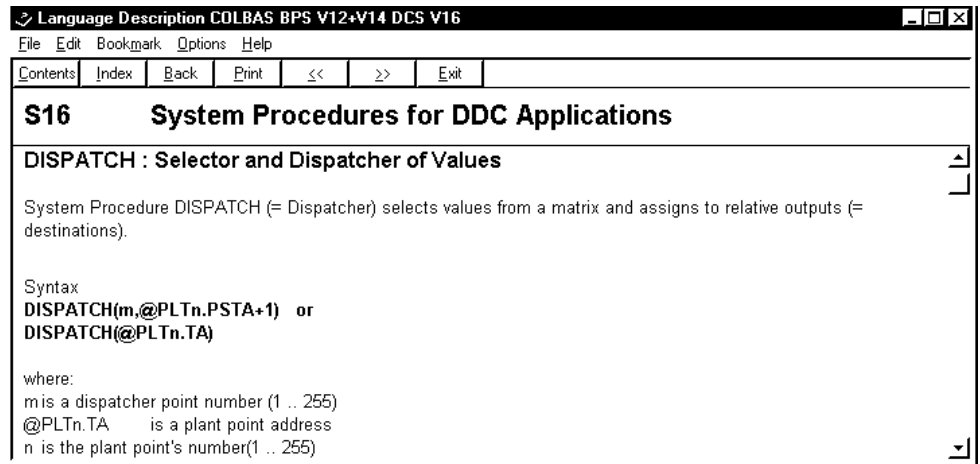


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3. Highlight the "DISPATCH" entry and press ENTER (or click "Display").

Result of your help request

As a result of your request for help on "DISPATCH", a description of this system procedure appears:



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Further Help functions!

In addition to the above described example, you can get the following types of help:

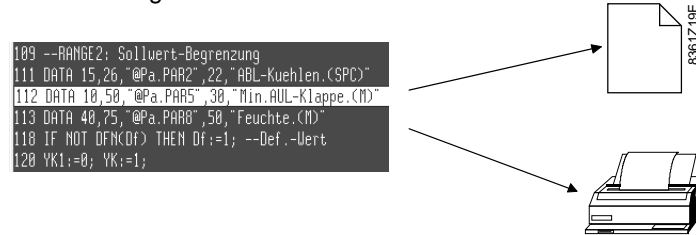
- Context-sensitive help also for other areas of the "New VISOTOOL Editor" such as the document window.
- The "Help" > "Contents" and "Help" > "Find" commands provide online help with the associated tabs for content, index or full text searches.
- VISONIK documents: BPS V12/V14 Point Types and Parameters, COLBAS BPS V12+V14 / DCS V16 Language Description, COLBAS Error/Diagnostic Messages, VISONIK Parameters DCS V14 and V16.
- Help on the "New VISOTOOL Editor" (topics of this User's Guide).

Recording dialogs

Two selection options

To record the dialogs from the Terminal Emulator, you can choose one of the following two options:

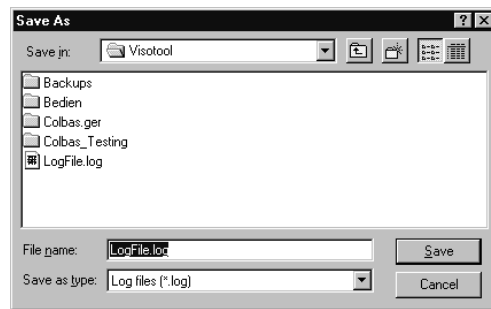
- Save dialog to a file
- Print dialog



Save dialog to a file

Proceed as follows to save a dialog to a file:

1. Select "Record" > "To File":
⇒ The "Save As" window opens:



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2. Select the desired subfolder and enter a suitable file name. For recordings, the file extension per default is "*.log".
3. Confirm with "Save":
⇒ The window closes and the recording begins.
⇒ At the bottom right of the status bar, a red "REC" is blinking.

Keyboard commands



Use the following keys to navigate in the "Save As" window:

Key	Function
Tab	Moves from one entry field to the next
Arrow keys up/down	Moves between file folders and selection fields (e.g. file types)
ENTER	Opens file folders, activates buttons

Stopping the recording

To stop the recording, select again "Record" > "To File".

Print dialog

Proceed as follows to print a dialog on the Windows **standard printer**:

- Select "Record" > "To Printer":
⇒ Sending to the printer is activated.
⇒ At the bottom right of the status bar, a red "REC" is blinking.
⇒ The printer continuously ejects full pages.

Stopping the print

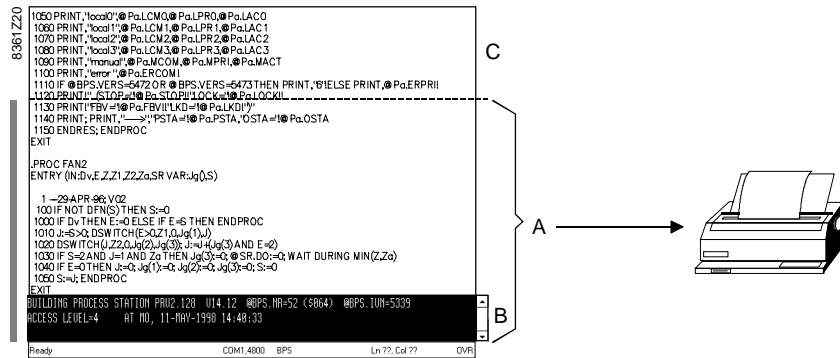
Proceed as follows to stop printing:

- Select "Record" > "To Printer":
⇒ The recording is stopped
⇒ The printer ejects the last page.

Printing the Terminal contents

Number of Terminal rows

Per definition, a Terminal comprises 24 lines at, e.g., 80 characters. The same applies to the "New VISOTOOL Editor" Terminal Emulator. The print command thus comprises the last 24 lines as shown below (A):



Range of the Terminal Emulator

The above shown sections of the Terminal Emulator are:

Section Interpretation

A Terminal, i.e., the last 24 lines of the Terminal Emulator

These lines are printed on demand, regardless of the respective window size

B Active window size for the Terminal

C Lines in the back scroll buffer (max. 1000).

Comment:

On a Terminal without back scroll buffer, information contained in lines exceeding the 24-line limitation is lost.

Printing the contents

Proceed as follows to print the current contents of the Terminal:

- Select "File" > "Print Terminal Emulator Screen":
⇒ The current contents of the Terminal are printed.

Note on the target printer

The commands "Print Terminal Emulator Screen" and "Record to Printer" **always** use the **standard printer** as defined in Windows.

This even applies when a different printer has been selected for printing from the COLBAS Editor via "File" > "Printer Settings".

Resetting the Terminal Emulator

Manual reset

Enter the following command to manually reset the Terminal Emulator:

"Window" > "Reset Terminal Emulator".

Effect of a reset

The reset command causes the following:

- The current contents of the Terminal, i.e., the 24 lines are deleted. Compare "Printing the Terminal contents".
- Configured scroll ranges, such as the VISONIK DCS headers and footers are also deleted.

No effect on the back scroll buffer

A reset does not delete the back scroll buffer. The contents are deleted only when you exit the "New VISOTOOL Editor".

Automatic reset

The program triggers an automatic reset only when you switch communication partners. In this instance, the settings are newly set for the respective partner. You can check the settings in the respective tabs:

- "Flow Control"
- "Identification"
- "Terminal"

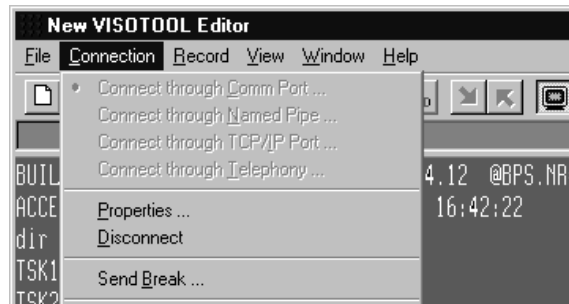
Compare "Communication settings" in chapter 8.

Interrupting a connection

Two commands for different cases

To interrupt an existing connection, select one of the two commands from the "Connection" menu, each of them covering a specific case:

- "Disconnect"
- "Send Break"



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Below is a brief explanation of the two commands.

Standard case: "Disconnect"

Normally, the "Disconnect" command is your proper selection, as it serves to disconnect various connections made via:

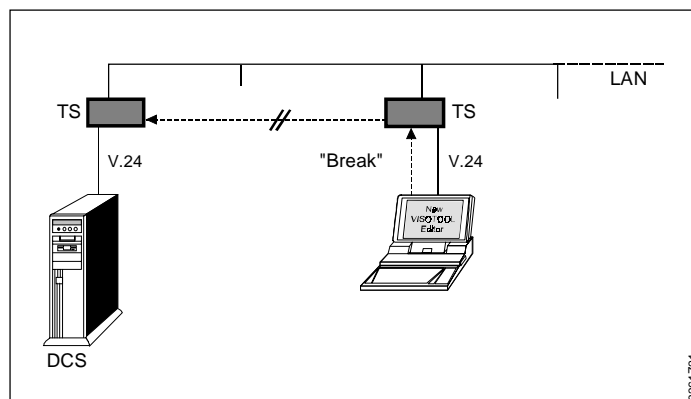
- Comm Port
- Named Pipe
- TCP/IP
- Dial-up communication

"Disconnect" enables you to properly interrupt the connections. The "New VISOTOOL Editor" remains open. You can now either:

- establish a different connection via "Connection" > "Connect through...."
- continue to work with the COLBAS Editor in a document window.

Special cases: "Send Break"

"Send Break" is a command that can only be executed via COM ports. Use this command, for example, to disconnect a transparent connection on a LAN that was established via Terminal Server and V.24 interface; see illustration below:



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This connection was established by login from the "New VISOTOOL Editor" via the Terminal Server (TS). Thus, "Disconnect" alone is insufficient to break the transparent connection to the DCS. However, the Terminal Server interprets the "Send Break" command on the "New VISOTOOL Editor" and proceeds to interrupt the connection to its partner on the DCS.

Note on the above example

Today, connections such as the above mentioned ones are preferably established via "Named Pipe" (network card required in PC).

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Chapter 5 The COLBAS Editor

Overview

Introduction

The COLBAS Editor to a large degree is a normal Windows text editor that has been enhanced by some important functions to provide for clear and comfortable data exchange with the communication partners. The COLBAS Editor use the "New VISOTOOL Editor" working window. This is where you can do the following:

- create new documents
- load and edit existing documents
- perform uploads and downloads

This chapter provides information on editing documents. Downloading and uploading is described in the next chapter.

Topics in this chapter

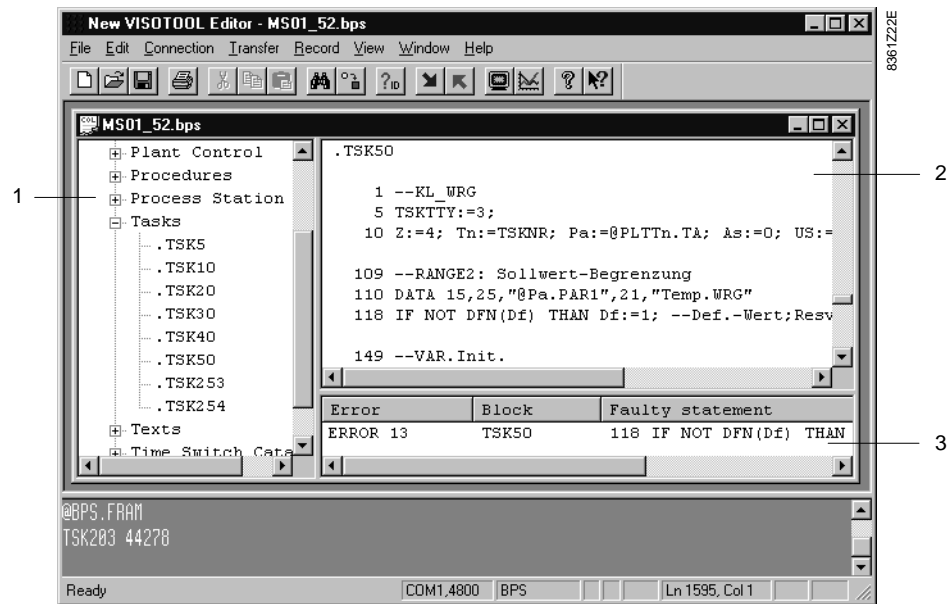
This chapter discusses the following topics:

Topic	Page
The document window	36
Creating and saving new documents	37
Creating and editing texts	38
Finding and replacing terms.....	39
Printing documents	40
Converting documents	41

The document window

One window — three displays

The illustration below shows the "New VISOTOOL Editor" with an open document window (MS01-52.bps) and an almost fully minimized Terminal Emulator.



Display names and functions

These are the display names and the respective functions:

Display name	Functions
Contents display (1)	<p>The program automatically creates the Contents display. It analyzes the open document (points, procedures, tasks, etc.) and displays related data in the form of a block. The blocks that are hierarchically structured form a directory tree.</p> <p>The Contents display is automatically updated if required:</p> <ul style="list-style-type: none"> – upon opening the Contents display – upon saving – for downloads <p>This always happens when you make changes in the text editor. Exception: For *.log files, no Contents display is created.</p>
Text Editor (2)	<p>The Text Editor allows for general editing tasks: cut, copy, paste (same or different document), drag & drop, search and replace, and provides context-sensitive help.</p>
Error display (3)	<p>The Error display lists all known errors that occurred during downloading or uploading. You can directly switch to the corresponding code block or request context-sensitive help from any one of the displayed errors.</p>

Keyboard commands

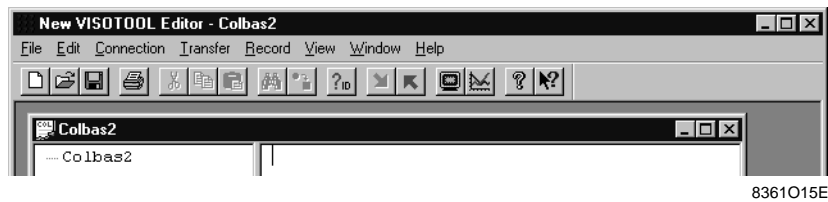


Use the following keyboard commands to navigate within the application:

Keys	Function
F6, Shift+F6	Switches from one display to the next within the document
Ctrl+F6	Moves from one document to the next when several are open
Alt+minus key	Shows the menu commands for the document window (min., max., etc.)

Creating and saving new documents

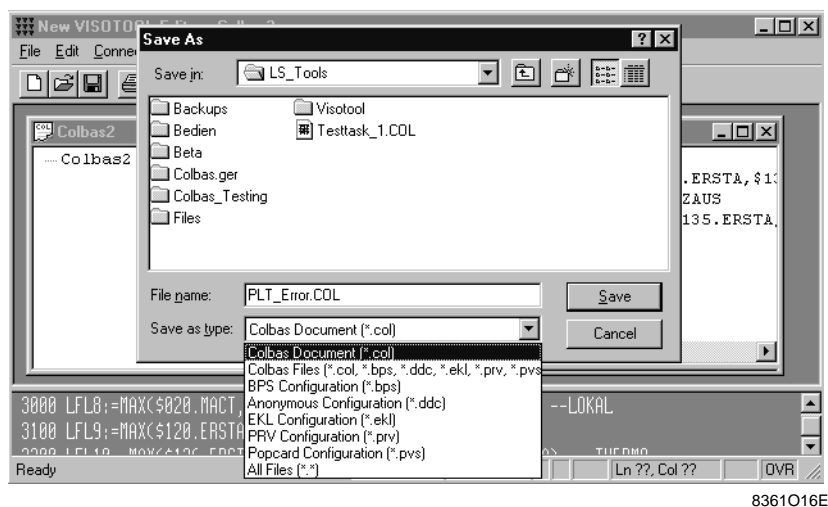
Creating new documents When you create a new document via "File" > "New", the "New VISOTOOL Editor" creates a COLBAS document; see "Colbas2" in the illustration below.



The COLBAS document is a standard document type in the "New VISOTOOL Editor". Several documents can be open at the same time.

Saving documents

Save edited documents as usual under their file names or in the case of new documents, via "File" > "Save" or via "File" > "Save As" as shown below:



Please note the various file types available for selection!

Ensure proper allocation!

Save a new document using the appropriate file extension in accordance with one of the following file types:

File type	Designation / Purpose
*.ekl	EKL process station configuration file
*.prv	PRV process station configuration file
*.bps	VISONIK BPS configuration file
*.ddc	Configuration file for undefined/any process station
*.col	COLBAS code only
*.pvs	PopCard configuration file
*.twp	Trend profile

File extensions are supported

The above listed file extensions are supported under Windows, i.e., the following files

- have a corresponding symbol in the Explorer
- can be started from Explorer.

Creating and editing texts

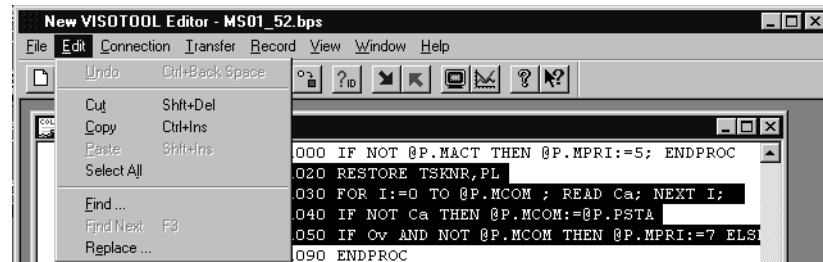
Creating texts

You can do the following in a new or open document:

- Enter texts via the keyboard
- Insert text sections from other sources such as the Terminal Emulator, COLBAS documents or Winword documents (via the clipboard).

Editing texts

The illustration below shows the "Edit" menu in the COLBAS Editor. This menu contains the familiar commands "Cut", "Copy", and "Paste" to edit documents.



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The following procedure also applies to the COLBAS Editor:

1. Highlight the text you want to edit (by using the mouse or via **Shift+arrow keys**)
2. Apply the respective commands (all available commands are active on the menu)

Undo a command

The "Edit" menu contains a single-step "Undo" command. This command enables you to undo the **last** executed command.

Example: A text portion that you deleted by mistake can be re-inserted.

Copying between two documents

The edit command can be used for different open documents to, for example, copy an entire task from one document to another. To do this, identify the beginning and the end of the associated task in the text window and highlight everything in between. Another copying procedure is:

1. Select the desired task from the Contents display on the document window and highlight the associated text by either **double-clicking** it or by pressing ENTER.
2. Switch to the Text Editor display via "Window" > "Next Pane" or by pressing **F6**.
⇒ The available commands on the "Edit" menu and the corresponding toolbar buttons become active, but the highlighted section in the text window remains as is.
3. Copy the section to the clipboard.
4. Switch to the target document by pressing **Ctrl+F6** and insert the text.

Mouse operation: Drag the highlighted section to the target document by pressing **Ctrl+left mouse button**.

Keyboard commands



The shortcuts for keyboard editing are listed on the "Edit" menu (open the menu with **Alt+E**). The table below contains the three most important keyboard shortcuts:

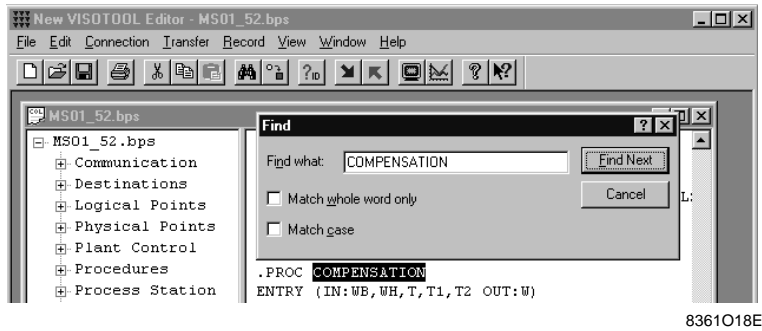
Keys	Function
Shift+arrow keys	Highlights the text
F6, Shift+F6	Switches to another display within the document window
Ctrl+F6	Moves to the next document window

Finding and replacing terms

Finding terms



The following illustration is an example for the "Edit" > "Find" commands. We want to find the term COMPENSATION.



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After entering "COMPENSATION" and activating "Find Next", the program searches the document and displays the first occurrence of the search term.

By again activating "Find Next", the next occurrence of the term is displayed.

Find options

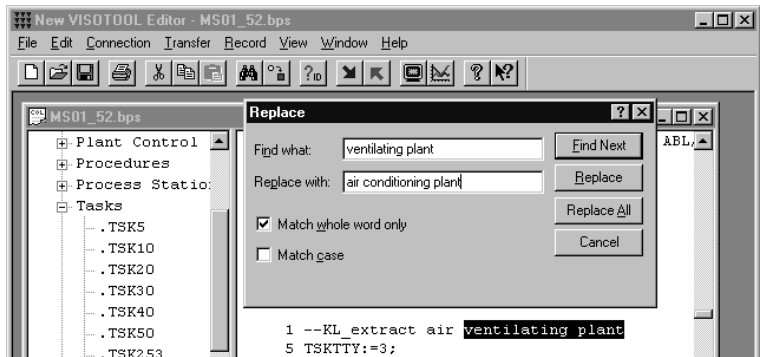
By selecting the respective checkbox, you can enter the following criteria to find the term:

- "Match whole word only" The found term must fully match the search term
- "Match case" Match uppercase / lowercase letters

Replacing text



This illustration is an example for "Edit" > "Replace". We want to find the term *ventilating plant*. We will then replace this term with *air conditioning plant*.



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After entering "ventilating plant" in the "Find what" field and activating "Find Next", the first occurrence of the term is displayed in the document. You can now replace the term with *air conditioning plant* by entering it in the "Replace with" field and activating "Replace" or "Replace All".

Replace options

The following options are available to replace the terms found:

- "Find Next" / "Replace" Find (display) and replace each term individually.
- "Replace All" Replace all occurrences of the term (without display).

Printing documents

Overview of the print menus

The "File" menu contains the following commands related to printing:

- "Print"
- "Page Setup"
- "Print Preview"
- "Printer Setup"

You should be familiar with the "Print" and "Printer Setup" commands; they always depend on the installed printer. We will thus not discuss these two commands. Below is a brief description of "Page Setup" and "Print Preview".

"Page Setup"

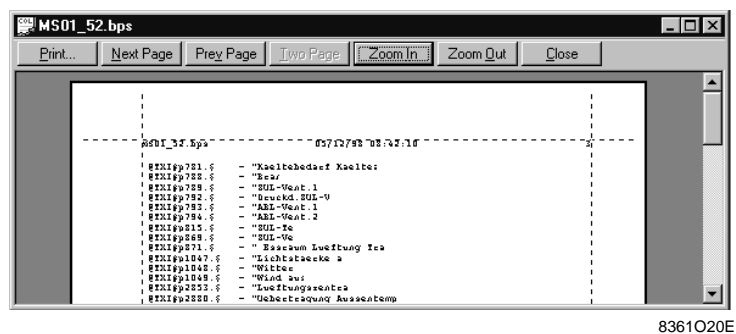
The "Page Setup" window provides the following setting options:

- Paper size and paper supply
- Landscape or portrait
- Paper margins left, right, top, bottom (in mm).
Default: left 20 mm and right, top, bottom each 10 mm.

The gutter default settings have been selected so that you can print a BPS system report (SYS) without line break using the "Courier New" font, 10 pt..

"Print Preview"

This function can be extremely helpful. To preview the print, select "Print Preview" from the "File" menu. The illustration below shows an excerpt of the Print Preview window and display of **one** page:



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Function of the toolbar buttons

The toolbar buttons and the associated functions are:

Button	Function
Next Page	Displays the following page in the document
Prev Page	Displays the previous page in the document
One Page / Two Page	Switches from a one-page display to two pages and vice-versa
Zoom In	Zooms in the page display (2 stages)
Zoom Out	Zooms out the page display (by the 2 stages)
Print	Opens the "File" > "Print" menu
Close	Closes the "Print Preview" window

Operating hints

When you use the keyboard, activate the toolbar buttons via the **Tab key**.

When you use the mouse, you can zoom in and zoom out the document by directly clicking the document (arrow turns into a spyglass).

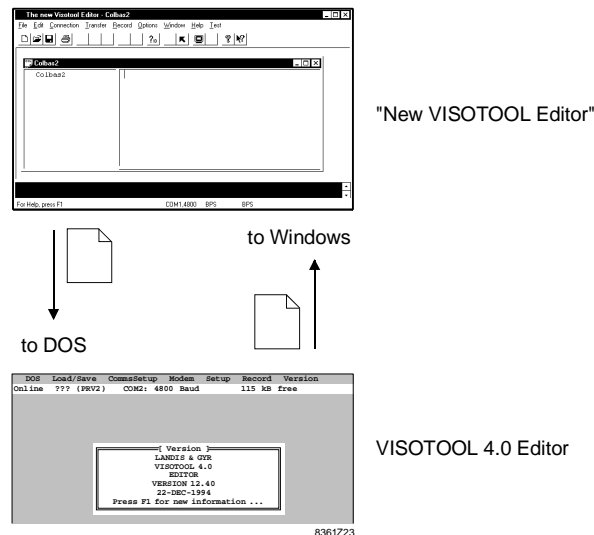
Converting documents

Purpose of conversion

Document conversion serves to import documents created in the VISOTOOL 4.0 Editor (DOS character set) in the "New VISOTOOL Editor" (Windows character set) and vice-versa. To convert documents, use the corresponding commands from the "File" menu:

- "Convert to Windows"
- "Convert to DOS"

The illustration below depicts the processes:



Example for "Convert to Windows"

A file saved in DOS under the VISOTOOL 4.0 Editor is loaded in the "New VISOTOOL Editor". During the load process, special characters such as the degree (°) character are misinterpreted as shown below:

```
3100 PRINT "ENTER SETPOINT FOR LOW LIMIT IN °C"
3110 PRINT "ENTER SETPOINT FOR HIGH LIMIT IN °C"
```

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However, after converting the file via "File" > "Convert to Windows", the degree (°) character will be interpreted correctly.

```
3100 PRINT "ENTER SETPOINT FOR LOW LIMIT IN °C"
3110 PRINT "ENTER SETPOINT FOR HIGH LIMIT IN °C"
```

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Conversion is irreversible!

Conversion is not 100%-reversible. Thus, conversion should occur only once and in one direction only.

Reason: Not every converted character has an unambiguous equivalent on re-conversion as is the case for the above example.

Conversion on data communication

During data communication, a possibly required conversion is done via the conversion table in the "New VISOTOOL Editor". Refer to chapter 8, topic "Conversion table for data communication".

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Chapter 6 Downloading and uploading

Overview

Introduction

Downloading and uploading occurs with the aid of the previously described COLBAS Editor. The "New VISOTOOL Editor" comprises a number of meaningful functions for data exchange from and to the communication partner. This chapter discussed the following topics:

- Overview and brief description of all download and upload processes
- Description of specific data transfers and specialties such as the block and error display

The following overview enables you to jump to any desired topic.

Topics in this chapter

This chapter discusses the following topics:

Topic	Page
Downloading options.....	44
Downloading a block.....	45
Analyzing and correcting errors	46
Downloading multiple blocks.....	47
Options for uploading.....	48
Uploading via command.....	49
Uploading multiple blocks	50
Predefined uploading	51

Downloading options

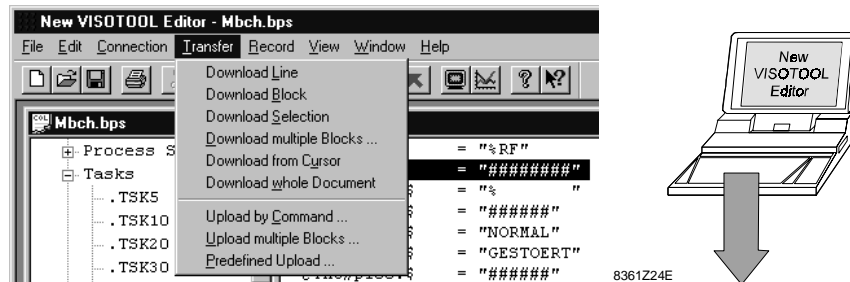
The "Transfer" menu

The "Transfer" menu comprises commands for a number of data transfers, segregated into two groups as follows:

- Downloading: Transfer from the "New VISOTOOL Editor" to the communication partners
- Uploading: Transfer from the communication partners to the "New VISOTOOL Editor"

"Download" menu group

The illustration below shows the "Transfer" menu with the different download options.



Actions via menu items

The single menu items in the download group are used for the following actions:

Menu item ...	load these document sections ...
Download Line, or F11	The line on which you place the cursor
Download Block, or F12	A single, highlighted block
Download Selection	A highlighted section
Download multiple Blocks	Several, selected blocks
Download from Cursor	Everything from the current cursor position
Download whole Document	The entire document

What is next?

The pages below discuss in detail the following types of download and the associated topics:

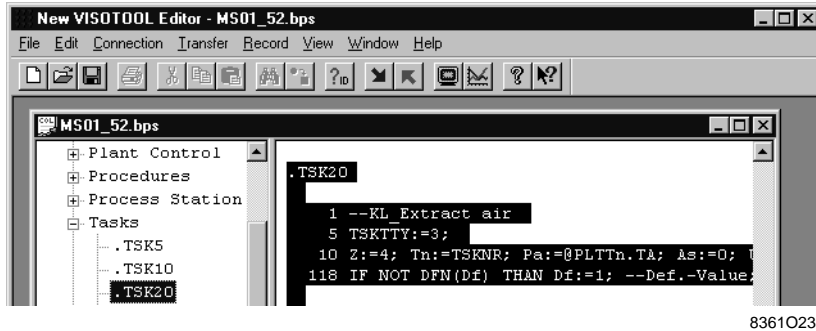
- Downloading a block
- Analyzing and correcting errors
- Downloading multiple blocks

After describing the download processes, we will discuss uploading.

Downloading a block

Purpose of this function "Download Block" enables you to easily and quickly download an individual block to the communication partner by directly selecting it in a document. These blocks are for example: 1 task, 1 procedure, 1 text, 1 data point with its parameters, etc..

Selecting a block In order to select a block for downloading, highlight it in the Contents display using the **left mouse button** or using the **arrow keys**; example TSK20 at the bottom of the Contents display.




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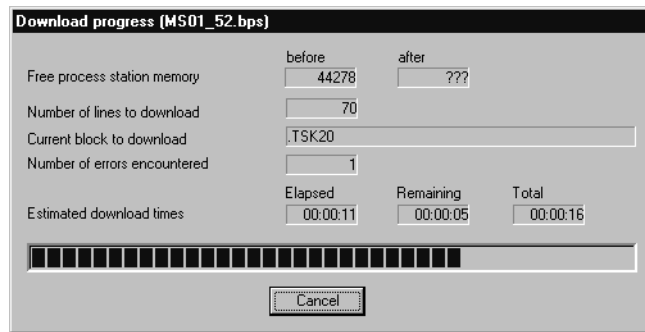
Selection notes You can display the associated content in the Editor window prior to downloading it (right hand side of illustration) via **double-click** or ENTER. After downloading, your selection is automatically removed to prevent accidental deletion.

Downloading



Proceed as follows to download the selected block:

- Select "Transfer" > "Download Block", or **F12** or click  with the mouse.
 - ⇒ An information window appears and after a moment (you can still cancel this action via "Cancel") downloading begins accompanied by a progress indication:



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Information in the progress indication The progress indication provides the following information on the download process:

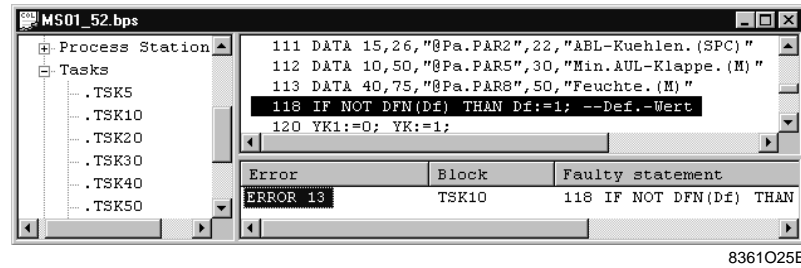
Information	Values for the above illustr.
Free process station memory; before / after	44394 / ???
Number of lines to download	70
Current block to download	TSK20
Number of errors encountered	1
Estimated download time; Elapsed / Remaining / Total	13 s / 02 s / 15 s
Progress indicator	Displayed indication

After downloading is finished, a value appears in the "after" field, indicating the remaining free process station memory. In addition, the progress indicator turns red on errors.

Analyzing and correcting errors

The error display

For both the download and the upload processes, each error is continuously added to the error display in the document window:



Downloading or uploading continues even if many errors occur. The error limit is as follows:

- For downloading 50 errors
- For uploading 20 errors

If this number is exceeded, the download or upload process is interrupted.

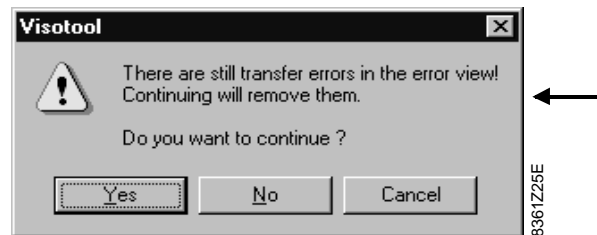
Error correction

After downloading or uploading is complete, you can analyze and correct the errors. To do this, use the following information and functions in the error display:

Column	Information / Function
Error	Designates the error such as Error 13. When you highlight this information or press F1 , context-sensitive help appears.
Block	Indicates the block containing the error. By highlighting and ENTER or by double-clicking it, the associated text is displayed in the document window (highlighted).
Faulty statement	Indicates the line containing the faulty statement.

Warning on closing the document

If you have not corrected all errors prior to closing the document, the following message appears:



Activate one of the following buttons:

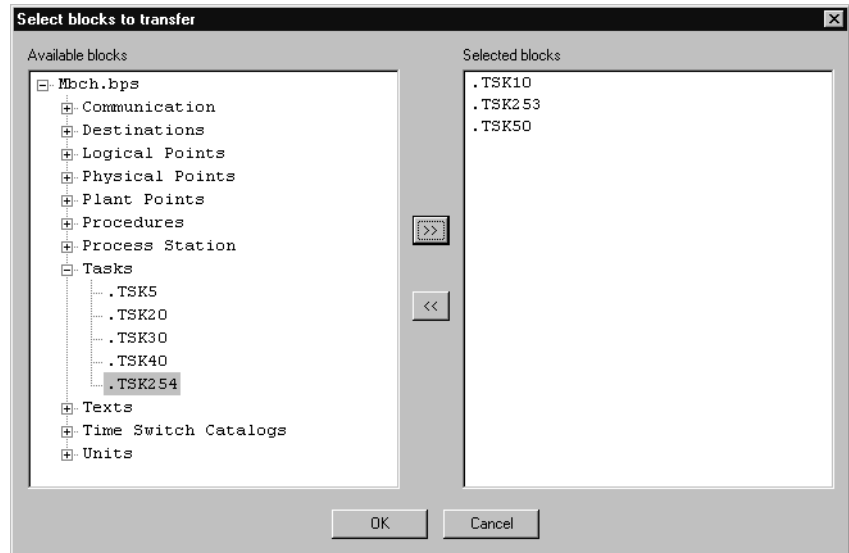
Button	Action
"Yes"	The document is closed — the contents of the error display will be lost!
"No" or "Cancel"	Returns you to the document to analyze and correct the remaining errors.

Downloading multiple blocks

Purpose of this function The "Download multiple Blocks" enables you to select and together download several blocks in **one** download process to a process station.

Selecting the blocks Proceed as follows to select the blocks:

1. Select "Transfer > "Download multiple Blocks".
⇒ The "Select blocks to transfer" window opens:



2. Select the desired blocks from the "Available blocks" box as follows:
 - With the mouse: First click the block, then the ">>" button
 - With the keyboard: Select the block using the **arrow keys**, then press **Insert**.
⇒ The selected blocks are transferred to "Selected blocks" field.
Note: When you press **Insert** on a highlighted category (e.g. tasks), all associated blocks are added.

Deselecting blocks Remove accidentally selected blocks from the "Selected blocks" field as follows:

- With the mouse: First click the block, then the "<<" button
- With the keyboard: Select the block using the **arrow keys**, then press **Delete**.

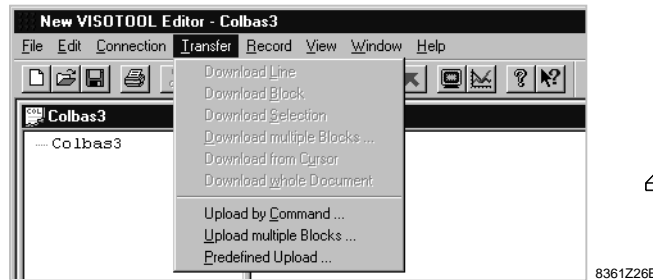
Downloading Click "OK":
⇒ Downloading occurs as described under "Downloading a block".

Error correction Refer to the previous topic, "Analyzing and correcting errors".

Options for uploading

Upload menu group

The illustration below shows the "Transfer" menu with the different upload options.



Upload functions

The menu items and the associated functions are:

Menu item	Function
Upload by Command	Initiates an upload to the partner
Upload multiple Blocks	Allows for selecting and uploading several blocks at once
Predefined Upload	Executes an upload selected from several, predefined variants

Prerequisites for uploading

The following are required for uploading:

- create a new document or
- open an existing document

Additionally, the respective document window must be active. Only then will the menu items be available for you to start the upload process.

Placing uploads

Uploaded data are inserted in the new document or attached to the end of an existing document.

Uploading via command

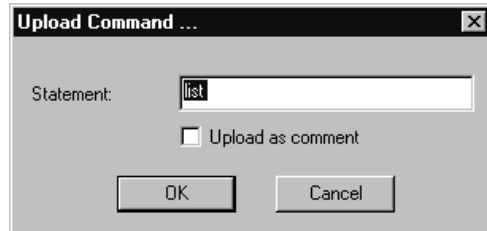
Purpose of this function Via "Upload by Command", you can, via an upload, adopt the result of any command to the communication partner in a new, empty document.

Uploading



Proceed as follows to upload data:


1. Select "Transfer" > "Upload by Command":
⇒ The "Upload Command" window opens.



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2. Adopt the "list" statement or enter the desired command in the "Statement" field.
3. Click "OK":
⇒ Uploading begins.

Operating hints

You can also directly start the "Upload by Command" by clicking the  button.

"Upload as comment"

When you select the "Upload as comment" checkbox in the above window, the loaded lines will have the (;) comment character and will be listed in the Contents display under the "Comments" directory.

This lines are ignored on later downloading.

Uploading multiple blocks

Purpose of this function When you use "Upload multiple Blocks", you can upload several selected blocks from the communication partner to the "New VISOTOOL Editor" via **one** upload process only.

Available blocks As a first step, all blocks available in the partner will be listed.

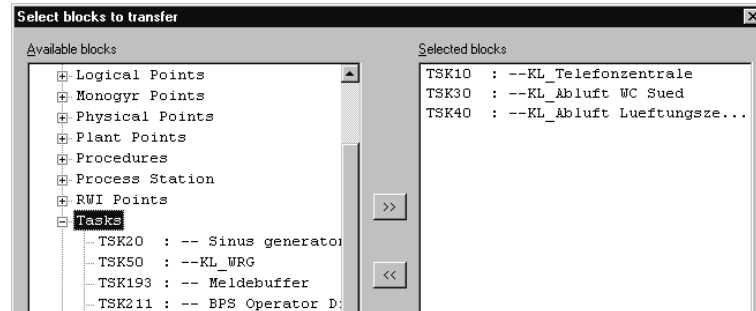
- Select "Transfer" > "Upload multiple Blocks":
 - ⇒ The "New VISOTOOL Editor" sends the appropriate commands to the partner (DIR * for the BPS) and acquires all existing blocks.

The pop-up window below serves as a progress indicator:



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Selecting blocks The Editor now displays all available blocks in the "Available blocks" field:

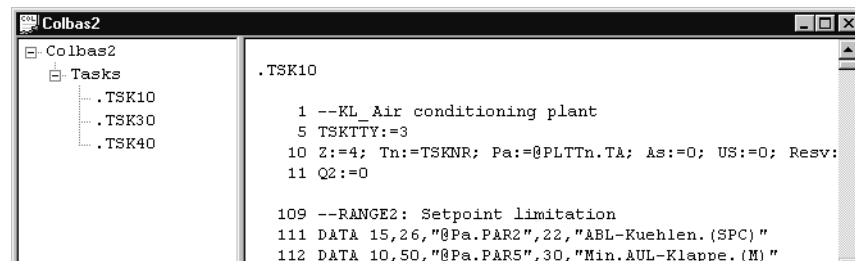


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Proceed as follows:

1. Highlight the desired blocks you want to upload and click ">>", or press **Insert**.
 - ⇒ The blocks are transferred to the "Selected blocks" field.
 - Note:* When you press **Insert** on a highlighted category (e.g. tasks), all associated blocks are added.
2. Start the upload process by clicking "OK" at the bottom of the window.
 - ⇒ The selected blocks are loaded in the open, active document.

Result of an upload The illustration below shows the result of the above selection (TSK10, TSK30, TSK40) after successfully uploading it to an empty COLBAS document.



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To the right are the uploaded contents, to the left the associated Contents display.

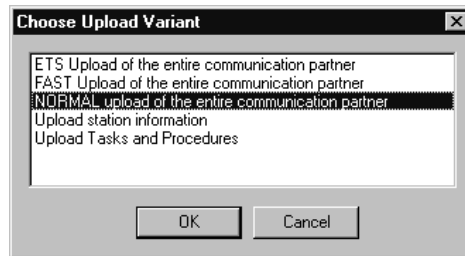
Predefined uploading

Purpose of this function The "Predefined Upload" command allows you to execute commonly used types of uploading which you can execute on a single command.

Example: VISONIK BPS In order to view a list of predefined uploads, select

- "Transfer" > "Predefined Upload"

⇒ A selection window for a VISONIK BPS as the communication partner opens.



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Contents of the BPS uploads

The table below contains a description of the above displayed types of upload:

Display name	Contents
NORMAL Upload of the entire communication partner	Default setting in the selection window: Loads all values required for downloading (full backup)
ETS Upload of the entire communication partner	Upload of the European Tool Set (ETS) Corresponds to variant "FAST" + P-bus Report + PS No. The ETS upload suffices for a backup In the case of downloading: Remove P-bus report!
Upload station information	Loads all header information, including P-bus report
Upload Tasks and Procedures	Loads all tasks and procedures
FAST Upload of the entire communication partner	For VISONIK BPS only: Loads all values that do not match the default setting (because the BPS knows all parameter default values).

Uploading Highlight the desired variant and confirm with **OK**.
⇒ Uploading begins.

Cancel uploading If you activate "Cancel" during the upload process, the communication partner nevertheless completes the task. The "New VISOTOOL Editor" transfers the remaining data to the back scroll buffer, but does not insert them in the COLBAS document.

Partner-dependent selection When you select "Transfer" > "Predefined Upload", the variants displayed do not always correspond to those in the above illustration. Instead:

- the upload selection depends on the respective communication partner and thus differs for EKL, PRV1, or BPS.
- when the VISONIK DCS is the connected partner, no uploads are available.

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Chapter 7 The Trend function

Overview

Introduction

The "New VISOTOOL Editor" Trend function fulfills the following purpose:

- Dynamic recording of process values from building automation plants
- Graphic display of the recorded values for a desired range
- Printout of the graphic display on a printer, or
- Copy of the graphic display to other applications in the form of an illustration or text.

In this chapter, we begin by presenting an application example, the most important features, and the Trend window's structure. Following the above, we provide a step-by-step introduction to the function: from defining a Trend profile to copying and saving the recorded values in other applications.

Topics in this chapter

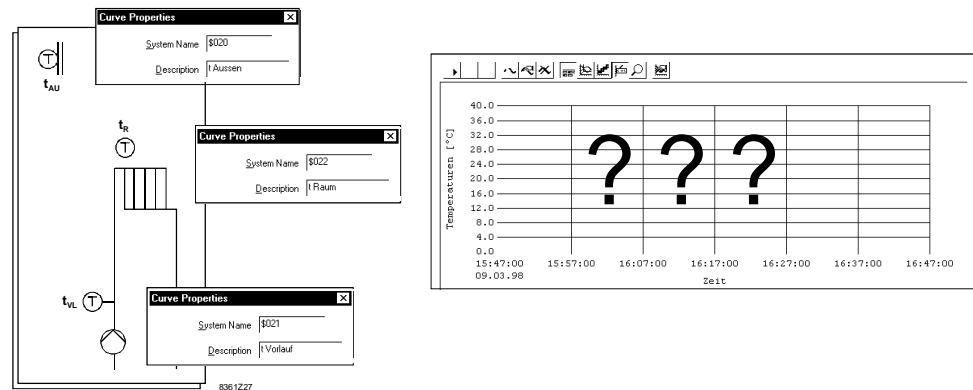
This chapter discusses the following topics:

Topic	Page
Example and features of the Trend function	54
The Trend window.....	55
Defining a Trend profile.....	56
Changing the	58
Defining a detailed display	59
Selecting an excerpt	60
Printing and copying recordings.....	61
Inserting a recording as a picture.....	62
Inserting a recording as text.....	63
Exiting recording	64

Example and features of the Trend function

Trend function example

Below is a simple application example for the Trend function. In this example, we want to check flow temperature control on morning start-up:



For this purpose, we need to define the three primary plant points as "Curve Properties" in the Trend window. These properties are for the above example:

- outside temperature t_{AU}
- room temperature t_R
- flow temperature t_{VL}

The Trend function, after having been started, acquires the required values at the defined intervals and continuously displays them in the Trend window.

Important prerequisites

The values to be recorded from the plants must be installed in the corresponding communication partner in the form of data points.

Features of the Trend function

The following are general features of the Trend function:

- The Trend function can only be used when a process station is the partner
- The function is online, i.e., recording only occurs when the Trend window is active (foreground or background)
- Only **one** Trend window can be open per "New VISOTOOL Editor"
- **10 values** can be recorded per Trend window
- Each value is displayed with its recording time (PC clock)
- The recorded values must be copied or printed **prior** to closing the Trend window; if not, the values will be lost.

The terminal has priority!

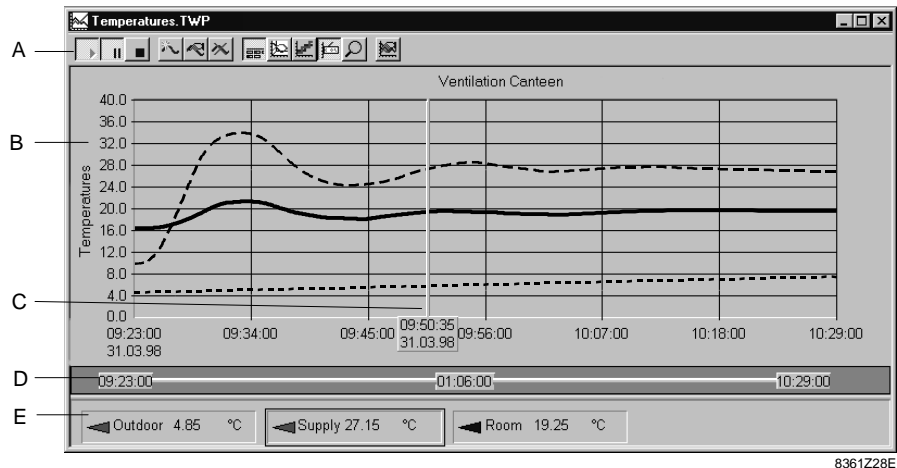
Of all "New VISOTOOL Editor" functions, the Terminal Emulator has the highest priority and Trend the lowest. Thus, during recording, you can conduct manipulations in the Terminal Emulator such as change operating states or setpoints to trigger new step responses.

Important: When you work in the Terminal Emulator during Trend recording, the recording may not be complete.

The Trend window

Picture of the Trend window

The picture below shows a Trend window with recorded data:



Individual sections in the Trend window

The sections of the Trend window are

Section	Display name	Function
A	Toolbar	The most important commands can directly be executed via the buttons (mouse operation).
B	Recording section	This is where the values defined in the Trend profile will be recorded online. This section can be adjusted.
C	Time bar	The time bar appears on right clicking the recording section. At the bottom of the time bar, the date and time of the respective location are displayed. The legend contains the associated values for each curve. On right clicking next to one of the Y-axis, the time bar is deactivated.
D	Range ruler	The range ruler enables you to change the displayed part of the recording section with respect to time.
E	Legend	The legend contains a field for each curve. The fields comprise the name, current value and the unit. The legend is also used to select the curves using the mouse or by actuating the left/right arrow keys. The selected curve's field is framed. By double-clicking or pressing the ENTER key on the framed field, the associated "Curve Properties" appear.

Quality characteristics

The legend additionally displays the quality characteristics of the recorded values. When the display only contains quantitative information, no action is required. However, if errors occurred during recording, additional information is displayed as shown below:



Display	Interpretation
? COM	Communications interruptions
? ERROR	COLBAS error
? VALUE	Received value is not numeric (e.g. text)

Defining a Trend profile

Opening a new Trend window



Proceed as follows to open a new Trend window:

- Select "Window" > "Trend"
or **F5**, or the  button:

⇒ An empty Trend window with the associated toolbar opens.




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Note: **F5** moves a previously opened Trend window to the background.

Defining curves



In order to acquire and record the values of a specific data point in the Trend window, you must first define the points. Do this by opening and completing the corresponding entry masks for each curve. Proceed as follows to define the values/curves of the data to be recorded:

1. Select "Edit" > "Add Curve"
or click 
⇒ The "Curve Properties" window opens.

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2. Complete all fields (see table below for help).
3. Confirm your entries with "OK".
⇒ The corresponding curve is transferred to the Trend window.
⇒ When you actuate "View" > "Legend", a corresponding field becomes visible at the bottom of the Trend window.
4. Define all other curves accordingly.

Entry fields

The table below contains the designations and the associated entries to define a curve in the "Curve Properties" window:

Designation	ENTER
System Name	Address (e.g. \$022) or valid COLBAS statement for the data point you want to record.
Description	Designation of the point (e.g. Room temp)
Unit	Associated measurement unit for the legend (e.g. °C)
Interval	Recording interval (e.g. 60 s)
Left / Right Y-Axis Scale	Relation of the values to the left or right Y-axis scale

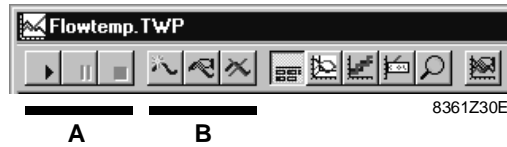
Saving Trend profiles

Save the Trend profile via "File" > "Save As" by entering a suitable name. Keep the define .twp file extension.

Recording

Introduction

Start the recording process after you have defined the desired curves. To record, use the two groups of toolbar buttons and menu items as shown below:






The two toolbar groups and the associated functions are:

- A** Control the recording process
- B** Add, change, delete curves

Controlling the recording




Use the first three toolbar buttons and the following menu items to control the recording:

Button	Menu item	Effect
	"Recording" > "Start Data Acquisition"	Recording of the desired data begins. This process continues until stopped via "Stop Data Acquisition". This button is active only when a connection to the partner exists.
	"Recording" > "Pause Screen Updates"	The curves on screen are no longer updated, but the recording continues in the background.
	"Recording" > "Stop Data Acquisition"	The recording is stopped.

After stopping the recording process, you can view, format and save all recorded data. Do not stop the process if you just want to view the interim status — use the Pause button instead!

Adding, changing, deleting curves

To add, change, and delete curves, use the following three toolbar buttons and menu items:

Button	Menu item	Effect
	"Edit" > "Add Curve"	The "Curve Properties" window opens to enter a new curve.
	"View" > "Curve Properties"	The "Curve Properties" window opens for the selected curve. You can change the data.
	"Edit" > "Remove Curve"	Removes the selected curve and deletes the recorded data!
	"Edit" > "Discard Curve Data"	Deletes the recorded values for the selected curve. The recording continues.
	"Discard all Curves' Data"	Same as before, but for all curves.

Selecting curves

Curve selection for the commands "View" > "Curve Properties" and "Remove Curve" relate to the curve selected in the legend.

Changing the layout

Introduction

You can adjust the recording display's layout in many ways to your requirements or wishes. When you use the toolbar buttons of group C, you can easily and quickly change the layout.








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Buttons and menu items

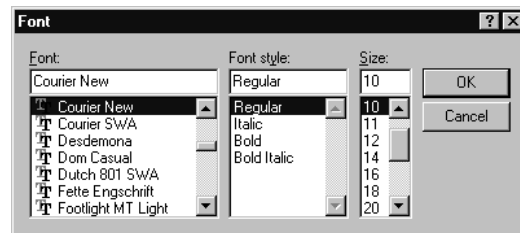
The table below contains the individual buttons and menu items for group C:

Button	Menu item	Effect
	"View" > "Legend"	Activates the legends (default setting on starting the Trend window)
	"View" > "3D"	Displays the curves in three-dimensional view
	"View" > "Step Lines"	Displays the curves in stepped form — from one recorded point to the next.
	"View" > "Curve Labels"	Attaches a label to the curve at the left Y-axis. The label moves in the Y-axis direction.
	"View" > "Zoom"	Use this command only on "Pause" or "Stop". In this case, proceed as follows: <ol style="list-style-type: none">1. Click the button:2. Select the desired range (pull the frame) with the mouse (arrow) and release it: ⇒ The selected are is zoomed in the existing window.

The following applies to the above buttons and menu items: You can undo the option by re-executing the action; for "Zoom" function the previous display is restored.

Selecting fonts

Select the font and the font size for all labels in the recording section via "View" > "Fonts".



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The selected font applies to the entire application!

The font that you select via "View" > "Font" applies not only to the Trend window but to all other documents in the document window!

The Terminal Emulator font is unaffected by the font selection. This font takes the setting from the "Terminal" tab via "Connection" > "Properties".

Defining a detailed display

Introduction




Use the settings in the "Chart properties" window to define in detail the display of the recordings.



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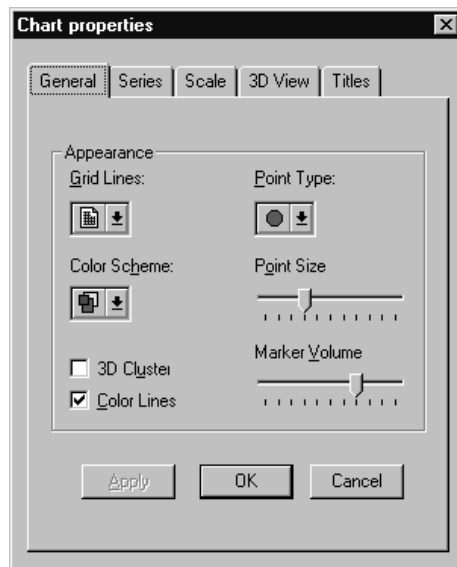
D

Proceed as follows to open the "Chart properties" window:

- click  or
- select "View" > "Chart Properties"

The "Chart properties" window

The "Chart properties" window contains a number of tabs:



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Tabs and chart options

The most important chart options that you can make via the single tabs are listed below:

Tab	Chart options
General	Grid Lines, Color Scheme, Point Type, and Point Size
Series	Display of the individual curves for a recording
Scale	Division and scale of the X- and Y-axes
3D View	3D display
Titles	Entry of titles (top / bottom) and axis labels



Details on chart options

Refer to chapter "Reference", topic "Trend window settings" for more information on the single tabs of the "Chart properties" window.

Selecting an excerpt

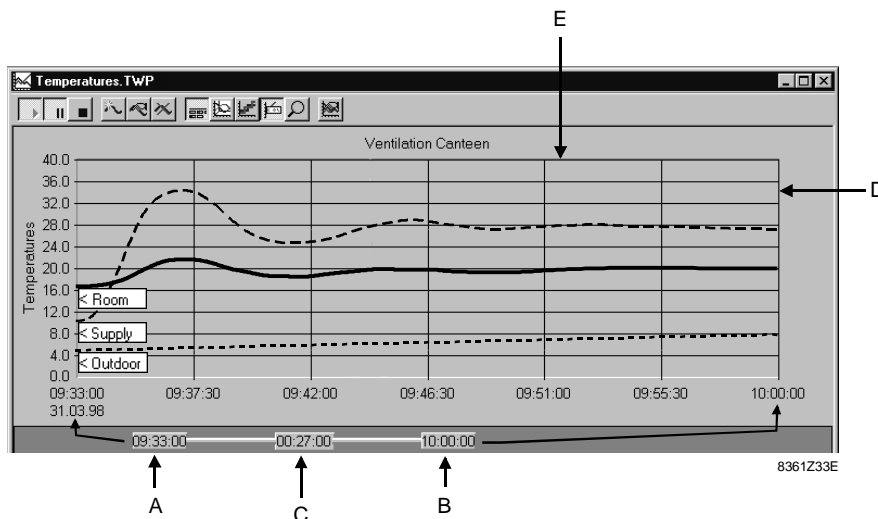
Requirements

You can select any excerpt of the recorded values for later printing or copying. However, before you do this, you need to do the following:

- pause the recording on screen by clicking  or via "Recording" > "Pause Screen Updates" or
- stop the recording by clicking  or via "Recording" > "Stop Data Acquisition".

Example

The illustration below shows a Trend window with a time excerpt of the recorded data:



Mouse operation

Select the desired excerpt from the recorded data by dragging the range ruler with the mouse. Additionally, you can modify the height and width of the chart accordingly. The table below contains information on the function of the various excerpt points:

Point	Function
A	Defines the beginning in time of the chart (left side)
B	Defines the end in time of the chart (right side)
C	Defines the time span of the selected excerpt. You can move the excerpt along the time axis of the recorded data by dragging it to the left or right.
D	Modifies the chart width (contents remain unchanged)
E	Modifies the chart height (contents remain unchanged)

Keyboard commands



Proceed as follows to create the desired excerpt using the keyboard:

1. Select "View" > "Set Visible Time Span"
2. Enter the desired time span in the new window.
3. Move the excerpt along the time axis by pressing the following keys:

Key	The excerpt moves...
PG UP	to the left by the set time span
PG DN	to the right by the set time span
Home	to the beginning of the recording
End	to the end of the recording

Printing and copying recordings

Introduction

The values recorded via the Trend function are available only while the Trend window is active. During this time, you can use one of the following options to print, edit and save the data:

- Directly printing the Trend window
- Copying the Trend window to a different application

Directly printing the Trend window

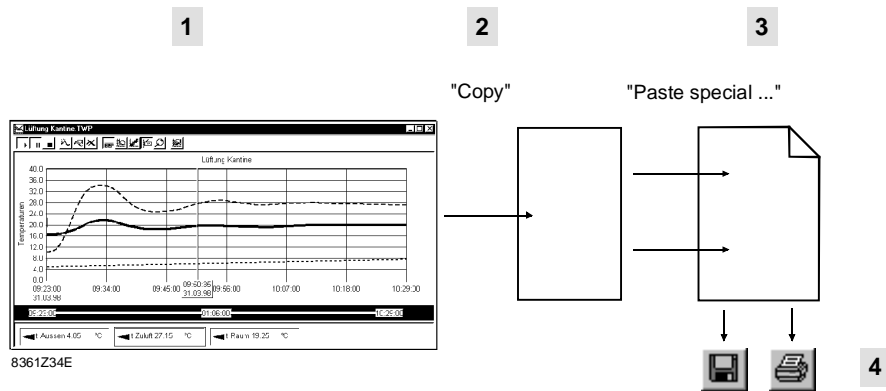
Proceed as follows to directly print the Trend window to the Windows standard printer:

- Select "File" > "Print":
 ⇒ The excerpt in the Trend window is printed with all properties as selected via "View...", but without time bar and legends.

Copying the Trend window

Use "Edit" > "Copy" or press **Ctrl+Insert** to copy the Trend window to a different application.

This action copies the data of the excerpt to the Windows clipboard from where they can be inserted in a different Windows application. The illustration below shows the basic procedures involved:



Step-by-step procedure

The table below describes the individual steps and the involved elements:

Step	Task / Involved Elements
1	Define the recording display in the Trend window
2	Copy the data to the clipboard via "Edit" > "Copy": ⇒ the bitmap (picture) and the text are copied
3	Insert the bitmap or text from the clipboard in the target document via "Edit" > "Paste Special". Highlight the desired type of data in the selection window: <ul style="list-style-type: none"> – "Text" ⇒ inserts the number values – "Bitmap" ⇒ inserts the picture
4	Save and print the data in the target program

Notes on step 3

You can, of course, insert the text and the picture **in sequence** in the same document via "Edit" > "Paste Special".

You can also use "Paste" or the corresponding button to insert the text and picture. However, with "Paste", the respective application determines if the text or the picture will be inserted. For example, Winword will select the text which may not be your intention.

Inserting a recording as a picture

Application and features

You can easily insert a recording from a Trend window in a different Windows application; refer to the previous topic "Printing and copying recordings". Typical examples for inserting a picture are:

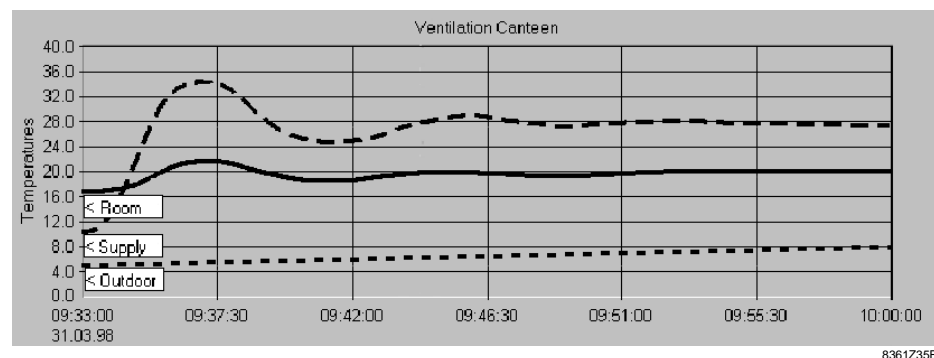
- text processing programs such as Winword, etc.
- picture editors such as Windows Paint, Paintshop Pro, etc.

The chart display of the recording is adopted to match that on screen, i.e.:

- using the selected time span
- using the selected height, with or without time bar and legend
- as a colored chart or in grayed

Example: Grayscale bitmap

The illustration below is an example for a grayscale bitmap copied from the "New VISOTOOL Editor":

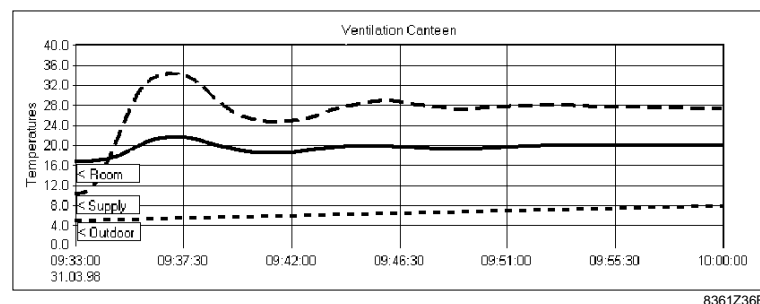


Please note that only the recording area was selected — without range ruler and legend. Instead, the "Curve Labels" (Room, etc.) are displayed. In grayed pictures, these labels provide better information.

Refer to the topic "The Trend window" at the beginning of this chapter for an example with range ruler and legend.

Alternative conversion to line art picture

Many picture editor programs have the "Convert to line art" function (monochrome). If the picture does not have to be in color, this may be a viable alternative as shown below:



Additionally, the conversion significantly reduces the file size (tenfold or higher). Thus, the above grayscale picture was reduced from 633KB to 30KB.

You can then save the line art picture in the picture editor program and insert it in your target application such as Winword.

Inserting a recording as text

Purpose and features

You can easily insert number values in the form of text from a recording in the Trend window in different Windows applications such as Excel. This allows for the following:

- retrieve these number values at a later time
- create your own charts using these values

The copied text of a recording comprises the following information:

- values of the associated points
- associated time stamp
- quality characteristics

Procedure to transfer a recording

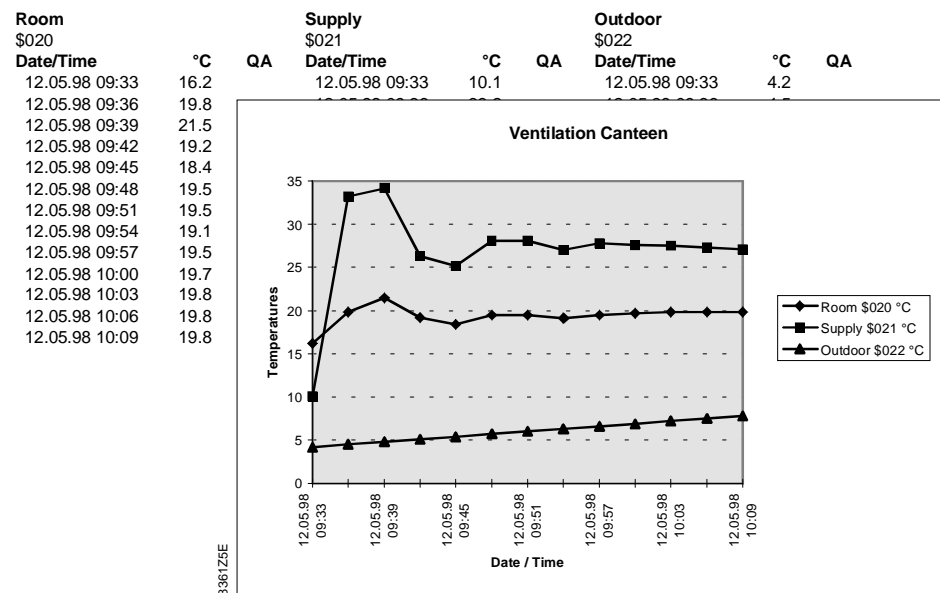
Proceed as follows to transfer number values of a recording:

1. Select the desired time span in the Trend window — only the number values of the **selected** excerpt will be transferred.
2. Choose "File" > "Copy":
⇒ The files are copied to the clipboard.
3. Open the target application (e.g. Excel) and a new document.
4. Position the cursor on the desired cell at the beginning of the document.
5. Choose "Edit" > "Paste" or "Edit" > "Paste Special" > "Text".
⇒ The data sequences of the individual curves including the associated labels and units are transferred to a corresponding number of columns.

You can now edit the data and save them in the target application following normal procedures.

Example

The example below shows a recording that was copied and edited in Excel.



Explanations (illustration)

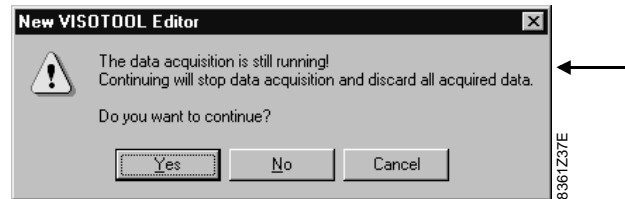
The background contains the numbered lines as they appear in Excel following insertion. The foreground shows the chart as created from the number values. We then highlighted this common part of the worksheet and transferred it to this document via "Edit" > "Paste Special" > "Microsoft Excel Object".

Exiting recording

Exiting a recording

Close a recording by actuating "File" > "Exit".

The message below alerts you to the fact that on exiting the Trend window, all recorded data is deleted.

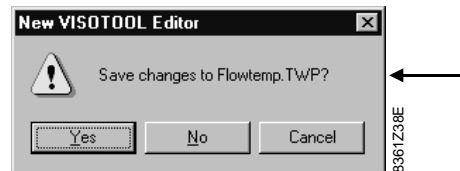


You can now either:

- return to the Trend window by clicking "No" or "Cancel", or
- continue with "Yes".

Saving Trend profiles

If you saved the Trend profile following definition of the individual curves and you have not subsequently changed the curve properties, the Trend window is closed on "Yes". If some changes have not yet been saved, the following message appears:



You can now either:

- save the current curve settings (the "Curve Properties") as a Trend profile under an existing name (here: "Flowtemp.twp") by clicking "Yes"
- discard the changes by clicking "No"
⇒ the Trend window closes
- return to the Trend window by clicking "Cancel".

If you have not yet saved the Trend profile, the same message appears, but for a default file name (e.g. Trend1).

When you click "Yes", the "Save As" window opens and you can save the Trend profile under any name.

Saving chart properties

Please note the differences between "Curve Properties" and "Chart properties" in terms of allocation and saving:

- "Curve Properties" are **individually** allocated to each .twp Trend profile and are always saved with the profile on either profile definition (see earlier in this chapter) or at the end of the recording (see above).
- "Chart properties" are **global** attributes for the Trend window and not for a single, defined Trend profile. Save these properties via: "View" > "Save Chart Properties" Consequently, no automatic message appears on exiting the Trend profile.

The "Chart properties" can be saved at any time.

When you save the chart properties, the positions of the following three buttons are also saved:

Chapter 8 Reference

Overview

Introduction

The "Reference" chapter provides detailed information on various topics of the "New VISOTOOL Editor". The contents listed below offer an overview of the topics.

Topics in this chapter

This chapter discusses the following topics:

Topic	Page
Comparison of VISOTOOL Editor old/new.....	66
List of supported VISONIK units	68
Conversion table for data communication.....	69
Communication settings.....	70
Trend window settings	72
Summary of keyboard commands	74

Comparison of VISOTOOL Editor old/new

Introduction

The tables below contain a functional comparison between the VISOTOOL 4.0 Editor (old) and the "New VISOTOOL Editor" (new):

Communication

Functions	old	new	Comments on the new tool	Details
Communication via V.24 with all VISONIK stations	Yes	Yes	Same functionality, based on standard software	Chpt. 2
Communication with units on the local area network (LAN)	No	Yes	Support "Named Pipes" via protocols, e.g.: TCP/IP, IPX/SPX, etc.	Chpt. 2
Partner identification for all VISONIK stations	Yes	Yes	Automatic and cyclical identification	Chpt. 3
Dial-up communication with standard modems. Phone book that you can edit	Yes	Yes	Same functionality, based on standard software (phone book)	Chpt. 3
Kermit protocol for data exchange with DCS and PCs	Yes	No	Must be added separately	-

Online Mode

Functions	old	new	Comments on the new tool	Details
VT220 Terminal Emulator (incl. graphics) to communicate with VISONIK stations	Yes	Yes	Same functionality, based on standard software (no ReGis graphics mode)	Chpt. 4
Selectable cursor response: – normal (VT100 keyboard) – Edit bar – Last commands	Yes	Yes	Same functionality as in VISOTOOL Editor 12.50	Chpt. 4
Back scroll buffer	No	Yes	max. 1000 lines	Chpt. 4

Up- and downloading

Functions	old	new	Comments on the new tool	Details
Transfer of COLBAS code and point configurations from and to process stations (fully or partially)	Yes	Yes	Same functionality as in VISOTOOL Editor 12.50 New block handling	Chpt. 6

Options

Functions	old	new	Comments on the new tool	Details
Calling other DOS programs from the Editor.	Yes	Yes	This function is now a part of the operating system	-
DOS Shell	Yes	Yes	ditto	-

Continued on the next page

Comparison of VISOTOOL Editor old/new, *continued*

Offline Editor (old F6)

Functions	old	new	Comments on the new tool	Details
Universal text editor	Yes	Yes	Enhanced functionality based on standard software. Data exchange via clipboard.	Chpt. 5
Uploading/downloading of code portions from and to process stations	Yes	Yes	Same functionality, but implemented differently	Chpt. 5
Text printout for line printer	Yes	Yes	Enhanced functionality due to adding all printers supported under Windows, plus Preview	Chpt. 5

Online Editor (old F5)

Functions	old	new	Comments on the new tool	Details
Data from the communication partner's RAM can be loaded, edited and retransferred.	Yes	(Yes)	Implementation different in the "New VISOTOOL Editor" (Offline Editor / up- and downloading)	Chpt. 5

Help

Functions	old	new	Comments on the new tool	Details
General operating help	Yes	Yes	B8361 User's Guide as integrated in the Windows Help System	-
COLBAS error numbers	Yes	Yes	Context-sensitive and within the Windows help system	Chpt. 5
Points and parameters	Yes	Yes	Context-sensitive and within the Windows help system	Chpt. 5

Recording of dialogs

Functions	old	new	Comments on the new tool	Details
Recording of dialogs with VISONIK units: The data can be sent to a printer, a file or an offline Editor.	Yes	(Yes)	Reduced functionality: Recording on printer or in file	Chpt. 4

Online Trend

Functions	old	new	Comments on the new tool	Details
Definition of Trend profiles	Yes	Yes	Same functionality, but implemented differently	Chpt. 7
Presentation of recorded data	Yes	Yes	Trend window with various display options. Copy via clipboard	Chpt. 7
Export of the recorded data as ASCII file in Excel	Yes	(Yes)	With "Copy" and "Paste Special"	Chpt. 7

List of supported VISONIK units

Possible partner and functionality

All VISONIK units with a serial interface (V24, RS232) are eligible for communication with the "New VISOTOOL Editor".

However, not all units have the same functionality at this interface. The "New VISOTOOL Editor" provides the same functionality for each unit as the previously available tools (valid if not otherwise specified).

In general, the "New VISOTOOL Editor" supports the most recent version of the units.

The tables below list all supported process stations and VISONIK DCS. The "Comments" column additionally contains the available functions for the respective unit.

Minimum functionality

All process stations and VISONIK DCS are supported at a minimum with partner identification and terminal operation (VT220).

Process stations

These are the supported process stations:

Unit	Version	Comments
EKL-S	5473	Functions can be used similar to the old VISOTOOL Editor.
EKL-S	5481	ditto
EKL-X	5470	ditto
EKL-X	5472	ditto
EKL-X	5480	ditto
CFE	5480	ditto
PRV1.xx	2.xx	ditto
PRV1.xx	4.xx	ditto
PRV1.xx	6.xx	ditto
PRV2.xx, BPS	V12.xx	ditto
PRV2.xx, BPS	>=V14.xx	Full functionality of the new VISOTOOL Editor is available.

VISONIK DCS

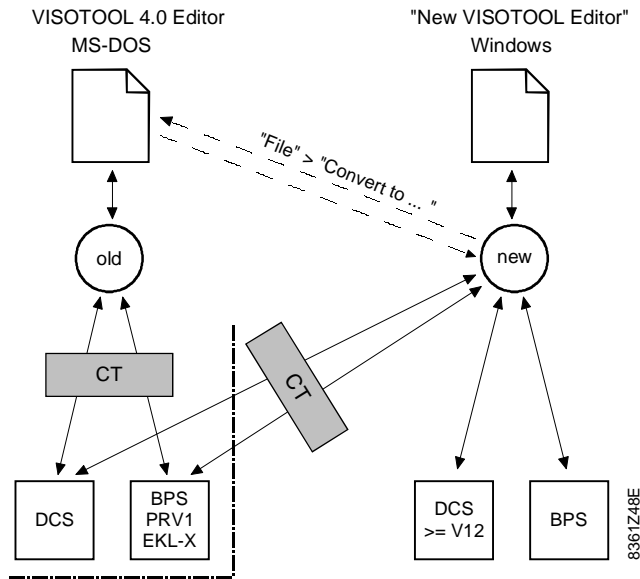
These are the supported VISONIK DCSs:

Unit	Version	Comments
DCS	V12.xx	8-bit character set ISO Latin 1 No data exchange via KERMIT
DCS	>= V14.xx	8-bit character set ISO Latin 1 No data exchange via KERMIT

Conversion table for data communication

Situation before / new

The drawing below is a life snapshot of today's situation on transition from the VISOTOOL Editor 4.0 to the "New VISOTOOL Editor", or from DOS to the world of Windows. The left depicts the previous situation, the right the new situation:



Explanations on the drawing

At the top of the drawing is the conversion of existing **project files**. Refer to chapter 5, "Converting documents". The following explanations refer to **data communication** with the partner stations. They are intended to show when a conversion table needs to be created in the "New VISOTOOL Editor":

Situation Explanation

- "old" The VISOTOOL 4.0 Editor runs on the country-specific DOS character set of the respective PC. The partner stations all use the 0 ... 127 ASCII character set. Thus, a conversion table (CT) was required for data communication and to ensure operation of the VT100 Terminal.
- "new" The "New VISOTOOL Editor", is a Windows application and uses **ISO Latin 1** (=ANSI = Script Western). This set is used also by VISONIK units from V12 onward. For that reason:
 - ⇒ When communicating with partner stations V12 and higher, no conversion table is required in the "New VISOTOOL Editor".
- "new" When communicating with earlier partner stations, a test is needed:
 - ⇒ If the "New VISOTOOL Editor" receives odd characters from the partner,
- "old" you need to create a conversion table.

Creating and activating a conversion table

The **CommConversion.cnv** file is the conversion table for the "New VISOTOOL Editor". Open the file with the COLBAS Editor and create the tables for both directions in accordance with the prescribed syntax and the examples; see below for partner "New VISOTOOL Editor".

[CommToAnsi]

; Syntax : CharXXX=YYY
 ; XXX is the decimal representation of the character to convert
 ; YYY is the decimal representation of the resulting character
 ; eg: **Char199=128**

Activate the conversion table via "Connection" > "Use Conversion Table".

Communication settings

The "Properties" menu

Specify the settings of the respective connection type (Comm Port, Named Pipe, TCP/IP, Telephony) via the "Connection" > "Properties" menu. The first tab is connection-type-specific such as "Comm Port". The remaining three tabs are always "Flow Control", "Identification", and "Terminal".

The following sections discuss the individual tabs and the setting options. Please remember the following:

- the **default values** are in **bold print**
- properties with an asterisk (*) are subject to the default setting of the respective partner.

For our example, we will use the VISONIK BPS as the partner.

"Comm Port" setting options

The illustration below shows the "Comm Port" tab and the setting options:

COM1 to COM8

200 - 2400 - 4800 - 9600 - etc., up to 57600

Data Bits: 5 - 6 - 7 - **8**
Stop Bits: 1 - 1.5 - 2

None - Odd - Even - Mark - Space

None - Hardware (RTS/CTS) - **Software (Xon/Xoff)**

"Flow Control" setting options

The illustration below shows the "Flow Control" tab and the setting options:

None - Wait for character echo - **Wait for line echo**

2 - 1000

Wait for end line character - Wait for line feed

0 ... **5'000** ... 10'000

0 ... **10'000** ... 60'000

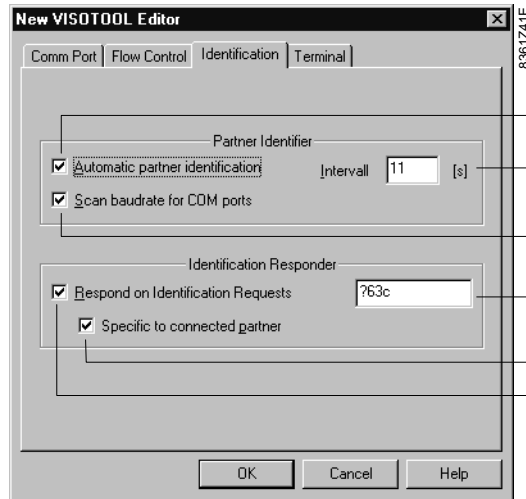
Wait for end block character - Wait for timeout - Wait for user abort

Continued on the next page

Communication settings, *continued*

"Identification" setting options

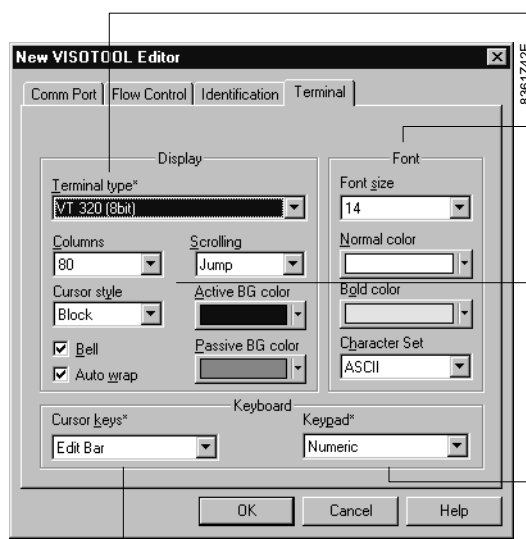
The illustration below shows the "Identification" tab and the setting options:



- yes / no
- 10 ... 11 ... 60 s
- yes / no
- Default entry **?63c**
means: "I am a VT320"
- yes / no
- yes / no

"Terminal" setting options

The illustration below shows the "Terminal" tab and the setting options:



- VT 100 - VT 220 (7bit) -
- VT 220 (8bit) -
- VT 320 (7bit) - **VT 320 (8bit)**
- Font size: 8 - 10 - **14** - 19 - 22
- Normal color: **white** (20 colors)
- Bold color: **yellow** (20 colors)
- Character Set: **ASCII**, British, German, etc.
- Number of columns: **80** - 132
- Cursor style: **Block** - Underline
- Bell: **yes** / no
- Auto wrap: **yes** / **no**
- Scrolling: continuous - **Jump**
- Active BG color: **blue** (20 colors)
- Passive BG color: **grey** (20 colors)
- Numeric** - Normal VT keys
- Normal VT keys -
- Edit Bar** - Last commands

Trend window settings

Introduction

Use "View" > "Chart properties" to design the recording display in the Trend window. The five tabs provide a multitude of individual settings. These tabs are briefly presented below. The illustrations show the **default values**.

"General" tab

Use the "General" tab to define the general display of the Trend window with regard to grid lines, color scheme, point types and point sizes:

Grid Lines:

- None
- Horizontal
- Vertical
- Both

Color Scheme:

- Solid
- BW Patterns
- Color Patterns

3D Cluster

Color Lines yes / no

Point Type:

- None
- Rectangle
- Circle
- Triangle
- Marble
- Cube
- Variable (autom. per line)

Size of the above selected points

Volume of 3D segments

8361Z43E

Hint for black and white recordings

In this case, do not use the "BW pattern" but instead, use "Solid" and combine it with "Point Types, Variable" and "Color Lines, no" as well as "Points, yes" ("Series" tab).

"Series" tab

Use the "Series" tab to assign specific display properties to each defined curve.

Defined Curves:
Select the curves in this field

Properties:

- Multiple
- With point markers
- Show associated values
- Borders framing the 3D segments
- Connecting lines between the points

3D line properties if 3D View is selected:

Colors:
Panel with 49 colors, valid also for normal curves

3D lines have different properties

Thickness of 3D lines:
Enter a number or move slider

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Continued on the next page

Trend window settings, *continued*

"Scale" tab

Use the "Scale" tab to define the axes and their scales.

Main axis: Y / X

Main Y-axis:
 - Minimum
 - Maximum
 - Scale unit
 - Decimals

Increment:
 - Automatic
 - Fixed

Zero axis: yes / no

Y-axis scale:
 - Linear
 - Logarithmic

if increment fixed: Factor

if increment log.: Factor

"3D View" tab

Use the "3D View" tab to add a three-dimensional view to the display. In contrast to the other tabs, the illustration below does not show the default settings (3D, no), but all 3D options:

Indication of X and Y angle

Angle of X-axis

Angle of Y-axis

Preview

Depth in the room: smaller / bigger

Simple 3D View (fixed axis)

Full 3D View (variable angle of axis)

Shadows (on the walls)

"Titles" tab

Use the "Titles" tab to label the Trend window.

Title on top (centered)

Title for Y-axis left

Title for Y-axis right

Title at the bottom (centered)

Summary of keyboard commands

Introduction

The following section comprises a selection of keyboard commands that are needed for working with a service PC without mouse. The following are listed:

- Specific keyboard commands for the "New VISOTOOL Editor"
- standard commands of Windows 95 which may not be familiar to the mouse user.

In the Terminal window



You can use the following key combinations in the Terminal window:

Keys	Function
F4	1. Activate the Terminal window 2. Maximize / restore (original size) the Terminal window
Alt+arrow keys	Scroll the back scroll buffer: up / down/ left/ right
Alt+PG UP↑ / PG DN↓	As above, but moving by pages
Arrow keys up/down	Depending on the partner — and when set in the "Terminal" tab — the Edit Bar appears; see "Editing with the Edit Bar".
Ctrl+letter	Sends all Ctrl-commands as per VT100 rules to the connected partners. For instance: Ctrl+P, Ctrl+E, Ctrl+H, etc.
Esc	Deactivate Terminal window, return to COLBAS document

Refer to the various topics on the Terminal Emulator, chapter 4, for more information on specific key combinations.

In Windows document windows



Use the following key combinations for the Windows document windows (incl. COLBAS Editor):

Keys	Function
Ctrl+F6	Moves from one document to the next when several are open
F6 / Shift+F6	Switches from one display to the next within the COLBAS document
Alt+minus key	Shows the menu commands for the document window (min., max., etc.)
Shfit+arrow keys	Highlights the text across the desired range
Alt+letter	Mnemonics activate the respective Windows menu commands and open the selection windows
Ctrl+F4	Closes the active file

In Windows selection windows



Use the following key combinations in selection windows such as phone book and font selection as well as block selection for uploading and downloading.

Keys	Function
Tab	Open the desired selection list or jumps to a button
Arrow keys, all	Select an entry from drop-down list boxes (e.g. a dial-up communication partner)
Insert / Delete	Select / deselect blocks for transfer
ENTER	Confirm / execute a selected option

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