Honeywell

Operating instructions

WINMAG plus
Item No. 013610

PC Control Software for
Windows 2003 / Windows XP pro
Windows Vista

Table of contents

Introduction

The WINMAG plus-Documentation consists of the following documents:

♦   the Installation instructions (P03126-26)

♦   the Operating instructions (P03126-03)

♦   the WINMAG Lite operating instructions (P03128-03)

♦   the Programming manual (P03126-05)

♦   Lists of the i/o devices and tables for WINMAG plus / WINMAG Lite (P03126-24) with
      – tables of the types of i/o devices, symbols, alarm types,...
      – Novar lists of the connectables i/o devices

Additionally there are special Honeywell lists available with connectable components.

Symbols

This manual contains the following symbols that refer to sections of special importance:

Denotes important information on procedures and warns against steps that have serious consequences.

Denotes important information on a particular issue and other useful information.

Denotes important information on the installation.

Tips on programming/installation as per the directives of the German Association of Property Insurers.

1.   General

1.1   What is WINMAG plus

WINMAG plus is a modular PC-based security management system for hazard detection systems that can be configured as per your requirements

● Running under the operating systems WINDOWS 2000 (up to version 1.xx), WINDOWS 2000, WINDOWS XP professional and Windows Vista (from version 2.xx on).

● Innovative, convenient and configurable user interface

● Alarm processes and alarm conditions that can be adapted to your requirements

● With macro functions

● Flexible, windows-orientated graphics

● A variety of user entitlements

● Configurable as single or multi-user system or as a distributed system

● With connection of peripherals via PC interfaces, PC networking and modems (analog and ISDN).

● With "open" interface to different systems

● With connection modules to third-party products (central units, video matrix switches,

    building services management systems) ....

● Connection to third-party products can also be executed by user

WINMAG plus offers convenient, uniform, PC-based operating and control of the alarm systems connected including message evaluation, alarm signalling and message processing that can be adapted to your requirements.

WINMAG plus runs as single-user system on one PC networked via IGIS network or PC-Network with TCP/IP. WINMAG plus can process data from various networks such as the Honeywell IGIS network, the Honeywell IGIS loop network, the event protocol, modem networks and output data that can be individually configured:

 - Graphics with dynamic symbols

 - Tables

 - Individual program processes (e.g. alarm program)

 - Output at several printers

 - Logging in database and files

WINMAG plus data are stored in a protected, coded database.

WINMAG plus incorporates a global editing environment and a variety of examples.

The operating mode of the WINMAG plus system is based on data received from linked networks, modem or from PCs and the comparing of the data received with those conditions stored in the system. All messages are provided with an unambiguous address created from network number, device address and I/O device.
Every device is given an unmistakable name as well as an evident address within the network. The i/o devices incorporated in the system are numbered in accordance with a fixed schema and can be given configurable names.

If a message received fulfils a triggering condition, an individual program can be started to process the message.

A basic requirement for the programming of the WINMAG plus control software is knowledge of the components to be connected.
To prevent input errors, we recommend you to compile a precise list of the components to be connected.
As the free programmability of the WINMAG plus control software offers numerous possibilities, the user should clearly specify implementation requirements.

We assume that you are familiar with using your PC as well as working with *Windows 2000/ 2003, Windows XP* and *Windows Vista*. If this should not be the case, please refer to your PC user manual and the user manuals for *Microsoft Windows 2000/2003/Windows XP, Vista*.

Configuration (Example)

Notification
IGIS
WebCam
BACnet / IP (Annex J)
OPC-Client
OPC Data Access
OPC Alarm & Event
Internet
ESSER NET
IGIS LOOP
access control
MODEM
PC-Network
IGIS
emergency exits
Serial interface
RS485
Modem
PC-Network
IGIS
IGIS
video matrix
Intrusion detection systems
Fire detection systems
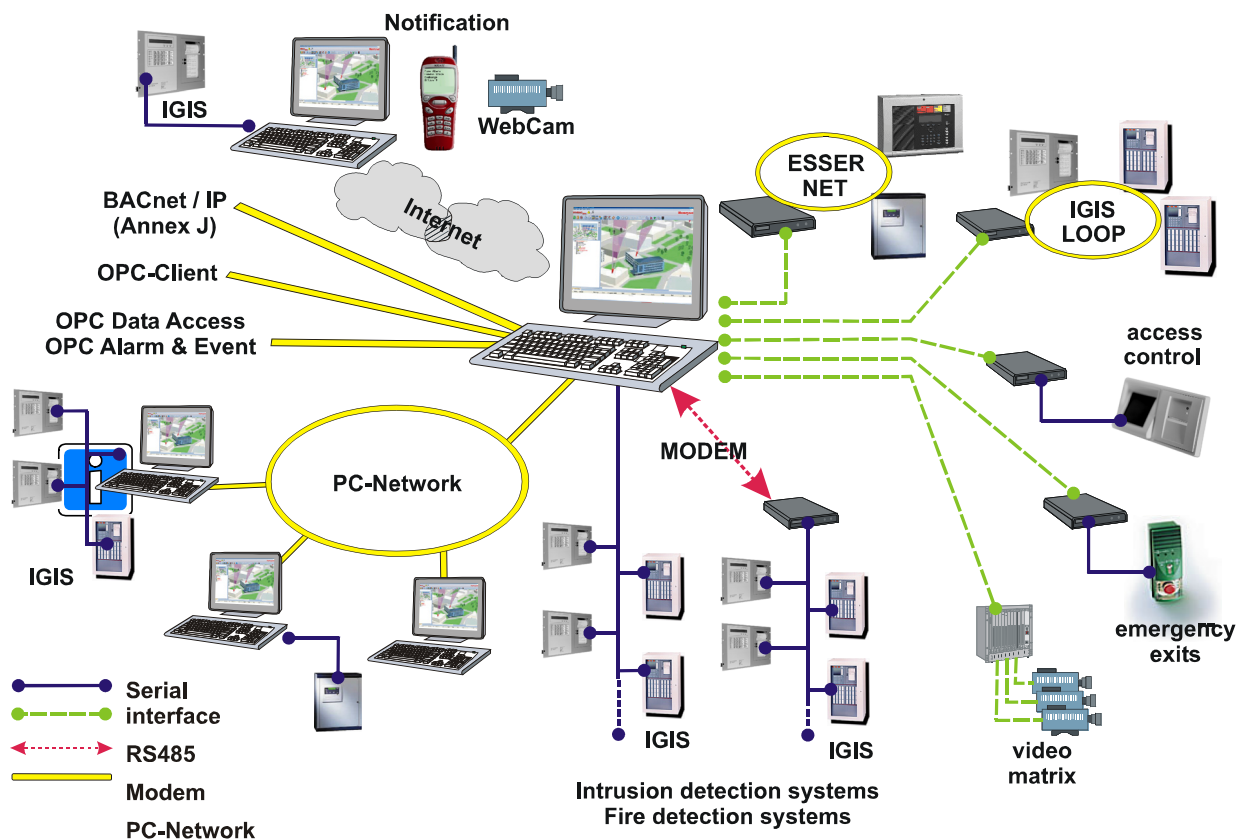
1.2   Why WINMAG plus?

WINMAG plus unites different systems under one user interface.

As WINMAG plus unites different systems under one user interface, the operation and the monitoring of individual components is highly simplified. The user does not need to have detailed knowledge of the components connected.
Configuration of the control program can be executed as per user requirements.
All components can be monitored and operated consistently.

WINMAG plus displays messages and alarms as per user requirements

Messages and alarm inputs can be displayed as per user requirements. Depending upon requirements, texts, graphics (with symbols), tables or mixed output can be programmed. Selection screens can be configured in interactive mode so that detailed information or functions can be selected during processing.

The triggering of an alarm can be exactly located by way of symbols included in the graphics (configured as per user requirements). Two user actions can be allocated to each symbol (left/right mouse buttons). One action can perform of numerous commands.

WINMAG plus supports the user

Thanks to configurable processing routines, the program can be optimally adapted to user requirements i.e. starting from simple and self-explanatory processes up to complex interactive processes (depending on user logged on). Thus, optimal support of the user is achieved thanks to clear and authorization level appropriate instructions.

WINMAG plus controls

WINMAG plus controls components. Thereby, control can be limited (user and time).

Examples:

- Switching detectors on/off
- Switching cameras to monitor display
- Resetting alarms
- The control of components via potential-free contacts (hardware necessary)
- Control of bus systems e.g. EIB-bus (coupler necessary).

Control can be executed either in interactive mode or automatically

WINMAG plus monitors

WINMAG plus can check whether settings are as per requirements and reacts accordingly.

WINMAG plus collects data

WINMAG plus saves data with respect to all actions executed by the management system. You can evaluate this data (defined period of times)

WINMAG plus distributes data

As a multi-station system, WINMAG plus can transfer alarms/messages to other computers. WINMAG plus can transfer alarms/messages to clients as an Internet Server (special WINMAG plus version necessary).

1.3   WINMAG plus versions

Depending on version, WINMAG plus can be operated with different options. It is possible to change the versions and to change the options.

1.3.1   Demo version

The demo version gives you an overall picture of the WINMAG plus performance capabilities. The demo version permits unlimited operation (20 days for max. 8 hours each) as single-station or multi-station version with all options. Networks can be connected and messages/alarms processed. All editing functions are enabled.

To enable demo operation without sensors and far-reaching knowledge of the system, demonstration data are available that can simulate different types of alarms for demonstration purposes. Hereto, please refer to the menu "Table view", option "Simulation" for simulating alarms/messages**.**

After online operation of the demo version 20 test days, you can still use the demo version for editing and simulation via the menu option "Simulation". After the demonstration possibility of online operation has elapsed, online operation is only then possible when you have a licence (dongle necessary).

1.3.2   Single-station version

The single-station version permits the operation of WINMAG plus at one time at one station. Programming and data environment is identical with the demo version.

Optional rights and upgrade number are acquired when licensing (dongle). This number is required for extending and upgrading WINMAG plus.

Several single-station licences can be operated in an IGIS (or Essernet) network. These are then autonomous to a large degree and thus enhance redundant reliability of the system.

Every PC can be configured to individual requirements and execute different functions.

Using the WINMAG plus "Access Control" option or the "MultiAccess for Windows" option "process visualization" is possible using the access control software "MultiAccess for Windows".

1.3.3   Process Visualization

"Process visualization" is a version of WINMAG plus with reduced spectrum that cannot communicate with an intrusion detection central unit or a fire detection central unit. This version works together with IQ MultAccess and MultiAccess for Windows and serves for

♦ display of graphics (door states /zone counters)

♦ output of door data and the names of persons in a zone

♦ integration of flexible alarm processing (access control).

1.3.4   Multi-station version

The multi-station version permits the distribution of alarms/messages/signals via a PC network. One or more computers can be assigned as a server and other computers (clients) can request data.

Prerequisite: Set-up of a TCP/IP service.

The number of connections is not logically limited. Practical limits are set by computer and network performance.

3 modes of multi-station configuration are available

1.3.4.1 Multi-station

One or several computers act as server that supply alarm/message data to other computers (also interactive). Multi-station includes network distribution of messages via the event protocol. In addition the data environment is shared. Every client replicates its own data environment with that of the server and copies changed server data into its own data environment. The default WINMAG plus directories are checked. Data not included in the WINMAG plus default directories are not automatically copied.

The computers from which data are supplied are defined at the client. All changed or new data (default directories e.g. database, graphics from the "Graphics" directory, layers, SIAS programs) are transferred from the server to the client. Changing of the alarm point list and to the network structure cannot be executed by the client.

- The WINMAG plus directory on the server must be enabled for sharing.
- The WINMAG plus directory on the server must be mapped to a drive on the client.
- The path to the server WINMAG plus directory is defined in the start parameters of the client WINMAG plus

WINMAG plus runs on the server and on all clients locally!

Example:

WINMAG plus is running on the server in c:\programs\WINMAGplus

The server is connected to the client computer using a drive mapping of N://c:programs\WINMAGplus:

A shortcut is created (client) that has the destination:

C:\<path to local WINMAGplus>\WINMAG.exe -c n:

The client checks its data with the data on the logical drive n: in the directory program
programs\WINMAGplus.
The path is prompted with **"-c"**.

Prerequisites

- The WINMAG plus directory must be enabled for sharing at the master.
- The client must have read-access to the master directory.
- A logical drive allocation (to the master) must be defined at the client.
- The client computer must be defined as multi-station client at the master.
- A TCP/IP connection must exist between master and client.
- The host address or the IP address of the client must be defined at the master.
- Multi-station option and dongle are necessary at "distributed" computers.
- The same WINMAG plus version must be installed on all computers.
- A dongle incl. multi-station option must be available (master), incl. number of connected computers.

Error messages:

- **Update program**
  When a check of the programs and .OCX files in the main directory (master/client) has been executed, a difference has been recognized. Master and clients must be equipped with the same program versions.

- **Update data**
  Stack content or data are not identical and cannot be automatically updated
  (e.g. from sub-directories that have been self-created).

- **During updating of data (master directory) an error has occurred.**
  The check cannot be executed. Possible reasons:
  > - data write-protected?
  > - access to data (other programs) attempted?

1.3.4.2   Distributed network

The "distributed" mode is a variant of the multi-station mode. One or several computers act as server that supply data to other computers (also interactive). Contrary to the multi-station configuration, every computer has its own data environment; database and alarm programs can be configured as per requirements. The database and SIAS programs (master) are not copied.

The server can supply messages/data that it has initialized/requested (network), i.e. all data requested by the client must be available at the server.

> **Example:**
>
> WINMAG plus is running on the server in C:\programs\WINMAG plus.
>
> On the client computer, WINMAG plus is to be found under c:\"path to local WINMAG plus".
>
> A shortcut is created at the client that has the destination:
>
> # C:\<path to local WINMAG plus>\WINMAG.exe -c
>
> The client is started using the start parameter **"C:\ ......" (without specifying path)** as with multi-station mode.
>
> **Prerequisites**
>
> ♦   The client must be defined as a „distributed system client" at the master in the network configuration.
> ♦   A TCP/IP connection must exist between master and client.
> ♦   The host address or the IP address of the client must be defined:
>   •   at the master for the client
>   •   at the client for the master
> ♦   Multi-station option and dongle are necessary at „shared computers" (in other words not at a client that only receives data).
> ♦   All computers possess an own database with own data structure. E.g. If a computer is linked to an IGIS network, alarms/messages/signals can be distributed to other computers via the event protocol by entering an event protocol address in the network configuration of the network under „data transmission. The network to be transmitted is assigned to the „shared system client". The messages can be received in an "event network" at the client.
> ♦   Different WINMAG plus versions can exchange data.

1.3.4.3   Several Single-stations versions in a network

Several Single-station computers are operated in an IGIS network. Every computer has its own unique IGIS address. All other data may be identical or different. The computers can be programmed for "computer interaction" via configuration of triggering conditions. As several computer possess their own network access feature, the redundant design enhances system reliability.

Numerous different initialization models can be kept in central units. As every computer has its own initialization model, the number of initialization models corresponds to the number of computers (multi-station or shared systems need only one initialization model for all computers connected) linked directly to the central unit.

1.4   Licensing/Dongle

To use WINMAG plus permanently, the program must be licenced. Licensing enables program options and authorizes you to use the program.

Upon licensing WINMAG plus you receive a dongle that is to be connected to a parallel interface or a USB port of the WINMAG plus computer. For multi-station systems, every computer that includes connections needs a dongle. Workstations without own connection do not need a dongle.

Licensing is for a specific version. When upgrading to a higher WINMAG plus main version (change of first figure e.g. from V1.x to V2.x) , the licence must be upgraded to the current version.

If the dongle is removed when the program is in operation, WINMAG plus runs for max. 72 hours in online operation without the dongle.

If you do not licence WINMAG plus, after installation it will run for 20 online test days (8 hours each time) as full version and then it will switch **into demo mode**. This means, that after the demonstration time has elapsed, no connection is available to components.

A start in offline mode does not reduce the number of online test days.

The demo version of WINMAG plus is an executable editing environment. All components (except the adoption of alarms/messages) function. Thus, any event can be simulated using the demo version. All edit functions can be used.

How to licence WINMAG plus

Licensing is awarded with a dongle and a licence file. The licence file contains individual details and the activated options.

The following specifications must be known for licensing:

- ♦   Name of customer
- ♦   New licence, update, upgrade
- ♦   Type of dongle (parallel or USP port)
- ♦   Connection structure (=> number of dongles, options)
- ♦   Update number.

Program options to be ordered (per dongle and licence file):

Licence WINMAG Lite	O
Licence Intrusion	O
Licence Fire	O
Licence Access control	O
Licence Video technology	O
Licence Rescue route technology/escape door controller	O
Licence ConnectionServer	O
Licence WINMAG plus RDT	O
Licence OPC server	O
Licence OPC client	O
Licence Notification	O
Licence Escalation	O
Licence DTMF control possibilities	O
Licence Client processing ability	O
Licence Multimonitor	O
Licence WEBX	O
Licence DEZ	O
Licence Redundancy	O
Licence Auto Cad Integration	O
Licence OEM	O
Licence WINMAG plus client	- number of stations to which data are distributed

1.4.1 Licensing information

Licence parameters are displayed in WINMAG plus in the info dialog using the "Help / Info about WINMAG plus" menu.
The executable full version and the demo version are identical. You do not have to replace programs to turn a demo version into a full version. The sole difference is the dongle and licence file.
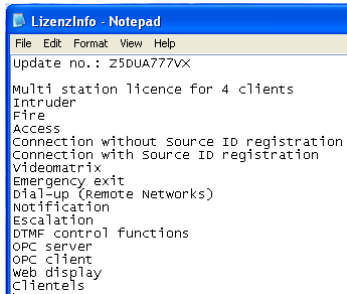
The file "LIZ_XXXXXXXXX.txt" contains a list of all licence parameters.
During installation or when updating, WINMAG plus loads this file into the WINMAG plus master directory.

Note:

If WINMAG plus does not detect the dongle, you have to enter the port of the dongle. Without detecting the dongle WINMAG plus only starts in the demo mode.

Examples:

USB-Port: c:\programs\WINMAGplus\winmag.exe /Hardlock USB

LPT1-Port: c:\programs\WINMAGplus\winmag.exe /Hardlock 378p

LPT2-Port: c:\programs\WINMAGplus\winmag.exe /Hardlock 278p

1.5   Ordering WINMAG plus

WINMAG plus is a modular program, thus the WINMAG plus software comprises several part numbers.

To help you configure your WINMAG plus software components, please use our **WINMAG plus Order Form** which you can request from our Sales Department.

This form specifies the ordering data and licence data mentioned so that you can easily send the order to us via telefax **+49 (0) 2137-17-6076.**

For further information on our Order Form, please phone **+49 (0) 2137-17-6075.**

If you require the WINMAG plus basic version, you must order Part-No. 013610.

Depending upon the peripheral devices connected, you will also require one or more program options e.g.:

      013601 WINMAG plus licence EMZ   (intrusion)

      013626 WINMAG plus licence BMZ   (fire)

      013603 WINMAG plus licence ZK   (access control)

Every PC that distributes data needs a dongle that includes the required options and number of computers to which data can be transferred.

      013630 basic licence with dongle for the parallel interface

      013631 basic licence with dongle USB

You need a client licence for every computer to which data is re-transmitted (e.g. re-transmit to
3 computers = 3 client licences):

      013625 licence WINMAG plus client

You can order program options separately to upgrade your basic program. For every change of option you will receive a licence update file "LIZ_XXXXXXXXX.txt". This update/upgrade file must be loaded into the WINMAG plus update directory.

An old version of WINMAG plus can be updated to the current program version. Please note that the licence applies to a specific version.

As a rule, a revised licence is required when changing the version (update "LIZ_XXXXXXXXX.txt" file). If you wish to change from a WINMAG version up to 5.0 to the current WINMAG plus version, you require a dongle for every computer that is connected to WINMAG components.

      013616   Upgrade of a WINMAG installation from Version 6 to the latest WINMAG plus version

      013617   Upgrade of a WINMAG installation up to Version 5 to the latest WINMAG plus version

      013636   WINMAG Lite upgrade to WINMAG plus full version

2   System requirements

2.1   Operating system

WINMAG plus runs under the following 32-bit operating systems:
- Microsoft Windows 2000, SP4 (up to WINMAG plus Version 1.xx)
- Microsoft Windows 2003
- Microsoft Windows XP Professional, SP2
- Microsoft Windows Vista (from WINMAG Version 2.xx)
  (Pay attention to the special advices in the Installation Instructions P03126-26)

2.2   SOFTWARE requirements

Your computer must be equipped with the following:
- Internet Explorer Version V5.0 or higher

2.3   PC requirements

To permit WINMAG plus to run at an adequate speed your PC should fulfil the following requirements:
- PC/laptop, *IBM*-compatible, min. Pentium / 3000 MHz or Dual Core
- Min. 1 GB RAM
- Min. 1 GB disk space
- SVGA / XGA graphics board with 4 MB video memory
- Monitor with a resolution of min. 1024 x 768 pixel
- Mouse, trackball or other *Windows* compatible pointing device
- WINMAG plus software incl. necessary licences
- Sound board with external loudspeakers (necessary for sound output)
- parallel / USB interface for dongle / printer

With IGIS direct connection:
- IGIS connection cable for the linking of a PC to the IGIS network
- IGIS-PC plug-in board (Article No. 013301) at ISA bus (not available in all computers)
- IGIS-V24 connector (ring bus controller)

With Essernet connection:
- serial interface for connection of the Essernet interface

With modem connection:
- Modem at PC (internal / external, analog und/or IDSN)

With multi-station systems:
- PC-Network adapter card
- the TC/IP protocol must bet set-up.

With Video overlay
- video card

With video drive
- serial interface for connection of the video matrix switcher
- associated video driver

Please make sure that your computer capacity suffices for the program and that
- no energy save modes are active (e.g. deactivate disks)
- avoid the parallel use of programs that require a high amount of resources.

3.   Connections to WINMAG plus

WINMAG plus can communicate with components in a variety of ways.

The following connections are feasible:
-    Direct connection to serial interface of the central control unit
-    Interface via the Honeywell IGIS network (PC card / V24 / loop)
-    Interface to modem
-    Interface via the Honeywell event log
-    Interface via "essernet"
-    Interface via connection to hardware (linkable central control units)
-    Interface via the Honeywell connection server
-    Interface via the Honeywell OPC server
-    Interface to an OPC client

Novar GmbH has prepared various own central units for the connection to an IGIS network via respective IGIS interfaces.

WINMAG plus has an open structure that is highly suitable for the connection of third-party components. Thus, many non-Honeywell components are connected to WINMAG plus via the above-mentioned ways. Novar GmbH will be pleased to be of your assistance for creating connections. Above all, the Connection Server is available for creating a relatively easy connection.

 The feasible connections are described in detail in the programming manual (P03126-05).

4.   Operating WINMAG plus

WINMAG plus operates with a graphical user interface under the operating systems Windows 2003, Windows XP Professional and Windows Vista. Operation is effected as usual for WINDOWS programs i.e. using keyboard and mouse.

Restricted operation is also possible with a touch screen, with a standard keyboard or with specially configured "simple" keyboards.

Thus, the processing of an alarm message can be effected using a simple keyboard. However, to perform configuration of the system you need a mouse or an appropriate pointing device.

Please refer to the help menu of your Windows operating system for further details concerning operation.

General WINMAG plus operating steps are described in the following.

4.1   Basic information on the user interface

An icon bar appears above the tool bar in which messages are displayed in the form of icons. This bar can be activated or deactivated in the system configuration. The setting possibilities for the user interface are described in the programming manual under 4.2.2.2 Display options.

4.2   General

WINMAG plus has the usual Windows user interface so that operation is more or less the same as with other Windows programs. Thus, you can very quickly get used to working with the program.

4.2.1 Using the mouse

Usually, the operation of Windows programs is effected with the help of a **"mouse"**, i.e. a pointing device that positions the **"cursor"** on the screen analog to the movements of the mouse. The form of the cursor can change and thus indicate special functions.

In addition to positioning the cursor, the **"mouse buttons"** can also select various functions such as:

   * Selection of a menu function
   * Selection of a button
   * Selection of a sub-drawing
   * Selection of a symbol and the linked functions
   * Selection of an item in a list/table
   * Activation/deactivation of licences
   * Opening/closing of levels
   * Viewing tables via scroll bars

Normally, selection is effected by positioning the cursor at the required position and by pressing the

left mouse button once. This procedure is named **"clicking"**.

The **right mouse button** can be used for selecting special functions, these usually appear on the screen as a menu.

When using symbols, you can adapt the default functions of the left and right mouse buttons as required. You can assign the following functions to the mouse buttons:

Double click of the mouse button can also invoke other functions. In WINMAG plus for instance, **double click of the left mouse button** permits you to go back in the graphics display by one level.

The middle button that some mice are provided with cannot be used with WINMAG plus.

The "trackball" is a variant of the mouse and must be handled in the same way as a mouse.

The operation of a touch screen is much the same as that of a mouse, special functions such as those offered by the right mouse button or the double click can be effected by way of screen buttons.

4.2.2 Using the keyboard

Usually, the keyboard is used in combination with the mouse.
If text must be entered, this is usually done via the keyboard.
By activating the mouse buttons (Settings/System control/Input help/Mouse, you can select a function in a similar way as when using the mouse.
It is often the case, that dialog boxes are available so that it is possible to just activate the enter key to complete a dialog.
Direct functions can be selected via function keys and key combinations. Information on common key combinations is contained in the Windows help menu under the keyword "keyboard shortcuts".

Important keys:

ENTER	Selecting
ESC	Cancelling an action /dialog box
Tab key	Changing input fields
Delete key	Clearing of items / inputs
F1	Invoke help
F4	Print active page
F5	Open graphics window
F8	Open table view
F9	Stack display large/small (alternately)
F10	Go to menu bar
<CTRL>F1	previous page in active program
<CTRL>F2	next page in active program
<CTRL>F3	place active program in stack
<CTRL>F4	delete active program (if authorization available)
<CTRL>F5	text/graphics switch split screen
<CTRL>F6	alarm graphic switch on/off symbols not used
<ALT>+underlined menu letter	Open submenu
Cursor control keys	Moving in menus and tables right, left, up, down, beginning, end, page scrolling back and forth

If you only use the keyboard, operation of WINMAG plus is restricted. Elementary functions such as the processing of a message or the display of certain information are however possible.
If specially configured keyboards are used, a system can be setup for simple operation i.e. user errors can be excluded.

4.2.3 Selecting a function

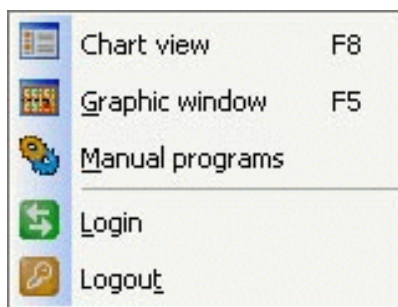There are several modes of selecting a function in WINMAG plus:

• Selection via the menu bar with submenus and menu items.

• Shortcut selection via clicking buttons in tool bars

• Special menus via clicking the right mouse button

♦ Key combinations
  Examples: <CTRL>F1   previous page in active program
            <CTRL>F2   next page in active program

♦ Symbols with switch functions

♦ User-specific, manually callable programs

The functions and paths that are available depends upon the configuration of the system and on individual user rights.

Users set up individual rights in WINMAG plus so that a multilevel user hierarchy can be created.

♦ Users process messages received and can also execute simple control functions

♦ System administrators that have simple edit rights such as editing alarm sequences, setting up and changing symbols

♦ System administrators set up new computers with transmission points and system licences.

4.3   Starting WINMAG plus

During the installation of WINMAG plus, a group of programs is created whose name is "WINMAG plus". If you would like to start WINMAG plus manually, you can do this via this program group.

We recommend to start WINMAG plus automatically by the system (autostart) after you have switched on the computer. Hereto, load WINMAG.exe under "Autostart". This can be executed via Settings/Task bar/Programs in start menu/ under ..... profiles\all users\ start menu\programs\autostart or according to the windows help instructions.

4.3.1 WINMAG plus start parameters

It is possible to start WINMAG plus with various parameters. These possible start parameters should be included in a shortcut or in the WINMAG.INI file in section CommandLineLicences.

- C "path to master"   Start WINMAG plus as client in a multi-station system. The files are compared with the
                            directory to be found under "path to master and copied.

- C   Start WINMAG plus as client with own database in distributed system.

- D   Start WINMAG plus in demo mode (without online connection and check)

- FastLoad   No check of image files during start - fast loading (not recommended)

- FullScreen   Display WINMAG plus without header line and footer line (for display in browser)

- Vaddr number   Set virtual event protocol address of the WINMAG plus computer.

Examples:
- Call via shortcut with parameters:
        c:\programs\winmag.exe -d-FastLoad
        starts WINMAG plus in demo mode without file check when loading the database

- Input in the WINMAG.INI file:
        [CommandLineLicences]
        FastLoad=1
        starts WINMAG plus in multi-mode without file check when loading the database

Dongle not detected:

Without detecting the dongle WINMAG plus only starts in the demo mode. If WINMAG plus does not detect the dongle, you have

a) to enter the port of the dongle

and/or

b) to enter a delay time

a) Indication of the dongle port

Examples:

USB-Port: c:\programs\WINMAG plus\winmag.exe -Hardlock USB

LPT1-Port: c:\programs\WINMAG plus\winmag.exe -Hardlock 378p

LPT2-Port: c:\programs\WINMAG plus\winmag.exe -Hardlock 278p

**b) Indication of a delay time**

The loading time for the USB-driver is too short. Therefore the system needs a delay time.

        c:\programs\WINMAG plus\winmag.exe -Delay XX

Enter a value between 1 and 60 (sec.) for XX .

4.3.2   Start via the WINMAG plus program group

You enter the WINMAG plus program group by activating **Start** in the task bar. The start menu appears. After you have selected **Programs,** the program and program groups installed are displayed alphabetically i.e. also the program group including the WINMAG plus programs. The name **WINMAG plus** is reserved for this group. However, you can rename the group upon installation or later. If you cannot find the WINMAG plus program group or if you experience difficulties when starting WINMAG plus, please consult your computer specialist.
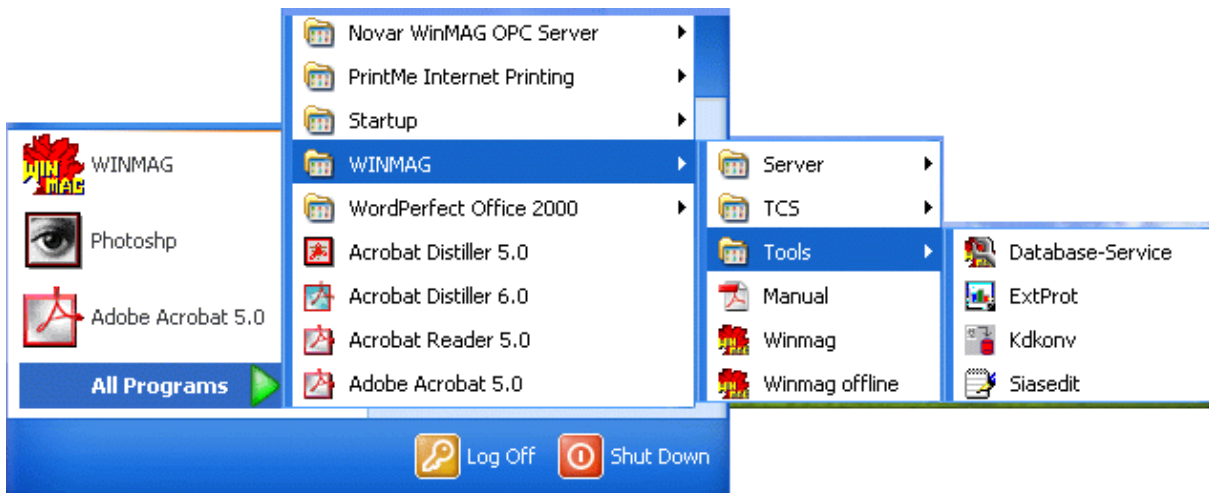
The WINMAG plus program group includes the following items:

	SERVER	The program group SERVER includes various drivers for connection to the event protocol
	Ernitec Video-server	Connection to Ernitec crossbars of series M500/M1000
	ESSER 5008 (EMZ)	Serial connection to IDCU Esser 5008
	ESSERNET server	ESSER essernet driver for central control units e.g. 8008, 8007, 8000M, 8000C, 5008
	FT server	Connection to Honeywell escape door control
	IGIS loop server	Connection to IGIS loop networks for effeff and esser central control units
	IGISV24 interface LAN	Serial connection of stub/IGIS networks
	Multiscopell server	Connection to Geutebrück Multiscope ll
	Multiview server	Connection to Geutebrück Multiviewl
	Philips video server	Connection to Philips crossbars of 8x00 series
	Vicrosoft video server	Connection to Geutebrück Vicrosoft video system
	Videv video server	Connection to crossbars of the series Ultrak Maxpro

The servers must be started separately. We recommend starting the servers automatically via the "autostart" licence.

	Tcs	The Tcs program group includes a variety of modem drivers.
	RemoteServer	Modem driver for the simultaneous support of 16 analogue modems and 8 ISDN connections
	Tools	The program group "Tools" includes various general support functions.
	ExtProt	Evaluation of logs is realised in the separate "ExtProt" tool.

	KdKonv	Auxiliary program for creating WINMAG plus import files from the Esser user data editor files.
	Database-Service	permits the compression and repairing of the System and Log database. Furthermore, an update can be executed if a new database is available.
	SIAS Editor	Starts the SIAS editor for the editing of user-specific programs and triggering conditions
	Manual	Symbol for calling the user manual applying Acrobat Reader. Acrobat Reader must be installed before this function can be used.
	WINMAG plus	Starts WINMAG plus in online-mode (if you have licenced WINMAG plus or the demonstration period has not elapsed).
	WINMAG plus offline	Starts WINMAG plus in offline-mode (no connection to linked central units, demo mode).

The help program for WINMAG plus contains important tips and information on WINMAG plus.
The help program can be started individually or within the WINMAG plus main program.
If required, you can also print out individual help tips.
During the execution of WINMAG plus, you can invoke the help function pertaining to the respective menu licence/command by activating the "F1" key.

Click a program contained in the WINMAG plus program group once using the left mouse button to start the program.

4.3.3 Start via WINMAG plus program icons on the desktop

WINMAG plus can also be started via a icon on the desktop, the standard Windows background. Click or double click the WINMAG plus icon (depending on the settings in the operating system) with the left mouse button and the program, e.g. WINMAG plus is started.

Do you wish to set up an icon on the desktop as a shortcut?
If so, click a free space on the desktop using the right mouse button. The desktop context menu appears. Select **New** and then **Shortcut** in the submenu. Enter the required command in the dialog box "Create shortcut" or configure via the button Browse. To create a shortcut for WINMAG plus, select the WINMAG plus installation directory in "Browse" and select "WINMAG.EXE".
A name can then be entered for the shortcut.
The shortcut can use additional start parameters as contained e.g. –c to start WINMAG plus as a client. These parameters can be entered when creating the shortcut or subsequently via the features of the shortcut.

4.3.4 Start the program

After you have called up WINMAG plus, the registration data appears giving licensing details.
The Info window contains
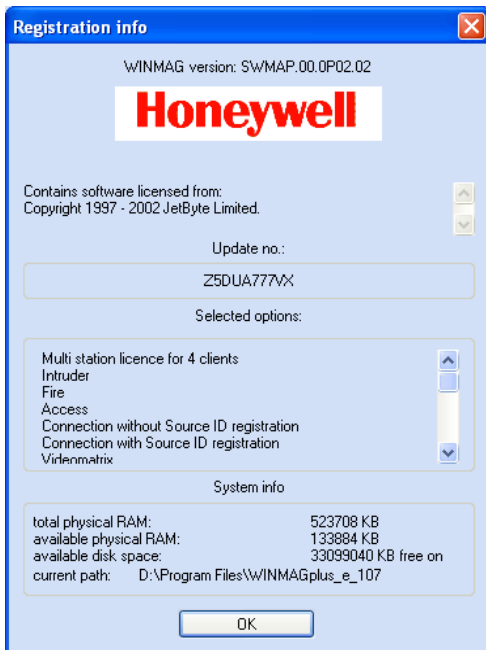
♦ The WINMAG plus update number. (This number is required for ordering an update. The update file can only be used for a dongle with identical update number. The update number can include alphanumerical characters).

♦ A list of the licences

♦ System information stating memory space available and the WINMAG plus directory path.

♦ With the demo version: Information as to how long and how often the demo version can still be activated.

The necessary data are then loaded from the WINMAG plus database. The loading progress can be viewed in a dialog window.
If the start parameter "FastLoad" has been defined, loading is executed quicker as time-consuming checks are skipped (e.g. whether a file being loaded really contains a drawing).

If a default user has been setup, system operation is started with the rights of the default user.

If a default user has not been defined, WINMAG plus starts with minimum rights. You can view the current status but you cannot start any programs. Messages received are displayed in a stack. You must log in a user to properly operate the system.

4.3.4.1   Start with dongle

Every WINMAG plus station that distributes data or connects directly to a network requires a dongle with necessary licences.
The dongle is available as connector for the parallel interface of the computer or as USB connector (the USB connector can also be used (with special driver) for WINDOWS NT 4.0.
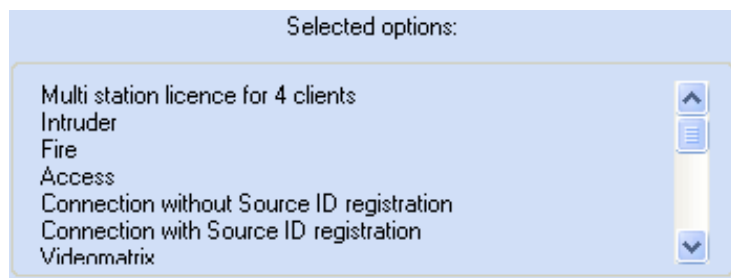

Dongle for parallel interface   Dongle for the USB port

If you start WINMAG plus when a dongle is installed, you can view the licences defined in the dongle and the update number in the "Info" dialog box.

Selected options:

Multi station licence for 4 clients
Intruder
Fire
Access
Connection without Source ID registration
Connection with Source ID registration
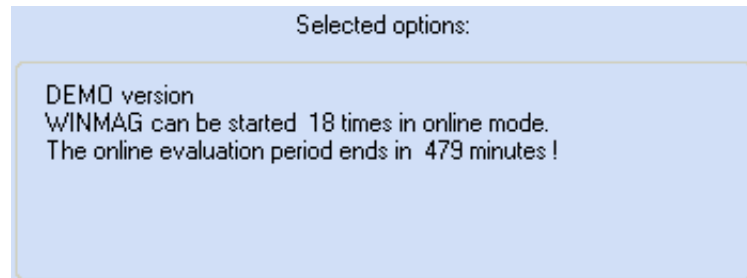Videomatrix

4.3.4.2   Start without dongle

Without dongle WINMAG plus can be started as client of a multi-station system without its own connection
♦   in demo mode
♦   As client of a multi-station system, no network may be directly connected in "System configuration".

As a client of a multi-station system without dongle, no network may be directly connected in the system configuration. For its own connections, the client also requires a dongle with individual licences.
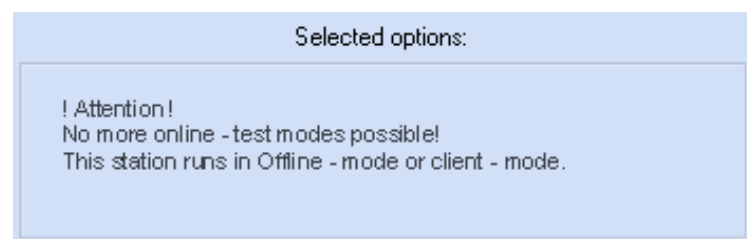
In demo mode WINMAG plus can be started offline (e.g. without connection of periphery devices) as frequently as required.
For testing, WINMAG plus can be started 20 times without a dongle. The testing time for each online start is maximum 8 hours. Actual status is displayed in the "Info" window

Selected options:

DEMO version
WINMAG can be started 18 times in online mode.
The online evaluation period ends in 479 minutes !

17 remaining online starts

118 remaining online minutes

Selected options:

! Attention !
No more online - test modes possible!
This station runs in Offline - mode or client - mode.

Test time is finished.
No more test modes possible. WINMAG plus only runs in offline mode

4.3.4.3   Updating/upgrading of the dongle licences

The dongle and the licence file is factory-provided with the following

♦   The individual update number
♦   The WINMAG plus licences ordered

To update the dongle licences, you must fill in item **2.2 WINMAG plus Licences Upgrade** to be found in the order form under item **2. Order type**.
You must specify the update number of your dongle and also specifiy on page 2 the licences you require.

If you would like to upgrade your WINMAG plus version to the current WINMAG plus version, you must fill in item

2.3 WINMAG plus Upgrade to be found in the order form under **item 2. Order type**.

Depending on your present version of WINMAG plus, you must specify either the licence No. or the dongle update number.

Novar GmbH creates an update file with the name **"LIZ_XXXXXXXXXX.txt"** as per the licences ordered and supplies users with this file either on a disk or by e-mail.
XXXXXXXXXX stands for a special code with the encrypted licence information.

This update file can only be used for a dongle with the specified update number.

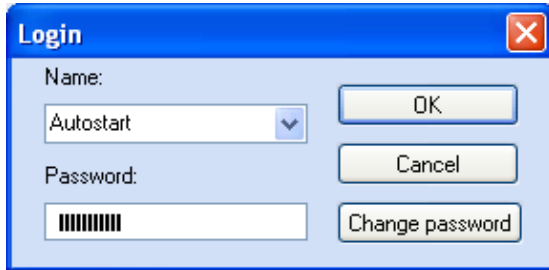You must copy the update file onto your computer with dongle into the WINMAG plus sub-directory "UPDATE".

Shut down WINMAG plus prior to copying.

When WINMAG plus is restarted, the program searches for the licence update file and automatically transfers the new licences to WINMAG plus.

4.3.5 User Login

Define a user in the **login** dialog box.

Invoke the dialog box via the menu File/Login or via the "Login" [icon] button.

You can select a user name from the **name** dropdown list. If a password has been allocated to the user, you must enter this password in the field "password". The password itself cannot be viewed and is represented by 'I'.

Click **"OK"** to login the user.

If you enter an incorrect name or incorrect password, an error message is displayed and the user is not logged-in. When entering an incorrect password three times the user will be blocked.

Click **"Cancel"** to exit the dialog box without editing.

Click the **"change password"** button to edit the password of the user selected. The LOGIN dialog box has 2 other input fields for the entry of a new password and the acknowledgement of a new name. To edit the password you must also enter the old password. After you have clicked **"OK"** the password of the user selected is edited.

> Several different user passwords are factory set. These default user passwords should be edited as per actual user password. Default user passwords are to be found in Programming manual WINMAG plus, P03126-05-0G0-xx under the chapter "Created users".
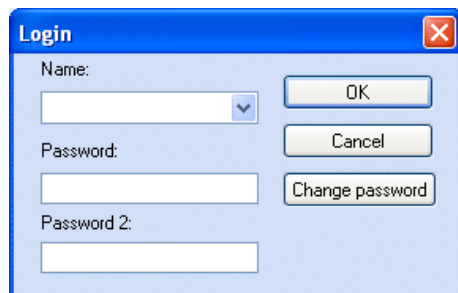> As default user passwords are published we urgently recommend you to edit this data, in particular, please edit the user passwords.

User Login with user "4-eyes"

In the menu "Display options" you can enable the user "4-eyes". For this see also chapter "Display options" in the programming manual P03126-05.

Concurrent in the menu "Edit user" you should enable the option "visible in login list" the user "4-eyes". For this see also chapter "Edit user" in the programming manual P03126-05.

When the user "4-eyes" is enabled the following login dialog with the additional field for the password of the second user appears:

> The password 2 is required only for user "4-eyes". For this see also chapter "Edit user" in the programming manual P03126-05.

5. The WINMAG plus program window

WINMAG plus can be displayed in Windows in the usual manner as full screen display or as window on the desktop.

WINMAG plus splits the program window into several windows.

The resolution of your screen and the mode of display has an effect on the splitting quality.

We recommend to set min. 1024 x 768 pixel and to use the WINMAG plus full screen mode.
If a smaller resolution is set, the top and bottom menu bars are displayed proportionally larger!
-> The program window is relatively narrower.

Example of a WINMAG plus alarm display including text and 2 drawings:

The alarm program can be displayed as per user requirements.

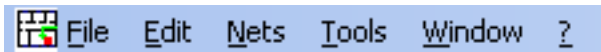The layout of the button bar can be arranged as per user requirements or can be omitted.

The status table can be set to 2 heights. You can change the heights either by clicking the arrow button at the top left of the stack or via the F9 key.

Content of the the WINMAG plus program window

1. Program header

Master-Winmag - [Alarm.wxe]

2. Menu bar   File   Edit   Nets   Tools   Window   ?

3. Tool bar

4. Program work window   The content of the program work window depends upon the program options that are active.

5. Stack list

2 overview	1 fire	1 intruder					
Prior...	**Status**	**Message ...**	**Date**	**Program name**	**Net**	**Object**	**I/O-nam**
10000	In process	01:41:59 PM	10/0...	Alarm.wxe	IGIS IF 1	BMC 664	automati
5000	not changed	01:42:06 PM	10/01/...	Alarm.wxe	IGIS IF 1	MB100	PIR kitchen

6. Program footer:

Press F1 for help   Net: Malfunction   Supervisor   14:47

5.1   Program header

The program header includes data on the active display and options for window control.

Master-Winmag - [Alarm.wxe]

The program header comprises:

- WINMAG plus icon   16*16 pixel
- operating mode   Master-WINMAG plus has own network connected and can distribute data
- Client WINMAG plus   is client on master and receives distributed data via the event network
- offline   Program started in demo mode or test licence elapsed.
- Name of the active window   (screen, program name, function name ... in square brackets. Our example shows: Program name [demo.wxe]
- Minimize button   Minimize program (button in tool bar)
- Window change button   Change from full screen to window display
- Exit program   Exit WINMAG plus (Only with "Shut down" rights)

5.2   The WINMAG plus menu
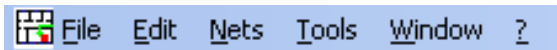
The items active in the menu depend upon the rights of the user that has logged-in.
If a user is not authorized to perform a function, then the menu item is shaded grey.
After you have started WINMAG plus, the following pulldown menus are available in the main menu:

1.   Symbol   Symbol for the active window (if no window is open or the General view is active no symbol
                      appears)
2.   "File":   All menu items appear that concern the logging-in of users and printing of files.
3.   "Edit":   Starts the "system configuration" menu.
4.   "Net":   Network functions and initialization.
5.   "Logs"   Invokes various protocol functions
6.   "Window"   Invokes and arranges windows
7.   "Help":   Invokes help menus or information on WINMAG plus incl. registration data.

5.2.1   Pulldown menu "File"
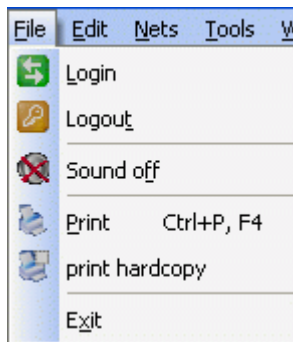
5.2.1.1   "LOGIN" and change the password
User login. A user dialog box appears displaying a list of all users configured and password input field.
After you have clicked "OK" and entered the correct password, the user changes and thus also the user rights.
If you enter an incorrect password the following error message appears: "Access denied, unknown password!"
If you have entered an incorrect password or clicked cancel the user will not be changed.
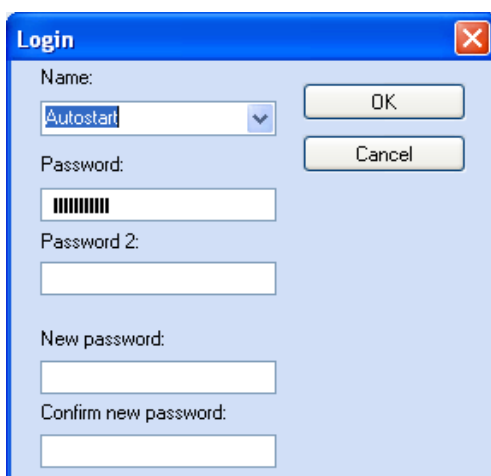
Click **"Change password"** to edit a user password.

Select the name of the user whose password you wish to edit from the "Name" field. To be able to edit a password you must enter the old password in the field "Password".

Enter the new password in the field "New password". After doing so you can acknowledge the password in the "Confirm new password" field.

Click "OK" to edit the password. The editing of a password can only be carried out when you have entered the correct old password and when you have correctly acknowledged the new password.

You can also execute this command by clicking the "LOGIN" button .

    See also chapter 4.3.5 User Login

5.2.1.2 "LOGOUT"

Logging-out of the current user. After you have executed "logout" the system operates with minimum rights.
Bar 0 is set as tool bar.
No name is displayed in the footer user field.

You can also execute this command by clicking the "LOGOUT" button.

5.2.1.3 "Sound off"

This command is used to switch off the program sound.

You can also execute this command by clicking the "Sound off" button.

5.2.1.4 "Print"

Using this command you can print out the active window if the menu item "Print" is displayed black (active).
Printing out is effected at the first available graphics printer and the printing quality depends upon the settings of the first available graphics printer.
If you select this command when an alarm program is running, all windows visible in the alarm window will be printed out e.g. 1 text page and 2 drawing pages.
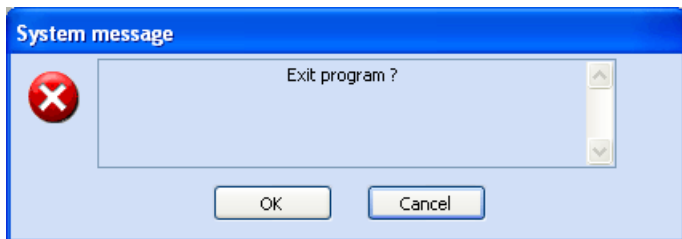
You can also execute this command by clicking the "Print" button.

5.2.1.5 "Exit"

Click "Exit" to exit operation of the control software.
The user must be authorized to exit the program.
After you have selected "Exit", the exit dialog box asks you if you want to exit the program.

Other options for exiting the program:

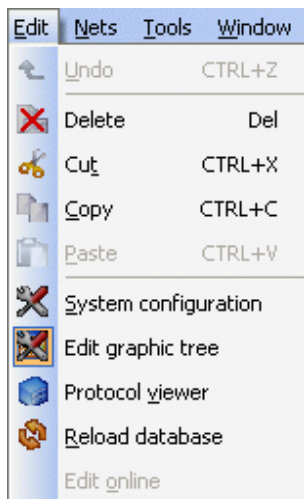- Click the "Exit program" button in the tool bar at the right corner of the program header.

- Click the program icon at the left corner of the program header.

A menu appears showing the option "Exit". Click "OK" to exit the program.

- You may also enter the shortcut "ALT-F4" to exit the program.

5.2.2 Pulldown menu "Edit"

5.2.2.1 "Delete"

"Delete" is active if you have marked data. If, for example, you have marked a symbol in "System configuration", you can delete it using the "Delete" command.
Before deleting, the program asks you if you are sure that you would like to delete. You must acknowledge this query before the delete function is executed.

5.2.2.2 "Cut"

"Cut" is active if you have marked data. "Cut" has the same function as "move". Data is inserted at another position and deleted at the previous position. If, for example, you have marked a symbol in "System configuration", you can move it to another drawing using this command.
You can only use the function "Cut" together with "Paste". Marked data is only processed after you have selected the "Paste" function. Before data is deleted at the old position, you are asked if you are sure that you want to delete the data at the old position. You must acknowledge this query before the delete function is executed.

5.2.2.3 "Copy"

"Copy" is active if you have marked data. Marked data is inserted an another position. If, for example, you marked a symbol in "System configuration", you can copy it to another drawing using this command.
You can only use the function "Copy" together with "Paste". Marked data is only processed after you have selected the "Paste" function.

IMPORTANT: When copying, active parameters such as pixel position and zoom are maintained
- When you copy to a screen of a different size this could result in moves
- When you copy to the same drawings, 2 data records lie one on top of the other. In this case, you must immediately move the marked area.

5.2.2.4 "Paste"

"Paste" is active if you have copied or cut data. Marked data is inserted at the active page.
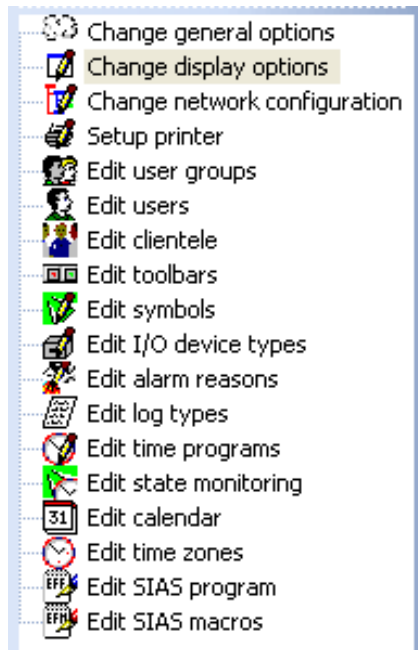
5.2.2.5 "System configuration"

"System configuration" incorporates functions for the configuration of networks, objects, i/o devices, types, alarm reason, symbol configuration, users, buttons, printer allocation and system settings.

You can also execute this command by clicking the "Edit system configuration" button.
You must be entitled to use this command. Moreover, you must possess various rights to execute the various options contained in the configuration menu.

When you have called up (authorized) "**System configuration**" the following list appears:

The options are displayed for which the user is authorized to use.
Functions are described under
"**6.3 System configuration/Functions**"

The edit functions of "System configuration" are described in
Chapter 7 "Programming WINMAG plus".

5.2.2.6   "Edit graphic tree"

"Edit graphic tree" includes functions for the configuration of symbols and graphics sequences.

You can also execute this command by clicking the "Edit graphic tree" symbol .
The user must be authorized to execute this command. Furthermore, the user must also have rights to execute the
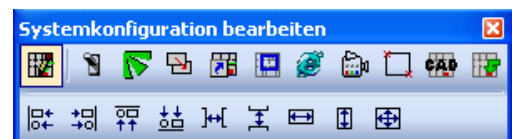configuration options offered.

After you have successfully called this option (rights), the following tool bar appears:

You can position, move, re-configure, delete and align symbols
and references.
If you are authorized to execute a function the button is coloured.
If you are not authorized to execute the function, the button/drawing
is grey.


5.2.2.7   "External logging" command"

External logging is activated. Logging options can be determined here. A detailed description of these options is
contained in this manual under the heading "WINMAG plus logging".

5.2.2.8   "SIAS- programs"

The SIAS "Program editor" is called. You can only call this program if you are authorized to do so.
Function is not yet active.

5.2.2.9   "Reload database"

This command is active if in a multi-station system a client receives the instruction to reload the master database. This could be the case if "master" system data has been edited. This function can only be executed when the user logged-on is authorized.
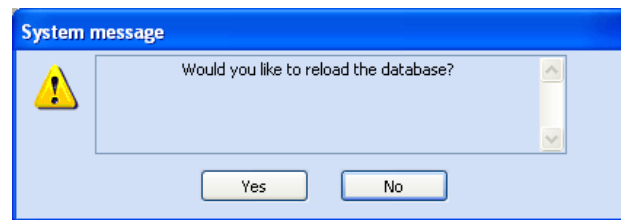
5.2.2.10   "Online editing" command

Subordinate tasks in the system configuration can be realised online with the "Online editing" command.
WINMAG plus runs on without limitations during online editing (e.g. alarms are displayed, sub programs can be activated ... etc.).

The entry is activated if the user logged in has configuration authorisation. The user must be authorised to realise commands. Various authorisation rights are also necessary within the configuration options provided. A list of possible subordinate tasks from the system configuration after the authorised activation of the "Online editing" command.
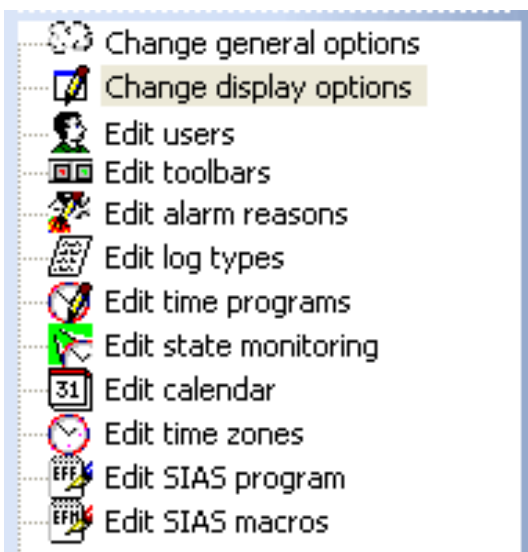
The options which the user is authorised to select are displayed.
The system configuration online editing functions are explained in the programming instructions in Section 4 "**WINMAG plus programming**".

5.2.3 Pulldown menu "Net"
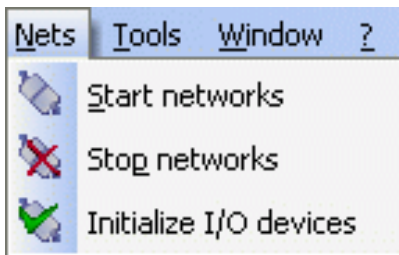
5.2.3.1 "Start networks"

Starts all networks.
After you have started the networks, WINMAG plus attempts to establish communication via the networks.
If, after starting, the status of an object is changed from "error" to "OK", the attempt is automatically made to initialize the i/o devices of the object.
You can also select this command by clicking the "Start all networks" button .

5.2.3.2 "Stop networks"

Stops all networks.
After you have stopped the IGIS networks, no data communication is effected between WINMAG plus and the linked systems.
You can also select this command by clicking the "Stop all networks" button.

5.2.3.3 "Initialize I/O devices"

Initializes all I/O devices contained in the database.
The current status of detectors is only displayed after the initialization of the i/o devices and data communication is effected between object and control station.

You can also select this command by clicking the "Initialize all I/O devices" button .
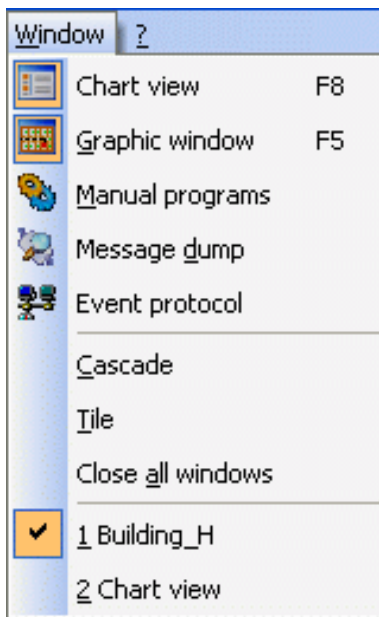
5.2.4 Pulldown menu "Tools"
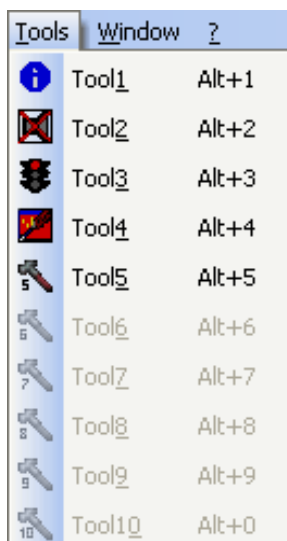
In the „Tools" menu, user-defined SIAS programs (macros or pop-ups) can be called. Tool1 to Tool3 are standard.
Tool1 is e.g. a popup window with information of the installer.

Info:
Supervisor
Errichter:
  Honeywell Security
  Novar GmbH
  Johannes-Mauthe-Str. 14
  D 72458 Albstadt
  Telefon: 07431 / 801-0

5.2.5 Pulldown menu "Window"

The menu "Window" permits you to open new windows, tile or cascade windows, close all windows and to view a window from the list of open windows.

There are two modes in which new windows may be opened:

Main window: The entire main window of WINMAG plus is used. The window may be split:
                   a tree view/overview is displayed in the left window and the corresponding
                   description is displayed in the right window. This type of window can only be displayed within the
                   main WINMAG plus window.
                   Examples: System overview, graphics window, manual programs

Popup window: A separate, independent window is opened. It receives an entry in the Windows task bar and
                   can be minimized via the task bar.
                   Example : "Message dump" or "Event protocol"

5.2.5.1 Command "System overview"

This command permits you to open a tree view window that shows the networks, objects and I/O devices that are setup in the system.

You can also select this command by clicking the "System overview" [icon] button or by activating the "F8" function key. Please refer to Chapter 5.4.4 for a detailed description of the "Tree view".

5.2.5.2 Command "Graphic window"

This command permits you to open a new graphic window with the first drawing of the drawing structure.
This window is always opened to a size that fills the WINMAG plus main window.
You may open as many graphic windows as required.
You can move from drawing to drawing with the aid of the drawing references.

You can also select this command by clicking the "Graphic window" [icon] button or by activating the "F5" function key.
Please refer to Chapter 5.4.3 for a detailed description of the "Graphic window".

5.2.5.3   Command "Manual programs"

This Licence permits you to open a window showing a list of the programs that can be manually started. These programs can be integrated in the system by the administrator as user-specific command sequences. Each user is provided with his own authorization level. The user can start programs manually up to this authorization level. Only those programs for which the user is authorized are displayed.

The structure of the list of manual programs is similar to that of the stack view. All programs are split up into categories that can be viewed separately. The list can be arranged according to column headers.

You can select a program by clicking the program line using the left mouse button. The "Start program" button appears. After you have clicked the button, the program (priority) is transferred to the WINMAG plus sequence control.
Depending, upon the priority of the processes already running, the manual program is started immediately or entered into the stack.
You can also select this option by clicking the "Manual programs"   button.

5.2.5.4   Command "Message dump"

This option permits you to open a window display of the last incoming messages. When the function is called and entry is made in the task bar via which incoming messages are placed in the display window.
Each incoming message is output as one line including the network name, object, I/O device name, state and function value.
The last incoming message is marked with a red arrow.
If the window is full, the messages are overwritten (starting from the top).

You can also select this option by clicking the "Message dump"   button.

5.2.5.5 Command "Event protocol"

This command opens a window that displays the active event protocol configuration. The event protocol is an Honeywell protocol which serves data transmission via networks (PC, modem, PC-internal). When the function is called, it is placed in the task bar via which the state of the event protocol can be shown in the display window. You cannot edit settings in this window. Editing can be done by selecting "System configuration", option "Edit network configuration".
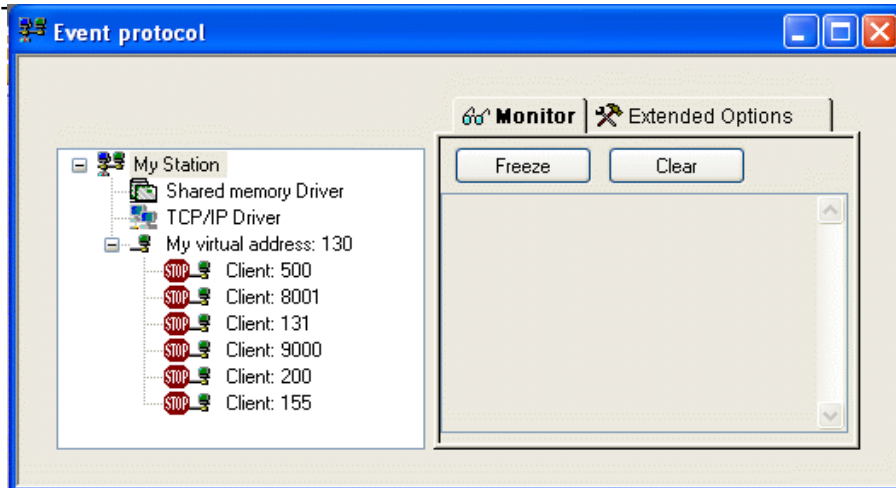
- Event protocol structure with status display (WINMAG plus status display of the work station computer). Activated drivers
  - "TCP/IP" for PC network communication
  - "Shared memory" for PV internal communication
  Own virtual addresses with allocated clients
  – the work station and all other distributed networks must have a virtual address.
  – every communication destination of a virtual address is allocated as client with its virtual address. The actual status of a client is displayed by way of a symbol:

      ✓   connection established, data transmission possible

      STOP   connection not established, no address found

      ?   status unknown

      blank   event protocol not open

- Transmission display
  The selected event messages are displayed that have been selected via "Extended Options". Thereby, screen output and/or file output for later viewing can be configured.
  Possible items:
  - Application Calls   = WINMAG plus calls the event protocol
  - Only selected items   = only messages for/from selected item are displayed
  - Driver important   = important driver system messages
  - Driver all   = all driver messages
  - Internal Error   = internal error
  - Receive Data   = data received
  - Send Data   = data sent
  - ..   = various selectable messages

  Display is activated by clicking the "Monitor" button.

  The monitor window can be:
  - "Freeze" button   frozen (no further display of messages)
  - "Run" button   start after "Freeze"
  - "Clear" button   clear screen

The transmission status of every Honeywell protocol is displayed by way of a symbol in the Windows task bar.

The following colours are used:

grey   no transmission

red   send

green   receive

 EP installed, no transmission

 Data being sent

 Data being received

 Data being sent and received

Rest the cursor over a symbol to display a quick info box (e.g. WINMAG plus-EP, MAFW-EP**).**

5.2.5.6   Command "Cascade"

All windows are cascaded. The overlaying window is displayed (offset by a frame width) at the bottom right of the screen.
When the main window is full with windows, the display of newly opened windows begins again at the top left of the main window.

5.2.5.7   Command "Tile"

All windows are displayed next to each other. Thereby, all tiled windows are of the same size. The automatic zooming of drawings to window size gives you an excellent overview. The advantages of this option are very limited if tables are viewed using small tiled windows.

5.2.5.8   Command "Close all windows"

All open windows are closed.
If a window to be closed is an alarm processing window, it will be put in the stack. Alarm processing is then automatically started again after the "New start time" set has elapsed or can be manually started from the stack view.

5.2.5.9   Overview of open windows

All open windows are listed. The focus window is marked with a tick. Select a window by clicking a window shown in the list.

5.2.6 Pulldown menu "Help"
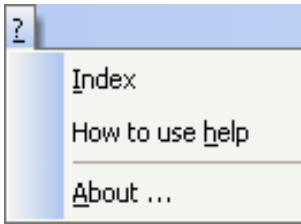
The "?" menu permits you to view info about WINMAG plus.

5.2.6.1 Command "Index"

By selecting this command you can open the index page of the WINMAG plus help menu.

You can call up the help menu without starting WINMAG plus. An icon is available in the WINMAG plus program group for the separate starting of the help menu.
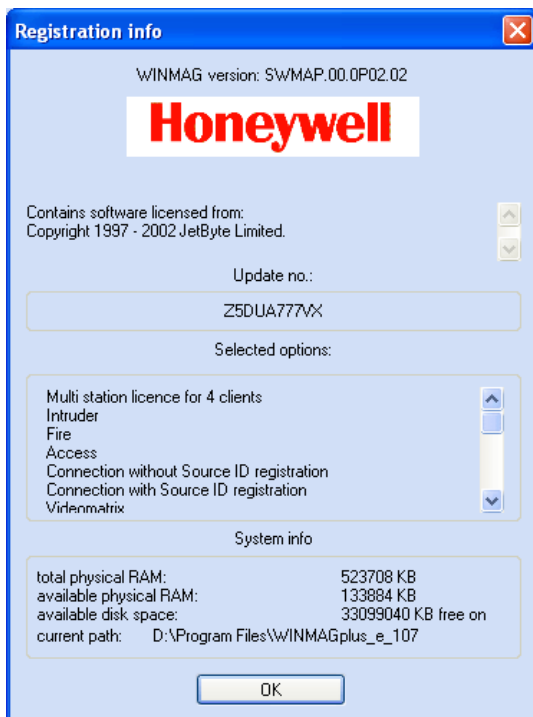
5.2.6.2 Command "How to use help"

By selecting this option, you open the general windows help menu. The general description of how to use help and the operating system is described.

You can call up the help menu without having to start WINMAG plus. It is also integrated in the task bar.

5.2.6.3 Command "About WINMAG plus"

This option opens the WINMAG plus "Info" window.

The dialog box shows:

♦ The WINMAG plus software version number
♦ Registration information
  • Update number (required for ordering an update or other Licences).
  • Current licences
  • If the WINMAG plus version is not licenced, the "Info" window also displays the number of remaining online starts and remaining testing time.
● System info such as total physical memory and free main memory, WINMAG plus drive, the path to the active WINMAG plus version.

5.3   The main window tool bar

The WINMAG plus main window may include a user-specific tool bar. This tool bar can be administered in the system configuration and be allocated to specific users.

The tool bar can be displayed:

- large-sized (32*32 pixel)
- small-sized (16*16 pixel)
- user-defined (depending on size of image file)
- or not at all

The "hidden" tool bar is created by way of a bar without buttons (tools).
The space normally required for the tool bar is then used by the main window.

If a user is not authorized to execute a specific function, the button is "grey".

When you rest the mouse over a button in the tool bar a "quick help" appears that contains abbreviated information on the function. The "quick help" disappears after approximately 10 seconds.

The main window tool bar can include the following buttons (example tool bar No. 5):

LOGIN
Rights and configuration of the tool bar depend upon user rights.
This function corresponds to the menu command File / LOGIN

LOGOUT
Logout of the current user. The system then operates with minimum rights, the tool bar No. 0 is active.

Sound off
A permanent sound that sounds when you start the application is interrupted.
This function corresponds to the menu command File / Sound off

Print
You can print out the active window. In alarm program, all drawings and text page can be printed out.
This function corresponds to the menu command File / Print

Screenshot/Hardcopy
You can print out the active window as a screenshot.. All windows of the page are printed. The print is carried out with the printer defined for screenshots or with the standard printer.

Graphic window
A graphic window is displayed on the screen. From here you can go to sub-drawings.
The current state of I/O devices is shown by way of symbols and - with corresponding user rights - also controlled.
Any number of graphic windows with full function can be activated.
This function corresponds to the menu command Window / Graphic window

System overview
Computer data and system data are displayed in an hierarchical structure.
The view shows in the left sub-window a hierarchical list of the I/O devices and in the right sub-window the active properties /control functions / graphics.
This function corresponds to the menu command Window / System overview

Manual programs
A list of manual programs that can be started by the user is displayed. Every user can be provided with a program start priority. All manual programs (authorized for this user) are displayed.
This function corresponds to the menu command Window / Manual programs

Dump view
The incoming message are cyclically displayed in a list from the moment you open the window.
This function corresponds to the menu command Window / Message dump

Edit graphics
The configuration functions are available via the "Graphic configuration" screen. You can create, edit, delete or align references and symbols.
This function corresponds to the menu command Edit / Edit graphics.

Edit system configuration
The configuration functions are displayed (table) in the edit main window. Only those functions are displayed for which the user is authorized.
This function corresponds to the menu command Edit / System configuration

Start networks
Starts all networks. After a network has been started, WINMAG plus attempts to establish communication via the network.
If the status of an object changes after start from "error" to "OK", the attempt is automatically made to initialize the I/O device of the object.
This function corresponds to the menu command Net / Start network

Stop networks
Stops all networks. No data communication is effected to the connected devices.
This function corresponds to the menu command Net / Stop network.

Initialize I/O devices
If the state of an object is "OK", the attempt is made to initialize the I/O devices of the object.
This function corresponds to the menu command Net / Initialize I/O devices

Help
Opens the index page of the WINMAG plus help file.
This function corresponds to the menu command Help / Index.

Reload database
This button reloads the master data of the database to the client in a multi-station system**.** Reloading is only possible in "System configuration"

Tool display
Shows selected tolols - here Tool 3

Depending of the settings the SIAS tool bar also can be displayed.

Alarm program control buttons (can be integrated in main toolbar or shown as separate tool bar)

The tool bar can be displayed:
- large-sized (32*32 pixel)
- small-sized (16*16 pixel)
- not at all

The "hidden" tool bar is created by way of a bar without buttons (tools).
The space normally required for the tool bar is then used by the main window.

If the user is not authorized to execute a function or the function is not available the button is "grey".

Rest the cursor over a button to display a "quick info box". This "quick info box" disappears after approximately 10 seconds.

Back   **(Ctrl F1)**
Go back to previous page.
This button is only active if a previous page exists.

Forward   **(Ctrl F2)**
Go to next page/next command. This button is active as soon as you can go a further page i.e. all necessary input must be available.

Stack   **(Ctrl F3)**
Puts the program back in the stack. All items in the stack are sorted according to priority. Program prompting is executed automatically as per a defined time. This function is only active for authorized users.

Delete   **(Ctrl F4)**
The program is deleted. Processing is interrupted and terminated. This function is only active for authorized users.

Change display mode   **(Ctrl F5)**
The program window can change between:
1) Text
2) Full screen drawing (show each in turn)
3) Full screen drawing + sub-drawings
At least one graphic window must be configured ("Picture" command).

Hide other symbols   **(Ctrl F6)**
In "normal display" all detectors and references included in the graphic are displayed.
Click the "Hide other symbols" button to display the detector that is being actually processed and the corresponding references. All other elements are masked-out.
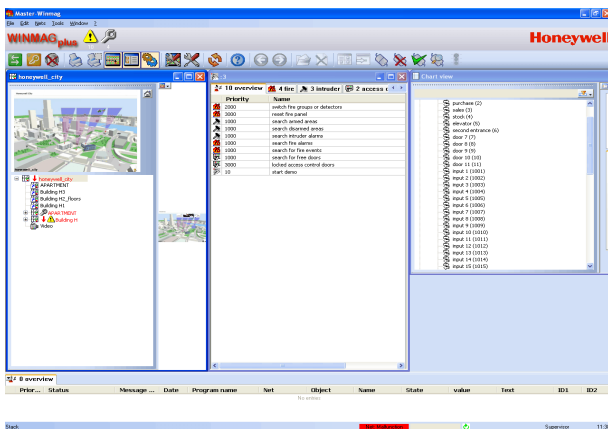
5.4   The program work window

The area between menu/tool bar and the stack list is called the work window.
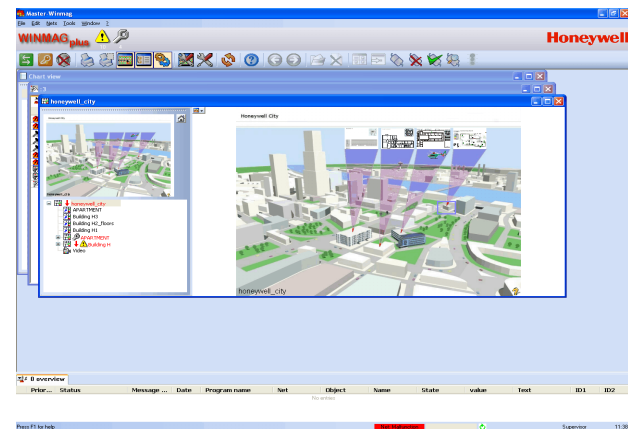The WINMAG plus work window can contain one or more windows.

Depending upon selected options, a window can cover the entire work window or several windows can be displayed (cascaded or tiled).

You can select the type of windows display via the menu "Window".

Tile windows: **Cascade windows:**

The information displayed in the program work window depends upon the program options that are active.

Typical information displayed:

- Graphics

- General view (=defined graphics without window header)

- Tree view

- Lists (e.g. manual programs, logs)

- Message programs with user-specific configuration, texts and graphics

- Edit window

Usually, a window displays information (full window size) on the option last selected. The windows lie on top of each other as pages and only the last page is visible.
The program work window can arrange several windows tiled or cascaded.
You can select the type of windows display from the "Window" menu.

You can also influence the type of windows display via the button located at the top right corner of the window.

5.4.1   The program background

If no window is active and no standard view defined, the working area shows a blue surface.
You can change this background as required by creating a graphic file named **"bkground.bmp"** in the WINMAG plus main directory.

If a selected drawing is smaller that the WINMAG plus work window, the graphic is displayed in a tiled shape.
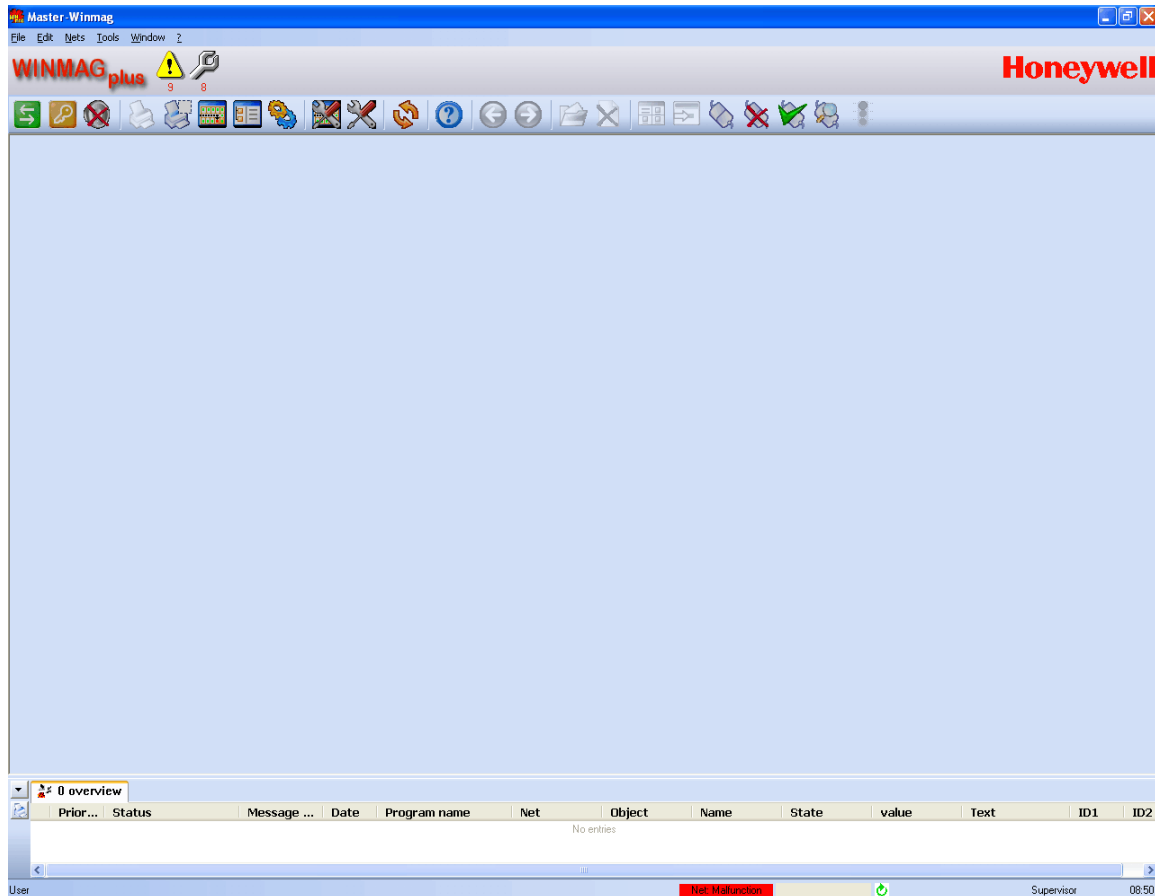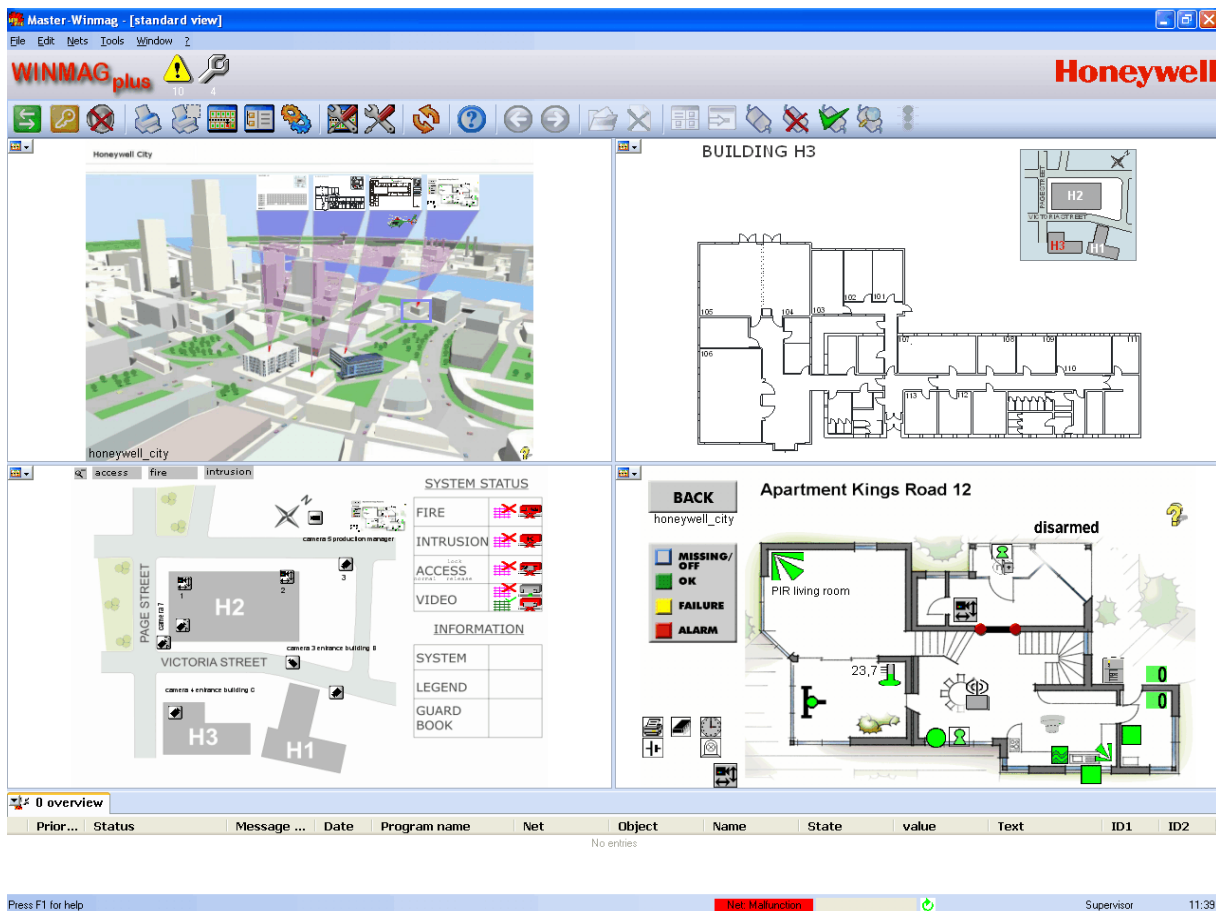
5.4.2   The default view

The "default view" is a special background.
In the default view, 1 - 12 graphics can be displayed in the program window when the system is in idle state. When no alarm program is running, if an "inactivity" time that has been set elapses, the default view is displayed.

Contrary to other windows, the drawings displayed in the general view have no header so that the space available can be optimally used.
The individual drawings can be enlarged via the "Maximize" button located at the upper right corner. Click this button to enlarge a window to normal size. Close the window to return to the default view.

Our example shows the default view displaying 4 drawings.
The default view gives you an excellent overview of the system by displaying the most significant drawings.

The individual drawings can be enlarged via the "Maximize" button located at the upper right corner . Click this button to enlarge a window to normal size. Close the window to return to the general view.

All drawings included in the general view are active! They show the current state of the displayed detectors via symbols.
Drawing references are active. You can move through the individual drawings as per the graphic tree structure.

You can directly print out the general view via the screen shot command   .
The "graphic tree" is not displayed in the default view.

5.4.3   Graphic window

The graphic window is a central view of the system. It permits

- The display of drawings in a tree structure (location-related structure)
- Integration of active and dynamic graphics in a basic graphic (graphic in graphic)
- Direct changing to other graphics with a simple mouse click
- Definition of sections,
- Zooming in and out within graphics
- Display of symbols for the dynamic display of detectors and system properties in active state
- Control of symbols
- Start of macros or pop-up programs via symbols
- Changeover to other drawings e.g. via drawing references
- Change to tree view to the selected position via symbol properties
- Display of a "Quick info" on drawing references and symbols
- Display of a symbol info including details on network, object, detectors, other drawings and control functions.

Graphics can be displayed in two different modes:

Full-window   The entire picture is displayed in the available window

Proportional-window   The width/height proportion is correct. The picture is optimally displayed in the available window. Margins could appear.

You can define the size of the window as required.
Every graphic window has its own header. This header shows the name of the graphic and tool bar for type of window display (subwindow, minimized or maximized).

  When in the display Licences of the system configuration the button "show tree structure" is activated, the tree structure is displayed.

Graphics can contain drawing references and symbols.

Up to eight screens can be achieved in the option multi-screen mode. A differentiation is normally made here between the text screen with program windows and other graphic screens.
Almost the entire screen surface is available for graphic representation in the graphic screens. The stack display and button bars are restricted on the text screen.

5.4.3.1 The WINMAG plus graphic tree

All graphics used in WINMAG plus are included in a tree structure. Starting from a general drawing, you can go to sub-drawings via graphic references. A sub-drawing can also contain one or more sub-drawings. The number of graphic references possible is not limited.

Thus, a tree-structure is created. It graphically displays the location of the connected components.

In the tree structure, branching once corresponds to one graphic level. If a graphic contains sub-drawings, a sign is displayed in front of the graphic:

> \+ Further level available, content not displayed
>
> - Further level available, content displayed

The graphic selected in the tree is automatically displayed in the right-hand window.

When displaying a graphics window, the tree view can be displayed at the left of the drawing. The tree view window can be set from 1/10 to ½ of the screen width.

You can hide the drawing tree using the option System configuration / Display options.

In the tree view illustrated, you can see the branching of sub-drawings. All graphic references can be seen branched below the graphic in alphabetical order.
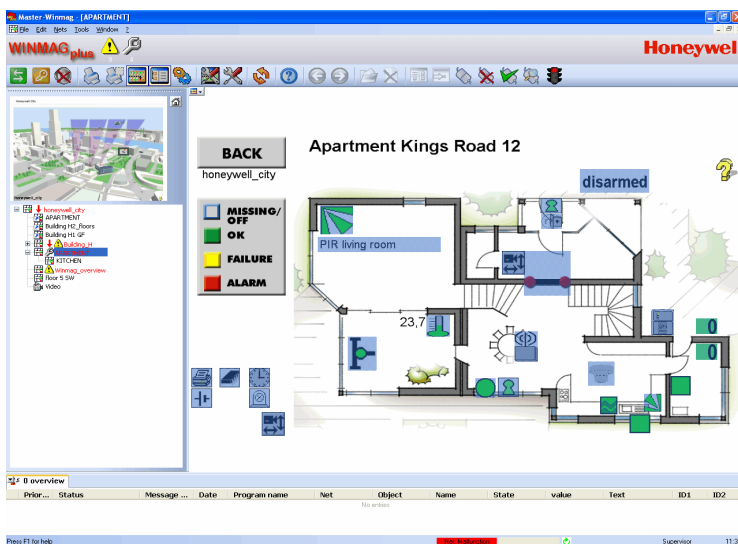

You can select a graphic from the tree structure. The graphic selected is then immediately displayed.

Our example "Apartment" has been selected. The corresponding graphic including symbols is displayed in the right window.

The graphic tree is not displayed in the "Default view". When in "Default view", you can go to any graphic via graphic references or via the graphic selection dialogues.
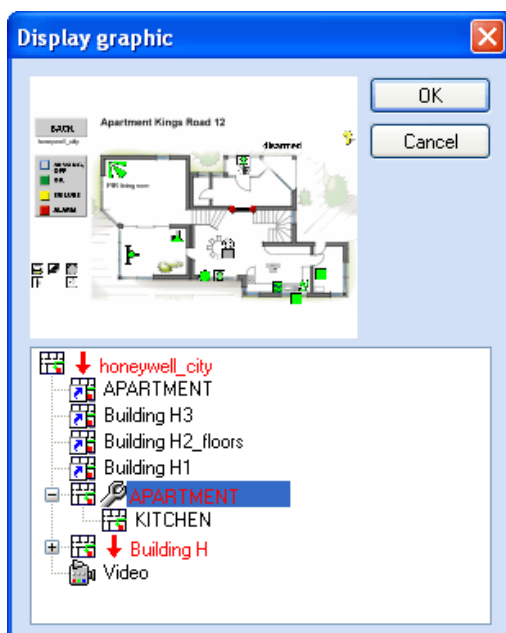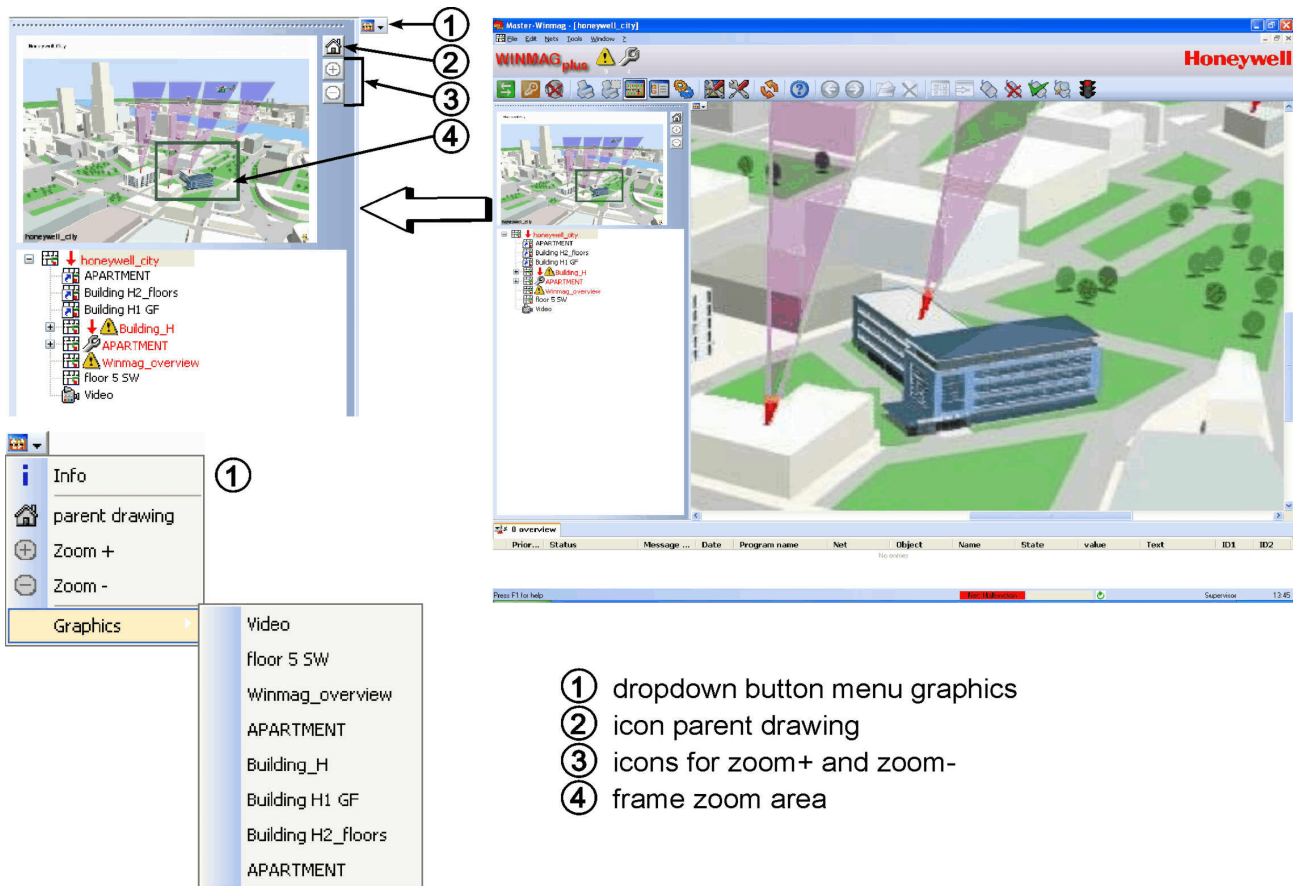

Place the cursor in the graphics window and click the right mouse button to prompt a dialogue that includes the option "Preview".
The selected graphic is then displayed in the preview window at the right of the graphic tree.
Click OK to display the graphic in the graphics window.

5.4.3.2 Overview image and zoom

① dropdown button menu graphics
② icon parent drawing
③ icons for zoom+ and zoom-
④ frame zoom area

On the left of the image the graphic tree is displayed as a tree structure. The overview image is located above the table. The dropdown button graphic menu (pos. 1) contains information and functions of the graphic window.

Info
A window with information about the graphic.
Name and path, database-ID and metadata if available.

Graphic window (F5)
The graphic window with the selected graphic appears, filling the entire window. It is possible to navigate further within the image tree.

Main drawing (also as icon beside the overview image (Item 2)
The view changes to the image of the next highest image tree level. It is possible to navigate further within the image tree.

Zoom + (also as icon beside the overview image (Item3)
Zoom into displayed graphic

Zoom - (also as icon beside the overview image (Item3)
Zoom out of displayed graphic

Drawings
An overview of the graphics contained in image tree in the next lowest level. Any of the graphics selected appears in the window.

The zoom area frame (Item 4) displays an overview image of the zoom area currently illustrated in the main window. It is possible to zoom into any area in the graphic window.

Select zoom area
●   Drag out a frame in the overview window or main window with the depressed left-hand mouse button.
The contents of the frame dragged out is now illustrated in the graphic window, with the position and size of the frame within the overall graphic being indicated in the overview window.
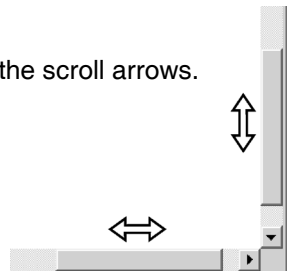
Change zoom area
1. Change position of zoom area
●   Move the scroll field on the horizontal and/or vertical scroll bar or actuate one of the scroll arrows.
The zoom area position changes relative to the movement of the scroll field.

2. Change the zoom area size
●   Actuate the Zoom + ⊕ button to zoom in, or the Zoom - ⊖ button to zoom out
or
●   drag out a new frame.

Zoom view directly from image tree
Partial views can be saved in the image tree. The partial view is displayed in the graphic window if it is marked.
The overview window shows the respective associated main drawing and a frame in this around the zoom area shown in the main window.

Examples:
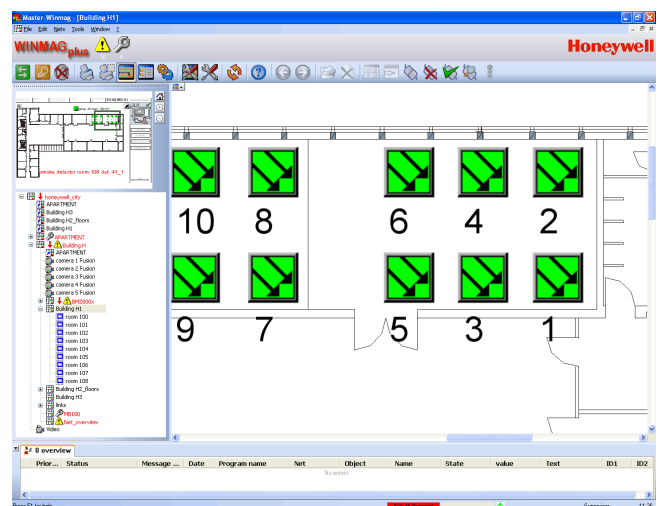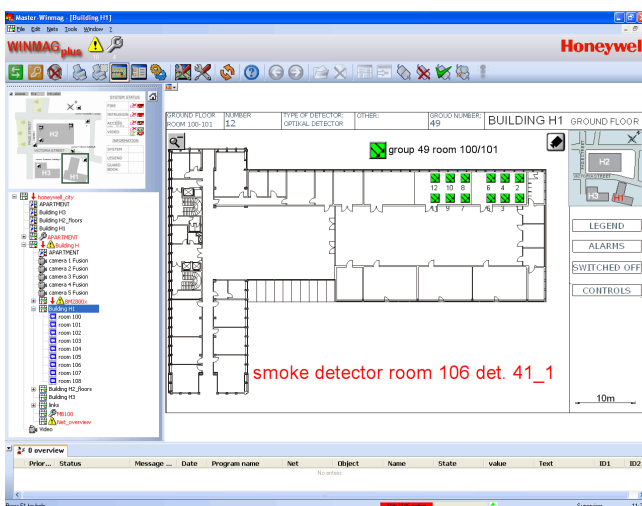
A popup window appears with information relating to any symbol clicked with the left-hand mouse button.

5.4.3.3 Graphic references

Graphic references are displayed as colored or transparent (selectable) boxes. By way of graphic references, all drawings are embedded in the tree structure. Starting from the first graphic, the references continue to the last graphic. graphic references always lead to a further graphic level.
A graphic can contain any number of graphic references.

♦ When you rest the cursor over a graphic reference, the shape of the cursor changes into the form of a magnifying glass .

♦ If the cursor rests for a few seconds over the graphic reference, a quick info appears showing the name of the graphic.
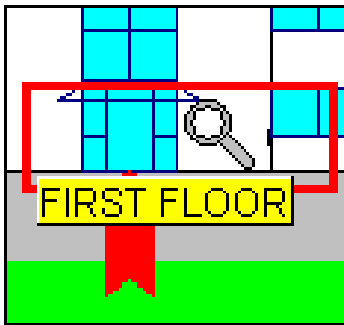
Scrolling through the graphic tree structure:

* Lower level: **If you click the left mouse button when the cursor is resting over a graphic reference, you go to the graphic referred to.**
* Higher level: **If you double click the left mouse button, you go back one level.**

Symbols offer you another way to move through graphics.

A change of drawing can be allocated to a mouse click action. As various actions are allocated to the right and left mouse keys, two graphics can be allocated as destination. The "goto" destination can be any point in the drawing tree.

If I/O devices (incl. text e.g. 3. Floor, Layout diagram) are allocated to symbols, and the respective symbols are allocated to the corresponding graphics it is possible to create a very simple and user-friendly user interface.

5.4.3.4 Symbols

The size, shape and design of a symbol can can be edited. If an detector status is changed the display of symbols (if allocated) is also changed.

Approx. 400 symbols are integrated in the system. You may create new symbols or adapt existing symbols to your own requirements.

Examples for symbols:

Magnetic contact	PIR-detector	Door contact	Optical smoke detector	Video	Escape door	Counter

The symbols show the status of the corresponding detector by way of form and content, text or colour.
Counters are available in WINMAG plus as automatic counters for every reason of alarm or as individual values formed in SIAS.

The most common colours used are:

grey/transparent	detector not available
blue	detector disabled
green	detector OK, not triggered
yellow	detector triggered
red	alarm/tamper

Example of the colour status of a PIR detector

OK green	triggered yellow	tamper blue	alarm red	not available

If the detector is not initialized, the icon is superimposed by a grey moiré pattern.
If the cursor moves over an icon, the shape of the cursor changes to an aiming symbol . If the cursor stops for a few seconds at the graphic reference, a "quick info" appears.

You can configure the content of the quick info

Optional values:
    the object name
    the detector name
    detector text

EMZ 561-MB100.10
light first floor
building D

When in this position, you can execute different functions using the right and left mouse buttons.
You can allocate one of the following functions to the right or left mouse button:
♦ no function (default - right mouse button)
♦ display menu (symbol info)   (default - left mouse button)
♦ change graphic to another defined graphic (allocate graphic reference)
♦ start pop-up program (immediately executed SIAS program in own window)
♦ start macro (immediately executed background processing without screen output).

Configuration of response is executed in the WINMAG plus program function "Edit graphics" - right-clicking on the symbol and selecting "Mouse actions".
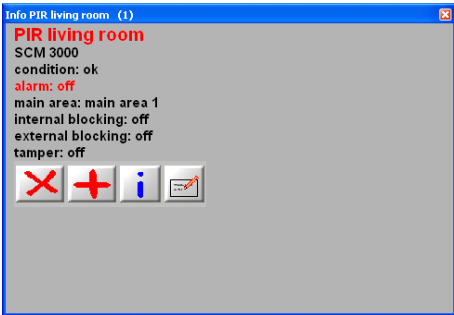
If you click a symbol using the left mouse button, a popup window with symbol information appears.

If you click a symbol using the right mouse button, a **symbol info block (default) appears** (menu).
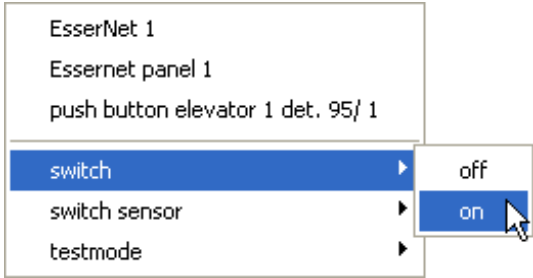
The info block contains detector information:

- Name of the network (EsserNet 1)

- Name of the object (Essernet panel 1)

- Name of detector (Push button elevator 1 det/ 1)

- Drawing selection field (if further drawings are available)

- Control functions (if available)

If you select network, object or detector name, an "I/O device window" opens that corresponds to the tree structure.
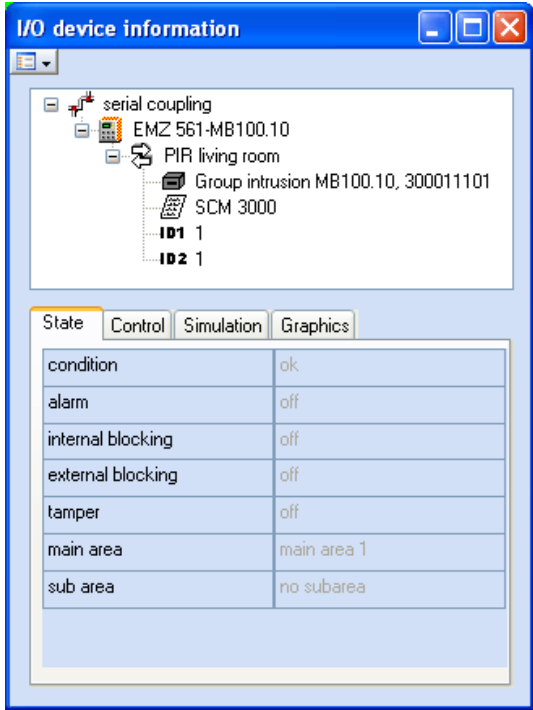
The upper part of the window displays the allocations

- network

  - object

    - name of the I/O device

      - I/O device additional text (if available)

        - ID1 and ID2 (if available)

The following cards can be selected (depending on user rights):

Status	= input values
Control	= user rights
Simulation	= simulate input messages
Drawings	= drawings including the I/O device

Click the "Maximize" button in the "I/O device info" header to go to the selected position in the tree structure

Now the possible functions are shown in table form and can be performed (the option only appears if the user is authorized to control the detector selected).

5.4.4 System overview

The system overview is a central view of the system. It displays a structured list of
- the networks created
- objects included in the network
- all activated I/O points of the objects
- objects included in the network
- all activated I/O points of the objects
- field for the direct searching of an item in the tree view
- Entries with events have a coloured background and a symbol with the I/O point type set in front.

The system overview permits display of any item selected (right window) :
- structured allocation in the network/ object/ I/O point with additional text and Ids
- The actual states of the I/O points with the current functional values.

    If an I/O point is not initialized, i.e. if WINMAG plus has received no acknowledgement of the current state, the functional value appears in grey and not in black.
   -> "State" tab
- The control functions (if control functions and authorization are available) -> "Control" tab
- The simulation selection (if authorization available) incl. the possibility of setting all input values
    -> "Simulation" tab
- Graphics selection for the symbols allocated to I/O devices
    -> "Graphics" tab

The display function is selected from the state / function value matrix shown at the right of the screen using the tabs. The state display is active when you call up the tree view.
The control and simulate tabs will only be activated if the user is authorized to execute the respective functions and when the corresponding data is available.

Example of a system overview:

Entries with coloured letters and a symbol in front
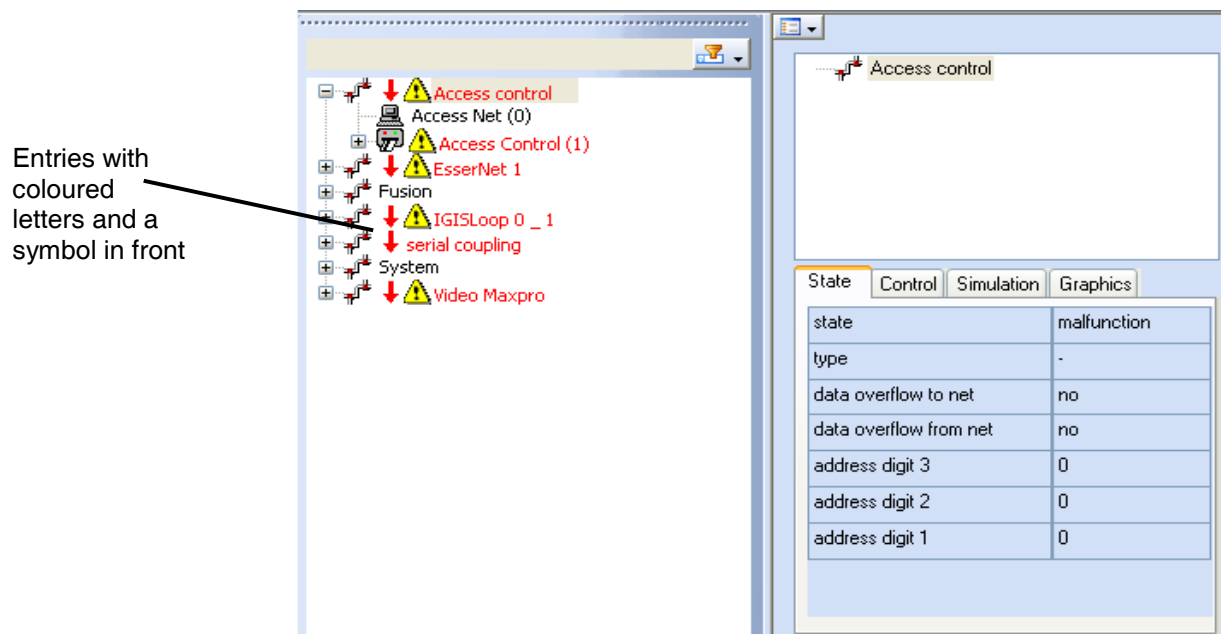
The left side of the window shows all active networks including their objects and I/O devices.
The objects belonging to the network are shown branched and the I/O devices belonging to an object are also shown branched.

The items are structured
- Objects as per address in network
- I/O devices as per I/O device number in object

If an item includes sub items, this is shown by way of a box in front of the item. The characters contained in the box mean:

- \+   Sub level can be opened by clicking the box or double clicking the item name
- \-   Sub level is already open, clicking again closes the level

A level can also be opened using the right cursor control key and be closed using the left cursor control key.
All the above-mentioned functions apply to the system overview item selected.

5.4.4.1   State

The current state/function of the marked item is displayed in the right side of the split window.

<u>Example</u>: Marked item is PIR 101 Kitchen

The following active state/function values are displayed:

| State	OK	= detector is not triggered
Alarm	off	= no alarm
int. blocking	off	= no int. blocking
ex. blocking	off	= no ex blocking
Tamper off		= no tampering
Main area	main area 1	= Main area 1

5.4.4.2   Control

If a control function(s) is defined for the item selected from the tree view and the user is entitled to control the item, the "Control" tab is active . After you have selected the "Control" tab, the control functions possible are shown in the state/function value list.
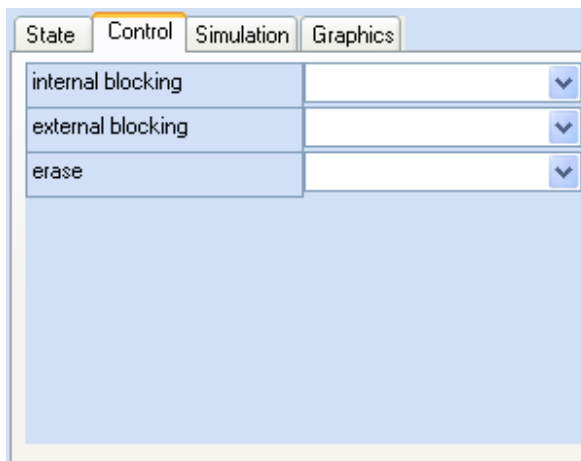
You can activate a control function by selecting the required control option from the items listed. After you have selected the item required, a list of the possible control functions appears and you can select a control function using your mouse.

5.4.4.3   User-Entry
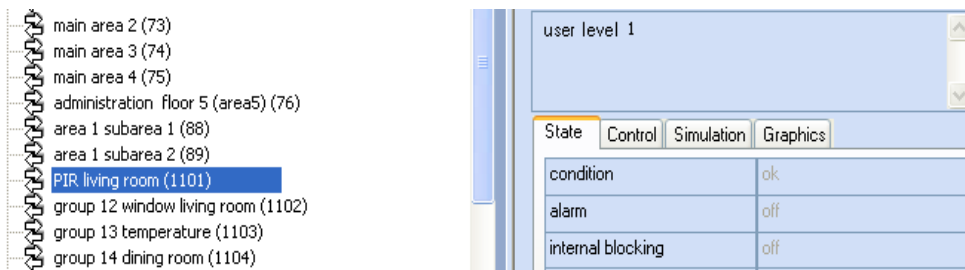
It is possible to show a special information of the I/O point between structure display and state display. The illustration above shows the stored information "user level 1" for this I/O point (in this case the logged-in user).

5.4.4.4   Simulation

If you are entitled to execute "Simulation", the "Simulation" tab is active . After you have selected the "Simulation" tab, you can select one of the possible values for input states.

The system regards and processes a simulated message in the same way as a "true" message.
Thus the "Simulation" option permits virtually all types of message combinations to be created to test the system.
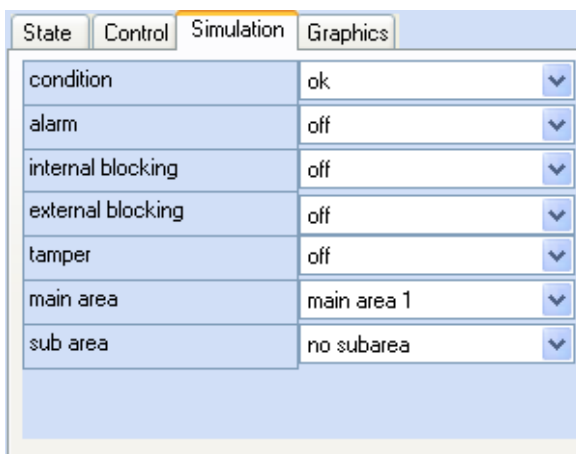

You can activate "Simulation" by selecting an item from the dialog box and then selecting a function value from the list of values available.

5.4.5   Graphics

If you are entitled to view graphics and if symbols are included in drawings for the selected item, the "Graphics" tab appears . After you have selected "Graphics", all graphics in which the item selected is available as a symbol are listed.
The graphic selected is shown in the preview window.
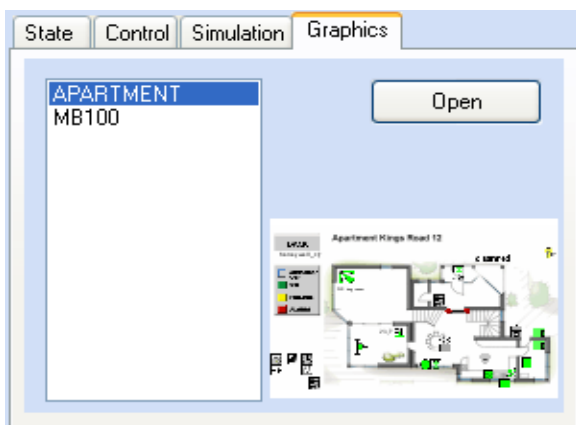
Select a graphic by selecting a name from the list of graphic displayed.
You can then view the graphic in the preview window.
Click the "Open" button to open the graphic as full-size window.

5.4.6   Filter

It is possible to locate I/O devices with defined characteristics or designations quickly and accurately in every network using the filter function.

The **Filter** dropdown menu is located in the top left-hand corner of the window.
The following menu opens when the dropdown field is actuated for the first time:
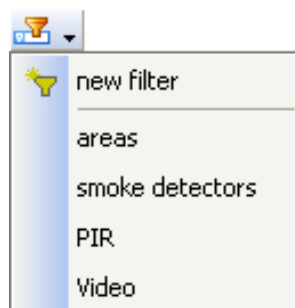
A window for defining a new filter is activated with the upper line.
The other lines show existing filters. Any of these filters can be activated with a click and the filter function started.
Only the networks in which filtered I/O devices are located are visible in the left-hand sub-window after filtering, and only the filtered I/O devices are visible within the network itself.

The active filter (or filter last activated) always appears in the upper line.

The following menu opens if a filter was already activated:
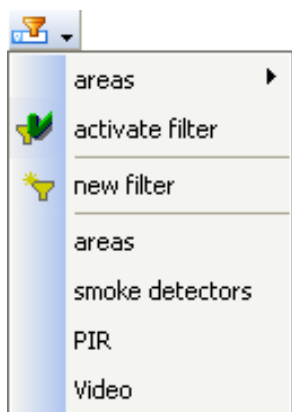
The last filter activated is visible here in the upper line. The filter is activated with the **Activate filter** line and the filter function starts.
The other lines are the same as in the menu when newly activated.

An additional window is opened if you dwell with the cursor over the active filter.
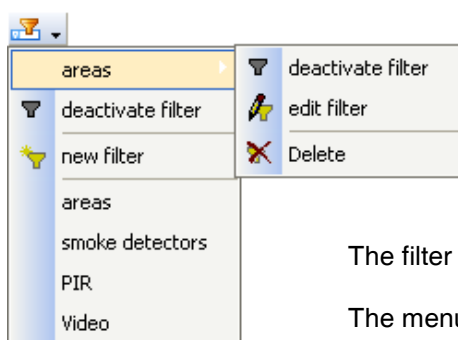
The filter is deactivated with **Deactivate filter**.

The menu for editing the filter is activated with the **Edit filter** line.

The filter is deleted with the **Delete** line.

Edit filter menu / New filter menu

The **Edit I/O device filter** menu window is opened with the **Edit filter** and **New filter** commands.
The fields are empty for defining a new filter.
Existing values can be changed and new values entered during editing of an existing filter.

The filter designation is visible in the **Name** field, or any desired filter name can be entered here.

The fields **Net** to **ID2** can be filled out to determine the filter characteristics. Not every search field need be filled out.
In the case of only partially-known information, enter "?" for a single character being searched for. You can use the wildcard "*" for several characters.

An empty search field is assigned the definition "*".

A text appears in the Clientele field if no clients exist ("**Clientele management deactivated**"): Existing clients are displayed when clientele management is active, and you can select one or several of these.

Editing is interrupted with the **Cancel** button and the **Edit I/O device filter** menu window is closed.

The filter is activated with the **Activate** button and the filter function starts.

The new filter or edited filter is saved with the **Save** button. WINMAG plus assigns an individual ID number during saving if no filter name has been entered.

5.4.7 The alarm window

Every alarm program is executed in a window that is provided with its own header and own tool bar.
You can control execution of an alarm program via the tool bar.

The type of alarm is displayed as flashing symbol at the left of the tool bar and a description of the detector that has triggered flashes at the right of the tool bar.
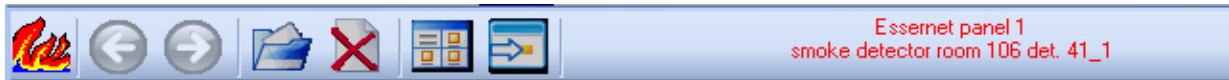
5.4.6.1 Buttons for control of an alarm program:

Types of alarm symbols

The flashing symbol represents the type of alarm.
Our illustration shows the symbol used to denote a fire alarm.

The symbols can be selected with the cursor or by pressing the key combination (in brackets).

Back   **(Ctrl F1)**
Go back to previous page.
This button is only active if a previous page exists.

Forward   **(Ctrl F2)**
Go to next page/next command. This button is active as soon as you can go a further
page i.e. all necessary input must be available.

Stack   **(Ctrl F3)**
Puts the program back in the stack. All items in the stack are sorted according to
priority. Program prompting is executed automatically as per a defined time. This
function is only active for authorized users.

Delete   **(Ctrl F4)**
The program is deleted. Processing is interrupted and terminated. This function is
only active for authorized users.

Change display mode   **(Ctrl F5)**
The program window can change between:
1) Text
2) Full screen drawing (show each in turn)
3) Full screen drawing + sub-drawings
At least one graphic window must be configured ("Picture" command).

Hide other symbols   **(Ctrl F6)**
In "normal display" all detectors and references included in the graphic are displayed.
Click the "Hide other symbols" button to display the detector that is being actually
processed and the corresponding references. All other elements are masked-out.

Number of alarm programs
Up to 10 alarm programs can be executed simultaneously.
Up to 1000 items that are dynamically sorted according to their priority can be included in the alarm stack.
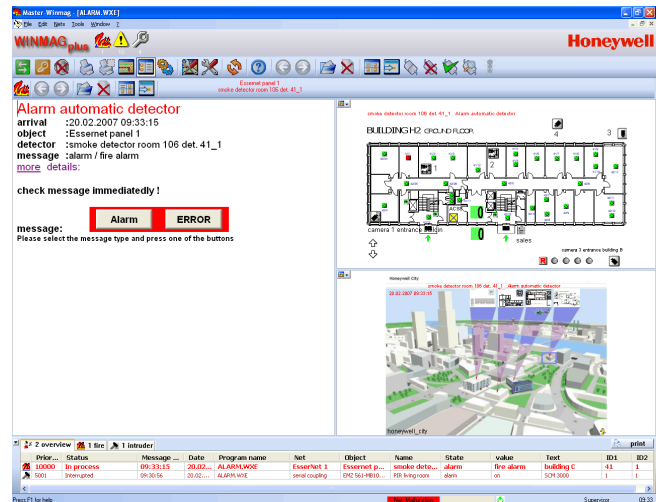
5.4.7.2   The alarm program

You can freely define the display and the appearance of an alarm program. You can also adapt an alarm program to a variety of applications.

The sequence control programming language **SIAS** (= Security Application Language) permits the free defining of display and appearance.

Examples of alarm windows with own header, text area, 2 drawings and interrogation dialog.
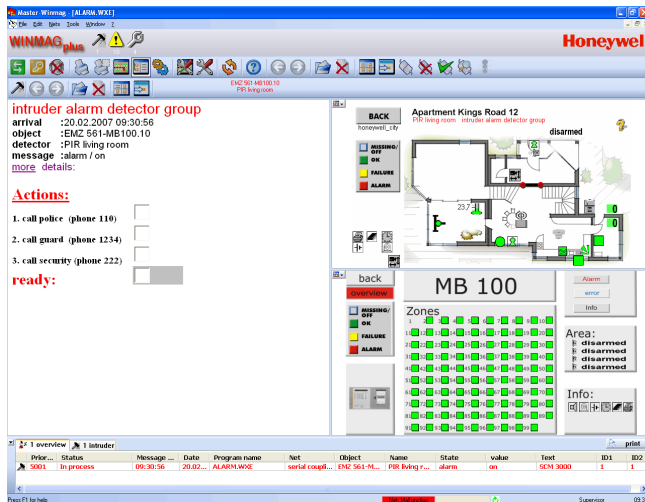
Intruder alarm   Fire alarm

In addition to displaying graphics and texts the alarm program can also include user queries and system queries. The program can also run fully automatically without an operator.
The type of operation entirely depends upon the executing sequence defined.
Control of alarm processing is effected via the tool bar, the entry key or via stack administration.

5.4.7.3   Alarm processing

Every type of processing of a program is described as "alarm processing"and it is irrelevant if the program has been triggered by a message, manually or by a time order.

When an alarm program is started, the WINMAG plus program is automatically displayed in the foreground and other programs move into the background.

The alarm program is always started with maximized alarm window.

It is always advantageous to combine an alarm with an acoustic alarm. You can load any kind of sound files in WINMAG plus in WAV form. You can only ensure a good sound output by installing a sound card.

Alarm stack priority control
If several messages are waiting to be processed, WINMAG plus puts them into the alarm stack.
All programs executed in WINMAG plus are given a priority status. The system starts processing according to priority. Thereby, the message with the highest priority is always displayed until the user intervenes.

If a new message has a lower priority than the message being actually displayed, it is put into the stack and waits there until it receives priority.

A user authorized to process the stack can intervene into the processing of the stack and manually start programs included in the stack.

Several alarm programs
WINMAG plus can execute a number of alarm programs simultaneously. Those programs with the highest priority are executed in their own window simultaneously. As windows displaying alarm programs are started maximized only one window is visible. Thus, if you are processing several programs at the same time, you should change the setting of the SIAS code to "tiled" windows.

Remember time
If a program is put in the stack via the stack button, a timer begins to run. When the time set has elapsed, the program is started again.
This time is also called the "remember time" and is provided so that all items contained in the stack are actually processed and do no stay "parked" in the stack for ever.

User inputs
Processing of a program may require user inputs by way of the pressing of a key, selection of a button or the entry of texts and reports.

If the system is waiting for the pressing of a key, the button is active (green arrow).
You can continue program processing by clicking the green arrow or by pressing the enter key.
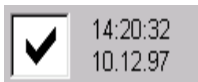
Click points can be integrated into the process. After you have clicked these check boxes you can continue as per the program. The time at which you have clicked the click point can also be displayed.

Furthermore, you can effect selection via buttons. Buttons can be provided with a user-specific text. After you have clicked the appropriate button, you can continue with the processing of the program.
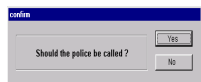
Buttons can also be a part of a dialog box. The dialog box is always displayed in the middle of an alarm window.

Flashing symbols in alarm graphics
If the detector being traced is included in a graphic as a symbol, that symbol is shown flashing in the alarm program.

The symbol flashes approximately every second.
Furthermore, all graphic references flash that lead to graphics containing the symbol. The graphic reference flashes red/active color. If the active color of the reference is red you cannot see it flashing.

Flashing behavior can be set in general options:

● Symbol / graphic reference flashes until acknowledged or until end of program

● Symbols / graphic references to all detector symbols in the stack flash or only the detectors of the alarm program actually running flash.

5.5   The stack view

The stack contains all the messages that have not been processed incl. alarm / message attributes and processing status. These could also be triggered object alarms that have not been reset.
The items are displayed in different colours. The colour can display the processing status or can be program-defined as required.

Default colour settings and values

- red   being processed, not yet processed
- dark red   interrupted
- dark green   acknowledged
- light green   processed

The following processing statuses are possible:

- unprocessed   the message has not yet been displayed
- being processed   the message is just being processed on the screen
- being processed, acknowledged   the message is being processed and is acknowledged
- interrupted   message has been processed, has however been put in the stack due to receipt of a message with higher priority or by the user
- interrupted, acknowledged   as above, the message has been acknowledged
- processed   the message has been processed, remains however in the stack as the triggering event still prevails. When the triggering event no longer prevails, the messageis removed from the stack.

You can select items according to type, i.e by selecting the respective tab (our example shows "overview", "fire", "intruder", "system", access control, manual)

The tab is displayed in conjunction with the following list.
The "Overview" tab contains all items.
In addition to the symbol, all tabs include the number of messages corresponding to the type of message and the type name.

The sorting is effected as per priority. You can sort each column individually. To do this, you must click the column header of the column you wish to sort.

The stack view can be displayed in two ways:

- minimized (minimum size)
- maximized (maximum size, i.e. ½ of screen).

You can switch over modes using the symbol in the left upper corner of the stack header or by pressing the F9 key.

If you have the appropriate user-rights, you can define the size of the stack view and the default size of the stack view in the menu "System configuration"/ User interface configuration. The setting that is defined when you exit the user interface is used as default setting.

	Prior...	Status	Message ...	Date	Program name	Net	Object	Name	State	value	
	30000	not changed	4:49:36 PM	5/25/2...	fail.wxe	IGIS(33400419)	PC interface	IGIS(33400419)	data overflow f...	yes	
	30000	In process	4:49:36 PM	5/25...	fail.wxe	IGIS(33400...	PC interface	IGIS(33400...	data overfl...	yes	
	30000	not changed	4:49:39 PM	5/25/2...	fail.wxe	Visioprime 1	Event-Net	Visioprime 1	condition	trouble	

You can set the number of possible stack items in program options. Default setting is 50 however, from 1 up to 1000 items are feasible.

When the stack is full, all new items are still entered according to priority. If, for example, 50 items are already contained in the stack and the lowest item has priority 5 and a new message is received that has priority 10, this new message is entered into the stack and the item with the lowest priority (i.e. priority 5) is removed from the stack.

A user who has the rights, may select the message to be processed.
Click any part of the stack window using any mouse button to invoke the "Execute" dialog box:

Edit entry

Delete entry

Delete all entries of selected type

print stack

Manual programs

With "**Process entry**" you can execute the item that you have selected (irrelevant of priority).
With "**Delete entry**" you can delete the selected item from the stack. Before deleting, the system asks if you are sure that you want to delete.

"**Delete all entries of selected type**" deletes all items of the alarm types selected. If, for example, you select "Overview" all items contained in the "Overview" column are deleted. If you select "Fire" all items contained in the "Fire" column are deleted".

"**Manual programs"** opens the window displaying the programs that can be started manually.

The execution of all the functions included in the stack dialog box depends on user entitlement. If you are not entitled to execute a function the options are not active and execution is effected in the execution mode set i.e. according to priority and wait time.

5.6   Program footer

The program footer includes:

- Brief info about the active action / cursor position

- The general state of the networks connected
Running	green	all Networks running
fault	red	one/several network(s) not running
no dongle	red	dongle not found

If a demo version of WINMAG plus is running, the text "OFFLINE" is output.

- Load display
  Colour bar that changes colour from green to red with growing network overloading. If the entire bar is coloured, this means that more messages are being received than can be processed.

- Status of the triggering conditions

   Triggering conditions being processed.

   Triggering conditions not being processed. (TRIGCON) ??? can be edited.

- name of the user logged-in

5.7   Windows task bar

The Windows task bar could display several items (depending on WINMAG plus windows open and the event protocol started).

- WINMAG plus program window
- WINMAG plus graphics window (with special setting such as "Automatic graphic window").
- Special WINMAG plus window "Messages received" (when "Dump" is activated).
- Special WINMAG plus window "Event protocol" (when "Event protocol" is activated).
- System icons that display volume, graphics card settings, event protocol. An icon showing the current data transmission status is displayed

   Data is being sent

   Data is being received

   Data is being sent and received

- Current time

5.8   WINMAG plus logging

Evaluation of logs is realised in the separate "ExtProt" tool. It can be started via the program group in Tools/ExtProt or by directly activating the ExtProt.exe file in the WINMAG plus Tools program directory.

The user should register in the **Login** dialog after activating the program. Registering is realised in accordance with WINMAG plus Login (see 4.3.5 User login). User names and passwords correspond with the names in WINMAG plus. User rights are also assigned in accordance with the allocations in WINMAG plus.

Activities realised on the control system can be understood with the aid of the logs. The system log is recorded independently of signal processing. Content and form of output can be configured.

5.8.1   System log

All system events can be entered in the system log (e.g. control centre system start, system errors, change of user, program starts, etc.). Complete system log data is stored in a database table.
The system log content can be individually determined in the log settings.

The system log is illustrated in the form of several register cards. Click the respective card header to change options.
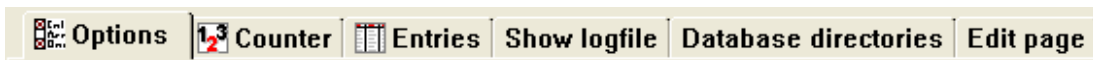
Options	Determining of selection criteria for viewing the system log. Selection criteria for an option can be saved and reactivated at any time.
Counter	Number of items in each option. Display of the number of items contained in the system log for each option in the form of a table.
Entries	List of the log entries that fulfil the selection criteria
Display logs	Display of individual logs
DB directory	Display of existing log databases and directories
Page setup	Determining of print settings

5.8.1.1 Options

The option dialog is displayed initially after activating the system log. Selection criteria for the log display can be determined in the option dialog. This facilitates searching for specific entries or groups of entries.

System log option dialog:
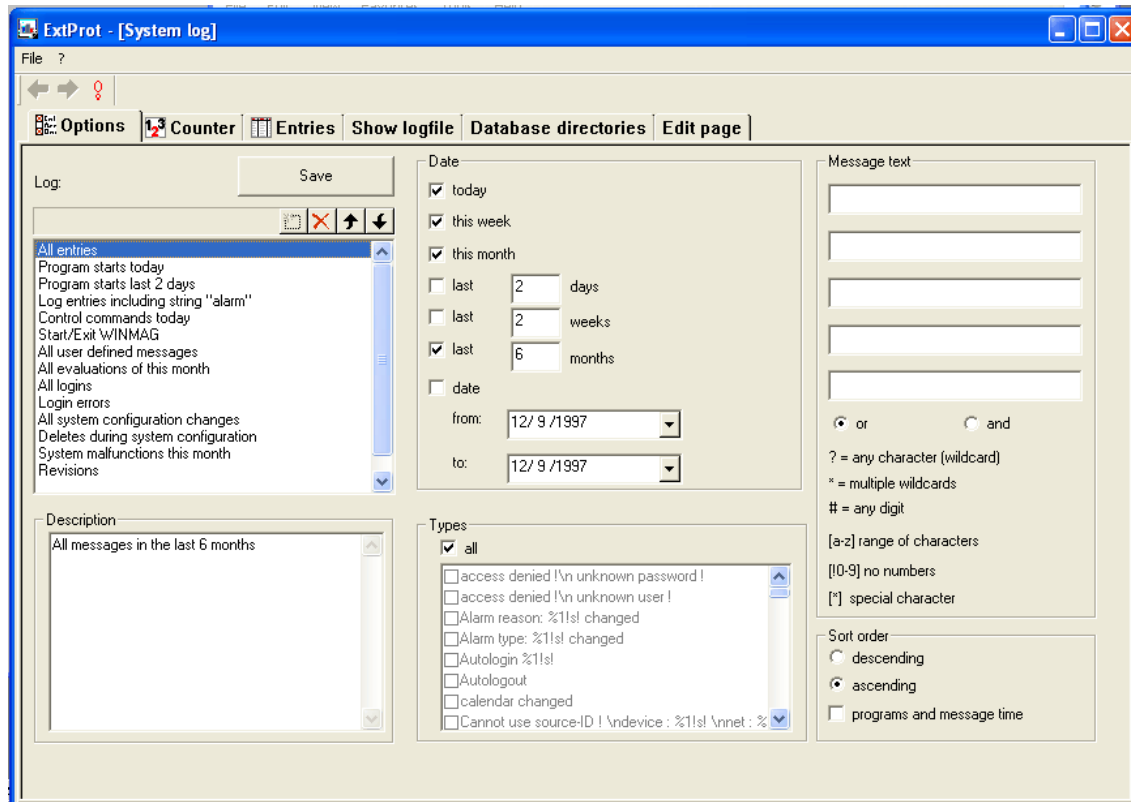
The left-hand subwindow contains a list of selection criteria that have already been saved. A criterion can be selected from the list using the cursor bar.

We recommend the saving of selection criteria if interrogation is always to be performed in the same way. Individual criteria must be entered anew every time the system log is called up if criteria are not saved.

> The storage period saved in the system log is determined in the system options. A log entry can be stored for a maximum of 365 days.

Determining selection criteria

A selection criterion comprises data on the required period of time, type of message, explicit information and sorting sequence.

Selection criteria can be stored and called up when required.

Settings of the first item in the log selection list are displayed after calling up the system log. The default setting "Today's log types" is selected if the list does not yet contain any entries.

The following selections can be set:

- Date: Various days or time periods can be set. Any combination is feasible.

Date	
Selection	**Meaning**
Today	View log entries dated today
This week	View log entries of this week beginning Monday
This month	View log entries of this month beginning with 1st and including today´s date
Last x days	View log entries of the last x days excluding today
Last x weeks	View log entries of the last x weeks, each beginning Monday to Sunday and excluding this week
Last x months	The last x months excluding this month
Date	View log entries of a date period "from" "to" including the dates entered. The current date is default. Entry is realised via a calendar (similar to "Edit calendar")

Message type

- Select all or a selection of message types. Selection of message type is only active if the "all" field has not been activated.

- Alarm texts received with logical links. Up to 5 character strings can be specified that must be contained in a message. Texts can, of course, be linked with **AND / OR**.

    AND   All selected texts must be included in a message

    OR   At least one of the texts must be included in a message

  You can set wildcards using the symbols "?" and "*". These wildcards can be included in a character string.

    ?   = Wildcard

    *   = Multiple wildcards

    #   = Single character

    [*]   = Special character

- Determine the sorting sequence

All entries are generally sorted by descending alarm time, with the latest message at the top of the list. The oldest message is at the top of the list if the sort sequence is ascending. If the option "Programs and message time" is selected, messages are arranged according to program name according to the selection (ascending or descending).

Save selection criteria

Creating and editing of the selection criteria list can only be realised by users authorised to access the system configuration menu. Existing selection criteria can be loaded and temporarily edited for a brief period of time without authorisation. New selection criteria can be created and existing criteria edited or deleted with the buttons above the selection list.

1   2   3   4
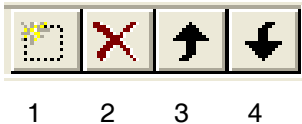
1) Create new user-defined log
● Enter the name of the selection structure after clicking "Enter". The name may also include space characters.
● Optionally, a detailed description of the selection can be entered in the "Description" field.
● Then select the appropriate options in the date, type, message text and sort sequence fields.
● Click **"Save"** to save the current settings.

Edit user-defined log
● Select the user-defined log from the list - the settings are displayed
● Edit as required
● Click **"Save"** to save the edited settings.

Double click the description to edit the description of the user-defined log. An edit margin then appears that permits editing of the description. This change should also be terminated with "Save".
An existing selection can be edited and displayed once if changes are not saved.

2) Delete user-defined log
● Select the user-defined log to be deleted from the list.
● Click "delete" - the item is deleted without warning.
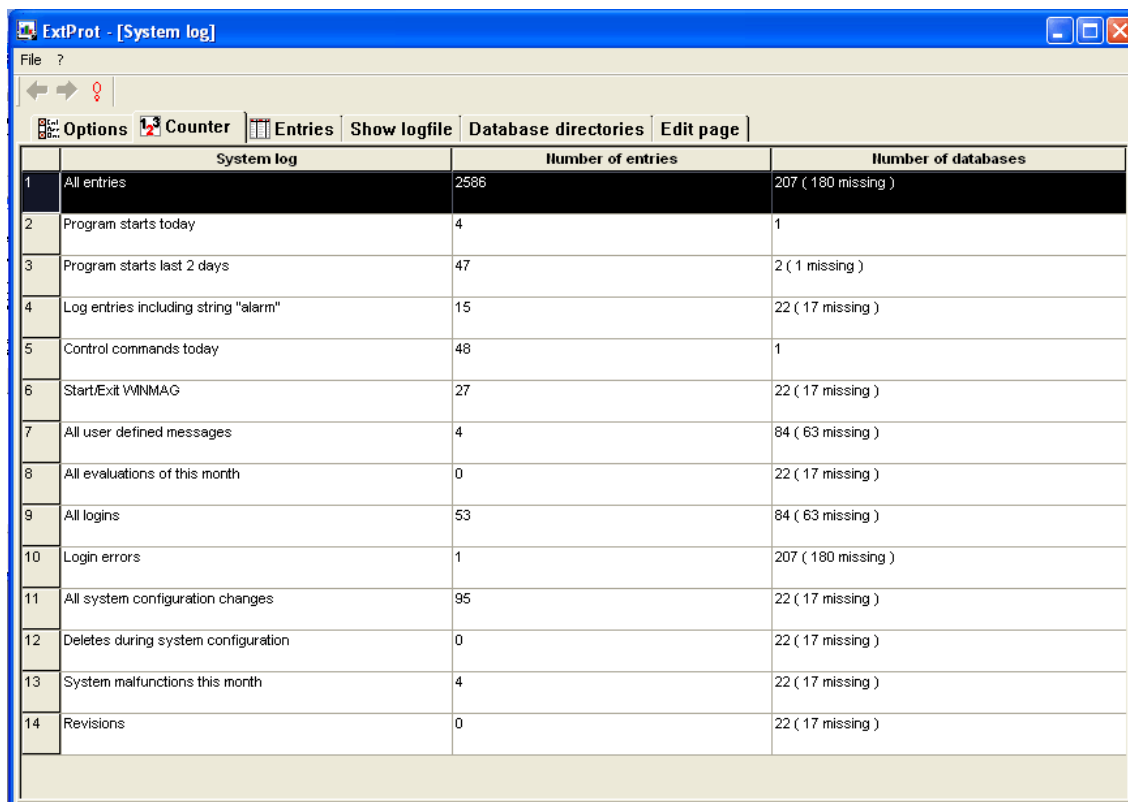
3,4) Edit sequence of user-defined logs

The items are sorted according to date of creation. An item can be moved upwards or downwards in the list using the arrow keys. The first item is of special significance, as its settings are always set when the option dialog box is opened.

5.8.1.2   Counter

The number of entries is displayed in the form of a table after the **"Counter"** tab is selected.
The number of entries for each selection criterion saved in the options are listed numerically.

	System log	Number of entries	Number of databases
1	All entries	2586	207 (180 missing)
2	Program starts today	4	1
3	Program starts last 2 days	47	2 (1 missing)
4	Log entries including string "alarm"	15	22 (17 missing)
5	Control commands today	48	1
6	Start/Exit WINMAG	27	22 (17 missing)
7	All user defined messages	4	84 (63 missing)
8	All evaluations of this month	0	22 (17 missing)
9	All logins	53	84 (63 missing)
10	Login errors	1	207 (180 missing)
11	All system configuration changes	95	22 (17 missing)
12	Deletes during system configuration	0	22 (17 missing)
13	System malfunctions this month	4	22 (17 missing)
14	Revisions	0	22 (17 missing)

Selection names are used as item names. Two selections with an identical name cannot be differentiated in the list
(e.g. program starts).
The settings included in the options are taken into consideration.
The associated items of a marked line can be viewed by selecting the **"Entries"** tab.

5.8.1.3   View selected entries

The selected entries are displayed in the form of a table after the **"Entries"** tab in the header is selected. The "Entries" tab contains the selected items.
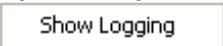

The table displays the items selected in 4 columns according to the sorting sequence chosen:

- Station number at which the message was created (computer event address)
- Message time with date and time of message.
- Message as text (which may comprise different variables).
- Protocol file name where a sequence protocol was created

The area displayed can be changed using the scroll bar at the right margin if more items exist than can be displayed in the log window.

● Click the up arrow to view the next item "page up" and click the down arrow to view the next item "page down".

● Click just above or just below the scroll bar to go to one page "up" or one page "down"

● Click the scroll bar and keep the mouse button held down to move the displayed section in the direction selected.

Select an entry in the log file column to move to the associated program log.

Actuate the   Show Logging   button that appears on the cursor for this purpose.

5.8.1.4   View log entry

The log selected in the "**Entries**" dialog is displayed after selecting the "**View log entry**" tab in the dialog header,
.

The Quickinfo bar indicates the log file path if the cursor is positioned over the "**View log entry**" tab.

Use the ⬅ ➡ arrows to leaf forwards or backwards where logs containing several pages are involved.
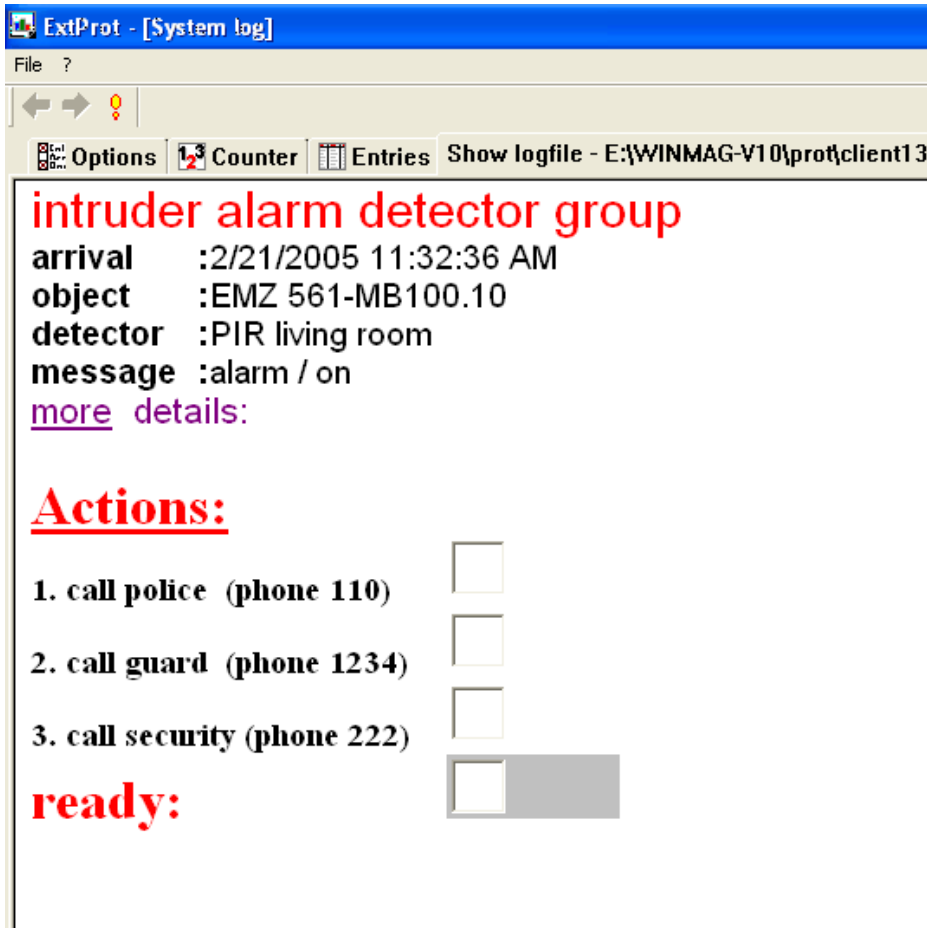
5.8.1.5 Display DB directories

Database directories are displayed after selecting the "**DB directories**" in the dialog header.
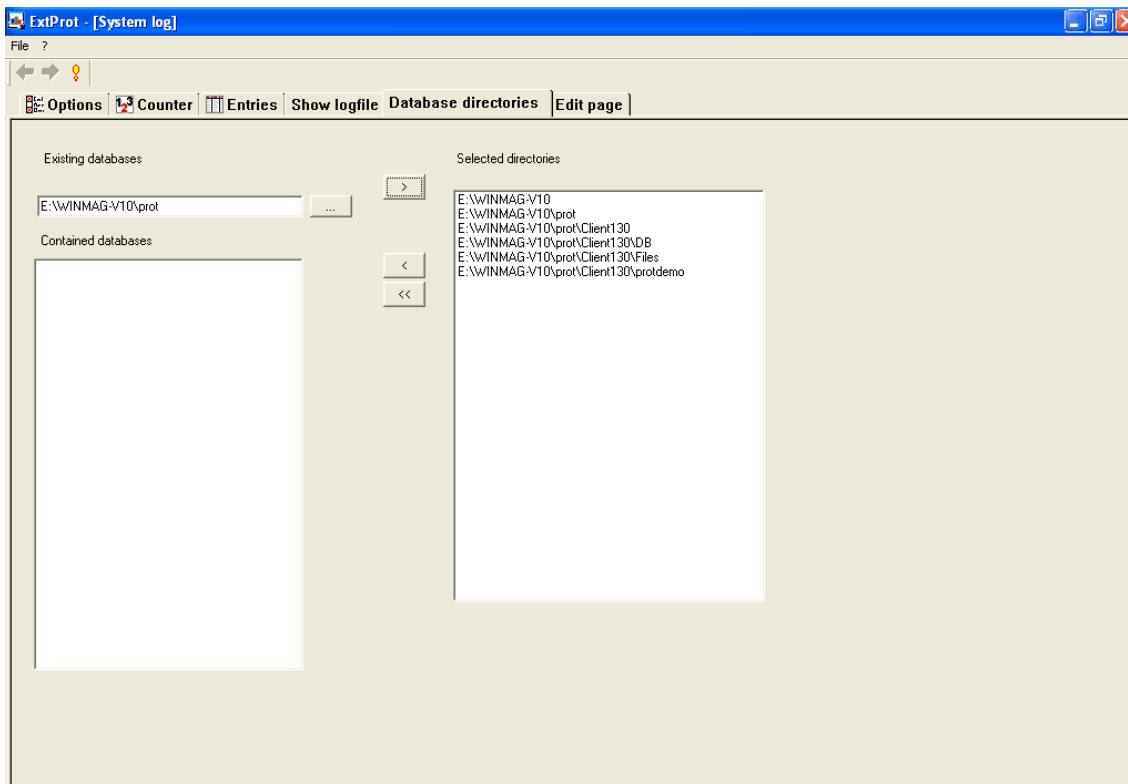
The path to the databases listed in the "Databases" window is displayed in the "Existing databases" text window.

A window opens when the [...] is selected which is used to search for a directory with log databases.

The selected directory is exported to the "Selected directories" text window with the [>] button.

A marked directory is deleted from the "Selected directories" text window with the [<] button.

All directories are deleted from the "Selected directories" text window with the [<<] button.
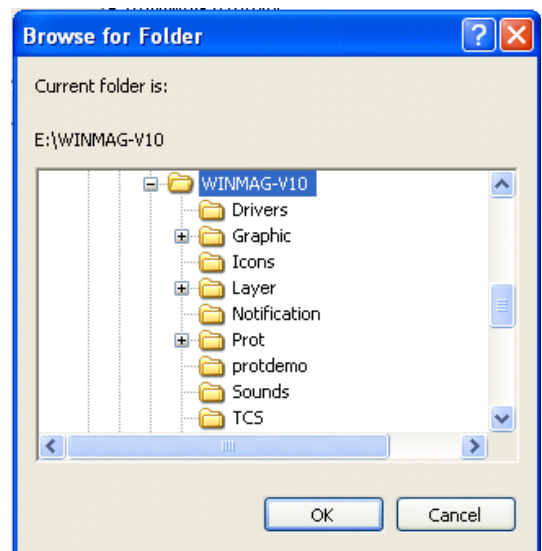
5.8.1.6   Page setup

A window appears in which print can be set up after selecting the "**Page setup**" tab in the dialog header.
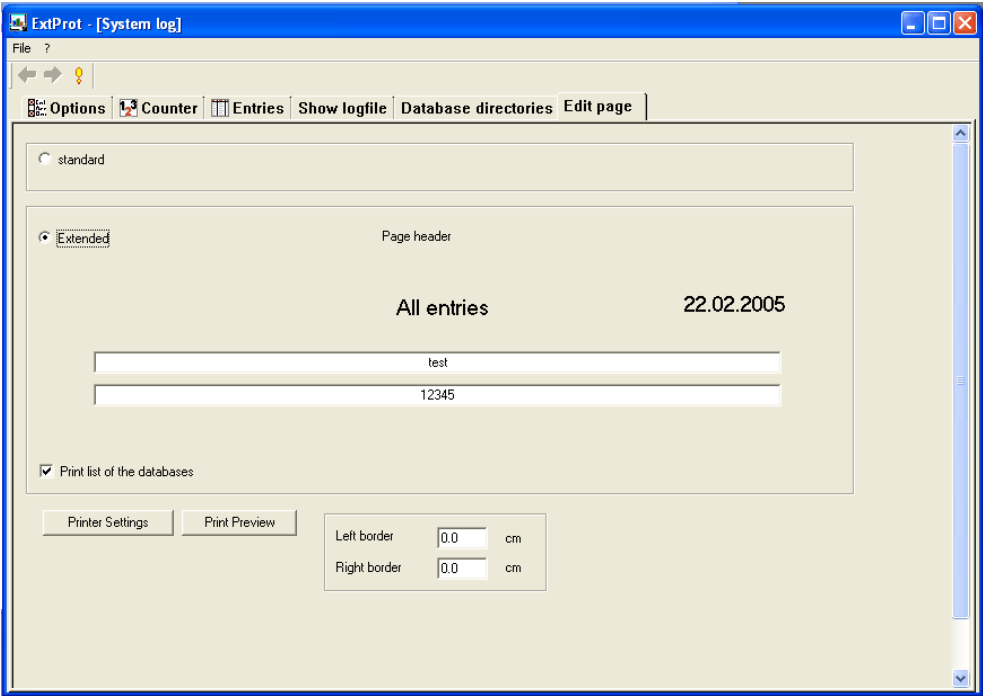

The log is printed as a text without a header if the "Standard" option is selected.

The log is printed with a header and page number if the "Further option" is selected. Individual text for headers can be entered in both text fields.

The list is printed by activating the "Print database list" button.

The standard dialog for printer selection and setup appears when the "Printer setup" button is selected.
The marginal dimensions are entered in the left margin and right margin text fields (in addition to the margins already set by the printer).
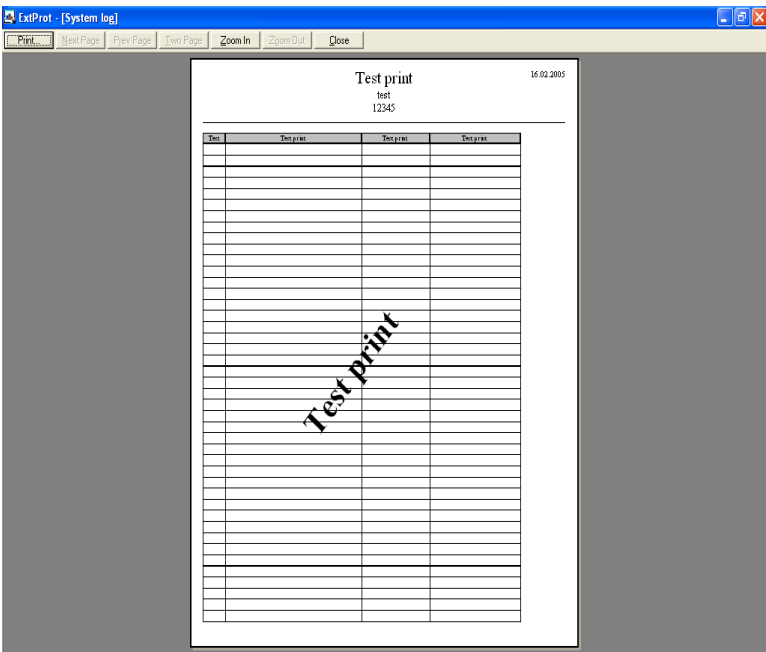
A preview of the page is displayed when the "Preview" button is pressed.

6. File management

6.1 Data safeguarding

So as to be able to retrieve WINMAG plus data should computer problems or editing errors occur we recommend the storing of user-specific data and configuration data on other media.
At the very least, you should have a copy of the most important files such as the database "WINMAG.mdb" stored in your PC.
It is also advisable to make a backup of data before performing extensive editing work.

The most important files containing user-specific data are:

♦   in the WINMAG plus main directory

  •   system database winmag.mdb

  •   the configuration files igisdrv.ini, video.ini, winmag.ini

♦   Program files included in the directory WINMAGEX

♦   Drawings contained in the directory ZEICH or GRAPHIC other directories

♦   Driver configuration files contained in the directory DRIVERS

♦   Logs in PROT / Client XXX directory

  ▸   DB directory with log databases with days current names

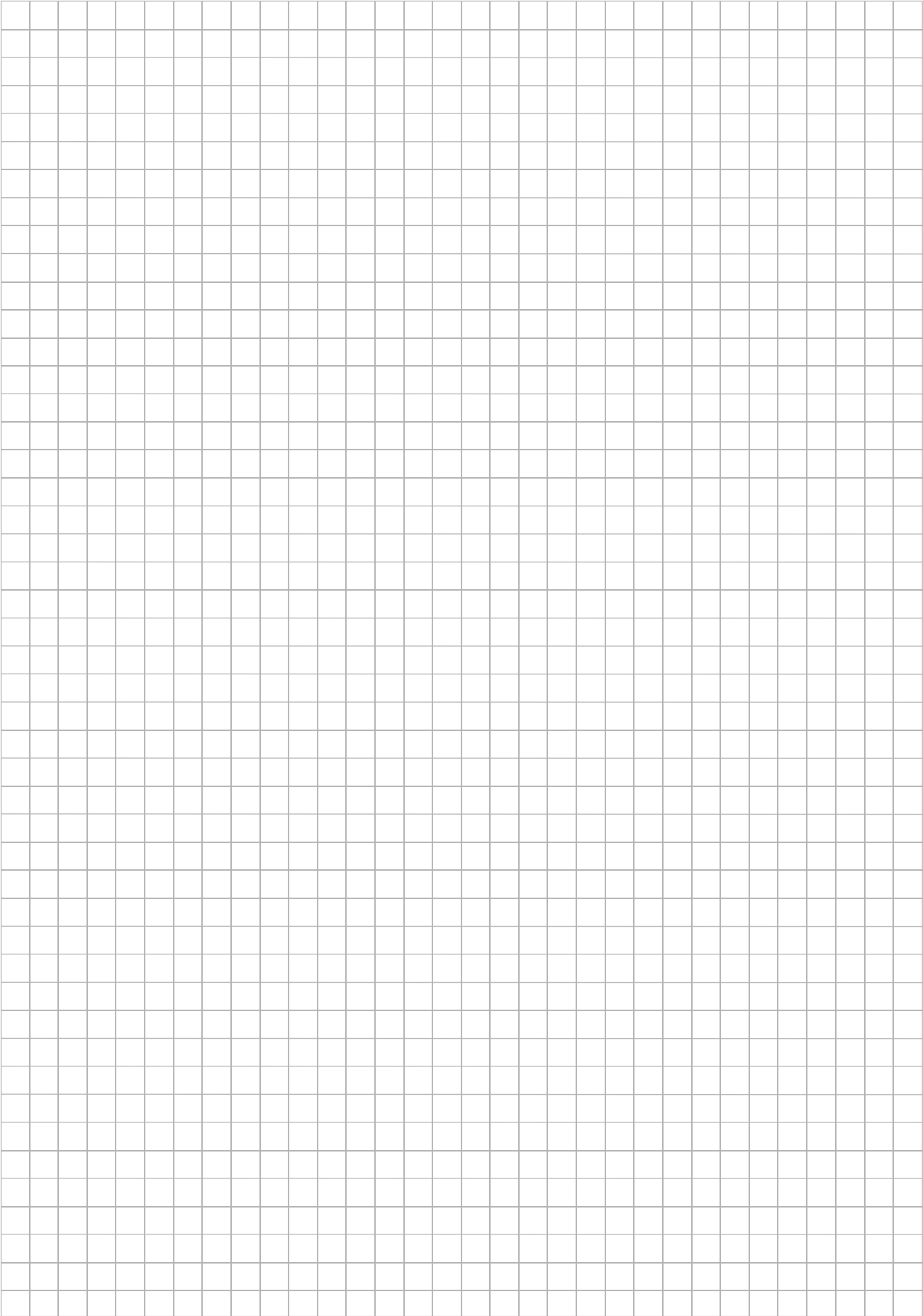 ▸   Files directory with individual logs

As some of these files are too large to be stored on a disk, we recommend the use of removable media such as CD, tapes, MO drives, removable hard disks, network connection, ZIP drives, superdisk, etc.
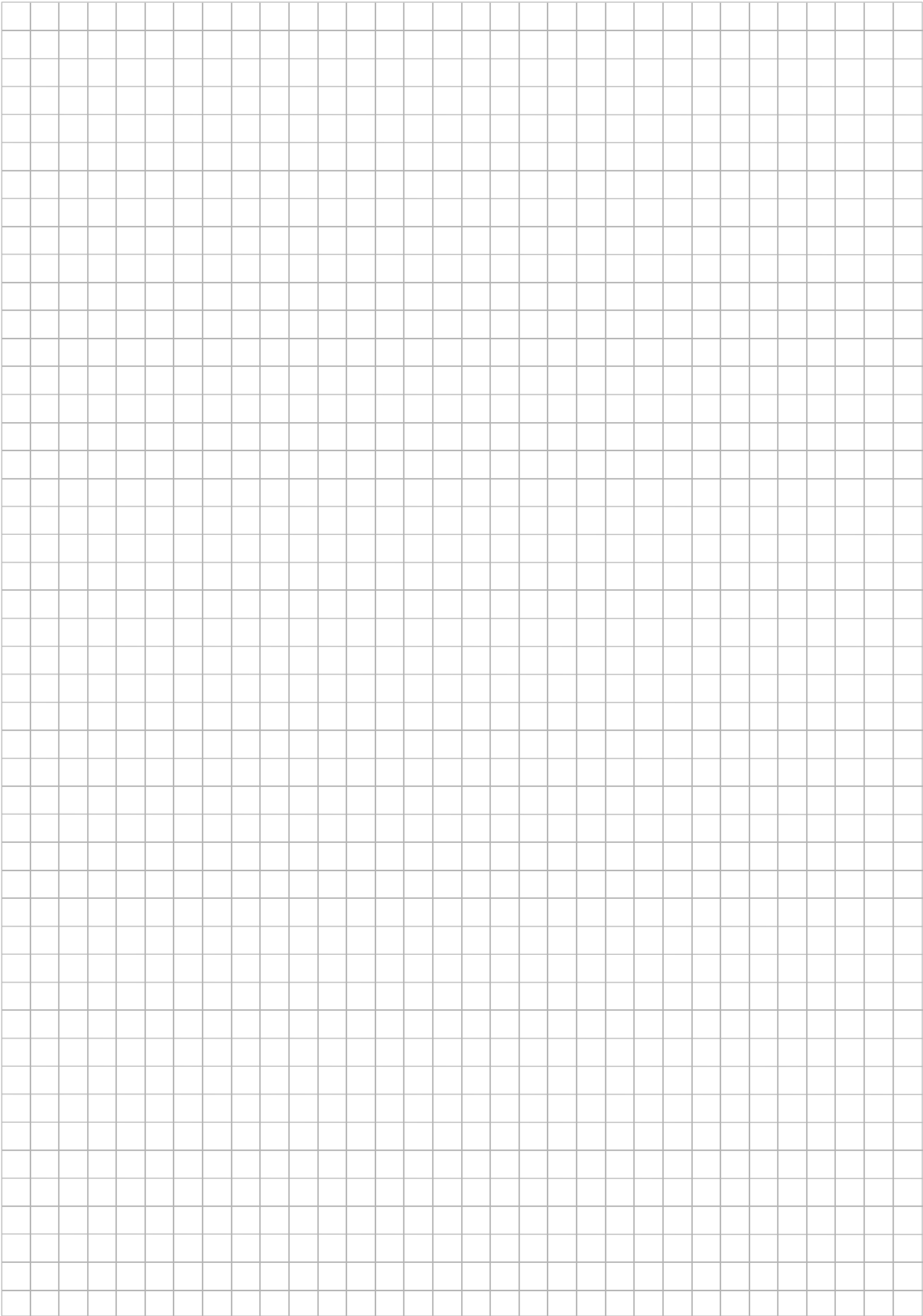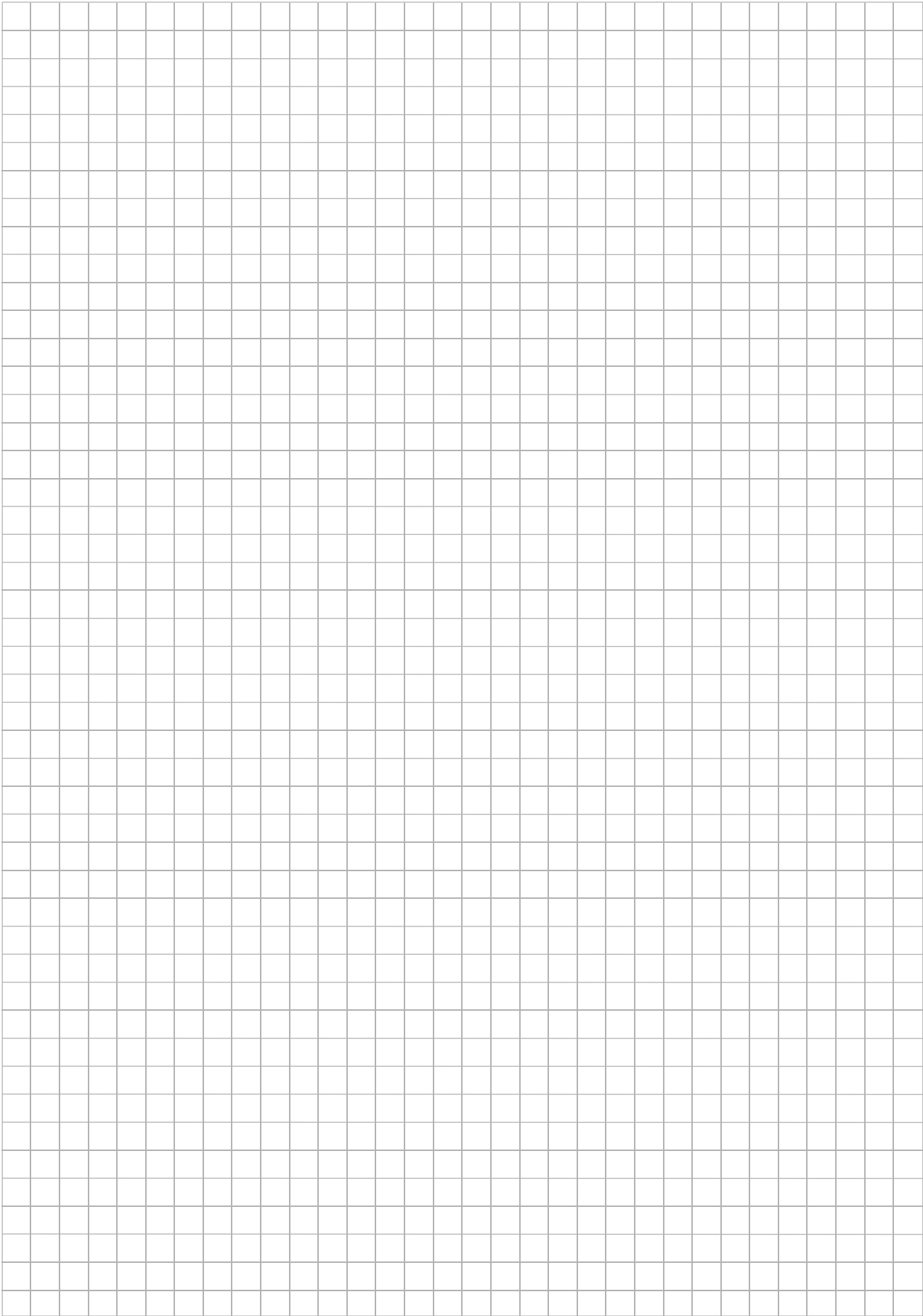

Compressing files:

Using an appropriate program, many files can be compressed and thus take up less space when they are copied.
The database file "WINMAG.MDB" is an exception as this file is coded and thus cannot be properly compressed.

7.   Notes

Honeywell

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