Honeywell

Programming Manual

WINMAG plus
Item No. 013610

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

	P03126-05-0G0-03	Software-Version V02.xx	Subject to change without notice
	2008-03-31		

Table of Contents

Introduction

The information contained in this manual can be updated by us at any time without prior notice and shall not be regarded as binding. Novar GmbH accepts no obligation or liability should errors or inaccuracies occur in this manual.

We would like to point out that, in spite of extensive tests, we cannot guarantee faultless functioning in your system due to the numerous hardware manufacturers and the possible resulting hardware configurations.

The WINMAG plus-Documentation consists of the following documents:

- the Installation instructions (P03126-26)
- the Operating instructions (P03126-03)
- the Operating instructions for WINMAG Lite (P03128-03)
- the Programming manual (P03126-05)
- Lists of the i/o devices and tables for WINMAG plus (P03126-24) with tables of the types of i/o devices, symbols, alarm types,...

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 2003, 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 a single-user system on one PC 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, the essernet, 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.

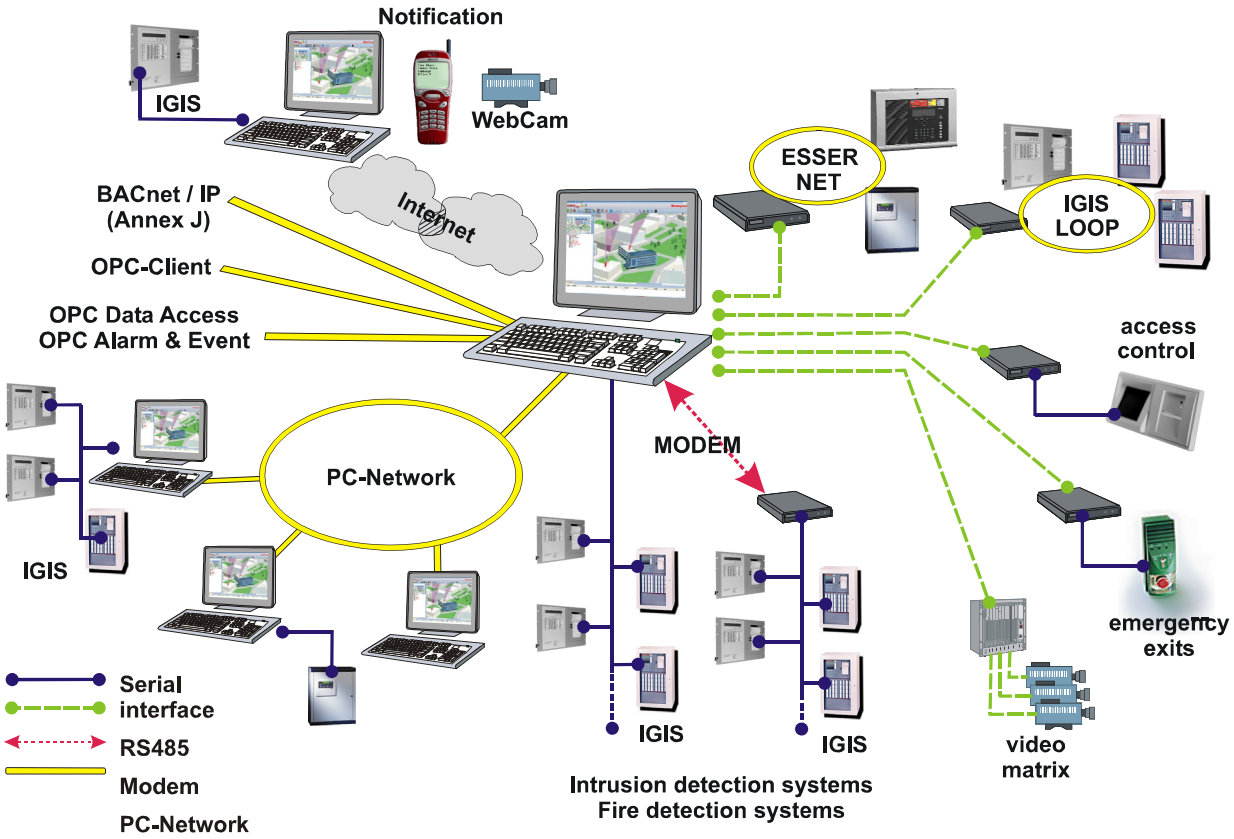
The operating mode of the WINMAG plus system is based on data received from linked networks, modem or from PCs and the comparing of the data received with those conditions stored in the system. All messages are provided with an unambiguous address created from network number, device address and I/O device.
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 2003, Windows XP professional and Windows Vista. If this should not be the case, please refer to your PC user manual and the user manuals for *Microsoft Windows Windows 2003 / Windows XP / Windows Vista*.

Configuration



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 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 InternetServer (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).

The CD also contains the WINMAG -Lite program, the inexpensive starter version for one object (network) with a maximum of 500 I/O points. Demo-version limitations in WINMAG-Lite are identical to those in WINMAG plus. An inquiry as to whether WINMAG plus or WINMAG-Lite should be installed is generated during installation.

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 “IQ-MultiAccess” and “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-MultiAccess” 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 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\WINMAGplus.
On the client computer, WINMAG plus is to be found under c:\”path to local WINMAGplus”.
A shortcut is created at the client that has the destination:

C:\<path to local WINMAGplus>\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 V01.x to V02.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 optional 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 executed of the ordering of a dongle and a licence file. The licence includes individual specifications and enabled options.

The following specifications must be known for licensing:

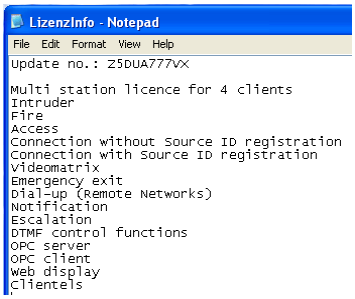
- Name of customer
- New licence, update, upgrade
- Type of dongle (parallel or USP port)
- Connection structure (=> number of dongles, options)
- Update number.

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 WEBX	O
Licence DEZ	O
Licence Redundancy	O
Licence Multimonitor	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 dialogue 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_XXXXXXXXXX.txt" contains a list of all licence parameters.
During installation or when updating, WINMAG plus loads this file into the WINMAG plus master directory.
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_XXXXXXXXXX.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_XXXXXXXXXX.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 plus 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
- 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 options
- 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 -PC-interface

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 (conventional):

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

With video drive (digital):

- connection on recorder or *view

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

Caution with Windows XP

It can happen that GDI objects are not enabled with the WINDOWS XP operating system and the system is troubled as a result. It is imperative that the following be realised to avoid this:

- The classic display screen must be set
  (Start/Settings/System control/Display/Designs/Windows classic) or
- The visual designs should be deactivated in the WINMAG plus link
  (Properties/Compatibility/Display settings/Deactivate visual designs) or
- the following WINDOWS-Patch must be installed (pay attention to the language when downloading):
  http://www.microsoft.com/downloads/details.aspx?familyid=9B5EDFC8-A4BB-4080-9063-6518166E2DAB&displaylang=en

3 Connections to WINMAG plus

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

The following interfaces are possible:

- 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

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 ConnectionServer is available for creating a relatively easy connection.

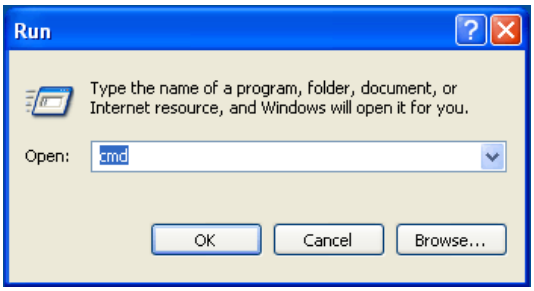
3.1 Application configuration incorrect

If WINMAG plus or a WINMAG plus driver is installed on a network, the following message may appear:

The operating system WINDOWS provides security guidelines for network drives that have the same effect as a blocking function. This means that programs (exe-files) can only be started by other computers within networks after the relevant security guideline has been deactivated. This can in turn only be deactivated by Administrator rights.

Deactivate security guideline :

Find the Caspol file on the WINMAG plus drive. The file usually appears more than once. To deactivate the security guideline, you require the following path **X:\WINDOWS\Microsoft.NET\Framework\v2.0.50727** (**X:** stands for the drive on which the operating system is installed).



First start the command line run in the windows start window, and confirm with OK.

In the DOS window that then appears, navigate to the path: **X:\WINDOWS\Microsoft.NET\Framework\v2.0.50727** and enter the characters in the following order:

Note: Pay attention to small/block letters!

caspol -machine -addgroup 1. url file://W:* FullTrust
(W: stands for the connected WINMAG master drive)

Press the “Enter” key to confirm deactivation of the security guideline for this computer. WINMAG plus or the corresponding exe-file can now be started.

Deactivate the security guideline for each computer separately.
(See also “Edit Online”)

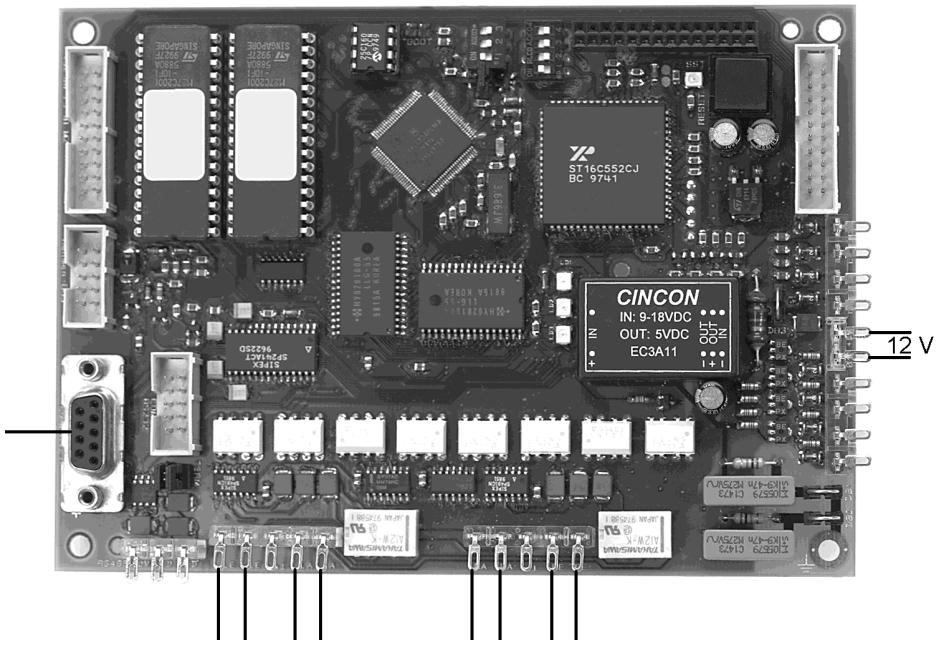
3.2 Connection to the IGIS network

3.2.1 IGIS-Loop connection

The connection of a PC/laptop to one or more IGIS-Loop networks is executed via the IGIS loop controller (Item No. 013330.10, 013331.10 in housing ZG0, 013332.10 in housing ZG2). Parameter values are set at the controller via micro switch and the “IGIT” program (e.g. defining of the ring bus address = loop number, ring bus sub address = loop controller address.

The interface is connected to a PC serial interface using a 1:1 cable.

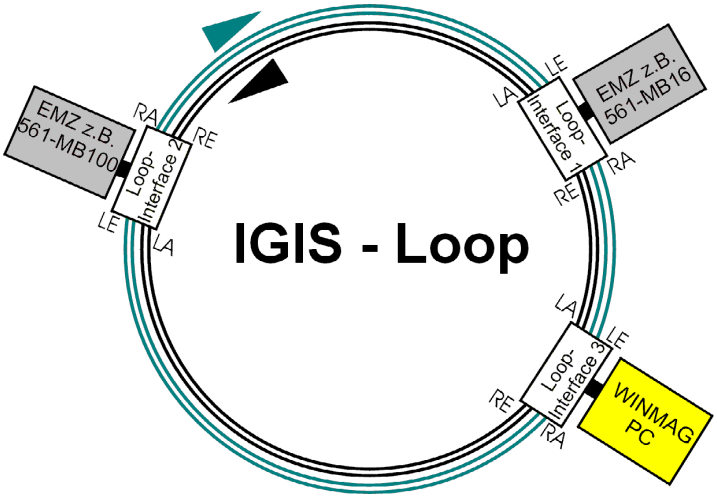
The IGIS-Loop software version V01.00 can only be executed with the V24 connector version VO2.00. The V24 connector version VO3.00 or higher requires at least the IGIS-Loop software version P02.02.



(Left) IGIS-Loop connections (Right)
2 retrogade, decoupled RS 422 paths

The ring cable is a 4-wire (twisted pair) cable. When connecting to components, please observe correct direction (i.e. left output to right input and vice-versa) between the controllers.

Every loop has a unique address, the ring bus address (in example 0). Every controller has a unique ring bus sub-address. The 3 address parameter (IGIT) refers to the K-bus address of the controller. This 3rd address must not be set in WINMAG plus.



3.2.1.1 User address allocation within the security network IGIS-LOOP

So as to be able to address every user

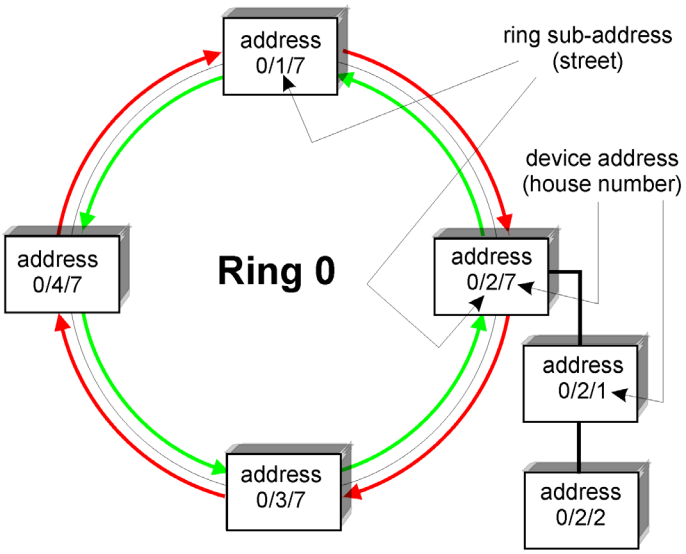
within the network it must be positively identified. Identification is executed using the “user address”. This user address is input into the respective system component of the hazard detection system as a 3 byte address.

The user address is comprising:

- Ring address
- Ring sub-address
- Device address

Address - ring sub address (street)

Device address (house number)



3.2.1.1.1 Ring address

Address of the ring in which the user is available.

The ring address can be compared with the specification of a “town”.

3.2.1.1.2 Ring sub-address

So as to clearly identify a group of devices (e.g. fire detection computer, operating unit) branching off a ring, a ring sub-address is required. The ring sub-address designates a stub line branching off from a ring. Every stub line leaving a ring must have its own ring sub-address. The ring sub-address can be compared with the specification of a “street”.

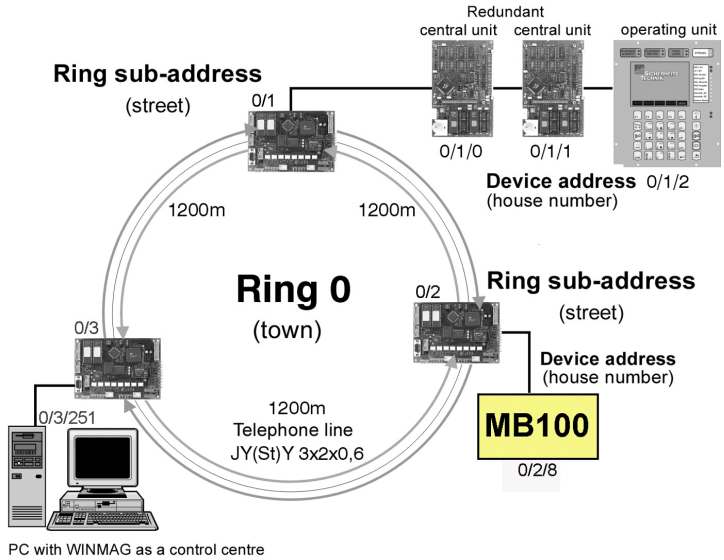
3.2.1.1.3 Device address

The “device address” clearly identifies a device available within a group of system components. Thereby, the respective system components (e.g. remote operating unit) could all be installed on one stub line. Depending on complexity, the device address could also be an individual component (e.g. computer pcb of a fire detection computer) of a hazard detection system.

The device address can be compared with the specification of a “house number”.

Please refer to the respective Installation Manual or Programming Manual for restrictions regarding the allocation of addresses and for information on “reserved” device addresses.

3.2.1.1.4 Configuration example



The example illustrates the configuration and networking of an IGIS loop network with fire detection computer FDC 1024-G, MB 100 and a WINMAG plus control software.

Network configuration in WINMAG plus:

An IP address or a host name must have been assigned to the computer in the network configuration (see Chapter 4.2.2.3.2 Edit WINMAG plus stations).

A network must be created for every node.

Network for ring subaddresses 0/1 (FDC1024):

Name:	e.g. IGIS loop 0 node 1
Address of PC:	251 (default)
Ring address:	0
Ring subaddress:	1
Virtual address:	Adopt suggestion (9000)
Port:	Serial
Port address:	Serial interface used at PC (e.g. COM1=1)
Type of driver:	TCP/IP enables drivers to be performed on other computers. TCP/IP must be installed. Shared memory can be used if WINMAG plus and driver are executed on one computer.

The central control unit is inserted in the network as an object. Select the newly created network “IGIS loop 0 node 1” and insert an object “FDC1024”.

Object data:

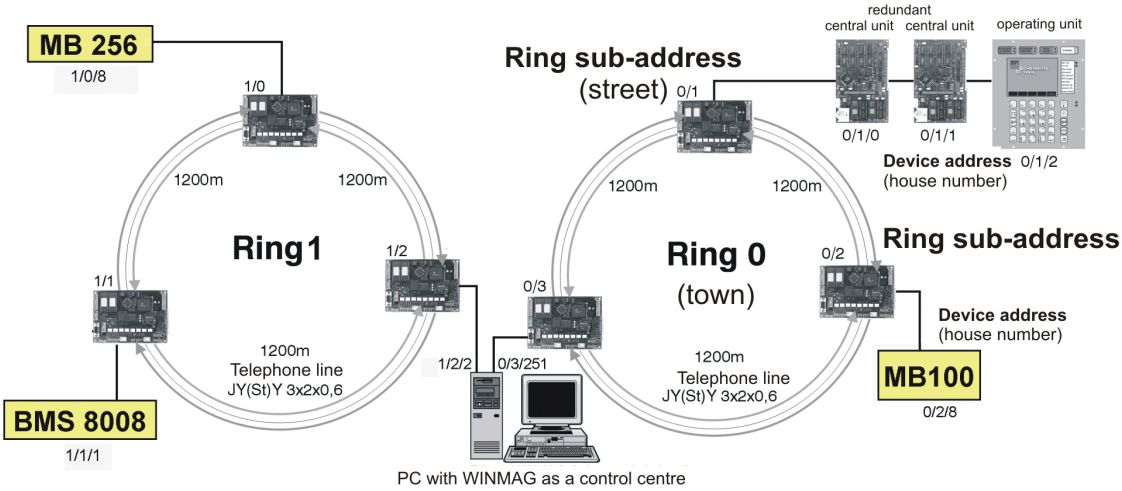
Name:	e.g. FDC 1024 0-1
Address of end unit:	0 (=central computer)
Access code:	e.g. 12345678 (as programmed in the central control unit)

Network for ring subaddress 0/2 (MB 100):

Name:	e.g. IGIS loop 0 node 2
Address of PC:	251 (default)
Ring address:	0
Ring subaddress:	2
Virtual address:	Adopt suggestion (9001)
Port:	Serial
Port address:	Serial interface used at PC (e.g. COM1=1)

Object data:

Name:	e.g. MB 100 0-2
Address of end unit:	8
Access code:	e.g. 1232456 (as programmed in the central control unit)



The example illustrates the configuration and networking of two IGIS loop networks with fire detection computer FDC 1024-F, MB 100, MB256, BMS8008 and a WINMAG plus control software.

Network configuration in WINMAG plus:

An IP address or a host name must have been assigned to the computer in the network configuration (see Chapter 4.2.2.3.2 Edit WINMAG plus stations).
A network must be created for every node.
For mixed configurations with central control units of series 8008 and HB- and/or MB-units the adresses of the PC´s must be >31.

Network for ring 0 as in example 1:
Network for ring subaddress 1/0 (MB256):

Name:	e.g. IGIS loop 1 node 0
Address of PC:	2
Ring address:	1
Ring subaddress:	0
Virtual address:	Adopt suggestion (9002)
Port:	Serial
Port address:	Serial interface used at PC (e.g. COM2=2)
Type of driver:	TCP/IP or shared memory
Object data:	
Name:	e.g. MB 256 1-0
Address of end unit:	8
Access code:	e.g. 12345678 (as programmed in the central control unit)

Network for ring sub address 1/1 /BMS8008):

Prerequisites:	IGIS loop controller from V03, Essernet-compatible central control unit software, IGIS loop micromodule for Esser central control units)
Name:	e.g. IGIS loop 1 node 1
Address of PC:	2 (all ESSER components in an IGIS loop system must be configured with an address from 1 to 32 consecutively. If e.g. address 1 has been assigned to the central control unit and there is no further ESSER central control unit in the loop, the PC must be assigned address 2.
Ring address:	1
Ring subaddress:	1
Virtual address:	Adopt suggestion (9003)
Port:	Serial
Port address:	Serial interface used at PC (e.g. COM2=2)
Type of driver:	TCP/IP or shared memory
Object data:	
Name:	e.g. BMS 8008 1-1
Address of end unit:	1
Access code:	0

One IGIS loop driver is started for both loops.

3.3 Dial-up connection

WINMAG plus can communicate with remote systems and remote networks via modem. Both (also distributed) analog and ISDN modems are supported. To permit modem connection, the following requirements must be fulfilled:

- Modem installed and setup (PC) as per mode of connection (analog/ISDN).
- Component or network must be equipped with modem (DGA 2400/DS7500).
- Configuration of the object in WINMAG plus via “Remote network”.
- RemoteServer must be installed and started.

Installation of the “RemoteServer” may be executed when you install WINMAG plus and select “RemoteServer”. You can also install the RemoteServer at a later date by restarting the installation of WINMAG plus. To do this, you must select the option “Edit program” and activate the check box “RemoteServer” included in the server dialogue box.

RemoteServer is required for establishing connection and must be started before WINMAG plus is started.

We recommend considering the filtering of data for data transfer as:
- the transfer of data via the telephone network is subject to fee
- data transfer rate (especially analog transfer) via modem is limited

3.4 Event protocol connection

The default data communication protocol between WINMAG plus and other applications such as MultiAccess, RemoteServer, video servers, escape route connection or other WINMAG plus work stations is the Honeywell event protocol.
The event protocol permits the protected, monitored transport of alarms/messages via computer-internal routes or computer networking.

- The computer-internal network uses a “shared memory” driver.
- The PC network uses a TCP/IP driver. Hereto, a computer network must exist and the computers must be equipped with TCP/IP.

Networking is executed by way of the allocation of unique “virtual addresses” to every component used. Components are the individual PCs and the networks to which data is transferred.

The drivers for using the event protocol are installed together with WINMAG plus.

A corresponding option must be obtained for using this connection.
Examples of options:

Art. No. 013603	option access control
Art. No. 013604	option video technology
Art. No. 013605	option escape route
Art. No. 013625	option WINMAG plus client

3.5 General connection via the ConnectionServer

The ConnectionServer facilitates the creation of drivers for the connection of third-party products to WINMAG plus.
It is like a shell that facilitates the viewing of the event protocol. It encapsulates the event protocol transactions (communication from drivers to WINMAG plus) and supplies a simple programming interface applying only a few instructions. Conversion for the connection of third-party products must be executed individually. You can obtain an interface description for the ConnectionServer that includes error codes from an actual connection example and the instruction structure. If you procure the ConnectionServer Developer Kit, Art. No. 013607 you have also obtained 1-2 days Honeywell support.

Examples for the connection via the event protocol (please refer to EP configuration for description)

Honeywell: FTServer 925, UltiAccess from V2, RemoteServer for modem connection, V24Conn. Video Matrix Switchers, Honeywell Maxpro 32, Philips, Ernitec, Esser 5008, Essernet (from 2001), ..
Other: Third-party drivers offered by Honeywell clients for connection to EIB, Siemens, Cerberus etc. Please feel free to contact Honeywell for more information on drivers.

3.6 Interface via OPC server

3.6.1 General

The use of the OPC server and the OPC client requires basic knowledge of OPC and DCOM.

OPC is the abbreviation for “OLE for process control”. OPC is a standardized OPC foundation software interface for exchanging process data between applications. OPC is based on the Microsoft COM/ DCOM technology. DCOM enables access via a network. OPC is in the process of becoming established as the standard data interface in automation technology. The WINMAG plus OPC server is a additional option that can be enabled via the dongle. This option enables the use of WINMAG plus as an OPC server. The WINMAG plus OPC server is integrated in the WINMAG plus installation as a component. When queried by a client, the OPC server provides no data without being enabled. In offline mode, data are available for test purposes.

For connection purposes, WINMAG plus can be operated in a mode without an interface so that WINMAG plus components are only applicable to the user during configuration or in case of an error. The WINMAG plus interface is controlled via the file “options.ini” in the WINMAG plus master directory. If the file exists, the following setting is possible:
[OPC]OPConly = true reduced interface for OPC operation only.

3.6.2 Use of the OPC server

An OPC data access server is a software package, that provides other programs (OPC clients) with process data according to defined (fixed) regulations (OPC specification). OPC data access servers are mainly used as a substitute for device drivers that would otherwise have manufacturer-specific interfaces. With random OPC clients, it is then possible to exchange process data provided by the OPC server.

The OPC server is started automatically if this is requested by a random client. Several OPC clients can create a connection simultaneously to the OPC server.
When the OPC server is actively connected with a client, you cannot exit WINMAG plus!

3.6.3 OPC interfaces

Not only the interfaces required according to the OPC specification Data Access 2.04, but also the browsing interface is supported. This enables an OPC client to browse same without having knowledge of the address space.

Browsing means requesting the existing address structure of an OPC server and enables the simple selection of tags and communication with the tags without knowing the addressing syntax of the OPC server.

The following OPC connections are supported by the OPC interface:

supported OPC- Interfaces	**OPC- DA 2.04**
IOPCCommon	Required
IOPCServer	Required
IConnectionPointContainer (OPCServer)	Required
IOPCItemProperties	Required
IOPCBrowseServerAddressSpace	Optional
IOPCItemMgt	Required
IOPCGroupStateMgt	Required
IOPCSyncIO	Required
IOPCAsyncIO2	Required
IConnectionPointContainer (OPCGroup)	Required

3.6.4 Display of WINMAG plus data types on OPC data types

In the WINMAG plus system, process variables are managed as enumators and can have max. 16 function values. Description texts can be allocated to these discreet values. Access to the process values is via their discreet value or the description text.

In the OPC server, the process values and the numerical values are also managed as texts. Allocation to OPC data types is as follows:

Texts are always displayed on VT_BSTR

Numerical values are displayed on VT_UI1.

- The statuses of an I/O point, objects or network are also displayed as a total

of 8 statuses (break down in Nibbel) as a VT_14 value (the value must be evaluated unsigned).

- The OPC clients enable mapping to all other supported OPC data types.

OPC access rights

The OPC access rights are displayed on the WINMAG plus variables as follows:

- **WINMAG plus InTags** have READ access

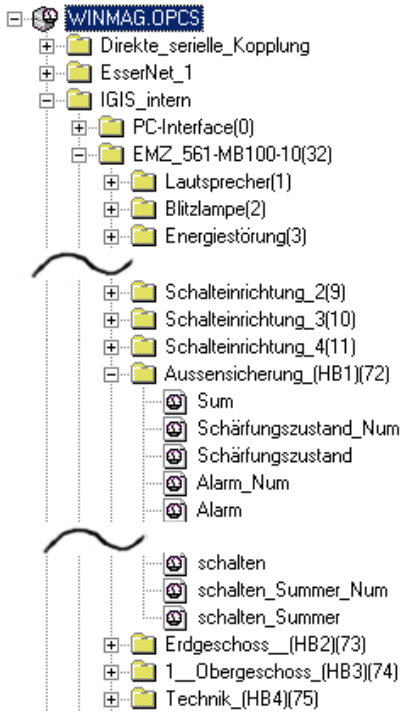
- **WINMAG plus OutTags** have WRITE access

Option: All OutTags are readable with read_write access.

This option is required should a client demand a read process before a write process. The read out values are only fictitious, constant values and only exist so that the read request is fulfilled.

3.6.5 Address space structure

The address space uses the WINMAG plus address structure.



At the 1st level the configured networks appear.

At the 2nd level, the objects used for the network appear. For every object the I/O points of the objects are at the 3rd level.

The statuses are at the 4th level within the I/O points. Depending on the type of object/network, statuses are also possible at the 2nd or 3rd level (statuses of the network/object). The statuses (max. 8) of an I/O point, or network are also imaged as a total.

OPC tags are only allocated to the statuses and/or the “total” of the statuses. All other structure elements only contain information for addressing. The OPC tags allocated to the statuses enable access to the discreet process values and to the description texts allocated to the values. For this purpose, an OPC tag is created for representing the discreet values, a tag for the descriptions and a tag per network or I/O point for the “total” of the statuses.

3.7 OPC client interface

3.7.1 General

The use of the OPC server and the OPC client requires basic knowledge of OPC and DCOM.

The OPC client is an additional option that can be enabled via the dongle. With this option, WINMAG plus can represent data from external systems with an OPC interface.

The OPC client is integrated as a component in WINMAG plus installation. Command line options must be entered for this purpose.

3.7.2 Program start

The OPC client can only be started with command line options. If no options are entered, an error message is transmitted. Options are as follows:

The network must be defined, before the client is started.
Invoking the client for the above-mentioned example and the standard WINMAG plus database path would thus be as follows:
WMOPCClient.exe /DB “C:\Programme\WINMAG plus” /Netname “TestOPCClient”

Options:

/DB	Path for WINMAG plus configuration database (Standard: “C:\Programme\WINMAG plus”)
/Netname	Network name of the event network
	or
/NetID	ID of the event network
/CfgFile	File name of a configuration file (*.WOC). If this is defined, it will be automatically loaded when started and communication with the OPC server commences.

If the configuration file default.woc exists, this is automatically loaded (see also 3.6.3.4 store configuration file).

3.7.3 Configuration and operation

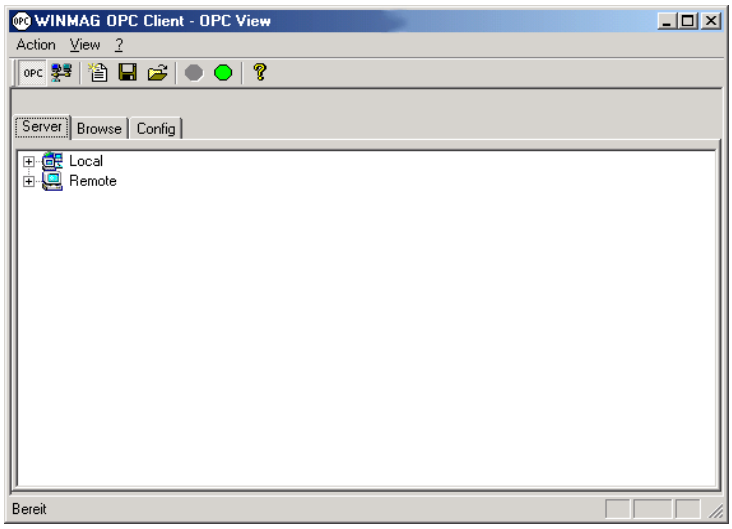
3.7.3.1 General

After starting the client, an icon appears at the right in the tool bar  .

This has a context menu (right mouse button).

Click “OPC View” to display the main window:

Use the three tabs at the top to display different information windows:

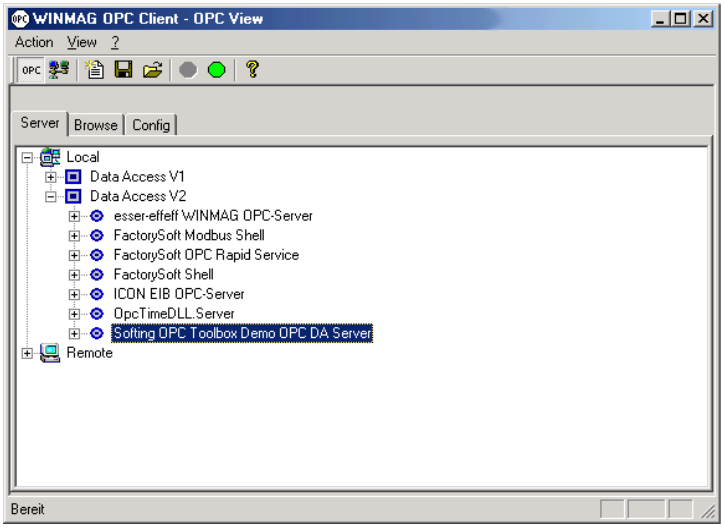


Server for finding OPC servers and entering in the configuration

Browse for finding data points and entering data points in the configuration

Config for displaying and editing the current configuration (data points, tags)

3.7.3.2 Add server



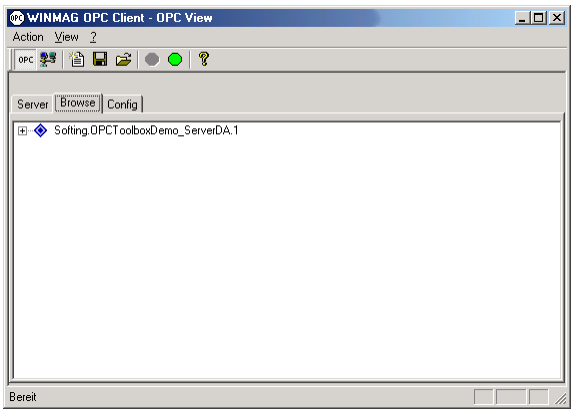
In the “server”, the branches of the displayed tree are extended either under “Data Access V1” or “Data Access V2”. These contain the corresponding OPC server. This can be added by clicking the desired server with the right mouse button and selecting “Add Server” in the context menu (only one server is possible per client level).
Local OPC servers and those available in the network can be used.

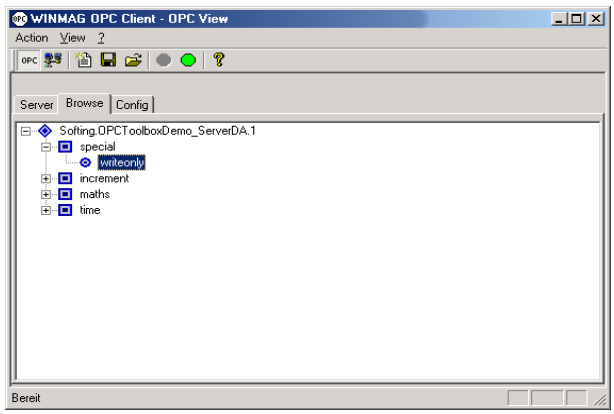
However, a corresponding Windows DCOM configuration is required for network servers (see also 3.6.3.9 common problems and restrictions).

“Browse” automatically appears.

3.7.3.3 Add tags

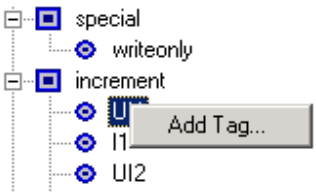
In “Browse”, the tags of the selected server can be searched and the configuration added (illustration on left).



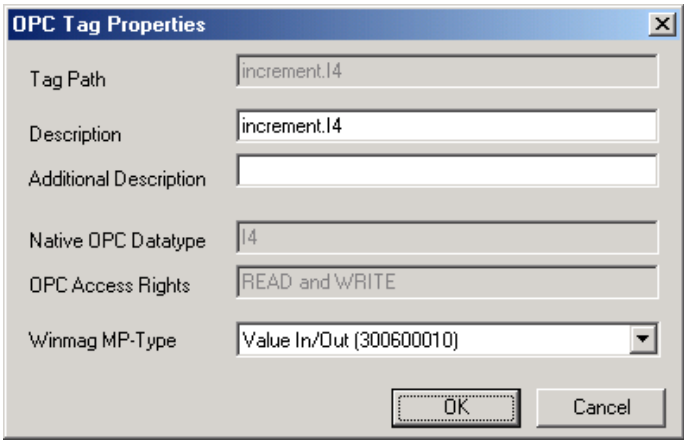


Open the branches under the server by clicking with the mouse. The tags (illustration on right) are at the end of the string.

Click the tag with the right mouse button and “Add Tag” in the context menu and this will be added to the configuration:

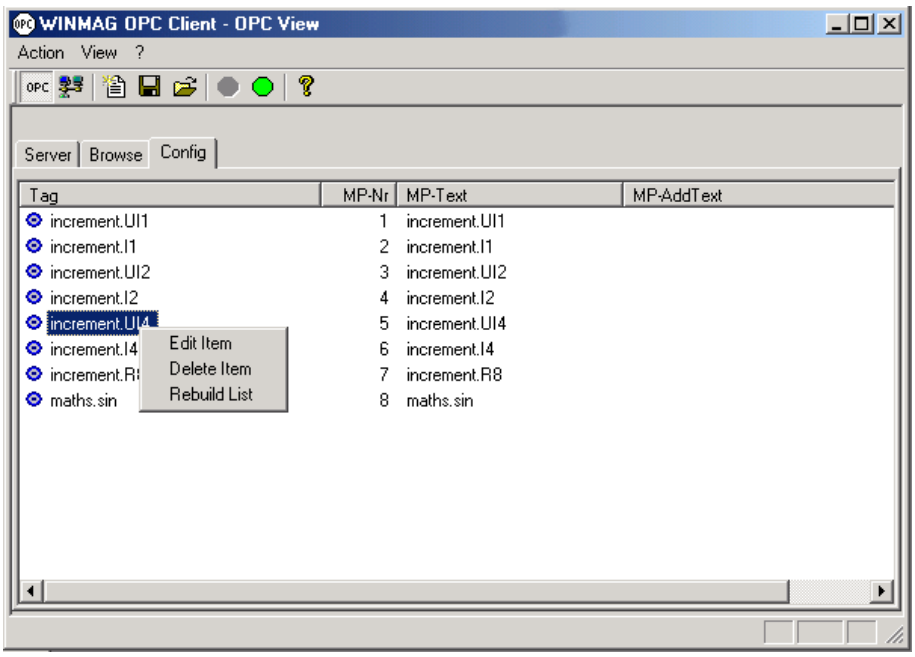


A dialogue window appears in which the parameters of the tag can be edited:



Tag path: The path of the tag in the OPC server (fixed)
Description: A random description, max. 40 characters text. Default is the tag path.
Additional description: An additional random description, max. 40 characters text. Default is the description that the OPC server provides (not every OPC server provides the description).
Native OPC data type: Data type (fixed) provided by the server
OPC access rights: Access rights to the tag (fixed)
WINMAG plus I/O point type: WINMAG plus I/O point type. With some data types, a type conversion is possible. In this case, the types can be selected in the combination field. If a conversion is not possible, only an entry appears in the combination field.

Added tags appear under the rubric “Items”. The tags can be edited per context menu (Edit Item) or deleted (Delete Item).



3.7.3.4 Store configuration file 

After the desired tags have been added, the disk symbol can be used to store the configuration. Two files are created:

- DATEINAME.WOC The actual configuration file (WINMAG plusOpcClient)
- DATEINAME.TXT Import file for WINMAG plus

The .WOC file can be loaded at a later date in the client. If the .WOC-file is copied into the directory of the client program under the name DEFAULT.WOC, this file is automatically loaded when the client is started and the client commences communication directly.

The import file for WINMAG plus must be imported into the corresponding WINMAG plus network before starting communication!

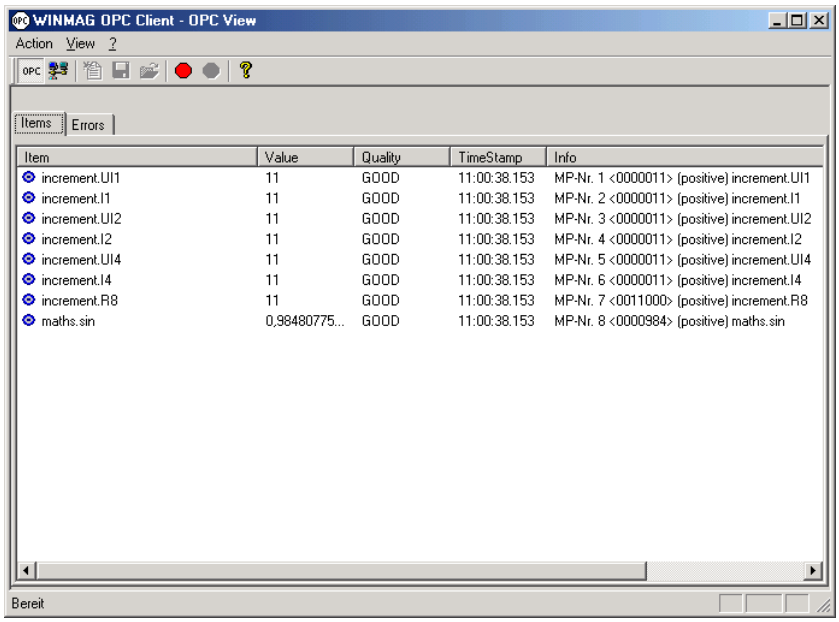
3.7.3.5 New configuration 

This command is used to load a .WOC file that has already been created. Communication must be then started manually.

3.7.3.6 Start communication 

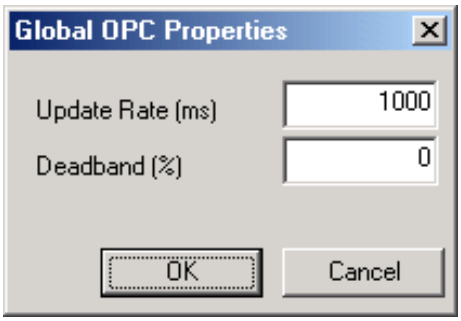
Communication can now be started using the green symbol in the symbol bar. The symbol is then blocked and a red symbol appears which can be used to interrupt communication.

During communication, the client displays values received by the OPC server and transmits these to WINMAG plus in the correspondingly configured network.



3.7.3.7 Global parameters

Select Global OPC Properties in the menu Action for setting two global parameters for the relevant configuration:



Update rate: Minimum actualisation interval of all data points in milliseconds (ms).
Standard value is 1000ms = 1s

Deadband %: The maximum fluctuation for analogue values in percent
Default is 0.
An alteration is only signalled, if the value has changed by at least the deadband.

3.7.3.8 File format of configuration file

The .WOC file is a standard text file. This text file can also be edited manually. Individual data fields are separated by semicolons. The data themselves must be enclosed in inverted commas.

Example:

```
OPCCFG-0100
"KiebackPeter.GLTserver.1";"";"1000";"4","10"
"1";"Z999.B000.G000.BI_F9999/1";"Binary Input 1";"300600002";"0"
"2";"Z999.B000.G000.BI_F9999/2";"Binary Input 2";"300600002";"0"
"3";"Z999.B000.G000.BI_F9999/3";"Binary Input 3";"300600002";"0"
"4";"Z999.B000.G000.BI_F9999/4";"Binary Input 4";"300600002";"0"
```

Structure:

First line

must contain OPCCFG-0100

Second line

Servername ; Node ; UpdateRate : max. I/O point no.; Deadband

Servername: The registered name of the OPC server

Node: The network name of the computer of a remote OPC server

UpdateRate: Update rate of the data point in ms

Max. I/O point no.: Number of the highest used I/O point during manual editing. MUST BE set correctly.

Deadband (optional): Deadband defined in percent, standard value is 0, value is optional to ensure backward compatibility with previous configuration files

Further lines

Define tags and corresponding I/O points

I/O Point No. ; TagPath ; I/O Point name ; I/O Point type ; conversion (currently always 0)

I/O Point no.: I/O point no. for WINMAG plus

TagPath: The complete path for the data value in the OPC server

I/O Point name: Random name for the I/O point

I/O point type: Type of the I/O point (300600002 = binary input)

Conversion: For future use, should be currently set at 0).

3.7.3.9 Known problems and restrictions

Browse not possible
It may be possible that tags are not displayed in „Browse“ (the tree view has no elements). We are aware of this problem and recommend re-starting the OPC client (store configuration beforehand, if required).

Remote server operation has not yet been thoroughly tested.

Solution: Operate the OPC client on the remote computer.

4. Programming WINMAG plus

4.1. General

WINMAG plus is an open control software that can be greatly adapted to user requirements.

WINMAG plus includes all the tools necessary to execute adaption.

The editing functions are subdivided into

I. Internal editing functions
- System configuration (interface, networks, users, printer, rights...)
- Edit drawings (create image structure, integrate icons and actions)

II. External editing functions
- Design alarm sequences (manage SIAS programs)
- Create/revise drawings

User-adaption is executed via an integrated programming language **(SIAS)**. This programming language operates within WINMAG plus in the same way as Visual Basic for Applications operates in Microsoft Office applications.

WINMAG plus is supplied factory-configured with descriptions of Honeywell central units, objects and procedures as examples for creating your own configuration.
You can use these examples for your own configuration purposes or remove them from the system.

In any case WINMAG plus must be adapted to the objects connected. This means that the detectors and alarms/messages to be processed must be defined and can be user-adapted (Edit network configuration).

In order to configure, we recommend attending a WINMAG plus workshop or a special briefing to acquire understanding of the system more quickly.

4.1.1 Programming procedure

The configuration of a WINMAG plus system is divided into the following steps:

1. WINMAG plus installation

2. Adapt data (edit)
   Create networks, objects, I/O points
   Adapt SIAS programs
   Integrate graphics
   Place icons
   Adapt system settings

3. Connect WINMAG plus with periphery

WINMAG plus is supplied factory-configured with descriptions of various central control units, networks and objects, procedures and examples for creating your own configuration.
You can use these examples for your own configuration purposes or remove them from the system.

In any case WINMAG plus must be adapted to the objects connected. This means that the detectors and alarms/messages to be edited must be defined and can be user-adapted (edit network configuration).

WINMAG plus system data is stored in a database. Thereby, relationships could exist between data that are important for user-configuration. You should execute configuration changes in the same way as when building a house i.e. hierarchical starting from the fundament.

Data hierarchy of object data

Networks	**in list**
Network	Network
Object	Objects
I/O device	I/O device type
Status	Definitions
Function value with alarm reason and user group	

First of all the networks should be configured, then the objects and then the I/O devices with types (as per structure).
Symbols can only be defined after I/O devices have been defined. A symbol is the graphical display of an I/O device.

4.1.2 Terms

Internal edit functions
Internal edit functions are integrated in WINMAG plus and can be directly called by WINMAG plus (user rights) via menus and buttons. Examples of such functions are the creating of objects, the placing of symbols or the issuing of user rights.

External edit functions
External edit functions are functions that cannot be directly called by WINMAG plus, these functions must be pre-extracted from other programs or from system control. Examples of such functions are the creating of graphics, printer configuration under Windows and the editing of SIAS programs.

Network
A network is a group of objects that are connected via a common interface/medium. For example, all control panels connected to an IGIS-PC interface.

Object = control panel
Every device connected to a network is an object.
Examples of objects:
- Intrusion detection central units IDC 561-M20/M99/MB16/MB24/MB48/MB100/100.10/MB256/256 plus
- Fire detection computers FDC 664, BMC 616, BMC1024, BMC1016
- Frame interfaces for fire detection computers
- Operating and display unit ..
- IGIS V24 interface
- PC interfaces

Every object has a unique network address. Every message can be allocated to an object via this address.

I/O device

A I/O device describes a device who's status can be monitored e.g. the status of a zone or the status of a detector group.
A I/O device can have up to 8 states. I/O devices states can adopt defined function values.

I/O device status
Categorization of I/O devices into individual states, i.e. input states and output states.
Input = from object (central unit) to PC = monitor
Output = from PC to the central unit = control
A maximum of 8 input states and a maximum of 8 output states can be defined.

Function value:
Function values are values that individual I/O states can adopt.
Example group 1 signal state 0
Function value 0: OK
Function value 1: triggered
Function value 2: not available

I/O device type
The I/O device type is the general description of a I/O device to which several I/O devices (same type) can be allocated. Thus, the description of individual I/O devices can be kept to a minimum.

Example: The I/O devices 101 to 199 of a control panel type 561-MB100 are of the type "intrusion group MB 100/16/8". The I/O devices are of the same type and must only be described once.

Variations can be derived from one type of I/O device that differ by way of changed:
- texts for status and function values
- alarm types
- filter structure (ie. Some function values and controls may be "filtered-out" by derived types)

A I/O device type and all types derived from it are known as an I/O device type family.

I/O device type group MB 100/16/8:

I/O device No.	I/O device MP-Name	Direction	Alarm status	Function value no.	Function value Name	alarm reason
101	Group 1	Input	0 status	0 1 2	OK triggered not available	- Alarm fault
		(message state)	1 Alarm.	0 1	out on	- Alarm group
			2 int. disable	0 1	out on	
			3 ext. disable	0 1	out on	
			4 Tamper	0 1	out on	Tamper
			5 allocation Zone	0 1 2 3	Group HptB 1 Group HptB 2 Group HptB 3 Group HptB 4	
			6 allocation Sub-zone	0 1 ... 15	not in sub-zone sub-zone 1 ... sub-zone 15	
		Output	0 int. disable	0 1	out on	
		(Control function)	1 ext. disable	0 1	out on	
			2 clear	0	clear	

Alarm reason / type
In WINMAG plus you can allocate an alarm reason to every function value. A collection of alarm reasons form an alarm type e.g. all fire alarms of the type fire.
The alarm reason is used in the default triggering conditions for the start of programs.
The type of alarm appears as tab in the stack view via which alarms of the same type can be separated.

I/O device list
The I/O device list for all IGIS capable components is published by Honeywell on request. It includes the default I/O device types. These types include all possible I/O devices, statuses and function values of the components. This list shows the data that can be received by each component and the data that can be sent by each component.

Symbol
A symbol is the graphical display of a I/O device. Every status/function value combination can be allocated to a layer. As there is an exact function value for every status of a I/O device, as many layers can be displayed as statuses included in the I/O device type. The layers are drawn in the status sequence and layered on top of each other. Thanks to transparent areas or optimally-configured layers, all attributes can be simultaneously displayed.
Detectors are found in drawings by way of symbols - the proper functioning of the find function depends on the correct positioning of symbols.
Select a symbol to display detector information and execute control functions.

Layer
One or more status/function value combinations can be allocated to a layer.
Every layer is drawn as independent image.

4.1.3 Message structure

The messages transmitted by the system are based on the I/O device schema. Thus, an IGIS change message has the following components:

- Destination address
- Message type /alarm type
- IGIS address of the object (message address)
- I/O device number
- Status number
- Function value number
- Time

In WINMAG plus texts are allocated to all numerical data. All texts included in the system can be edited and adapted to user requirements.

4.1.4 User-defined programming

In addition to freely editable system data, user-defined programs are the nucleus of the flexibility of WINMAG plus.
Freely configured programs that include various tasks such as displaying data, controls, printing, checking etc. can be called within WINMAG plus.

The programs are created in simple syntax (SIAS). WINMAG plus contains all tools to create and to edit these programs.

Editing is executed using “SIASEDIT”. SIASEDIT is installed in the WINMAG plus program group during set-up (External edit functions).

All user-defined programs are included in the WINMAG plus sub-directory “WINMAGEX”.

We differentiate between 3 different types of programs:

- Stack programs that run as independent window. Start is executed via triggering conditions or via manual program start. The program is included in the program stack and thus the execution sequence is defined by way of own priority and other program stack content. A maximum of 10 programs can run simultaneously.

- Pop-up programs runs in a window via the polling window. The size of the window can be defined. The program is immediately executed and is not placed in the stack.
  Start is executed via:
  - the triggering conditions or
  - allocation to a mouse button or to a symbol (pop-up program)

- Macro programs run in the background without a window, thus screen output is not possible. The program is immediately executed and is not placed in the stack.
  Start is executed via:
  - the triggering conditions or
  - allocation to a mouse button or to a symbol (macro) or
  - the SIAS program instructions change, open, close

4.2 Internal programming functions

Internal edit functions are included in the WINMAG plus control software and these functions can be called up via

- the Edit / System configuration menu
- the Edit / Edit graphics menu
- the “Edit system configuration” button 
- the “Edit graphics” button 

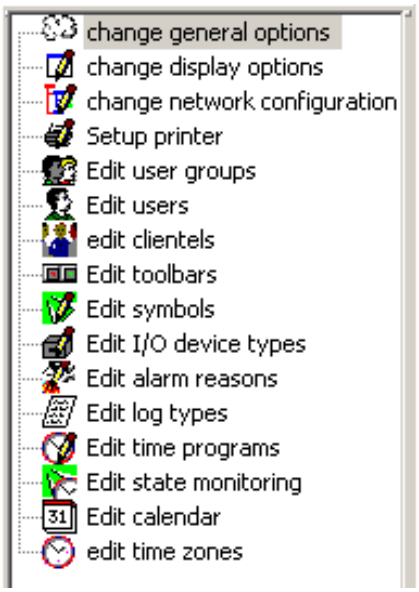
The user must be authorized to use the functions!

4.2.1 Selecting internal edit functions

4.2.1.1 System configuration list

The “System configuration” includes functions for the configuration of networks, objects, I/O devices, types, alarm reasons, symbol configuration, users, buttons, printer allocation and display settings.

The command can also be executed via the “Edit system configuration” button  .
After **“System configuration”** has been called, a list appears displaying the options that the user is allowed to execute. Examples:



Only the options that the user is allowed to execute are shown.

By default the first dialogue box - “Edit general options” is automatically opened.

Change general options
Definition of general options such as log deletion times, no-action alarm, flashing behaviour of symbols as well as the definition of log-in and log-off behaviour .

Display options
Definition of display options such as stack size and stack position, tool bar position and screen configuration, allocation of graphics for default view.

Network configuration
Creation/administration/activation/deactivation of networks, objects and I/O devices as well as the import/export of I/O device lists. Configuration of connections and drivers for event protocols.

Setup printers
Allocation of graphics and line printers.

Edit user groups
Definition of user groups

Edit users
Creation, maintenance or clearing of users. Definition of names, passwords, user rights and user groups.

Edit clients
Allocate users, networks, objects and I/O points to the individual clients.

Edit toolbars
Creation, maintenance and clearing of tool bars.

Edit symbols
Creation and maintenance of symbols

Edit I/O device types
Copying of types, editing of text, allocation of alarm reasons and allocation of user groups to functions.

Edit alarm reasons
Editing of alarm reasons and alarm types

Edit log messages
Configuration of system log messages, definition of output destination.

Process runtime programs
Time-controlled realisation of SIAS programs for defined calendar.

Process status monitoring
Assignment of monitoring data for defined I/O points.

Edit calendar
Editing of existing calendars.

Edit time zones
Editing of existing time zones

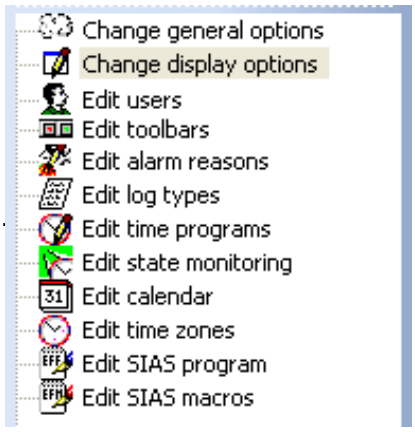
Edit SIAS programs
Edit existing SIAS programs with the SIAS Program-Editor.

Edit SIAS macros
Edit existing SIAS macros with the SIAS Program-Editor.

4.2.1.2 Edit online

Subordinate tasks in the system configuration can be realised online with the “Online editing” command in the “Edit” menu. WINMAG runs on without limitations during online editing (e.g. alarms are displayed, subprograms can be activated ... etc.).

A list of possible subordinate tasks from the system configuration after the authorised activation of the “Online editing” command. Only the options which the user is authorised to select are displayed.

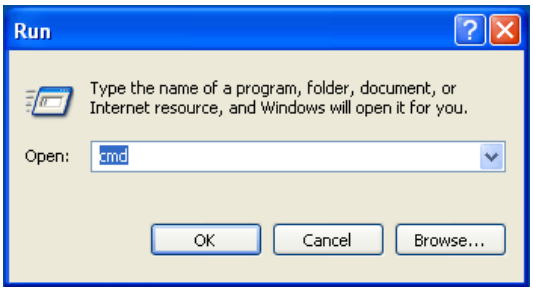


The online editing functions correspond to the system configuration editing functions described below.

The operating system WINDOWS provides security guidelines for network drives that have the same effect as a blocking function. This means that online editing only only is possible after the relevant security guideline has been deactivated. This can in turn only be deactivated by Administrator rights.

Deactivate security guideline :
Find the Caspol file on the WINMAG plus drive. The file usually appears more than once. To deactivate the security guideline, you require the following path **X:\WINDOWS\Microsoft.NET\Framework\v2.0.50727** (X: stands for the drive on which the operating system is installed).

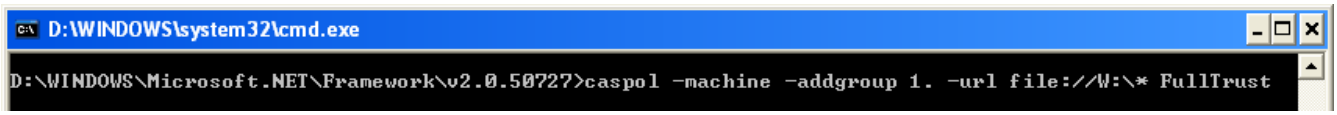
First start the command line run in the windows start window, and confirm with OK.



A DOS Window appears. Navigate in this DOS-window to the path **X:\WINDOWS\Microsoft.NET\ Framework\v2.0.50727** and type the following string:

Important: The input is case sensitive!

caspol -machine -addgroup 1. url file://W:* FullTrust
(W: stands for the connected WINMAG-Master drive



After confirming the command with enter the safety guideline for this computer is deactivated. Online editing is now possible.

The safety guideline must be deactivated for each client computer separately .

4.2.1.3 “Edit graphics” tool bar

“Edit graphics” includes functions for the configuration of symbols and graphic sequences. You can place, move, reconfigure, clear and align symbols and drawing references.

You can activate the tool bar by clicking the “Edit drawings” button  .
If the user is authorized, the following tool bar appears:

If you rest the cursor over a button, a quick info appears. If you are authorized to execute a function, the button is colored. If you are not authorized to execute a function the button is grey.
Select a function by clicking the appropriate button using the left mouse button. After selection, the button appears to be depressed.


Test button
If you are in edit mode, drawing references and symbols become fully active to allow testing.


Edit symbols
Insert new symbols, edit arrangement of existing symbols


Edit drawing references
Insert new drawing references, edit references


Enter overlay graphic
Enter a new overlay graphic.


Enter zoom-reference
Enter a zoom reference, change existing relationships.


Edit network configuration
Create and administer / activate/ deactivate networks, objects, I/O devices


Enter HTML reference
Enter new HTML references, edit existing relationships.


Enter overlay reference
Enter a zoom reference, change existing relationships.


Position coordinates
Enter diagonally-opposing start and end coordinates for new frame.


CAD file converter
Convert and enter Auto-Cad files. Autodesk components are required


Enter and edit layer
Place and edit graphic layer

Navigation buttons for the positioning of several symbols or drawing references

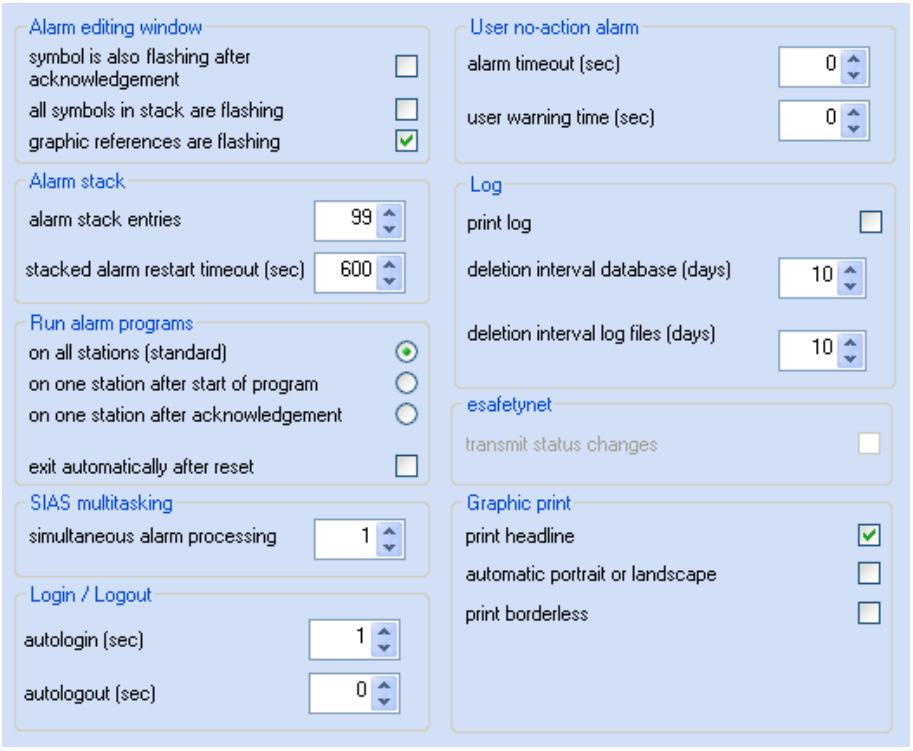
1 2 3 4 5 6 7 8 9

1 Align selected elements to **left** (last selected element is used as reference)
2 Align selected elements to **right** (last selected element is used as reference)
3 Align selected elements to **top** (last selected element is used as reference)
4 Align selected elements to **bottom** (last selected element is used as reference)
5 Same **horizontal** spacing (you must have selected at least 3 objects)
6 Same **vertical** spacing (you must have selected at least 3 objects)
7 Set all selected elements to same **width** (last selected is reference element)
8 Set all selected elements to same **height** (last selected is reference element)
9 Set all selected elements to same **size** (last selected is reference element)

4.2.2 System configuration options

4.2.2.1 Edit general options

Select the menu “Edit general options” (System configuration). The “Options” dialogue box appears that permits you to perform general program settings.



The various types of setting options are grouped together in individual options fields:

Alarm window:

Check box “Symbol flashes after acknowledge”:

– If you have activated this option, the symbols flash even after you have acknowledged the status in the alarm program. You can define the status “acknowledged” using the SIAS command “ack”. “Acknowledged” appears in front of the status in the stack list column “Status”.
– If not activated, the symbol flashes only until the status is acknowledged.
Associated graphic references react as per the check box “Flashing graphic references” setting.

Check box “All symbols in stack are flashing”

– If you have activated this option, the symbols flash for all items contained in the stack.
– If not activated, only the symbols referring to the item being currently processed flash (see item displayed in alarm window header).
Associated graphic references react as per the check box “Flashing graphic references” setting.

Check box “Flashing graphic references”

– Activate the “Drawing references flashing” check box to invoke the flashing of drawing references.
  ▸ The flashing effect is achieved by the changing of the defined colour to RED.
  ▸ Red drawing references do not flash (red to red).
– Transparent drawing reference boxes will flash red/white
– If the “Flashing graphic references” check box is not activated, the path through graphics is hidden.

Alarm stack

Max stack entries specifies the maximum number of items that can be contained in the alarm stack. Only those items with the highest priority are displayed i.e. if a message is received that has a priority higher than that of the lowest priority message then the message received is entered into the stack and the message with the lower priority is removed from the stack.

Default setting: 50
Minimum setting: 1
Maximum setting 1000

Stacked alarm restart timeout (min) specifies for how long a program is put back in the stack (by clicking the "Into stack" button) before the program is automatically restarted. You cannot suppress this automatic restart - it serves to remind user of "old" programs that have not yet been acknowledged.

Default setting: 10 minutes
Minimum setting: 1 minute
Maximum setting 1000 minutes

Start Programs describes the program behaviour with respect to the event change and editing at other stations in multi-user systems. The program version depends on the station priority settings in the network configuration.

On all stations (default) = Program is edited at all multi-user stations.

On one station at program start = Program is entered in the stack at all multi-user stations. As soon as a computer starts the program, it is removed from the stack at the other stations.

On one station after acknowledgement = Program is entered in the stack at all multi-user stations. As soon as the computer acknowledges the program, it is removed from the stack at the other stations.

Automatic delete of alarms = If the triggering event is reset, program editing is quitted immediately (required setting for Austrian standard F3003).

SIAS multitasking

Simultaneous alarm specifies how many alarm programs can be executed in their own alarm window simultaneously. As programs are always started in the work window "full size" you should - when executing several programs simultaneously - select a display mode that permits you to view several alarm windows (SIAS-command "tile",...)
You must be an experienced user to be able to execute several programs simultaneously.

Default setting: 1
Minimum setting: 1
Maximum setting 10

Login / Logout

Autologin (sec) specifies how many seconds it takes after starting WINMAG plus to login the default user. Thus, automatic starting of the program is achieved.
If no default user is defined (selection in user dialogue box), automatic login is not effected. The time defined has no effect.

Default value after installation: 1 second

Autologout (sec) specifies after how many seconds of user inactivity the system must change over to default user. If no default user is defined, the system changes over to the user who has the lowest entitlement.

Default value after installation: 1 second

User no-action alarm

"User no-action alarm" is the monitoring of the user by the system. If the user does not press a button within the timeout period defined, the I/O device "system/security/no-action alarm/no action timer" is automatically set to pre-alarm (see" user warning time" below) and then subsequently to alarm.
The system can execute a user-specific SIAS program for this message in the same way as any other message.

Alarm timeout (sec) specifies the time in seconds after which an alarm will be raised.
Default setting: 0 seconds
Min. setting: 0 seconds
Max. setting 99999 seconds

User warning time (sec) specifies how many seconds before the no-action alarm that the user is warned of the impending alarm. The user action interval state goes to "prealarm". If the time is set to 0, no pre-warning is given.
Default setting: 0 seconds
Min. setting: 0 seconds
Max. setting 9999 seconds (cannot be higher than "alarm timeout" setting)

Logs

The option **Print log** is the general option for printing of the system protocol. You can set the printer for printing a protocol in the "Printer configuration" dialogue box. You can set the events to be printed in the "Edit log messages" dialogue box.
Default setting: not selected

Deleting period database (days) specifies how long a system log entry remains stored until it is automatically deleted. The deleting period calculations are carried out on an hourly basis.
Default setting: 10 days
Min. setting: 1 day
Max. setting 365 days

Deleting period log files (days) specifies how long a start programs protocol remains stored until it is automatically deleted. The deleting period calculations are carried out on an hourly basis.
Default setting: 10 days
Min. setting: 1day
Max. setting 90 days

The **path to the WINMAG plus master protocol database** indicates which directory the menu function "Select protocols/system protocol" should recommend. This can either be a master protocol database, a protocol data backup or the system protocol of another WINMAG plus computer.
Default after installation: Current WINMAG plus main directory.

Database

- Function currently not active -
Generally, WINMAG plus operates with a Microsoft Access database via DAO.
In future, you can also use other databases that have an ODBC interface. If another database format is used, the database structure must be created in the database.
As soon as other structures are created, you can select the database to be used by WINMAG plus via the database dialogue box.

Esafetynet

Checkbox – **transmit state messages**
Any status changes are automatically transmitted to the esafetynet portal server (see also edit reason for alarm -> display in HTTP overview).

Printing graphics

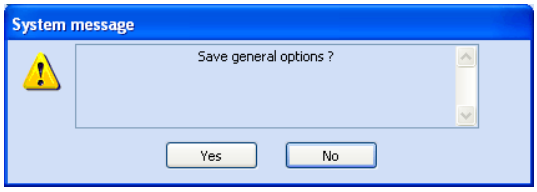
Headers can be included in the printout by selecting the **Printer headers** check box.

The **Autom. portrait/landscape format** check box enables automatic changing between portrait (vertical) and landscape (horizontal) format.

A printout without a margin is achieved with the **Print margin** check box.

Accept changes:

If you exit the dialogue box “Edit general options” by quitting the “System configuration” or by changing to another system configuration function, the following appears:



The query “Save general options” can be responded to as follows:

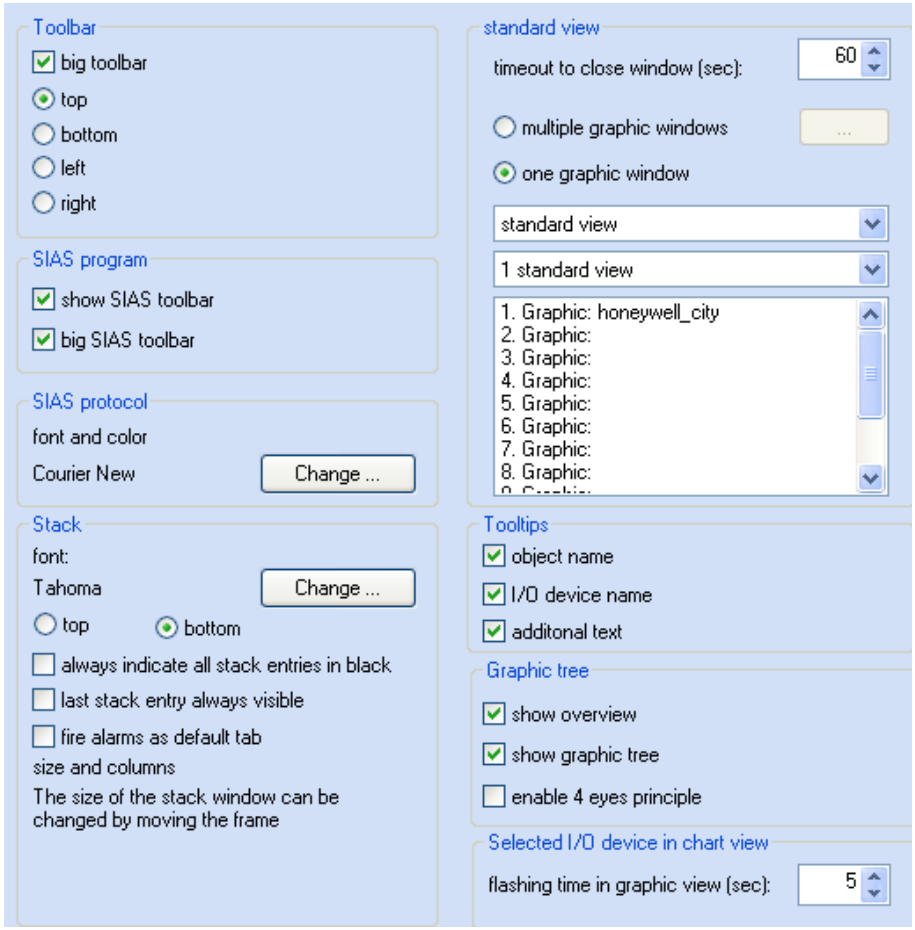
YES changes are accepted

NO changes are not accepted

4.2.2.2 Display options

Select the System configuration menu “Display options” to invoke a dialogueue box that permits you to edit the display options.

The various types of setting options are grouped together in individual options fields:



Tool bar

Here you can define the size of the tool bar. By using a small tool bar you can reduce space requirements on your screen (important for low screen resolution).

Tool bar = user-dependent tool bar of WINMAG plus program control

Check box “Big toolbar”
If you activate this check box, the tool bar buttons are 32*32 pixel. If you have defined another size of tool bar, the pixel value is displayed.
If you deactivate this check box, the small tool bar with buttons 16*16 pixel is displayed. If you have defined another size of tool bar, the pixel value is displayed.

Activate one of the following check boxes to define the position of the tool bar:

- top at the top of the screen directly below the menu bar
- bottom at the bottom of the general view below the stack
- left at the left (graphics window remains at the left)
- right at the right (graphics window remains at the right)

SIAS programs

SIAS tool bar = tool bar for the control of alarm programs

Check box "Show SIAS toolbar"
If you activate this check box, the SIAS tool bar is displayed, when an alarm program runs, with the following settings. If you deactivate this check box, no SIAS tool bar is displayed. You can execute program control using the button included in the default tool bar.

More details to the SIAS Toolbar see Operating Manual - The Alarm window.

Check box "Big toolbar"
If you activate this check box, the tool bar buttons are 32*32 pixel. If you have defined another size of tool bar, the pixel value is displayed. 2 lines are displayed, i.e. object name and I/O device name.
If you deactivate this check box, the small tool bar with buttons 16*16 pixel is displayed.
1 line is displayed, i.e. object name and I/O device name.

Line printer font

Here you can define the font style for printing log entries. This is a very important feature for the non-Latin languages such as Russian and Chinese.
By clicking the **Edit** button you can open the font style dialogue box that permits you to select the font, font style, font size, effect and color.

Stack

Click the "**Change**" button to change the font of the stack display, program start list and list of manual programs. The active font is displayed.

Using the check boxes **"Top"/"Bottom"** you can define if the stack is displayed at the top or at the bottom of the window.
Default after installation: bottom

All stack entries in black = irrespective of the editing status, all entries in the stack must be made in black (required setting for Austrian standard F3003).

Last entry in own line = The last/latest entry for the selected category is represented in a separate line at the bottom of the stack list. The stack entries are listed in chronological, ascending order. This means that both the oldest and the latest entries are visible under the option „Last stack entry always visible" (required setting for Austrian standard F3003).

Fire messages as default view = If entries of the alarm type „Fire" are contained in the stack, the fire tab is selected (required setting for Austrian standard F3003). Without this setting, the default tab is the standard selection.

The height of the alarm stack window and the width of the columns can be altered by dragging the mouse. If the width is reduced to zero, the column remains invisible.

The sequence of the columns can be altered by drag and drop.

Standard view

The standard view is the graphic background window that can be configured using 1 - 12 graphics in the work window. The general view can provide you with an excellent overview of the most significant graphics.

Timeout to standard view specifies the time of inactivity at the system after which the standard view must be displayed. The timeout is not effective if a user program (alarm program) is being displayed. If this time is set to 0, the standard view is displayed only after all other windows have been closed.
Default setting: 60 seconds
Min. setting: 0 seconds
Max. setting 1000 seconds

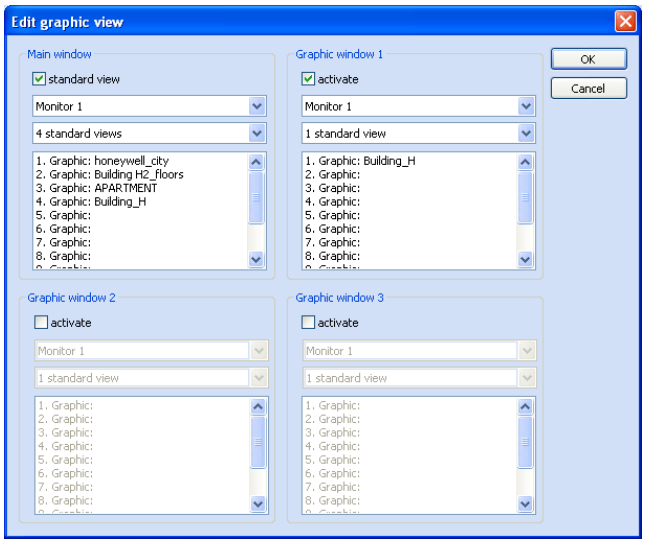
Standard view mode list box 

- ♦ No standard view — The Honeywell logo or background.bmp is displayed
- ♦ Standard view — Graphics are displayed (as per number of graphics and type of graphics defined).
- ♦ Graphic window left — Displays the standard view at the left (when two monitors are identified)
- ♦ Graphic window right — Displays the standard view at the right (when two monitors are identified)
- ♦ Automatic graphic popup — The standard view is displayed when the cursor touches the right edge of the screen (for quickly change from another application to the WINMAG plus display). 5/6 of the screen is required for the general view. Click the remaining 1/6 of the screen to go back to other application (for use in single-monitor mode).
- ♦ Autom. graphic popup + standard view — The standard view is displayed when WINMAG plus is running in the foreground. Move the cursor over the right edge of the screen to activate the automatic function when in other applications (when one monitor is identified).

Number of standard view graphics in list 

You must select the number of graphics from a list with the settings:
None, 1, 2 (1*2), 4 (2*2), 6 (2*3), 8 (2*4), 9 (3*3) or 12 (3*4) graphics (rows * graphics/row).

The **Select graphic** list (via graphic selection dialogue box with graphic tree and preview) permits the selection of a graphic for the corresponding item. If there is no graphic specified, the drawing listed at the top of the tree structure will be displayed.
The name of the graphic is specified in the tree structure without the path.



The adjacent button are activated by selecting the option **Multiple graphic windows**. The selection dialogue for further graphic screens is behind this button. WINMAG plus can be displayed on up to four monitors. These four monitors can be distributed over up to max. eight monitors. Assignment from 1-8 is realised from left to right and from top to bottom.
Settings for the main window are always active. The other graphic windows should be activated. Monitor assignment and selection of the standard view can be realised subsequent to this.

Tooltips

The tool tip that is displayed when the cursor moves over a symbol can be configured. Every activated item is displayed in one line.

- Object name 40-character name of the object
- I/O device name 40-character name of the I/O device
- Additional text 256 character additional text for the I/O device

Overview

An icon bar appears above the tool bar in which messages are displayed in the form of icons.

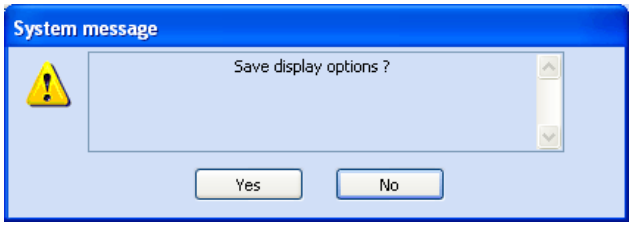
Show overview
Check box for activating the overview bar. When enabled, the overview bar is visible over the toolbar. In the overview bar the messages are shown as icons.

Show Graphic tree
Check box for activating display of the graphic tree. It appears in the graphic view at the left of the screen.

Enable 4 eyes principle
Check box for activating the 4- eyes principle. When enabled, in the login menu and the menu for changing the password the password field for the second user is shown.

I/O points of the tree view flash
Flashing time of the I/O points:
In this field you can define the flashing time of the I/O points

Accept changes



If you exit the dialogue box “Display options” by quitting the “System configuration”or by changing to another system configuration function, the following appears:

The query “Save display options” can be responded to as follows:
Yes changes are accepted
No changes are not accepted

4.2.2.3 Network configuration

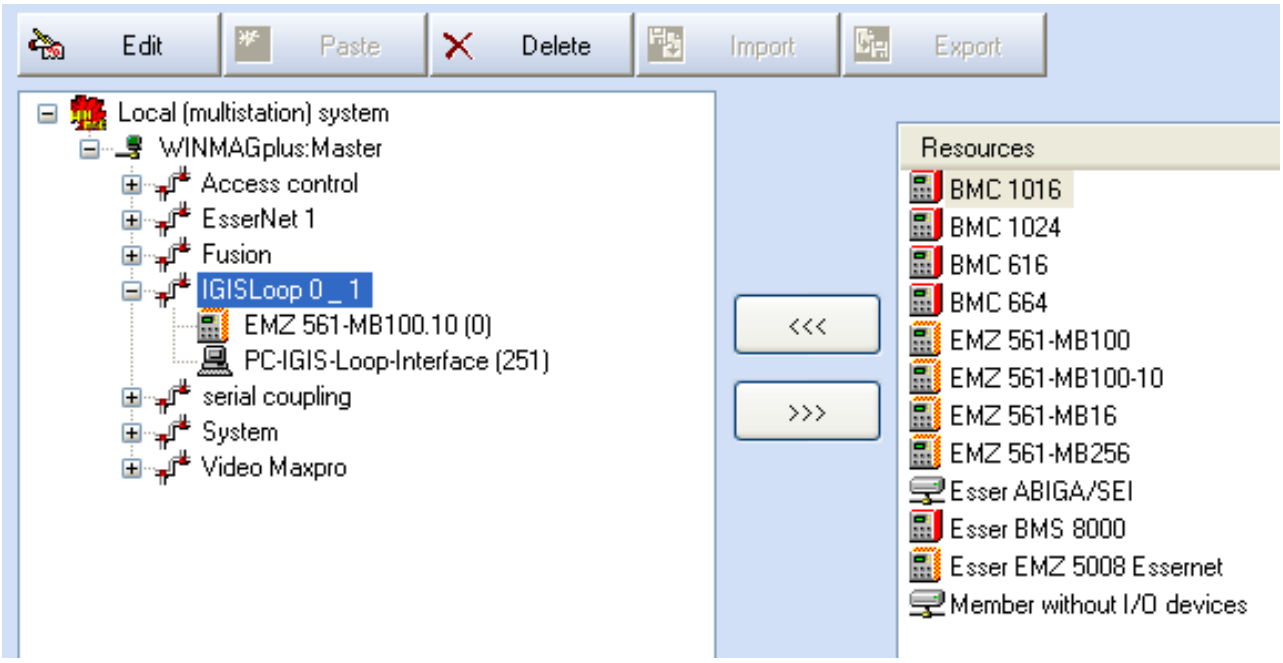
This edit function is a central configuration function of the system. Here, you can determine which computers interact, which networks are connected and which messages have an effect on the system. Every network, every object, every I/O device must be defined here.
All standard objects are included in the system as “resources” and only need to be allocated to the appropriate network.
Before you can allocate symbols or code control functions in the program you must have performed network configuration. Thus, you should perform configuration at a very early stage.
Example data can either be used, edited or deleted.

After you have clicked the “Network configuration” button, the “Network configuration” dialogue appears in the right part of the System configuration window. This dialogue permits you to create and edit multi-station networks, objects and I/O devices.

During editing of the network configuration, operation of the network is interrupted so that no messages are received at the PC! (a warning message is given prior to entry).

The edit dialogue is split into two windows:

Left: the resources used. Right: the resources not used.



The left window shows an hierarchical tree view of the PC work stations with their networks, objects and I/O devices that are connected to the local WINMAG plus computer. The branching of a file indicates a level. Move buttons are located in the middle of the split window. These buttons permit you to move items from one sub-window to the other and vice-versa.

The information contained in the right window usually refers to the folder that you have selected in the left window (our example shows objects in the right window that can be integrated into the network shown in the left window).

If you select an item from the left window the related resources appear in the right window. Normally only deactivated I/O devices are shown in the right-hand window. If “Show I/O device templates” is selected then all potential devices for the selected object are shown.

The list in the left window includes the following levels:

1. WINMAG plus computer systems such as the system to which the local computer is connected or distributed systems.

2. Computers in the LAN

3. Network connected to each computer

4. Objects in each network

5. I/O devices in each object

Our example shows the following structure (left list).

1. Local multi-station WINMAG plus and a connected distributed client system
2. Own PC with the name “WINMAG plus- Master” is linked with a second PC (multi-station client reception) in a multi-station network. The master distributes all data to the clients.
3. Various networks are connected to the multi-station master
   - an access control network (Multi-Access for Windows)
   - an ESSERNET
   - an event protocol
   - a Gent network
   - a local IGIS card
   - a direct serial interface (see also information on VdS below)

Special networks
The “**System**” network contains system internal information. Presently, you can edit the **Calendar** and variables in the network configuration.

VdS

The direct serial interface is a new network structure for directly connecting components to the serial interface of the WINMAG plus computer. This interface is currently not available for the central control units, type MB100.10, HB48.10, HB24.10, BMZ 8000 C, BMZ 8000 M and BMZ 8008.
Absolutely necessary: Galvanic separation when connecting to a serial interface of the central control unit.
The direct serial connection is an interface which does not comply with VdS ->
If this interface is used, the VdS approval is no longer valid!

4.2.2.3.1 Buttons - network configuration

“Move” buttons in network configuration

marked items are moved. You can move individual items, areas or groups of items.

Move data from right to left = insert data, activate data

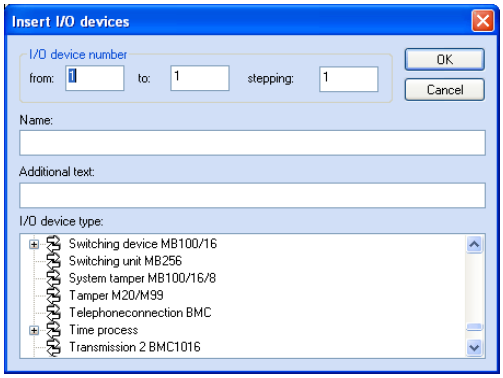
Move data from left to right = deactivate data, data are however not deleted and can be reactivated. Marked items are moved. You can move individual items, areas or groups of items.

You can mark a group of items by keeping the SHIFT key depressed whilst clicking other items. You can also mark a group of items using the cursor control keys i.e. Page up, Page down, Pos. 1 and End keys in combination with the SHIFT key.
You can select a group of individual items by pressing the CTRL key whilst clicking.
If you move I/O devices that also have allocated symbols, the symbol allocation is not deleted but only deactivated. After you have reactivated a I/O device the symbol allocated is displayed.

Edit buttons for the active list

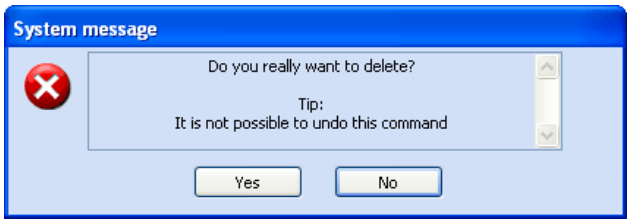
Opens the edit dialogue box for the item you have selected in the In the active list. The dialogue box varies according to the item you have selected.
dialogue box examples: Edit calender, edit network, edit object ...

This button permits the manual inserting of I/O devices into an object. This button is only active when an object has been selected from the list of active components.



Insert I/O device dialogue
An I/O device name is created for all I/O devices numbers from ...to .... (supplemented with number beginning with number 1). Types are displayed in the list with specificatin of family allocation.

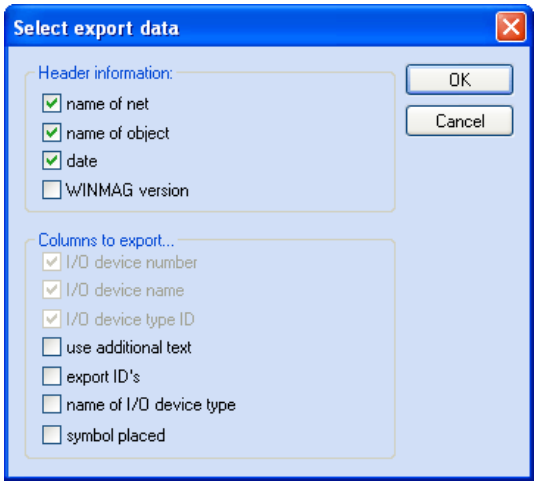
Delete data from left list. Data can no longer be activated. Prior to executing the delete command, the program asks you if you really do want to delete.



Select YES to continue. You cannot undo this command.

Import I/O device lists into the selected object. You can import parts of lists or single items.

Exporting of all I/O devices of an object into a file. A dialogue box appears for selecting the data to be exported.



Header information

The export file header is only used for information.

Columns to export

Items included in export list. The non-active (grey) check boxes are fixed settings i.e. these items are always exported.

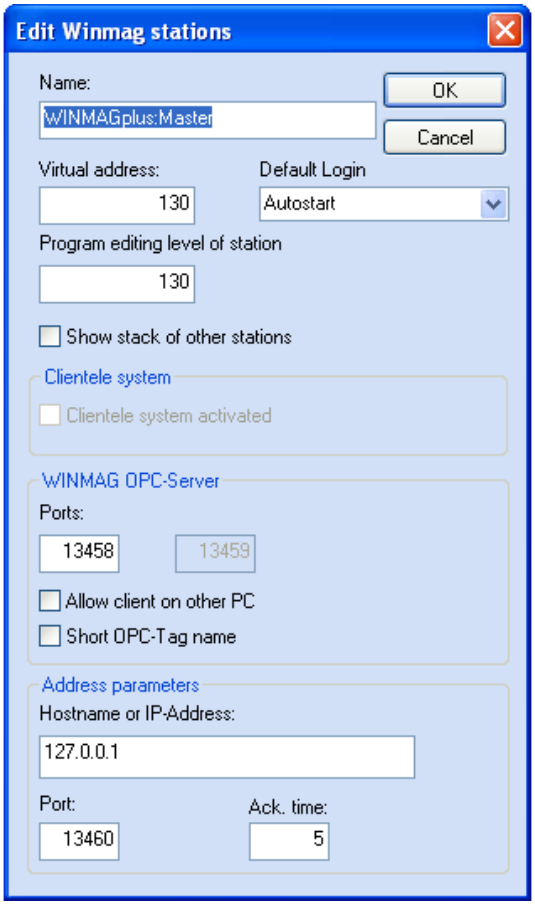
Additional text	additional I/O device name
Export ID	ID for ESSER control panels
I/O device type	Name of the I/O device type as information, the number is decisive.
Symbol placed	This check box should be activated if a symbol has been allocated to the I/O device.

4.2.2.3.2 Edit WINMAG plus stations

In the network configuration, linked components such as PCs with WINMAG plus or PCs with drivers must be able to identify each other via the event protocol. In a WINMAG plus multi-station system “linked” means that the PCs can exchange data via the PC network.
PCs can be linked either as a distributed PC with separate database or as a multi-station client with identical database.
The master computer has the default value 130 for virtual address.
In a multi-station system, all network data must be configured at the master station, (the master database is transmitted to the clients as a central database).
In a distributed system, every PC must be individually configured.

Sequence for connecting computers (Point 1-6) and computer with event protocol, IGIS loop or Essernet components (Point 1):

1. Select “WINMAG plus:Master” from the left window and click the “Edit” button. The “Edit WINMAG plus stations” dialogue box appears.



Important:

- the unique virtual address (here 130)
- the correct address of the PC
  - as IP address or
  - the host name of the computer

Field description:

Name:
Name of the client computer, i.e. unique name
Maximum length: 40 characters
Initial value The default name appears together with a “free” event protocol address

Virtual address
Event protocol address of the PC. The address must be a unique address in the event network.
Possible 1 to 32767
Default value: a free event protocol address - at master 130 - at clients numbers following 130 e.g. 131, 132 etc.

Default Login: Check box for defining which user must be automatically logged in.

Program editing level of station:
Priority with which the station accepts the station in multi-user mode.
The value must be unambiguous. (1-32000).
Default value = 1

Show stack of other stations: With this option stack entries of several WINMAG plus stations can be shown .
More details see Operation Manual - The stack view.

Client management: Activation of client management. If client management is active, only the graphics and I/O points that are allocated to the user via a client are displayed.
For further details see „Edit clients“.

WINMAG OPC-Server: **Ports:** The OPC-Server is using two ports. When providing the first address the second address will be configured automatically.
Allow client on other PC: Links to other PCs are possible.
Short OPC-Tag name: The short name of objects and nets contains the address and the short name of I/O points contains the number.

Address settings:
Driver type: Selection of the event protocol driver type
-TCP/IP with operation on various computers linked via PC network.
Default value: TCP/IP

Address: PC address in PC network. You can enter an IP address in the form 999.999.999.999 or the host name of the computer can be entered. You must only enter a value if the TCP/IP driver is being used.

Ack. time Max. wait time in seconds for acknowledgement.
Range: 1 to 9999
Default value: 5

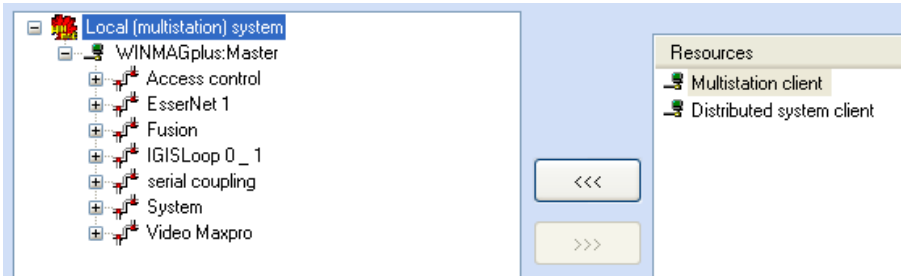
2. Then you must enter the master computer parameters. First select “local (multi-station) WINMAG plus” in the left window.

3. Then you must select in the left window the item “Local (multistation) WINMAG plus”.
In the right window the possible types of linked PC are displayed.

- Multi-station client = PC uses the master database. Only configuration necessary is the event protocol virtual addresses for data re-transmission.
- Distributed system client = the PC uses its own network configuration database. Data are exchanged via the event protocol network by displayed as per local configuration.
  Important:
  The client’s network configuration must be a sub-set of the master’s (i.e. all the I/O devices used in the client must also exist in the master network configuration).

Note: In a multi-station / distributed system each connected network must also be given a “virtual address for data re-transmission”. See section “Create new network” for details.

4. Select the required client from the right window.



The difference between a multi-station client and a distributed system client is the location at which the client data are configured.

- With a multi-station client, data are configured at the master station and distributed from this station.
- With a distributed client, network data are stored at the client itself in own database.

5. Press the MOVE LEFT button. The client is integrated into the list structure.

6. The “Edit WINMAG plus station” dialogue box appears. Enter the required data (see Fields described in “1").
Click OK to accept the parameters.

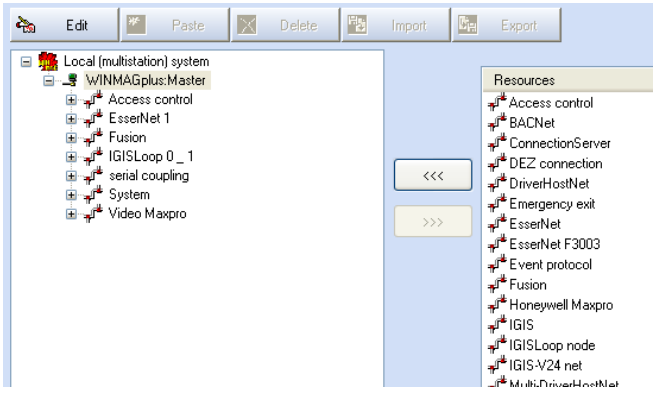
4.2.2.3.3 Create new network

A network is defined as: all objects linked via an interface. Interface parameters are configured via the network and the objects that are linked are allocated to the network.
A new network is, for example, an additional IGIS interface, a remote network, an event network or an access control network.

1. First select from the left window the PC, where a new network must be created.
The possible network resources are shown in the right sub-window

- BACNet = connection via BACNet-Server
- ConnectionServer = connection to an external net which is configured as per special requirements
- DEZ-connection = connection to remote receiver unit 9000
- Direct serial connection = direct connection to a serial interface
- DriverHostNet = connection to an individual configured external net as per special requirements
- EsserNet = ESSER EsserNet with connection facility of max. 31 central control units, Type 8008, 8007, 8000M, 8000C and 5008.
- Event protocol = Networks with event protocol transmission, such as the connection to Honeywell multiAccess, rescue route interface. Video crossbar actuation or distributed IGIS network.
- Escape door = connection to devices of escape route technology
- Fusion = connection to the Honeywell digital video recorder visioprime
- Honeywell Maxpro = connection to Honeywell Maxpro
- IGIS = IGIS stub network (internal PC interface card)
- IGIS-V24 = Connection of external devices to the IGIS network via IGIS-V24 interface
- IGIS loop node = IGIS ring bus interface (external bus controller)
- Multi-DriverHostNet = connection to several individual configured external nets as per special requirements
- Multiscope = connection to multiscope
- Multiview = connection to multiview
- OPC-client = connection to an OPC-client
- Pview = connection to video-viewer
- Remote network = connected via modem (analog or ISDN)
- VdSIPNet = TCP/IP-connection with VdS-log
- Video Bosch IP Kameras = connection to Video Bosch IP cameras
- Video connection = connection to video applications
- Vigilon V3/V4 = connection to GENT fire detection technology
- Visioprime = connection to the Honeywell digital video recorder visioprime
- ZE/ZK network = access control network with MultiAccess

2. Select the required network from the right sub-window, e.g. IGIS



3. Click the move from right to left button.
The network is created on the selected WINMAG plus Station.

4. A network editing dialogue box appears as per the network selected.

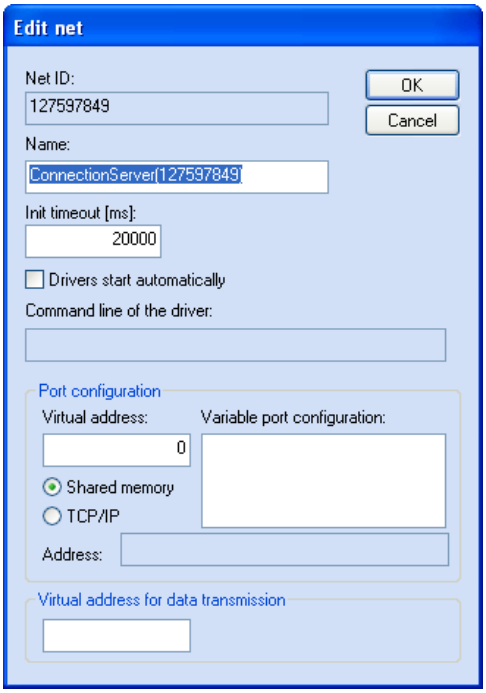
Following the dialogue boxes for the various networks:

4.1	**ConnectionServer**	**=**	**connection to an external net which is configured as per special requirements**
4.2	**Serial coupling**	**=**	**Direct connection to serial interface of the central control unit**
4.3	**EsserNet**	**=**	**Connect Essernet components, e.g. ESSER central control units 8008, 8007, 8000M, 8000C or 5008**
4.4	**Event protocol**	**=**	**Networks via event protocol (distributed networks, external networks e.g. access control, rescue routes, video interfaces**
4.5	**DEZ**	**=**	**DEZ connection to remote receiver unit 9000**
4.6	**DriverHostNet/ MultiDriverHostNet**	**=**	**connection to one/several individual configured external nets as per special requirements**
4.7	**IGIS**	**=**	**IGIS stub interface**
4.8	**IGIS V24 network**	**=**	**Connection of external devices via IGIS V24 interface**
4.9	**IGIS loop**	**=**	**IGIS ring network interface**
4.10	**Remote network**	**=**	**Networks connected via modem**
4.11	**Vigilon V3/V4**	**=**	**connection to GENT fire detection technology**
4.12	**VdS IPNet**	**=**	**TCP/IP-connection with VdS-log**
4.13	**AC network**	**=**	**Access control interface with MultiAccess for Windows**
4.14	**VisiOprime**	**=**	**VisiOprime digital image recorder from Honeywell**
4.15	**Fusion**	**=**	**Fusion digital image recorder from Honeywell Security**
4.16	**Honeywell Maxpro**	**=**	**Honeywell Maxpro digital image recorder from Honeywell Security**

4.1

Select “ConnectionServer” and the “edit network” dialogue box appears.

The “edit network” dialogue box is used for the following connections:



- ConnectionServer
- Rescue door
- Multiscope
- Multiview
- Pview
- Video connection

The dialogue box contains fields for

- the database network identification number
- the name of the network
- the init-timeout time
- the automatic start of the driver
- the virtual address
- the command line of the driver
- the selection of the driver
- the TCP/IP connection address
- the virtual address of the network for transmitting data

Click “OK” to accept the parameters

Field description:

NetID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. Select a unique name
Maximum length: 40 characters
Default: The sample name is suggested combined with the database ID

INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 90000 ms

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Start driver automatically: Activation so that the driver is also automatically started when WINMAG plus starts

Command line of driver: The standard address is already defined. If the driver is located at another address, alter the entry.

Virtual address of the network: Entry field for the virtual address of the event network.
The virtual address is used to contact the connected drivers or devices.
The address of the connected device must correspond with the address entered here. The virtual address of the event network must be unique within a network structure.
Default:
Possible value: 1 – 32000

Variable port configuration: Special interface parameter

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory This driver can be used within a PC and requires no additional parameters.
Default: Selected

- TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default: Not selected

Address IP address or name of computer at which the destination application is executed

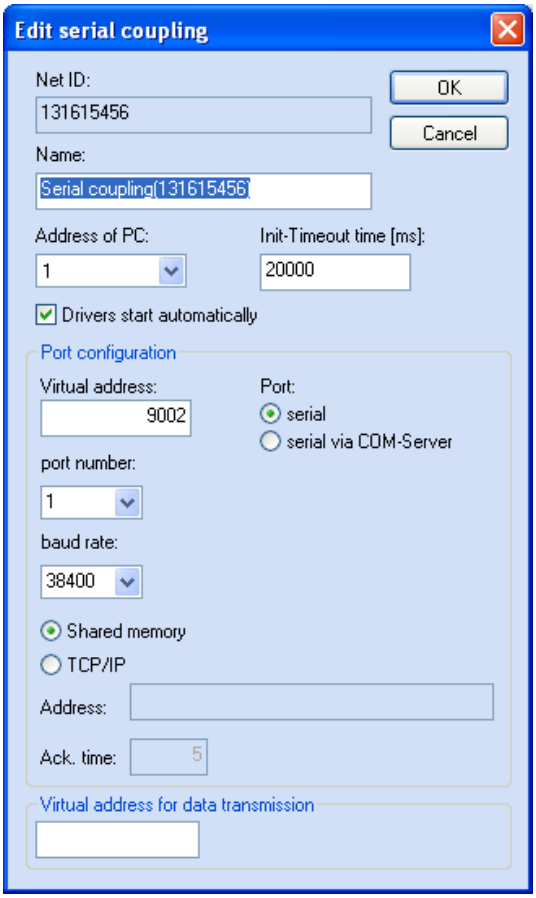
Data re-transmission:

Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be a unique address within the network configuration. Network cohesion of the WINMAG plus multi-station system is described under Chapter "4.2.2.3.2 Create new linked PC".

4.2

After selecting „ serial coupling" the dialog „Edit serial coupling" appears.

This is a new network structure for directly interfacing components to the serial interface of the WINMAG plus computer. It is currently only available for the central control units MB100.10 and HB48.10.
The following is compulsory: Galvanic separation when connected to a serial interface of the central control unit.
Interface not in compliance with VdS -> Loss of VdS approval



The dialog contains fields for:

- the database network identification number
- the name of the network,
- the address of the PC,
- the Init-Timeout time
- the automatic start of the driver
- the connection settings: Serial port or serial via COM server, port number and Baud rate
- the selection of the driver type
- the TCP/IP connection address
- the acknowledge time
- the virtual address of the network for data transmission

Parameters are stored when the „OK" button is clicked.

The terminal device address "0" must be used in the "Process object" dialogue for HB24, HB48.10 and MB100.10 central control units from software version V05 onwards.

Field description:

NetID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. The name should be unambiguous
Maximum length: 40 characters
Default: A combination of the example name with the database identification is recommended.(Object ID)

Address of PC:

Init timeout time (ms): Maximum waiting period for reply to messages.
If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 900000 ms

Connection parameters:
When selecting “Port serial”:
- port-number:
- baud rate:

When selecting “Serial via COM-Server”:
- Address: IP-address of COM-Server
- Port: Port-setting of COM-Server

Serial port: Serial via COM-Server:
Port number:
Baud rate:

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory: This driver can be used within a PC and requires no additional parameters.
Default: Selected

- TCP/IP: You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default: Not selected

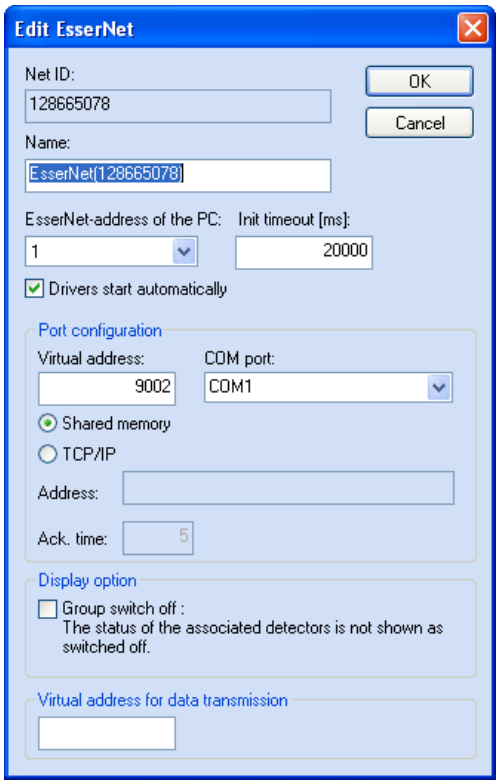
Address IP address or domain name of the PC at which the destination application is executed

Ack. time: Acknowledgement time in seconds = wait time for acknowledgement.
Default: 5
Possible value: 1 – 9999

Virtual address for data transmission:
Input field for the virtual address of the onward transmitting network. The network data can be requested under this address as a remote network. The virtual address of the network must be unambiguous within a network structure.

Further distribution of IGIS networks and virtual addresses can only be used with the multi-user option. The event transport protocol is a Honeywell development and is based on TCP/IP.
Two drivers are available:
- TCP/IP driver for transmission between PCs (it must be installed in the operating system of the TCP/IP service and the PCs networked.
- Shared memory driver for internal PC networking (e.g. WINMAG plus and MAFW run on one computer and exchange data).

4.3 Select **"EsserNet"** to invoke the dialogue box "Edit EsserNet"



The dialogue box includes fields for the following:

- the database network ID
- the ID of the network
- the name of the network
- the Essernet address of the PC
- the INIT timeout
- the automatic start of the driver
- the virtual address of the network
- Number of COM-port
- the selection of the event driver type
- the TCP/IP connection address
- the virtual address for data transmission

Click OK to accept the parameters.

Field description:

Net ID.: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network, i.e. unique name
Maximum length 40 characters
Default The default appears together with the database ID

EsserNet address of the PC: Address of the gateways at the Essernet
The addresses of all ESSERNET components must be consecutive addresses. Please observe the configuration instructions for the Essernet (Installation manual system 8000).
Default: 1 to 32
Possible: 1

INIT timeout The max. waiting time for an answer when sending a message. When time is past, a error message will appear.
Default 2000 ms
Possible 20000 - 90000

Settings define which address is allocated to the network and via which driver and which interface connected is executed. **Start driver automatically:** Activation so that the driver is also automatically started when WINMAG plus starts.

Virtual address of the network: Field for the virtual address of the event network.
The connected drivers or devices are addressed via the virtual address. The address of the connected device must be the same as the address defined. The virtual address of the event network must be a unique address within a network structure.
Default 0
Possible 1 - 32000

COM port Selection of the serial PC port / interface that connects the gateway to Essernet

Possible	COM1 to COM 256
Default	COM1

Drivers: It is only possible to select “Shared memory” or “TCP/IP”!

Shared memory This driver can be used within a PC and requires no other parameters

Default	This is default

TCP/IP You must allocate an address to the TCP/IP. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus, the PC must be given an unique address.

Default	“Distributed memory” is default, “TCP/IP” must be selected
Address	IP address or domain name of the PC at which the destination application is executed.

ACK time Acknowledgement time in seconds = wait time for acknowledgement

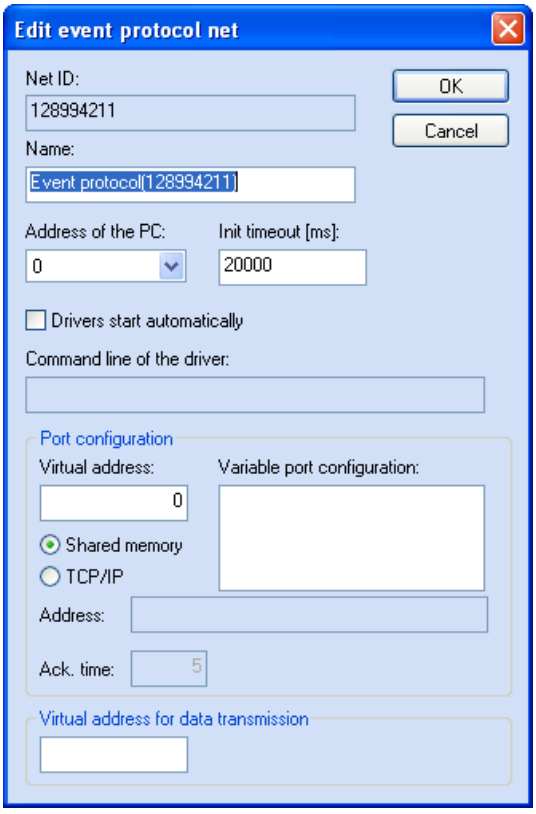
Default	5
Possible	1 - 9999

Display option: **For group switch-off: Do not display the detector group symbols as switched off.**
If this option is activated, the detector group symbols are not displayed as switched off if the group is switched off.

Virtual address for data re-transmission:
Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.
Network cohesion of the WINMAG plus multi-station system is described under Chapter “Create new linked PC.”

The EsserNet driver reads the event protocol settings from the WINMAG plus database. Allocation of settings is executed when the driver is called via the network ID or via the network name defined in WINMAG plus-Essernet.

4.4 Click **"Event protocol"** to invoke the dialogue box "Edit event net"



This dialogue box includes fields for the following:

- the database network ID
- name of the net
- the IGIS address of the PC
- the INIT time out
- the automatic start of the driver
- the command line of the driver
- the virtual address of the network
- check box for the selection of driver type
- the virtual address for the data transmission

Click OK to accept the parameters.

Field description:

Net ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name name of the network, i.e. unique name
Maximum length: 40 characters
Default the default name appears together with the database ID

IGIS address Field for the IGIS address if the linked network is an IGIS network. If the linked network is not an IGIS network, the value set is 0.

INIT timeout Maximum reply wait time after transmission of message
Default 20000 ms
possible 20000 - 90000 ms

Drivers start automatically: Activation so that the driver is also started when WINMAG plus starts.

Command line of the driver: Configure separately to reach a driver.

Settings define which address is allocated to the network and via which driver connection is executed.

Virtual address of the network: Field for the virtual address of the event network.
The connected drivers or devices are addressed via the virtual address. The address of the connected device must be the same as the address defined. The virtual address of the event network must be a unique address within a network structure.
Default 0
Possible 1 - 32000

Connection parameters: This field may be used to configure the connection parameters of the Event protocol driver. The format for this field will be specified by the third-party who has developed the driver.

Drivers **It is only possible to select “Shared memory” or “TCP/IP”!**

- Shared memory This driver can be used within a PC and needs no other parameters.

Default This is the default value.

TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default “Shared memory” is default, “TCP/IP” must be selected if required.

Address: IP address or PC address of the PC at which the destination application is executed.

ACK time Acknowledgement time in seconds = wait time for acknowledgement
Default 5
Possible 1 - 9999

Virtual address for data re-transmission:
Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.
Network cohesion of the WINMAG plus multi-station system is described under Chapter Create new linked PC.

Settings - event protocol configuration
Within a multi-computer system, event protocol relationships are created via the editing of the linked PCs. For drivers linked via the event protocol, the virtual address of the driver and the linked WINMAG plus station must be defined in the driver. This setting depends upon the type of driver defined:

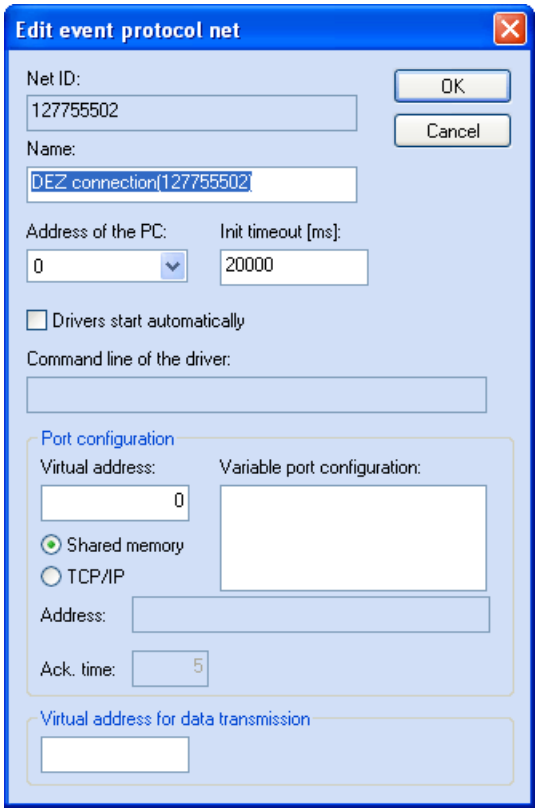
- with transfer parameter upon call (e.g. Ernitec driver 5008 driver)
- via own databases (e.g. VSERVER, FT driver)
- via initialization files (e.g. Philips.ini)
- via NETEDIT (MAFW connection)
- via the WINMAG plus database (e.g. ESSERNET driver)

The procedure for configuring the event protocol is to cross-reference the virtual addresses

- the virtual address of the driver must be configured as a client of the WINMAG plus station.
- the virtual address of the WINMAG plus station must also be configured as a client of the driver.

4.5 DEZ connection

Select DEZ connection and the “edit event protocol” dialogue box appears. In the name field the DEZ-connection is entered.



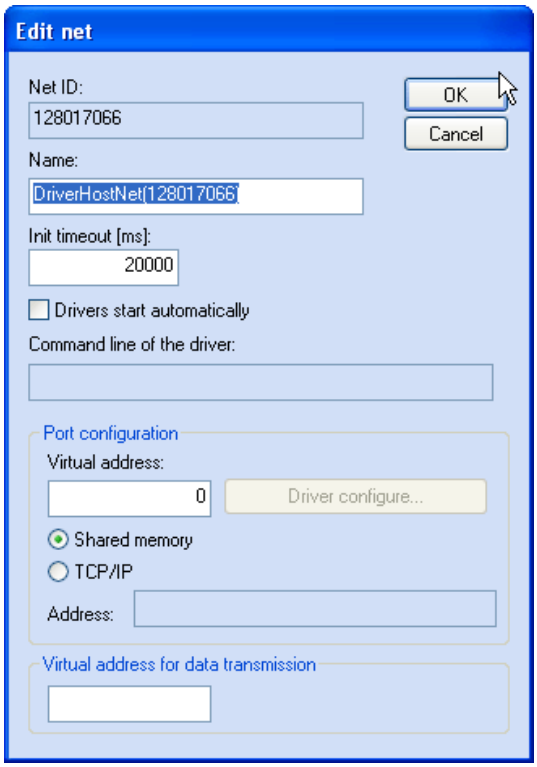
Net-ID: default, is necessary for start of the driver.

Virtual Adress: as required

Variable connecting adjustments:
Input field for the COM interface of the DEZ-9000 in format COM(n). The driver needs this information.

Detailed information about the DEZ driver is described in the document “DezDriver.PDF”. The document is located on the WINMAG plus CD in the directory DOC/deutsch

4.6 Select “DriverHostNet” and the “edit net” dialogue box appears. In the name field the DriverHostNet-connection is entered.



The dialogue box contains fields for
- the database network identification number
- the name of the network
- the init-timeout time
- the automatic start of the driver
- the virtual address
- the command line of the driver
- the selection of the driver
- the TCP/IP connection address
- the virtual address of the network for transmitting data

Click “OK” to accept the parameters

Field description:

Net ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. Select a unique name

Maximum length: 40 characters

Default: The sample name is suggested combined with the database ID

INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.

Default: 20000 ms

Possible value: 20000 – 90000 ms

Start driver automatically: Activation so that the driver is also automatically started when WINMAG plus starts

Command line of driver: The standard address is already defined. If the driver is located at another address, alter the entry.

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Virtual address of the network: Entry field for the virtual address of the event network.

The virtual address is used to contact the connected drivers or devices.

The address of the connected device must correspond with the address entered here. The virtual address of the event network must be unique within a network structure.

Default:

Possible value: 1 – 32000

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory This driver can be used within a PC and requires no additional parameters.

Default: Selected

- TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.

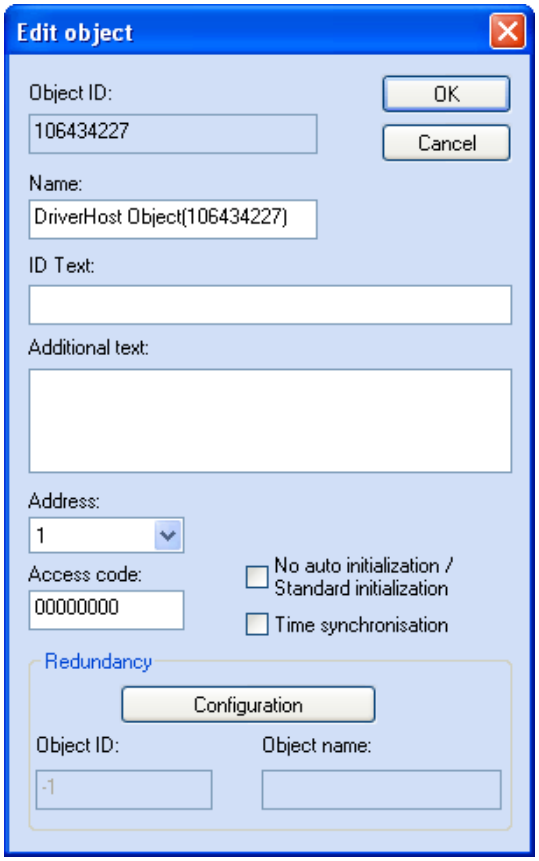
Default: Not selected

Address IP address or name of computer at which the destination application is executed

Data re-transmission:

Virtual address for data re-transmission: Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be a unique address within the network configuration. Network cohesion of the WINMAG plus multi-station system is described under Chapter “4.2.2.3.2 Create new linked PC”.

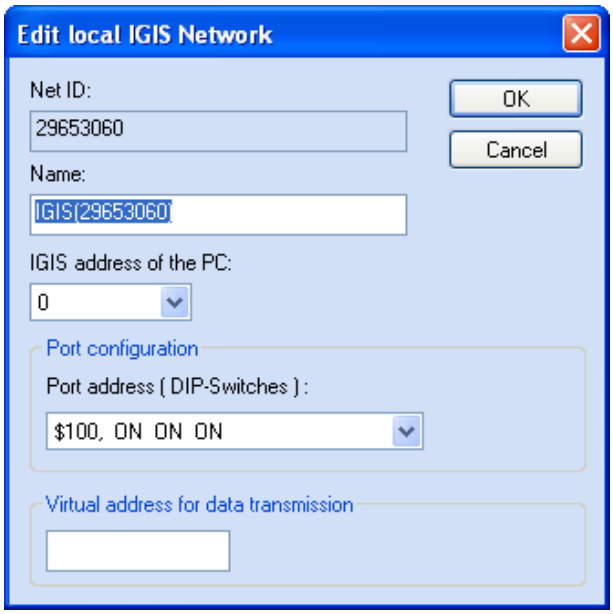
When selecting “DriverHostNet” in the right window “resources” the edit object dialogue box appears.



The dialog fields are described in chapter 4.2.2.3.4 Insert new object.

In the network "DriverHostNet" only one object is possible for each network. The "MultiDriverHostNet" network enables the connection of several objects

4.7 After you have selected "**IGIS**", the dialogue box "edit local IGIS Network" appears



The dialogue box includes fields for:

- the database network identification number
- name of network
- IGIS address of the PC
- I/O port
- virtual address for data transmission

Click OK to accept the parameters.

Field description:

Net ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: name of the network, i.e. unique name

Maximum length: 40 characters

Default: The default name appears combined with the database ID (object ID)

IGIS address PC Field for the allocated IGIS address of the PC interface card. The address must be an unique address in the network. Only main IGIS addresses can be used (0, 8, 16 ... 248). Only those addresses that are not allocated can be selected.

I/O addresses Field for the initial port address of the IGIS PC interface card. The address must be as per setting at card. 3 possible addresses are specified on the IGIS card (position of the 3 micro switches). PC port addresses must be unique addresses.

When running under Windows NT, the respective driver must be installed for the port address. A driver for the port address 110 h is installed as default driver.

Virtual address for data re-transmission:

Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.

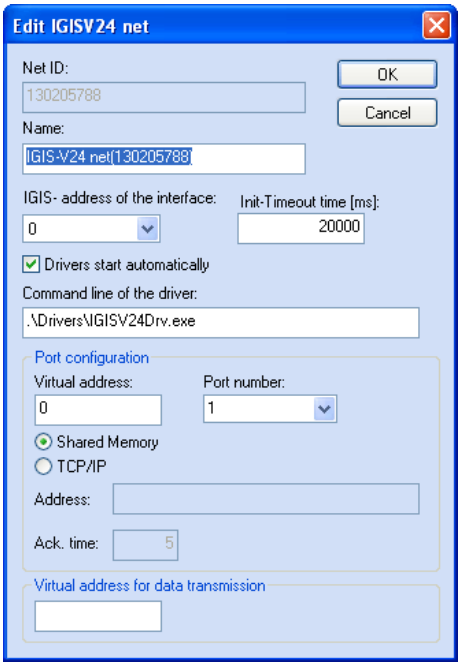
Network cohesion of the WINMAG plus multi-station system is described under Chapter Create new linked PC.

Further distribution of IGIS networks and virtual addresses can only be executed when using the multi-station option. The event transport protocol has been developed by Honeywell and is based on TCP/IP. Two drivers are available.

- TCP/IP driver for PC network communication (TCP/IP service must be installed and PC networking setup.

- Shared memory driver for PC internal communication (e.g. WINMAG plus and MAFW) run on one computer and exchange data.

4.8 After you have selected "**IGIS-V24-Net**", the dialogue box "edit local IGIS-V24-net" appears



This dialogue box includes fields for the following:

- the database network ID
- name of the net
- the IGIS address of the PC
- the INIT time out
- the automatic start of the driver
- the command line of the driver
- the virtual address of the network
- check box for the selection of driver type
- the virtual address for the data transmission

Click OK to accept the parameters.

Field description:

Net ID Database identification number of the network. The number is unique in the database and can only be read here.

Name name of the network, i.e. unique name

Maximum length: 40 characters

Default the default name appears together with the database ID

IGIS address Field for the allocated IGIS address. The address must be an unique address in the network. Only main IGIS addresses can be used (0, 8, 16 ... 248). Only those addresses that are not allocated can be selected.

INIT timeout Maximum reply wait time after transmission of message

Default 20000 ms

possible 20000 - 90000 ms

Drivers start automatically: Activation so that the driver is also started when WINMAG plus starts.

Command line of the driver: Configure separately to reach a driver.

Settings define which address is allocated to the network and via which driver connection is executed.

Virtual address of the network: Field for the virtual address of the event network.

The connected drivers or devices are addressed via the virtual address. The address of the connected device must be the same as the address defined.

The virtual address of the event network must be a unique address within a network structure.

Default 0

Possible 1 - 32000

Connection parameters: This field may be used to configure the connection parameters of the Event protocol driver. The format for this field will be specified by the third-party who has developed the driver.

Drivers **It is only possible to select “Shared memory” or “TCP/IP”!**

- Shared memory This driver can be used within a PC and needs no other parameters.

Default This is the default value.

TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.

Default “Shared memory” is default, “TCP/IP” must be selected if required.

Address: IP address or PC address of the PC at which the destination application is executed.

ACK time Acknowledgement time in seconds = wait time for acknowledgement

Default 5

Possible 1 - 9999

Virtual address for data re-transmission:

Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.

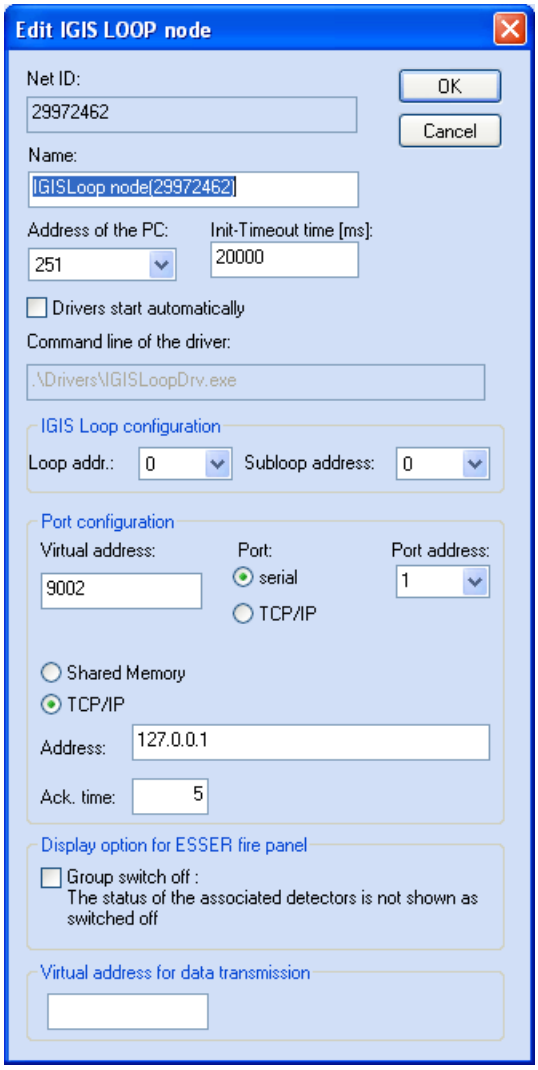
Network cohesion of the WINMAG plus multi-station system is described under Chapter Create new linked PC.

Further distribution of IGIS networks and virtual addresses can only be executed when using the multi-station option. The event transport protocol has been developed by Honeywell and is based on TCP/IP. Two drivers are available:

- TCP/IP driver for PC network communication (TCP/IP service must be installed and PC networking setup.

- Shared memory driver for PC internal communication (e.g. WINMAG plus and MAFW) run on one computer and exchange data.

4.9 When you select **"IGIS loop node"**, the "edit IGIS Loop node" dialogue box appears.



The dialogue box includes fields for the following

- the database network ID
- the name of the network
- address of the PC in this node
- the INIT time out
- the automatic start of the driver
- the IGIS loop address,
- the IGIS ring under address
- the port to be used
- the address of the port
- the virtual address of the subloop network,
- selection of the driver type
- the IGIS subloop address
- the port adress
- the virtual address of data transmission

Click OK to accept the parameters.

Currently, fire detection control units FDC 1024F from the central control unit version V05.00, FDC1016, FDC664, FDC616, BMS800x and intrusion detection central units IDCU MB100 from the central control unit version V01.00, IDCU MB100.10, IDCU MB256 from the central control unit version V5.0, IDCU 5008 are supported.

Field description:

Net ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network, i.e. unique name

Maximum length: 40 characters

Default: The default name appears combined with the database ID.

IGIS address PC:

Selection field for the assigned IGIS address of the PC in this node.

The address must be a unique address within a network. Only addresses which are not occupied can be selected.

Default: 251

Possible values: 0-251 for Honeywell central control units

1-32 for ESSER central control units
Attention: For all ESSER central control units in a virtual ESSERNET the same value must be defined.

For mixed installations with central units of the series 8008 and HB- or MB-central units the PC-addresss of the HB- or MB-central units must be >31.

Init time out (ms): Maximum waiting time when waiting for a reply to a transmitted messages. If the waiting time expires, an error message is signaled..
Default: 20000 ms
Possible: 20000 – 900000 ms

Driver start automatically: Activation so that the driver is also started when WINMAG plus starts.

IGIS loop settings:
The loop address of the node comprises the ring address and the ring subaddress.

Ring address: Ring address (L=loop).
Default: 0

Ring subaddress: Ring subaddress (K=node) to which the network is connected.

Default: 0

Connection settings:

Virtual address: Input field for the virtual address of the network. The virtual address of the network must be unique within a WINMAG plus system.
Default: 9000
Possible: 1-32000

A selection is only possible between a serial and the USB interface!

Port: The selection field determines to which interface the IGIS loop interface is connected.
Default: Serial
Possible: Serial, USB

Port address: Defines the address of the serial or the USB interface. With the serial interface the address corresponds with the actual COM interface. With the USB interface, this address is a virtual address and does not correspond with the actual USB address. When starting the driver, this virtual address is automatically assigned to a physical address. Default: 1

All nodes of a loop must have the same port address. If different values are defined, WINMAG plus asks whether all nodes of the loop need resetting at the new address. If the reply is negative, the old value is retained.

Driver used: Only shared memory or TCP/IP can be selected!

- shared memory: This driver can be used within a computer and does not require additional parameters.

Default: none

TCP/IP: An address must be assigned to the TCP/IP driver. This can either be the IP address or the computer name. WINMAG plus uses the address set in the computer which was set (fixed) at the computer or which was acquired via a DHCP server. The computer should therefore have a unique name.

Default: none

Address: IP address or computer name on which the target application is executed.

Ack. time: Acknowledge time in seconds = waiting time for the acknowledgement of a message.

Default: 5
Possible: 1-9999

Data re-transmission:

Virtual address for data re-transmission: Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.

Network cohesion of the WINMAG plus multi-station system is described under Chapter 4.2.2.3.2 Create new linked PC".

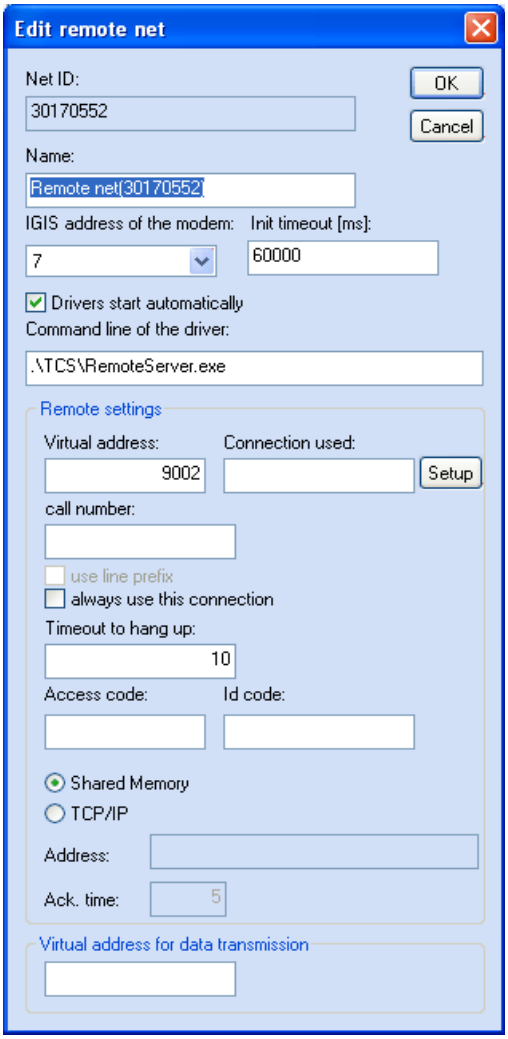
The redistribution of IGIS networks and virtual addresses can only be used together with the multi-station option.

The event transport protocol is a special Honeywell development and is based on TCP/IP. 2 drivers are available:

-TCP/IP driver for PC-relevant transmission (it must be installed in the operating system of the TCP/IP service and have PC networking.

-Shared memory driver to PC internal networking (e.g. WINMAG plus and MAFW run on one computer and exchange data). After altering the IGIS loop configuration, the IGISLOOPDRV.exe must be exited and restarted.

4.10 Click **"Remote network"** to invoke the dialogue box "edit remote net"



The dialogue box includes fields for the following:

- the database network ID
- name of network
- IGIS address of the modem
- init timeout
- the automatic start of the driver
- virtual address of the network
- modem settings incl.port with configuration dialogue
- dial number
- exchange line ID
- timeout time hang up
- passwords
- operating mode
- virtual address for transmission function (network via PC network onward distribution).

Click OK to accept the parameters.

Field description:

Net ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name Name of the network, i.e. unique name
Maximum length: 40 characters
Default The default name together with the database ID

IGIS address of the DGA/DS7500
The modem is addressed (specific IGIS addresses) within the remote network/ the remote central unit. This is always the last frame address of the defined IGIS address. This is the frame address 7 for the IGIS address 0. Even if no IGIS network has been setup, a pseudo IGIS address must be defined.
Default 7

Init timeout (in milliseconds) is the time the modem may take to reply. If this time is exceeded, an error message is output
Default 60.000 ms = 60 seconds

Drivers start automatically:
Activation so that the driver is also started when WINMAG plus starts.

Remote settings: Setting for reaching the remote modem

Virtual address Virtual address of the remote network. The virtual address of a remote network must be an unique address within a network structure and must be allocated to a network as virtual “bridge” address.

Default 9000

Connection used Local modem port at which the remote network calls. Select the required port from the dialogue box that is invoked after you have clicked “Configure”

Default COM 1

Number to Dial number of the remote network (from control system). The number can contain space characters, commas and slashes.

Maximum length 40 characters

Default none

Use fine prefix: Here you can define whether the line exchange ID available in the “Configuration” dialogue box is to be used. Only required with extension lines

Default none

Use everytimes this connection Here you can define whether the network is always reached via the port defined.

Default none

Time out to hang up (in seconds) - modem disconnection wait time after receiving last useful data.

Default 10 seconds

Access code: Password of the remote modem. The password is set at the remote modem and must be transmitted from the control centre together with the data. Use of the password permits communication. The password has 8 characters

Max. length 8 characters

Default none

Id Code: ID number of the remote modem. The ID number serves the absolute identification of the remote modem and is set at the remote modem. This ID number must be transmitted from the control centre together with the data. The use of the ID permits communication. The ID number has 10 characters

Default none

WINMAG plus performs the callback mode of the terminal device. The callback mode must not be configured in the modem. Transmission initiated by the WINMAG plus user is not immediately executed but first interrupted and then executed within callback connection. The remote user has fixed destination addresses so that only a number known to the remote user can be dialled.

Virtual address for data re-transmission:

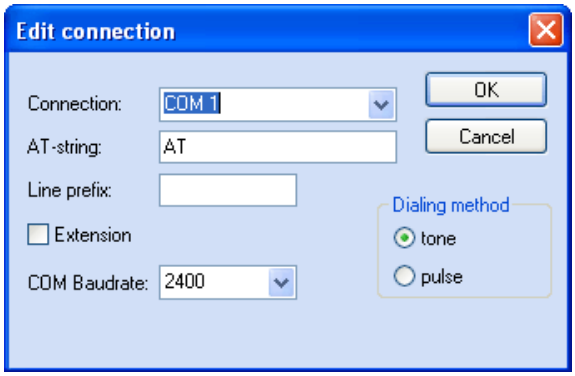
Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.

Network cohesion of the WINMAG plus multi-station system is described under Chapter Create new linked PC.

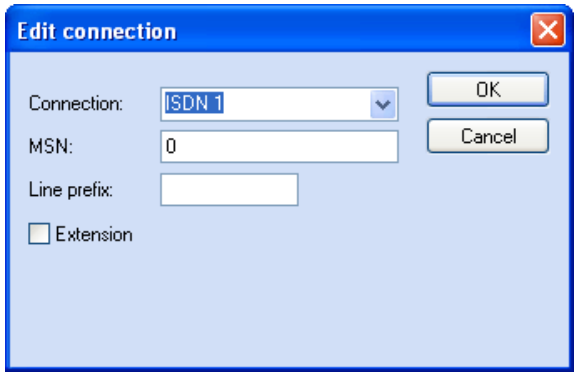
Press the “Configure” button to invoke a dialogue box for port configuration. This dialogue box permits you to define the interface, the initialization string and the exchange connection ID.

Depending on the type of connection selected (analog modem or ISDN), the “Setup connection” dialogue box is set accordingly.

Analog



ISDN



Field description:

Connection: Name of the port. The required port is selected from the list box, i.e. the box contains various serial and ISDN ports (e.g. COM x, ISDN x).

Default COM 1

Depending upon the type of port selected, a dialogue box containing fields for the following is invoked:

Analog

AT string Initialization address for the modem. The address depends upon the type of modem and must be adapted for certain types of modem. The following should be included in the address:

Default AT&FEOX3/N1%COS0=OV1
&F Recall factory default configuration
EO Commands are not echoed
X3 Blind dialling IMPORTANT at extension
\N1 Direct data link, only if baud rate COM = 2400
% Disable data compression
SO=0 Disable auto answer ring
V1 Word responses

Alternatives With higher baud rate at the COM port, NO must be used (normal data link only). Furthermore, the modem must work on telephone line with 2400 baud. Depending upon the type of modem assigned, various modulations may have to be made. Please check the modem user manual for the following:

B6 V.22 to 2400 bps connection only

% B2400

+MS=2,0,2400,2400 (select modulation)

e.g. AT&FEOX3\NO%COSO=OV1B6

COM Baud rate Baud rate set at interface (max. WINMAG plus 57600)

Default 2400

Dialing method Radio buttons for selecting the dialling system.
One of the radio buttons must be activated.

- tone Numbers are dialled per tone frequency
- pulse Numbers are dialled per pulse dialling

Default Audio frequency

ISDN

When allocating the S0 connections ISDN 1 to 8 observe that 2 B channels are required per S0 bus 2. Allocation per S0 bus must be in pairs beginning with ISDN1 and 2 and then for every additional network in ascending order – ISDN 3 and 4 etc. up to ISDN 7 and 8.

MSN MFC = multi-frequency dialling

MDN Multi-dialling number - own dial number of the PC
Default None

Distributed:

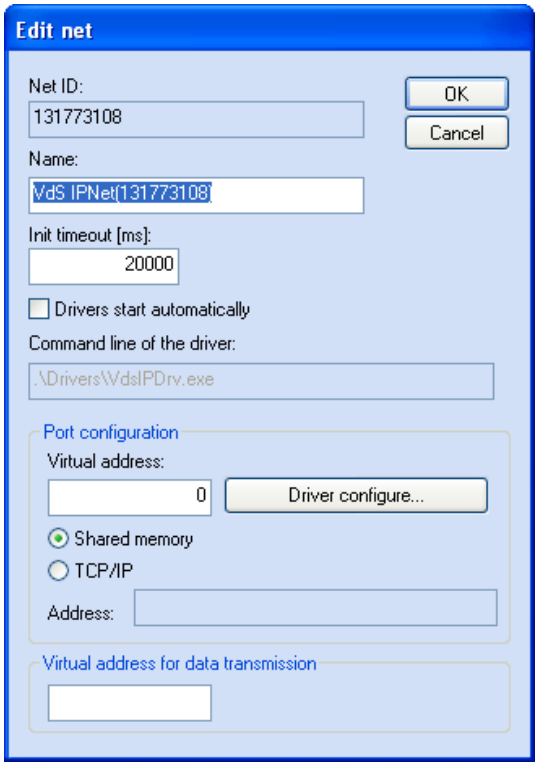
Exchange ID The exchange ID is used. Only required with branch exchanges
Default None

Exchange line Check box must be activated for exchange line
Default not activated

To reach a remote network, RemoteServer must be installed and started. RemoteServer setup can be found on your WINMAG plus CD, directory RemoteServer.The server can be installed at any system location.

4.11

Select “VdSIPNet” and the “edit network” dialogue box appears. In the name field the VdSIPNet-connection is entered and a special “Configuration driver” button is in the box.



The dialogue box contains fields for
- the database network identification number
- the name of the network
- the init-timeout time
- the automatic start of the driver
- the virtual address
- the command line of the driver
- the selection of the driver
- the TCP/IP connection address
- the virtual address of the network for transmitting data

Click “OK” to accept the parameters

The special “Configuration driver” dialog behind the “Configuration driver” button must also be activated and filled out.

Field description:

Net-ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. Select a unique name
Maximum length: 40 characters
Default: The sample name is suggested combined with the database ID
INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 90000 ms

Start driver automatically: Activation so that the driver is also automatically started when WINMAG plus starts

Command line of driver: The standard address is already defined. If the driver is located at another address, alter the entry.

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Virtual address of the network: Entry field for the virtual address of the event network.

The virtual address is used to contact the connected drivers or devices.

The address of the connected device must correspond with the address entered here. The virtual address of the event network must be unique within a network structure.

Default:

Possible value: 1 – 32000

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory This driver can be used within a PC and requires no additional parameters.

Default: Selected

- TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.

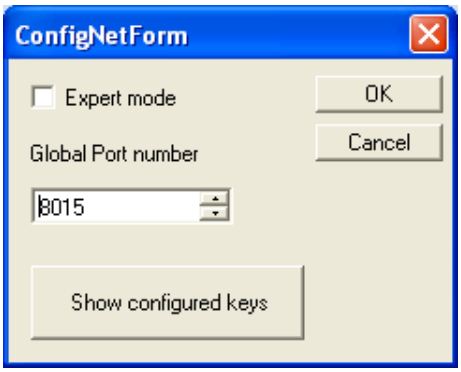
Default: Not selected

Address IP address or name of computer at which the destination application is executed

Data re-transmission:

Virtual address for data re-transmission: Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be a unique address within the network configuration. Network cohesion of the WINMAG plus multi-station system is described under Chapter “4.2.2.3.2 Create new linked PC”.

When selecting the button “Configuration driver” the “ConfigNetForm” dialogue box appears.



Field description:

Expert Mode:

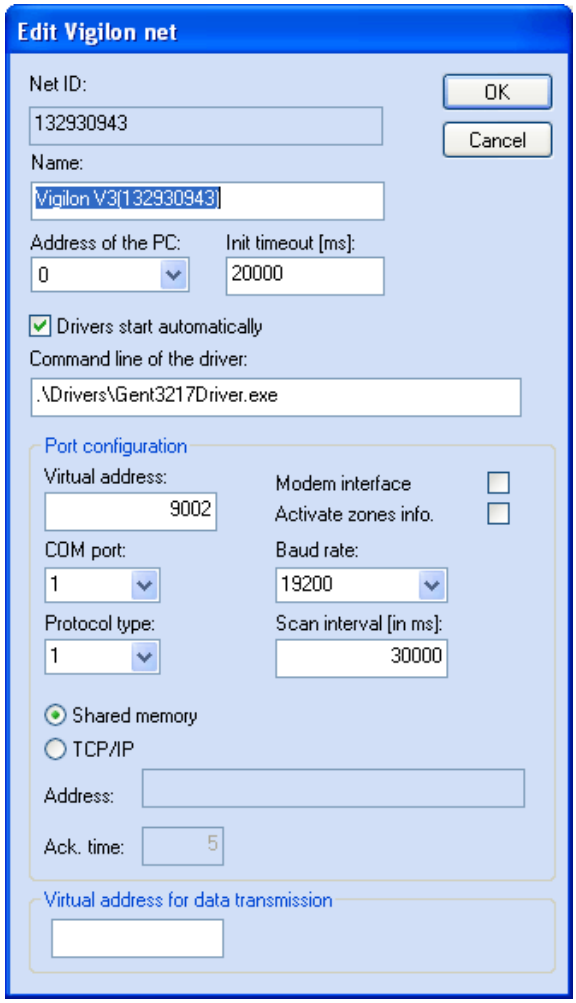
When activating this field the connection parameter of the central unit and the connected device must be configured manually.

Global Port number:

Standard setting. The port number is defined automatically .

4.12

After activating „**Vigilon V3**“ or „**Vigilon V4**“, „Edit Vigilon net“ dialogue appears.



The dialogue contains windows for:

- the database network identification number
- the name of the network
- the address of the PC
- the init timeout time
- the automatic start of the driver
- the virtual address of the network
- the modem interface
- the activate zones info
- the Com port
- the Baud rate
- the protocol type
- the scan interval
- the selection of the driver type
- the TCP/IP connection address
- the acknowledge time
- the virtual address of the network for data transmission

Click OK to accept parameters.

Field description:

Net ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. The selected name should be unique.
Maximum length: - 40 characters
Default: The default name appears together with the database ID

Address of the PC: Address of the PC at the network
Value range: 1 to 32
Default: 1

INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 90000 ms

Automatically start driver:
Activation so that the driver also starts automatically when WINMAG plus starts.

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Virtual address of the network: Input field for the virtual address of the event network. The connected drivers or devices are activated via the virtual address. The address of the connected device must correspond with the defined address. The virtual address of the event network must be a unique address within a network structure.
Default: 0
Possible value: 1 – 32000

Modem connection: Check box for modem connection

Activate zone indicator: Check box for zone indicator (zone indicator instead of individual detectors)

COM port: Selection of serial PC interface to which the gateway to the Nivilon network is connected.

Value range: COM1 to COM32
Default: COM 1

Baud rate: Baud rate at which the interface is set (Maximum value at WINMAG plus 576000)
Default: 192000

Type of protocol: Protocol type
Setting range: 0-63

Scan interval: Time interval for event scans in the background in ms. All users are requested. All events are displayed directly in true time. The scan is only for confirming the display.
Setting range:

Used driver: **Only shared memory or TCP/IP can be selected!**

- shared memory: This driver can be used within a PC and requires no additional parameters.
Default: Selected

- TCP/IP: You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default: Not selected

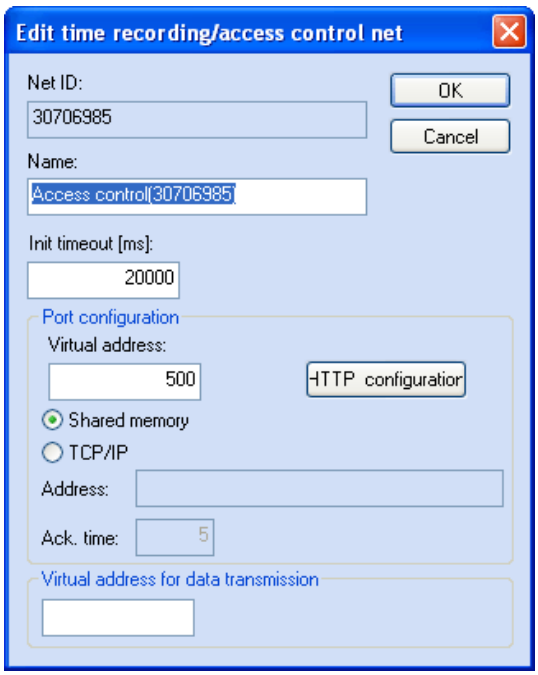
Address IP address or domain name of the PC at which the destination application is executed

Ack. time: Acknowledgement time in seconds = wait time for acknowledgement.
Default: 5
Possible value: 1 – 9999

Data transmission:
Virtual address for data transmission: Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.
Network cohesion of the WINMAG plus multi-station system is described under Chapter 4.2.2.3.2 Create new linked PC.

The Vigilon driver adopts the event protocol settings from the WINMAG plus database. The settings are allocated when the driver is called via the network ID or the name of the WINMAG plus EsserNet input.

4.13 Select **"Access control net"** to invoke the "Edit access control net" network dialogue box"



The dialogue box includes fields for the following:

- the database network identification number
- the name of the network
- the virtual address of the PC
- timeout time
- Virtual address of the network
- Connection parameters
- User name and password for Internet linking
- virtual address of the network for data transmission

Click OK to accept the parameters

Field description:

Net-ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name Name of the network, i.e. unique name
Maximum length 40 characters
Default The default value appears together with the database ID

INIT timeout Maximum reply wait time after transmission of message. If the wait time is exceeded an error message is output
Default 20000 ms
Possible 20000 - 90000 ms

The part of the dialogue box for the "Port configuration" permits you to define the network address and the type of driver.

Virtual address: Field for input of the virtual address of the ZK network
The virtual address of the ZK network must be a unique address within a network structure and must be in accordance with the address allocated in NETEDIT (booking task).
Default 500 (from MultiAccess)
Possible 1 - 32000

Drivers: It is only possible to select either "Shared Memory" or TCP/IP.

Shared Memory: This driver can be used within a PC - no other parameters must be set

Default This is default.

TCP/IP: You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus, the PC must be given an unique address

Default not selected

Address IP address or domain name of the PC at which the destination application is executed.

ACK time Acknowledgement time in seconds = wait time for acknowledgement

Default 5

Possible 1 - 9999

HTTP settings

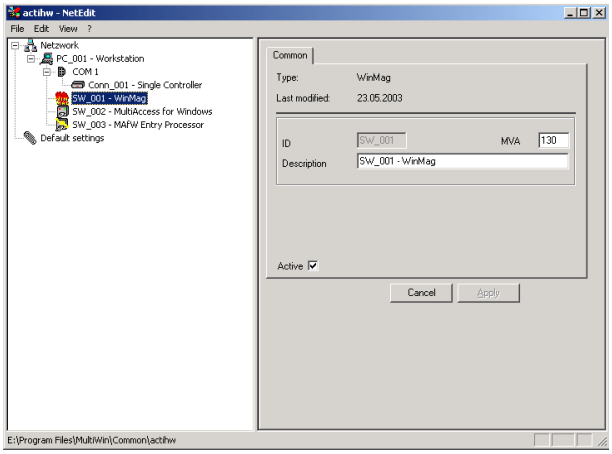
URL of the booking task: URL under which booking task resources for doors and zones are located
User ID ID for the booking task HTML page
Password Password for the booking task HTML page

Virtual address for data re-transmission:

Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be an unique address within the network configuration.
Network cohesion of the WINMAG plus multi-station system is described under Chapter 4.2.2.3.2 Create new linked PC.

MultiAccess / Netedit settings

The settings in MultiAccess and NetEdit must correspond to the WINMAG plus settings
The virtual event protocol addresses are set in NetEdit



The address used for booking processing must be the same as used in WINMAG plus .
The default address is 500

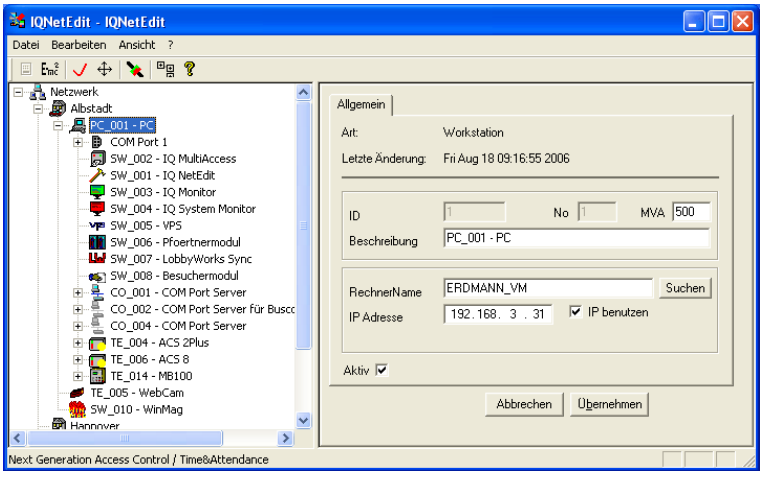
Important: Please be careful when editing. Address cohesion in MultiAccess must be observed.

WINMAG plus must be entered and active. The default WINMAG plus event protocol address is 130.

If you would like to display the last door actions or a list of persons present in the zone, the passwords enters into WINMAG plus must be entered into MultiAccess under “System data/Terminals/Configuration.
The Http-password corresponds to the passport included in “Edit WINMAG plus/ZE/ZK network. The field for the http-port included in the dialogue box must be set to 80.

Adjustments in IQMultiAccess / IQNetedit

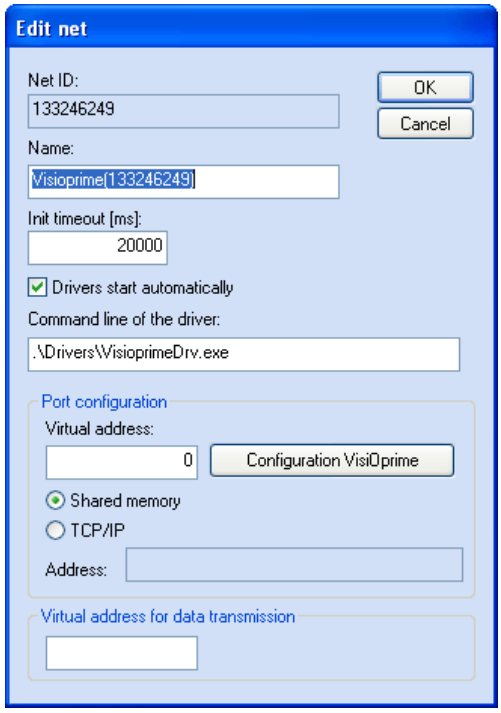
The adjustments in IQMultiAccess and IQNetEdit correspond with the WINMAG plus adjustments. The virtual WINMAG plus event protocol addresses are set in IQNetEdit



For booking the address must be the same as in WINMAG plus.
Default is MVA-Address 500.

4.14

The "Network configuration" dialog appears with a special “VisiOprime configuration” button when "Visioprime" is selected.



The dialogue contains fields for
- ConnectionServer
- Rescue door
- Multiscope
- Multiview
- Pview
- Video connection

The dialogue box contains fields for
- the database network identification number
- the name of the network
- the init-timeout time
- the automatic start of the driver
- the virtual address
- the command line of the driver
- the selection of the driver
- the TCP/IP connection address
- the virtual address of the network for transmitting data

Click “OK” to accept the parameters

The dialogue behind the “VisiOprime configuration” button must also be activated and filled out.

Field description:

Net-ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. Select a unique name
Maximum length: 40 characters
Default: The sample name is suggested combined with the database ID

INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 90000 ms

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Start driver automatically: Activation so that the driver is also automatically started when WINMAG plus starts

Command line of driver: The standard address is defined. If the driver is located at another address, alter the entry.

Virtual address of the network: Entry field for the virtual address of the event network.
The virtual address is used to contact the connected drivers or devices.
The address of the connected device must correspond with the address entered here.
The virtual address of the event network must be unique within a network structure.
Default: Possible value: 1 – 32000

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory This driver can be used within a PC and requires no additional parameters.
Default: Selected

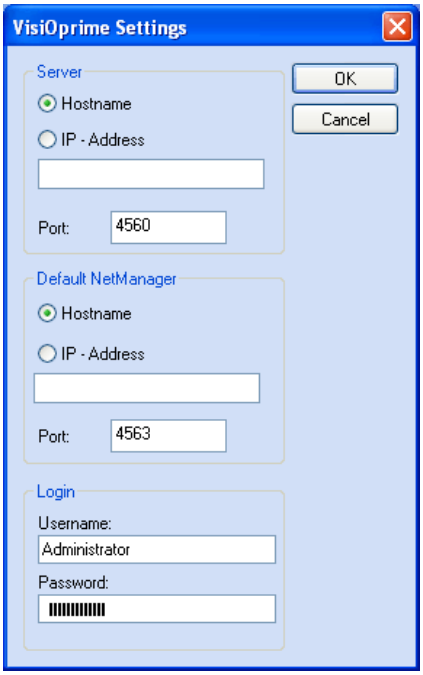
- TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default: Not selected

Address IP address or name of computer at which the destination application is executed

Data re-transmission:

Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be a unique address within the network configuration. Network cohesion of the WINMAG plus multi-station system is described under Chapter “4.2.2.3.2 Create new linked PC”.

The "VisiOprime Settings" dialogue appears when the “VisiOprime configuration” button is actuated.

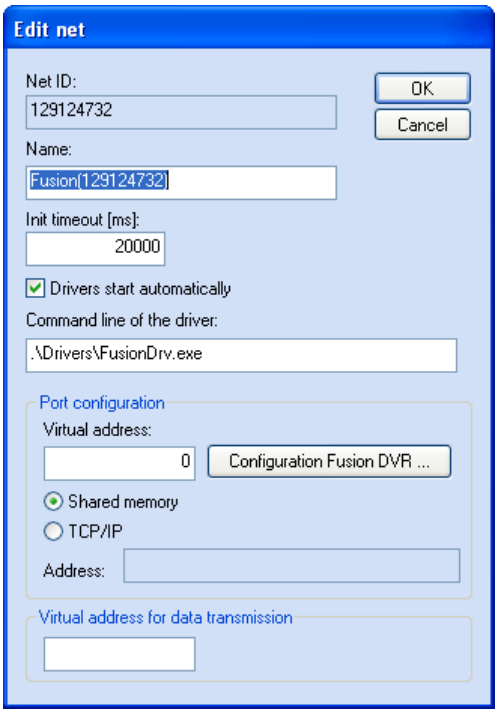


Host name or IP address and server port.

Default Remote Manager:
Host name or IP address and Default Remote Manager port.

Log in with user name and password.

4.15 The "Network configuration" dialogue appears with a special “Configuration Fusion DVR...” button when "Fusion" is selected.



The dialogue contains fields for
- ConnectionServer
- Rescue door
- Multiscope
- Multiview
- Pview
- Video connection

The dialogue box contains fields for
- the database network identification number
- the name of the network
- the init-timeout time
- the automatic start of the driver
- the virtual address
- the command line of the driver
- the selection of the driver
- the TCP/IP connection address
- the virtual address of the network for transmitting data

Click “OK” to accept the parameters.

The special “Configuration Fusion DVR...” dialogue behind the “Fusion configuration” button must also be activated and filled out.

Field description:

Net-ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. Select a unique name
Maximum length: 40 characters
Default: The sample name is suggested combined with the database ID

INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 90000 ms

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Start driver automatically: Activation so that the driver is also automatically started when WINMAG plus starts

Command line of driver: The standard address is defined. If the driver is located at another address, alter the entry.

Virtual address of the network: Entry field for the virtual address of the event network.
The virtual address is used to contact the connected drivers or devices.
The address of the connected device must correspond with the address entered here. The virtual address of the event network must be unique within a network structure.
Default: Possible value: 1 – 32000

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory This driver can be used within a PC and requires no additional parameters.
Default: Selected

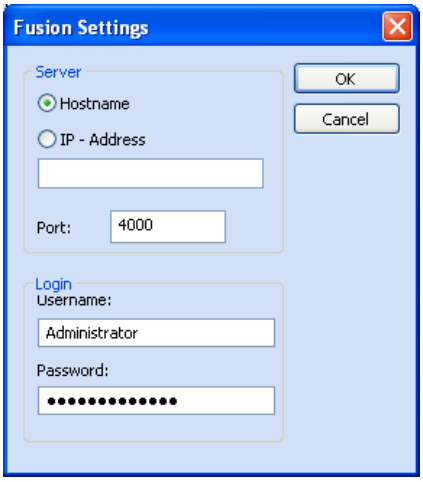
- TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default: Not selected

Address IP address or name of computer at which the destination application is executed

Data re-transmission:

Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be a unique address within the network configuration. Network cohesion of the WINMAG plus multi-station system is described under Chapter “4.2.2.3.2 Create new linked PC”.

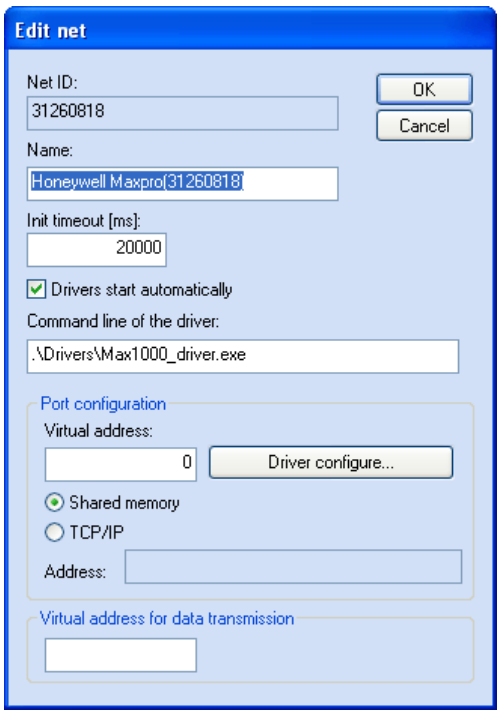
The "Fusion settings" dialogue appears when the “Configuration Fusion DVR...” button is actuated.



Server: Host name or IP address and server port.

Login: Log in with the same user name and password as in the Fusion configuration.

4.16 Select “**Honeywell Maxpro**” and the “edit net” dialogue box appears. In the name field the Honeywell Maxpro Net-connection is entered.



The dialogue box contains fields for
- the database network identification number
- the name of the network
- the init-timeout time
- the automatic start of the driver
- the command line of the driver
- the selection of the driver
- the TCP/IP connection address
- the virtual address of the network for transmitting data

Click “OK” to accept the parameters

Field description:

Net-ID: Database identification number of the network. The number is unique in the database and can only be read here.

Name: Name of the network. Select a unique name
Maximum length: 40 characters
Default: The sample name is suggested combined with the database ID

INIT timeout time: Maximum waiting period for reply to messages. If the waiting period expires, a fault is signalled.
Default: 20000 ms
Possible value: 20000 – 90000 ms

Settings define which address is allocated to the network and via which driver and which interface connection is executed.

Start driver automatically: Activation so that the driver is also automatically started when WINMAG plus starts

Command line of driver: The standard address is defined. If the driver is located at another address, alter the entry.

Virtual address of the network: Entry field for the virtual address of the event network.
The virtual address is used to contact the connected drivers or devices.
The address of the connected device must correspond with the address entered here.
The virtual address of the event network must be unique within a network structure.
Default: Possible value: 1 – 32000

Used driver: Only shared memory or TCP/IP can be selected!

- shared memory This driver can be used within a PC and requires no additional parameters.
Default: Selected

- TCP/IP You must allocate an address to the TCP/IP driver. This can be the IP address or the PC domain name. WINMAG plus uses the address actually defined at the PC or the address given via a DHCP server. Thus the PC must be given a unique address.
Default: Not selected

Address IP address or name of computer at which the destination application is executed

Data re-transmission:
Setup the virtual address used to re-transmit messages from this network to other stations via the Event protocol. The virtual address of the network must be a unique address within the network configuration. Network cohesion of the WINMAG plus multi-station system is described under Chapter "4.2.2.3.2 Create new linked PC".

5. The new network (including the parameters defined) appears in the left tree structure.
In a local IGIS, a sub file i.e. an object with the selected IGIS address is already defined for the IGIS card (also an IGIS user).

Edit network item

After you have selected the network item you can open the edit dialogue box via the “Edit” button. Now you can edit the dialogue box i.e. edit the name or connection.

Disable /delete network

If you would like to delete the network, you must first of all select the network item and then you can:

– Deactivate the network by moving the folder to the right sub-window using the **move right button.** You can easily reactivate the network again by selecting it from the list and moving it to the left sub-window**.** Deactivated objects are included in the list of resource objects (though they are not listed as “templates”).

– Delete using the **delete button** (Note: if an object is deleted it cannot be re-instated).

6. Event protocol information

– Every PC and every connected network driver must be configured with its own virtual address.
– Every own virtual address must have a least one client.
– The first own virtual address cannot be used for re-transmitting data.
– To receive data from different networks it must be used a shareable own address .
– Every virtual address within a multi-computer system must be a unique address.
– The MultiAccess application uses fixed virtual addresses depending of the version, i.e.:
To version V2.X 1 - 127 intern
– From version V3.0 and IQ-MultiAccess 500 + (free selection)

When linking to MultiAccess / IQ MultiAccess these existing addresses must be considered and other addresses must be used by other networks.

– At the moment, MultiAccess / IQ MultiAccess can transmit data to one client. If data should be displayed on several PCs, the access data must be re-transmitted via WINMAG plus.

Example: The PC with the virtual address 130 (PC1) is connected to an Essernet with the virtual address 210. The Essernet also has a virtual address for re-transmission of 211. PC1 re-transmits messages from the Essernet (using VA 211) to another PC (PC2) with the virtual address 220.

MultiAccess / IQ MultiAccess is running on a 3rd PC which sends data to PC 1. PC1 re-transmits this data to PC2.

Settings:

PC1 with Essernet

Own virtual address	130	
Client	210	Essernet (VA for re-transmission = 211)
Client	500	MafW (VA for re-transmission = 230)
Essernet VA for re-trans.	211	
Client	220 (PC2)	
MafW VA for re-trans.	230	
Client	220 (PC2)	

PC2

Own virtual address	220
Client	211 (IGIS)
Client	230 (MafW)
Client	130 (PC1)

PC3 with MultiAccess

Own virtual address	500
Client	130 (PC1)

Essernet driver

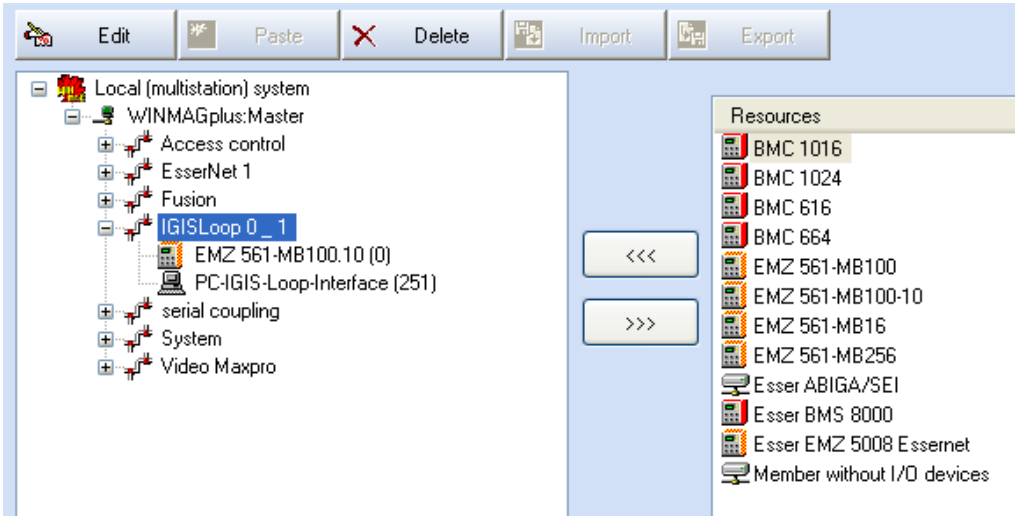
Own virtual address	210
Client	130 (PC1)

4.2.2.3.4 Insert new object

A new object is, for example, an additional control panel in an existing network.

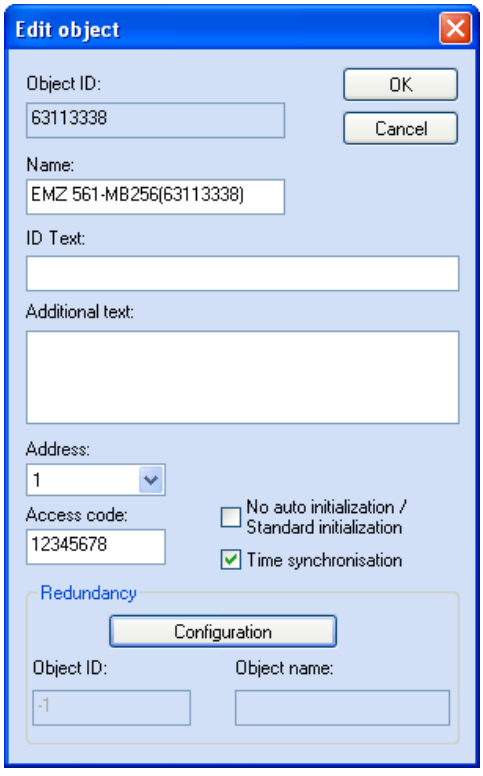
1. Select the **network** from the left sub-window into which you would like to insert an object. The objects that are available appear in the right sub-window

2. Select the required object from the right sub-window e.g. intrusion detection control unit 561 MB100.



3. Click the **move to the left** button
The object selected including all I/O devices is inserted (copied from the resources)

4. The "Edit object " dialogue box appears



In this dialogue box, you can edit the name of the object, the ID text (number) of the object, a (explanatory) additional text, the address of the end unit, the access code and the time synchronization.

The object ID is automatically added to the name.

The Redundancy field is used if a new object is created which should be redundant to an already existing object.

Acknowledge the parameters by clicking "OK".

Fields

Name Name of the object, i.e. unique name within the network
Maximum length: 40 characters
Default: The default name appears together with the database ID

ID text: Input field for the 1st ID number of the object.
Maximum length: 256 characters
Default: -

Additional text: Input field for an additional descriptive text for the object
Maximum length: 256 characters
Default: -

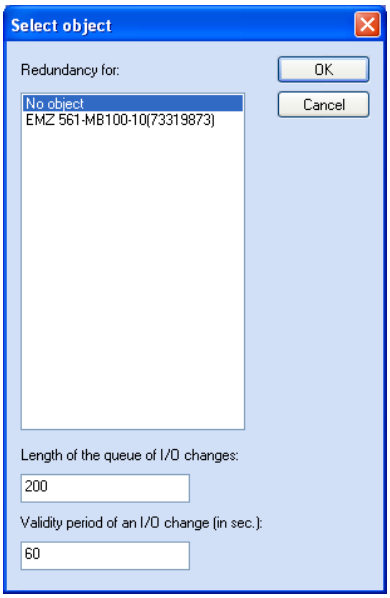
Address of the end unit: Field for the address allocated to the end unit. The address must be a unique address within a network. Even with non-IGIS addresses, the address of the object must be entered. If connection to MultiAccess for Windows is executed, the number 1 must be entered.

Standard initialising: Selection field to specify whether the object should be scanned during initialising via WINMAG plus. No special inquiry during activation, standard object initialising is retained.

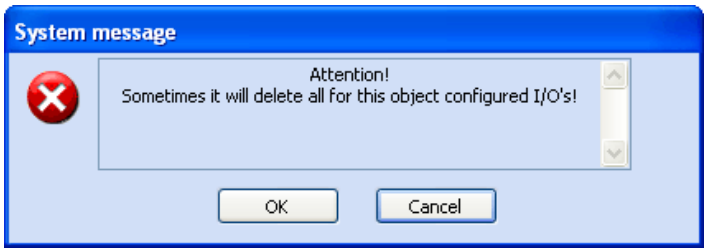
Password Field for entering the password programmed. Can be different depending upon the type of control panel, i.e. MB 10/16/8 6-digit, MB256 8-digit, FDC 16/664 3-digit (1. user password of the central unit)

Time synchronization: Check box for defining if an object shall be synchronised to PC time. Only possible for objects that are directly connected (not connected via Remote Server).

Redundancy: The “Select object” window appears when the Configuration button is selected.
If an object exists for which redundancy is possible, it is automatically displayed in the ”Redundancy for window”.
The number of I/O point changes saved in the list is entered in the “Length of I/O point queue” field.
The time in seconds for which the I/O point change should be valid in the case of signals being received is entered in the “Validity duration of I/O point change” field.
All parameters are imported by selecting the "OK" button.



The reference object I/O points are imported in the case of a new system or processing of a redundant object. Specially configured I/O points can be deleted during this.



5. The new object including the allocated parameters appears in the tree structure shown in the left sub-window.

After you have defined the object, the default I/O devices are available in the database but there are only a few important I/O devices activated !
You must now activate the individual I/O devices required (move from the right sub-window to left sub-window) ! See enable / disable I/O devices.

Edit object

If you have selected the object item, you can open the edit dialogue box again via the “Edit” button. You can now edit.

Deactivate/delete object

If you would like to delete an object you must first of all select if from the tree structure displayed in the left sub-window.

- Deactivate the object by moving the folder to the right sub-window using the **move right button.** You can easily reactivate the object again by selecting it from the list and moving it to the left sub-window**.** Deactivated objects are included in the list of resource objects (though they are not listed as “templates”).
- Delete using the **delete button** (Note: if an object is deleted it cannot be re-instated).

4.2.2.3.5 Activate / de-activate I/O devices

Some I/O devices are activated automatically after an object has been created.

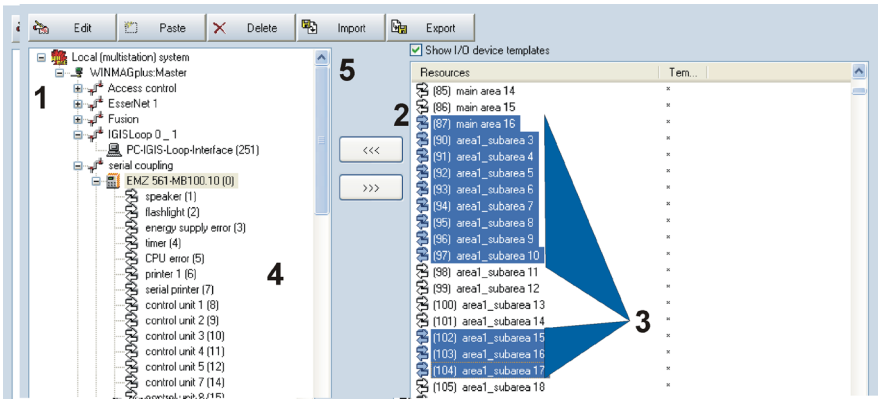
Usually, the list of I/O devices must be adapted to match the equipment installed, additional I/O devices must be activated.

The default database includes some I/O devices. To display these points activate the check box “Show I/O device templates”.

With the object MB 256 and BMC 1024 not all possible user I/O devices are available as templates.

There are three different modes of activating a I/O device:

- Move the I/O device from left to right window
- Import I/O device from list (please refer to Chapter 4.2.2.3.5)
- Import/export I/O devices
- Insert I/O devices (please refer to Chapter 4.2.2.36 Insert I/O device).



If lists for importing a I/O device are available, this is the easiest way to create an image of the object in WINMAG plus. Such lists can be created, for example, in WINFEM for the central units type MB256 /FDC 1024, in MultiAccess (as of version V4.0) by the user data converter for BMS 8000 central units or by the driver of the Esser EMZ 5008.

Procedures for enabling I/O devices.

1. Select the **object** for which you would like to edit I/O devices from the tree structure shown in the left sub-window.
The I/O devices already activated appear in the left sub-window. The right sub-window contains the items available in the database.

2. Activate the “Show I/O device templates” selection field. (default = disabled)

3. Depending on the setting of the check box, the window contains

Not activated	only I/O devices, which had been active and then were deactivated by moving to the right sub-window.
activated	all I/O devices of the object.

You must select the I/O device(s) to be activated from the right sub-window.

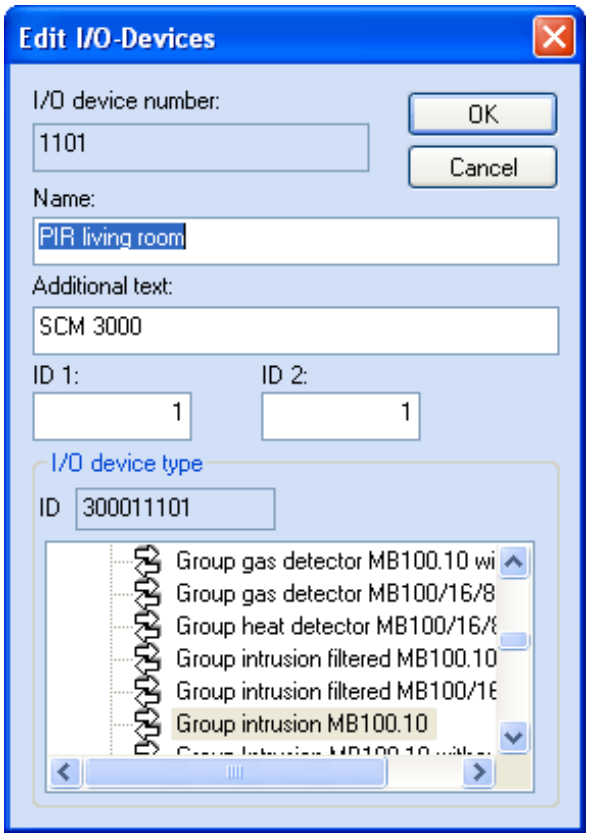
You can select by marking

- individual items
- a group of items by pressing the SHIFT key whilst clicking
- multiple items by pressing the CTRL key whilst clicking

4. Select the move left button
The items that you have marked are moved and activated.
If you have marked an individual item, you can also move the next item without marking it by just clicking the move button again.

The moved item is then inserted at the end of the list of items and is only arranged in the list according to I/O device number after you have refreshed the window.

Edit I/O devices



After you have selected an I/O device, repeat the selection within approx. 5 seconds to directly edit the name. You can open the “Edit I/O devices” dialogue box by clicking the “Edit” button.

You can edit the name of the I/O device and the I/O device type in the dialogue box.

Click “OK” to accept the settings.

Fields

Name Field for the name of the I/O device. The name should be a unique name within the object (to allow direct execution of control functions from SIAS)

Maximum length	40 characters
Default	The copied default name appears

Additional text Field for addition I/O device text. The text can be output in the I/O device tool tip or in SIAS programs.

Maximum length	256 characters
Default	None

ID1 Field for I/O device ID1. The ID permits you to understand the shifting of I/O device numbers when importing central unit configuration. With BMS8000 central units, the value includes the allocated group number.

Possible	1 to 2,147,483,648
Default	1

ID2 Field for I/O device ID2. The ID permits you to understand the shifting of I/O device numbers when importing central unit configuration. With BMS8000 central units, the value includes the allocated detector number.

Possible	1 to 2,147,483,648
Default	1

I/O device type Field for the allocated I/O device type. A I/O device type is allocated to every template I/O device. The I/O device status names, function values, alarm causes nd filter structures are allocated via the I/O device type. You may only select types of the same family, i.e. parent type and types derived from the parent type.

You can not edit the number of the I/O device in the “Edit I/O devices” dialogue box. However, you can edit this in the database.

Delete/deactivate I/O device

If you would like to delete an I/O device you must first of all select if from the tree structure displayed in the left sub-window.

- Deactivate the I/O device by moving the folder to the right sub-window using the **move right button.** You can easily reactivate the I/O device again by selecting it from the list and moving it to the left sub-window. Deactivated I/O device are included in the list of resource I/O devices (though they are not listed as “templates”).

- Delete using the **delete button** (Note: if an I/O device is deleted it cannot be re-instated).

4.2.2.3.6 Import/export I/O devices

From the WINMAG plus version V05.00 an import/export function for objects is available.
From the WINMAG plus version V06.00, import can be executed using ID 1, ID2.
Thereby, the shifting of I/O devices numbers is possible. Links (e.g. to symbols) remain despite changed I/O device number

4.2.2.3.6.1 Import I/O devices

The following data can be imported:

- I/O device number	numerical	fixed
- I/O device name	text	fixed
- I/O device type	numerical	fixed
- additional text	text	optional
- ID1	numerical	optional
- ID2	numerical	optional

Following is an example of the structure of an import file (WinFem 1024)

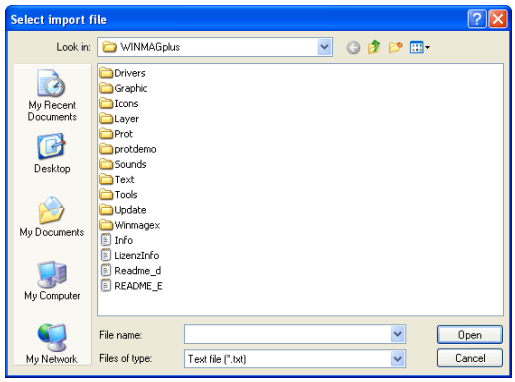
FDC 1024F
User: Example FDC 1024
Object
System
Eprom version: BZR24.04.2V04.03

I/O devices

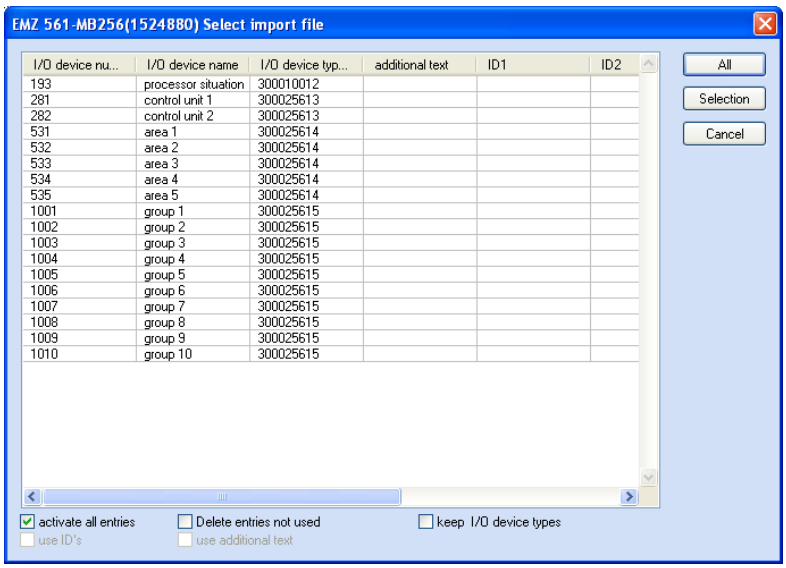
No.	Name	Signal	Additional text	
1;	RS-Gruppe 1	; 300102441;	Room 0.02D	;
2;	RS-Gruppe 2	; 300102441;	Room 0.02D int. ceiling;	
3;	RS-Gruppe 3	; 300102441;	Room 0.29D staircase 1	;
4;	RS-Gruppe 4	; 300102441;	Room 0.28D	;
5;	RS-Gruppe 5	; 300102441;	Room 0.36D,0.37D	;
6;	RS-Gruppe 6	; 300102441;	Room 0.38D,0.46D,0.48D	;
7;	RS-Gruppe 7	; 300102441;	Room 0.46D	;
8;	RS-Gruppe 8	; 300102441;	Room 0.39.1D,0.39.2D ;	
9;	RS-Gruppe 9	; 300102441;	Room 0.40D,0.41D	;
10;	RS-Gruppe 10	; 300102441;	Room 0.49D,0.50D,0.51D	;
12;	RS-Gruppe 12	; 300102441;	Room 0.41D	;
13;	RS-Gruppe 13	; 300102441;	Room 0.52W,0.53W,0.54W	;
14;	RS-Gruppe 14	; 300102441;	Room 0.45W	;
15;	RS-Gruppe 15	; 300102441;	Room 0.42W,0.43W,0.44W	;
16;	RS-Gruppe 16	; 300102441;	Room 0.55W	;
17;	RS-Gruppe 17	; 300102441;	Room 0.35.1D	;
18;	RS-Gruppe 18	; 300102441;	Room 0.35.2D	;
19;	RS-Gruppe 19	; 300102441;	Room 0.32D ventilation duct	;
20;	RS-Gruppe 20	; 300102441;	Room 0.32D ventilation duct	;
21;	RS-Gruppe 21	; 300102441;	Room 0.32D,0.31D	;
22;	RS-Gruppe 22	; 300102441;	Room 0.32D ventilation duct	;
23;	RS-Gruppe 23	; 300102441;	Room 0.32D ventilation duct	;
24;	RS-Gruppe 24	; 300102441;	Room 0.32D ventilation duct	;
25;	RS-Gruppe 25	; 300102441;	Room 0.32D ventilation duct	;
26;	RS-Gruppe 26	; 300102441;	Room 0.25D	;
27;	RS-Gruppe 27	; 300102441;	Room 0.11.2D	

The help program “KDKonv.exe” is available for the ESSER central units of the series BMS 8000. This help program creates a WINMAG plus import file from the PRC file created by the user data editor. The help program is called “Kdkonv.exe” can be found in the “WINMAG plus\Tools” program group as well as in the group “tools” of the start menu .

Procedure for the import of I/O devices



Click the “import data” button to invoke the dialogueue box for file selection.
After you have selected a file, a window displaying a list of the I/O devices included in the file appears.



I/O device nu...	I/O device name	I/O device typ...	additional text	ID1	ID2
193	processor situation	300010012			
281	control unit 1	300025613			
282	control unit 2	300025613			
531	area 1	300025614			
532	area 2	300025614			
533	area 3	300025614			
534	area 4	300025614			
535	area 5	300025614			
1001	group 1	300025615			
1002	group 2	300025615			
1003	group 3	300025615			
1004	group 4	300025615			
1005	group 5	300025615			
1006	group 6	300025615			
1007	group 7	300025615			
1008	group 8	300025615			
1009	group 9	300025615			
1010	group 10	300025615			

The number of columns displayed can vary as an “additional text” may not be entered. The columns available in the example shown are default columns. The first column is for the I/O device number, the second column is for the I/O device name, the third column is for the I/O device ID and the fourth column (if available) is for an additional text.

The fifth and sixth columns are for optional IDs. If data does not correspond to column, drag and drop column headings to move data to correct column.

Various options are available for importing data:

- All — all I/O devices included in the list will be imported
- Selected — only those I/O devices that are selected will be imported

Use the Ctrl or Shift keys and the left mouse button or up/down arrow keys to select individual I/O devices or a block of I/O devices.

You may define different **criteria** for both options

Activate all entries	All the I/O devices currently activated in the object remain active after import
Delete entries not in import list	Only the imported I/O devices are available to the object after import - all other I/O devices will be deleted.
Use Ids	Use Ids to allocate I/O devices (presently for Esser 8000 only)
Use additional text	Import additional text field for the I/O device

“Activate all entries” is the default setting.

After you have selected an option for import, a “wait” display appears. The importing of data can be interrupted by pressing the “Cancel” button.

After you have finished or interrupted the importing of data, the “Edit object” dialogueue box appears. Acknowledge by pressing OK.

When importing an entire list of items, only I/O devices included in the list are activated. All previously activated I/O devices (not included in the imported list) are “de-activated”. When importing marked items and “Activate all entries” is unchecked, all active items in the object remain unchanged.

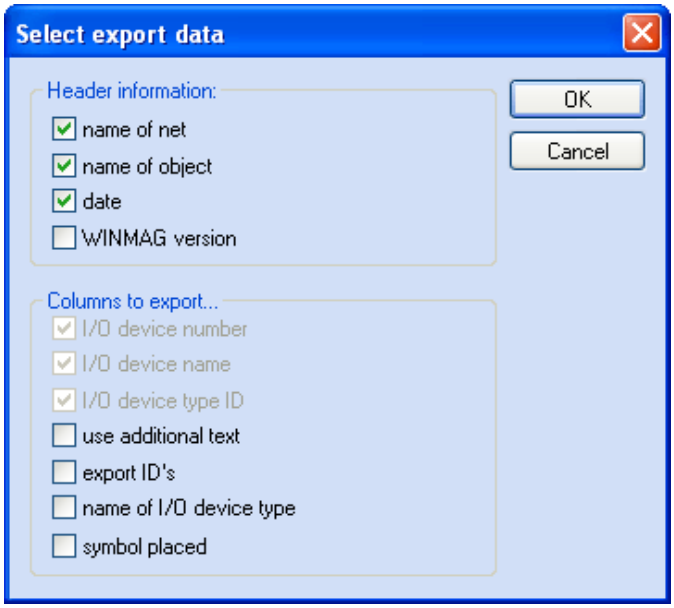
4.2.2.3.6.2 Export I/O devices

All active I/O devices of a WINMAG plus object can be exported to an ASCII text file.

Procedure for the export of I/O devices

The object selected for export must be in the list of active objects. Then the “export data” button is activated.

Click the “export data” button to invoke the dialogueue box for selecting the data required in the export file.



Various options are available:

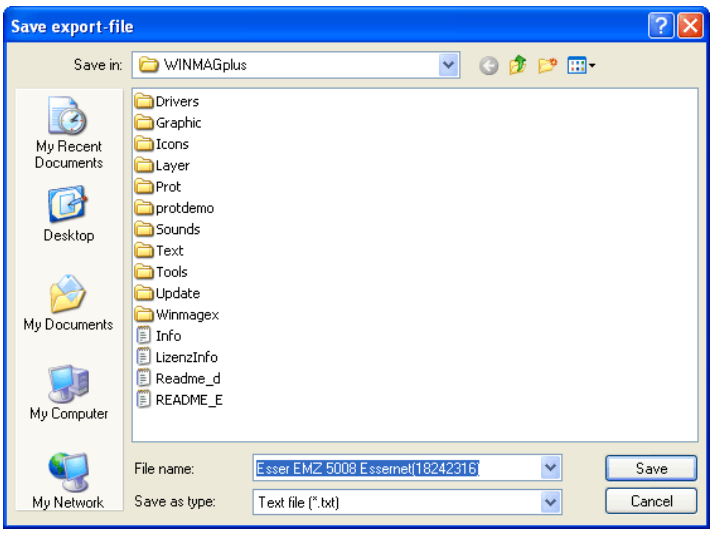
- name of net — Network name of the object to be exported
- name of object — Object name of the object to be exported
- date — Current date
- WINMAG version — WINMAG plus version used
- I/O device number — Number of the I/O device to be exported
- I/O device name — Name of the I/O device to be exported
- I/O device type ID — Type ID of the I/O device to be exported
- use additional text — Output of additional text field
- export ID’s — Output contents of ID1 and ID2 fields
- name of I/O device type — Output name of I/O device type
- Symbol placed — At least one symbol has been placed in graphics

The first four options of this list are stored once at the beginning of the export file.

The options for I/O device number I/O device name and I/O device type ID are always selected and cannot be changed.

After clicking “OK” you can specify the name and location of the export file using the “Save export file” dialogueue.

The ASCII export file lists I/O devices in separate lines and columns. The columns are separated by a semicolon.



4.2.2.3.7 Insert I/O devices

If not all possible I/O devices are included in an object, additional I/O devices can be manually added by clicking the “Paste” button

If an object does not contain all required I/O devices (e.g. user with MB256), these can be inserted

- by clicking the “Insert” button or
- by direct input into the WINMAG plus system database. For this you require Microsoft Access. You must make the necessary entries in the I/O device list manually (not recommended except for experts).
- Import I/O devices from text files

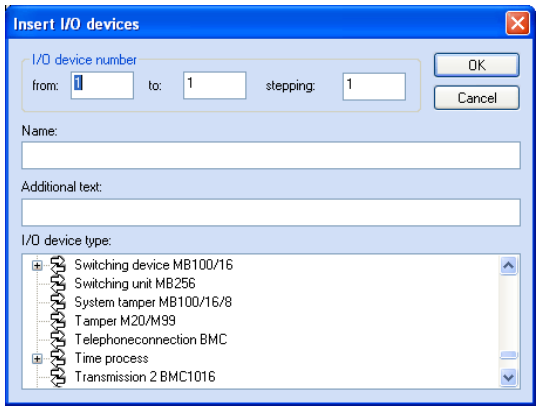
When inserting I/O devices, the I/O device number and the I/O device type must be allocated. To do this, you must have knowledge of the I/O device structure of the object to be extended.

Procedure for inserting I/O devices

1 Select the object into which I/O devices should be inserted from the left window. The “Paste” button becomes active 

.

2 Click the “Paste” button to invoke the “Insert I/O devices” dialogueue box.



By entering values in the “from” and “to” fields you can insert several consecutive I/O devices.

Fields

I/O device number from	Field for the first I/O device number to be entered.
I/O device number to	Field for the last I/O device number to be entered (if several I/O devices are to be inserted). If only one I/O device is to be inserted, the field must be left empty.

If an I/O device number has already been allocated to an object, a new I/O device can not be inserted using this number. I/O devices can only be inserted using non-allocated I/O device numbers.

Name	Field for the name of the I/O device. This should be a unique name within an object. If several I/O devices are being created, the name is given a consecutive number. This starts with 1 for the from numbers Maximum length 40 characters incl. consecutive number
I/O device type	Field for the I/O device type allocated. Every I/O device inserted is allocated to the I/O device type selected. The I/O device status names, function values, alarm causes and filter structures are allocated via the type.
OK	Acknowledgement of correct parameters. I/O devices will be created with specified parameters as long as numbers are not yet included in the object.
CANCEL	Exit the dialogueue box. Input is cancelled.

4.2.2.3.8 Edit system I/O devices

The system network contains a number of internal objects and I/O devices. You can edit system I/O devices in the same way as control panel I/O devices.
In the system network, you can edit the objects “Calendar” and “Variables”. You can not edit any other items (e.g. “Time zones” or “Security”).

4.2.2.3.8.1 Edit calendars

WINMAG plus calendars are collections of special days in a 4-year cycle. The calendar is forward-defined cyclically i.e. an executed year is automatically appended to the end of the processing time. e.g. a 20049 item is automatically made an item for the year 2005 after elapse of the year 2004.
For dates that do not alter, (e.g. birthday) you only need edit the calendar once and then the item automatically appears in all subsequent years.

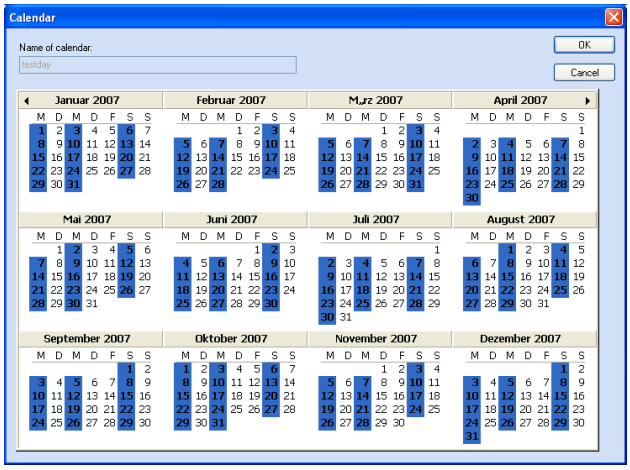
“Calendars” are a part of the system network. Each calendar is displayed and can be edited in the same way as an I/O device.
A calendar can also be displayed as a symbol

Create new calendar
To create a new calendar, you must create (in the same way as creating a new object from the resources) a new item using the move left button. The sample entry is already selected. The “Edit calendar” dialogue box immediately appears.

Edit calendar
To edit an existing calendar, you must select the name of the calendar from the object. With user-defined calendars, activate the “Edit” button. This permits you to open the edit dialogue box.

The "Edit calendar" dialogue appears after selecting "Edit":

The name of the calendar can be entered or changed in the "Calendar name" field



The arrow keys ► and ◄are used to select the desired year.
The calendar illustrates months with the days in a weekly matrix. Each column is equivalent to a weekday. The first column is equivalent to Monday.

Days can be marked within the calendar by clicking the day field or moving over areas with the mouse button depressed. Marked days are highlighted with a blue background. The marking can be removed by clicking or moving over the area again.

A calendar appears in the system network as an I/O point in the calendar object. Calendar inquiries can be realised in the same manner as all other messages in triggering conditions and internal program conditions.

Example of calendar inquiry:

if weekday = "workshops" then ...

Delete calendar
You can delete a selected calendar using the “Delete” button (the system asks you if you really want to delete).

4.2.2.3.8.2 Time zones

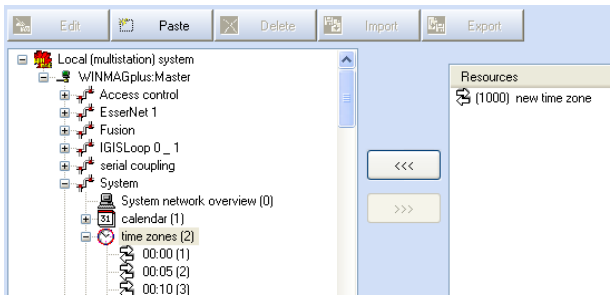
The day is divided in "Time zones" over I/O points in 288 time zones of 5 minutes duration. The system automatically sets the I/O point of the current time zone for the current time,
e.g. for 11:40

- 11:40 (mp_nr = 141).
- the status "In the time zone" is set to "no" for the I/O point 11:35 (mp_nr = 140).

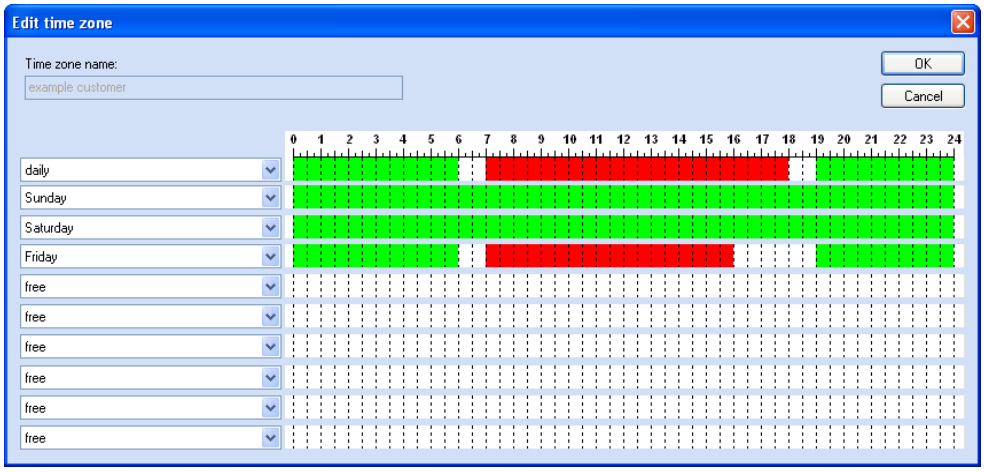
Triggering conditions are executed every 5 minutes at least through this change.

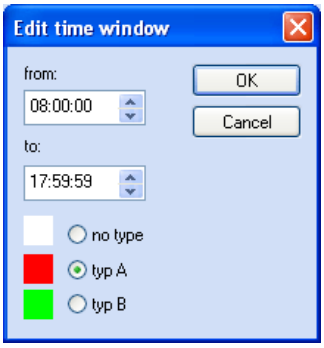
Reason: The SIAS command "getparameter" waits for an input signal. The subsequent triggering conditions are only executed after the signal is received. An inquiry of this I/O point change can be realised in the triggering conditions (Alarm_reason_nr = 50).

Enter/Edit time zones



The “Edit time zone” window can be opened with the “Enter” button or the “Left” arrow key after selecting the “Time zones” icon.





Enter the desired name in the time zone name text field.

The fields on the left are selection fields for weekdays or calendars already created. Select the desired values here sequentially from top to bottom.

The “Edit time window” dialogue appears when the respective time bar is double clicked.

Enter the desired time in the “from” and “to” rotating fields and then select the time zone type. The values entered are imported and displayed in the time bar with the “OK” key.

Type A time zones are displayed in red in the time bar, with Type B time zones being illustrated in green. Time zones without a type are not illustrated in the time bar.

4.2.2.3.8.3 Edit variables

Variables from the system network are known as “globals” as they are globally valid on a WINMAG plus PC. They can be queried by all programs. Variables are structured like detection points for which all possible states and function values are defined.

A special feature of a variable is the fact that each input (0-7) is always equal to the corresponding output (0-7).

In other words, the control functions 0-7 are directly linked to the state function values 0-7. Thus when the user selects a particular control function, the value of the variable is always set to the number of the control function selected.

As a variable is a normal I/O device, it can be displayed as a symbol. It can also be queried and edited using control commands.

Create new variable
To create a new variable, create a new item by selecting from the resources (as described under “Create new object”) and moving to the left. The sample entry is already selected. The “Edit I/O device” dialogueue box appears.

Edit variable
To edit an existing variable, you must select the name of the variable in the object. If you have defined a variable, the “Edit” button is active. Click this button to invoke the “Edit” dialogueue box.

Delete variable
Click the “Delete” button. The “Are you sure “ dialogueue box appears. Click “Yes” to delete the variable

Set variable values
The value of a global variable can be set via:

- the I/O device list by setting a function value
- the selection of a variable symbol
- SIAS control commands in the user programs.

4.2.2.3.8.4 Security

The “Security” menu displays special system safety events. These events can be queried as I/O devices.

- User action interval displays if the user action interval time defined in “General options” has expired, i.e. the time within which a manual action must be executed such as the pressing of a key.
- User change displays if a user has been changed
- Dongle state displays if a dongle has been identified

Possible states /function values

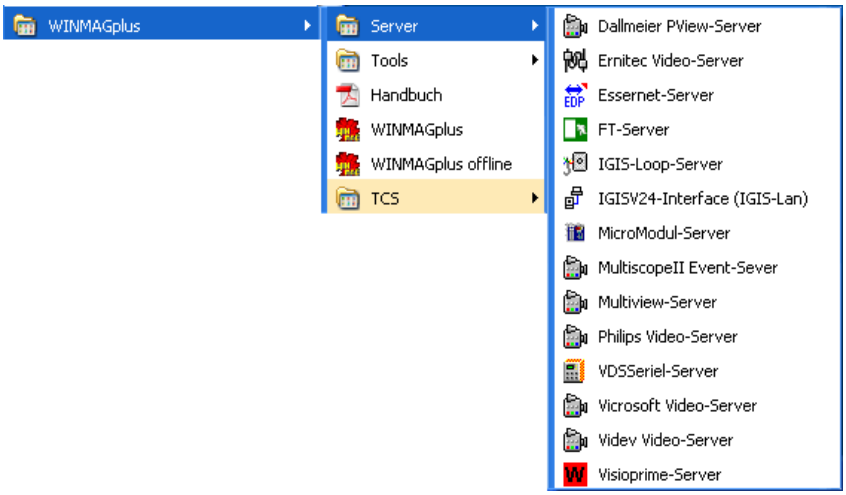
User no-action alarm	User no-action alarm	OK	
		Pre-alarm	user warning message activated - audible warning given
		Alarm	no-action period exceeded
User change	User change	No	no user change identified
		Yes	user change identified, value must be manually reset
Dongle state		Exisiting	dongle identified
		Missing	no dongle identified

4.2.2.4 Connection examples

Network configuration for all connections must be performed in WINMAG plus. Please also refer to Chapter 4.2.2.3 and the following pages. Connection is executed via independent driver programs which must be run in addition to WINMAG plus. Some drivers are included with WINMAG plus, these can usually be called via the WINMAG plus program menu, sub-menu “Server”.

The option that the driver is automatically started is partially available (see 4.2.2.3.2, Section 4.1 to 4.8 define networks).This option, however, is only possible when only **one** network of the same type is available. With several networks of the same type, the driver must be called separately for every network.

WINMAG plus “Server” menu



4.2.2.4.1 Igis-Loop connection

IGIS-Loop in the Honeywell loop network with route capability for hazard detection systems.

The connection of IGIS-Loop networks is effected via serial PC interface. This is different to connection via the IGIS network, the network entry IGIS-LOOP node is used in the WINMAG plus network configuration.

Connection of hazard detection system to the IGIS-Loop is effected in the same way as with the conventional IGIS network.

IGIS loop networks are actuated via the driver “IGISLoopDrv.exe”. The configuration data for the driver are stored in the WINMAG plus database.

The start of the driver is executed by calling the program “IGISLoopDrv.exe” in the WINMAG plus subdirectory “drivers”. If during installation, the option “server” was activated, then link “IGIS loop server” is stored in the submenu “Server” in the WINMAG plus program group.

Prerequisite for commissioning the IGIS-Loop server:

- The IGIS loop interface must be equipped with a software version V02.00 or higher.
- Communication between the IGIS loop interface and WINMAG plus takes place via a serial interface or via a USB port.

Configuration of the driver

The following entry is defined as a standard entry (e.g. after installation in “C:\Programme\WINMAG plus\drivers\IGISLoopDrv.exe”

“/DB” and “/Vaddr xxx” are available as optional parameters.

The meaning of the parameters:

-/VAddr number	Virtual address of the WINMAG plus station which the driver searches for in the database to load its networks.
- /DB F:\WINMAG plus	Absolute path to the WINMAG plus database in case the driver is started on another computer.

Starting the IGIS-Loop server

The IGIS-Loop server can be started both manually and automatically.
If the driver is required to start automatically, the link described above must be copied into the file “Autostart”.

Configuration in the WINMAG plus network configuration:

In order for the configuration to be carried out in WINMAG plus, the operator requires the WINMAG plus administration right.

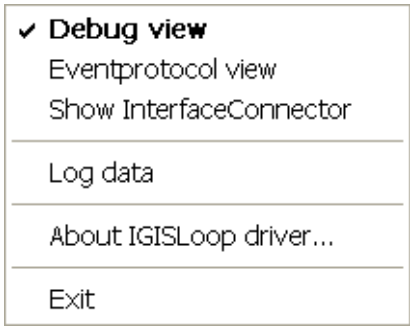
We recommend proceeding as follows if you wish to create a central control unit connected to WINMAG plus via IGIS-Loop:

- Create the network as described in Chapter 4.2.2.3.3, Point 4.6
- How to create an object in described in Chapter 4.2.2.3.4. Select one of the suggested entries
- (e.g. “IDCU MB256”) as a default object. Please observe that the entry in field “IGIS_Adresse” must be the same as the programmed address of the central control unit.
- Refer to Chapter 4.2.2.3.5 Activate / deactivate I/O points for editing the object.

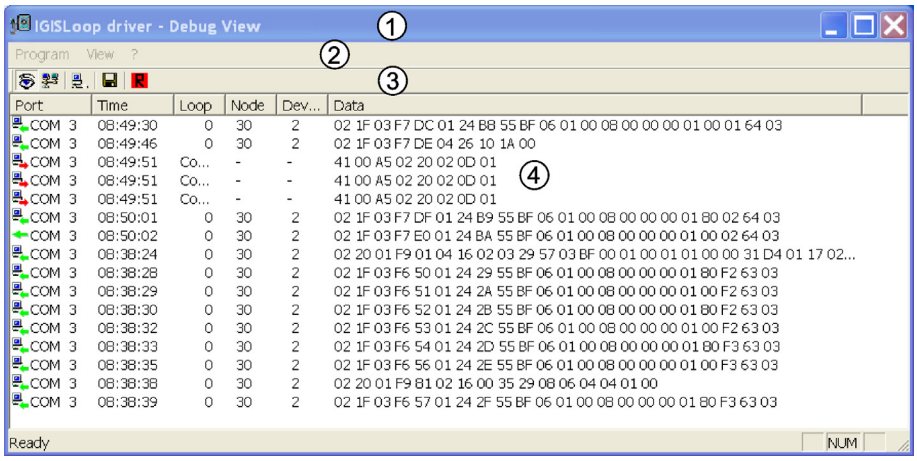
Interface of the driver IGIS-Loop driver

The interface of the driver is not visible after starting the driver. Only a so-called tray-icon  is visible in the task bar.

The window of the driver becomes visible by double clicking this icon or by clicking the menu item “debug view” with the right mouse button.
A context menu appears with the following options when the tray icon is clicked with the right mouse button:



–	Debug view	displays the data traffic
–	Event protocol view	displays the state of the event protocol
–	Log data	starts / ends the writing of the protocol data in the file IGISLoopDrvData.txt” in the subdirectory “driver”. If write is active, a tick is displayed in front of the entry “”Log data”.
–	Show interface connector	displays the information window of the interface connector. The interface connector is required to operate the IGIS loop driver.
–	About IGIS Loop driver	displays information on the IGIS loop driver, e.g. version number, working directory and additional system data.
–	Exit	terminates the driver. After selecting this function, authentication to terminate the driver is requested (required rights: Exit WINMAG plus or Administrator).



This window includes
1 Program header
2 Menu bar
3 Button bar
4 Data window

1 Program header

Line contents:

– Driver icon	16*16 pixel
– Program name	IGISLOOPDriver
– Minimize button (corner symbol)	Minimizes window (shrinks window into the taskbar)
– Maximize button (corner symbol)	Maximizes window (fills the screen)
– Exit program (corner symbol)	Closes window 

2 Menu bar

The menu bar includes the items “Program”, “View” and “?”.
Via the program menu, you can start and/or terminate the saving of received data in a file.
Via the view menu, you can switch between the debug view and the event protocol view.
With the aid of the menu “?”, you receive access to the command “About IGISLoop driver”. This command opens the information dialogue of the driver which contains information on the software version and PC data (physical and free working storage, free disk space and the path from which the driver is started).

3 Button bar

The button bar contains the following buttons:


Display of transmitted and received data


Display of event protocol


Calls the interface connector display


Store displayed data in a file


Button for restart / reset networks (only possible with administrator authentication)
Reset = triggers a reset of the IGIS loop interface
Restart = requests the network statuses of the connected rings.

4. Data window

Transmitted and received data are displayed in the data window. Items received last are identified by a green or red arrow. The number of lines available depends on the window size. If the last line is full, items are automatically placed at the beginning again.

4.2.2.4.1.1 The interface connector

1. Start
The interface connector can be started both manually and automatically. Double click *InterfaceConnector.exe* to start manually. An automatic start is triggered by another program, if this program uses the InterfaceConnector and the InterfaceConnector has not been started.

2. Register
Before the InterfaceConnector can be used, it must be registered. During WINMAG plus installation, the InterfaceConnector is copied into the following directory and registered:
[Windows-Partition]:\Programme\Gemeinsame Dateien\esser-Honeywell shared\Interface Connector\

The following files are required for the InterfaceConnector:

- z.InterfaceConnector.exe
- z-InterfaceConnector.tlb

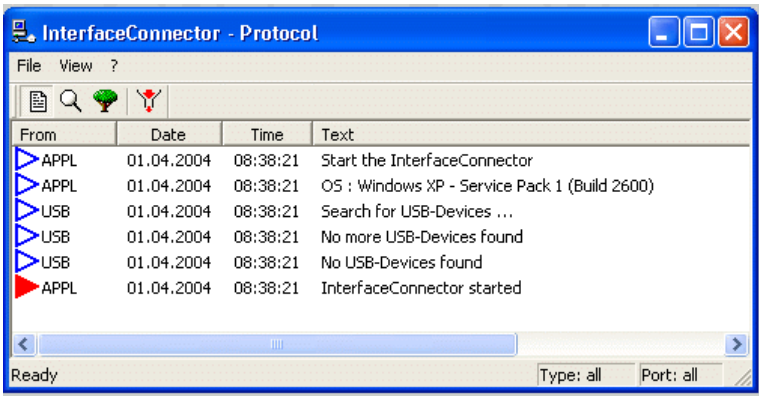
The InterfaceConnector is registered with the following parameters:

- z.InterfaceConnector-regserver

To be able to register the InterfaceConnector, the MFC-DLLs must be installed and the ATL.DLL registered. This takes place during the WINMAG plus installation.

3. User interface of the InterfaceConnector

If the InterfaceConnector is started manually, the user interface appears. A so-called tray icon  appears in the taskbar. There is no user interface and no tray icon with an automatic start.



The window includes:

- Program header
- Menu bar
- Button bar
- Data window
- Status bar

3.1 Program header

Line contents:

♦ Driver icon	16*16 pixel
♦ Program name	InterfaceConnector
♦ View name	Protocol, detail or device
♦ Minimize button	minimizes window (shrinks window onto the taskbar)
♦ Maximize button	Maximizes window (window fills the screen)
♦ Exit program	Closes window

3.2 Menu bar

The menu bar includes the items “File”, “View” and “?”. You can start/end the saving of received data in a file via the file menu. The InterfaceConnector can also be ended here. Via the view menu, you can also switch between the protocol view, detail view and device view. Click the “?” menu to invoke access to the “About InterfaceConnector” information. This command opens the information dialogue of the program and contains information on the software version and PC data (physical memory and free working storage, free disk space and the path from which the InterfaceConnector was started).

3.3 Button bar

The button bar contains the following buttons:


Display of protocol view


Display of detail view


Display of device view


Activates or deactivates the filter for the detail view

3.4 Data window

The following information and data are displayed in the data window depending on which view was selected.

3.4.1 Protocol view

Contains the following general information, e.g.:

- Open and close ports
- Whether connection to IGIS loop controller exists
- Error messages
- etc.

Items received last are marked by a red triangle  . The number of lines available depends on the window size. If the last line is full, items are automatically placed at the beginning again.

From	Date	Time	Text
APPL	01.04.2004	08:38:21	Start the InterfaceConnector
APPL	01.04.2004	08:38:21	OS : Windows XP - Service Pack 1 (Build 2600)
USB	01.04.2004	08:38:21	Search for USB-Devices ...
USB	01.04.2004	08:38:21	No more USB-Devices found
USB	01.04.2004	08:38:21	No USB-Devices found
APPL	01.04.2004	08:38:21	InterfaceConnector started

A port is indicated for every entry from which the message is created including the date and time.

3.4.2 Detail view

Transmitted and received data are displayed in this view. The data block transmitted or received last is only marked with a red arrow.

Transmitted data

Received data

Data block transmitted last

Data block received last

The number of lines available depends on the size of the window. If the last line is full, items are automatically placed at the beginning again.

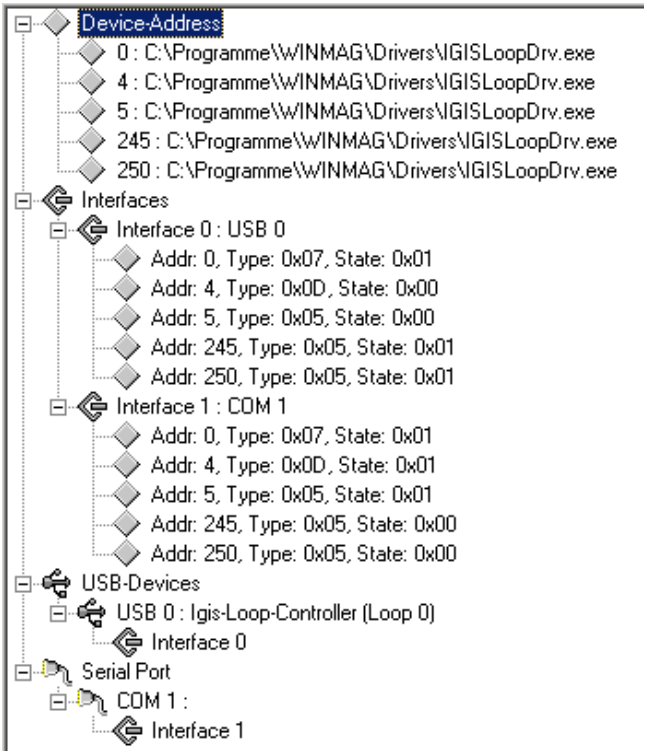
Port	Date	Time	DevAddr	Length	Data
USB 0	26.03.2002	16:12:06	0	23	7E 28 00 00 00 10 4B 01 01 00 00 05 00 0A FA 04 FA 54 C4 03 1F 07 95
USB 0	26.03.2002	16:12:06	245	33	7E 20 00 00 00 1A 4B 00 0A F5 02 00 00 06 00 02 5C 47 82 90 5C 48 82 90 5...
USB 0	26.03.2002	16:12:06	245	19	7E 28 00 00 00 0C 4B 00 0A F5 02 00 00 03 00 04 00 06 82
USB 0	26.03.2002	16:12:06	0	32	7E 28 00 00 00 19 4B 01 03 00 00 05 00 0A FA 06 00 00 00 00 00 00 00 00 26..
USB 0	26.03.2002	16:12:06	245	19	7E 20 00 00 00 0C 4B 00 0A F5 02 00 00 04 00 04 00 06 82
USB 0	26.03.2002	16:12:06	245	19	7E 20 00 00 00 0C 4B 00 0A F5 02 00 00 05 00 04 00 06 82
USB 0	26.03.2002	16:12:06	250	19	7E 20 00 00 00 0C 4B 00 0A FA 02 00 01 02 00 04 00 06 82
USB 0	26.03.2002	16:12:06	250	33	7E 28 00 00 00 1A 4B 00 0A FA 02 00 01 04 00 02 54 C4 80 90 54 C5 80 90 A...
USB 0	26.03.2002	16:12:06	0	28	7E 28 00 00 00 15 4B 00 06 00 00 05 00 0A F5 04 F5 5C 4F 03 03 03 03 03 03..
USB 0	26.03.2002	16:12:06	250	22	7E 20 00 00 00 0F 4B 00 0A FA 02 00 01 05 00 02 4B 7F 80 90 A0 C5
USB 0	26.03.2002	16:12:06	250	33	7E 28 00 00 00 1A 4B 00 0A FA 02 00 01 01 00 02 54 C4 80 90 54 C5 80 90 A...
USB 0	26.03.2002	16:12:05	245	152	7E 20 00 00 00 91 4B 00 0A F5 02 00 00 01 00 02 0B AA 80 90 A0 B0 C0 D0 E...
USB 0	26.03.2002	16:12:05	250	57	7E 28 00 00 00 32 4B 00 0A FA 02 00 01 04 00 02 54 88 80 90 54 89 80 90 54..
USB 0	26.03.2002	16:12:05	0	32	7E 28 00 00 00 19 4B 00 04 00 00 05 00 0A F5 06 00 00 00 00 00 00 00 00 26 ..
USB 0	26.03.2002	16:12:05	250	26	7E 28 00 00 00 13 4B 00 0A FA 02 00 01 05 00 02 3E E6 80 90 A0 B0 C0 D0 E...
USB 0	26.03.2002	16:12:05	0	32	7E 28 00 00 00 19 4B 00 05 00 00 05 00 0A F5 06 00 00 00 00 00 00 00 00 26 ..
COM 1	26.03.2002	16:12:05	5	102	7E 28 00 00 00 5F 49 02 41 05 02 50 09 54 05 05 11 09 02 01 02 00 2D 82 90 ..
USB 0	26.03.2002	16:12:05	0	23	7E 28 00 00 00 10 4B 01 04 00 00 05 00 0A FA 04 FA 54 C4 03 1F 07 98
USB 0	26.03.2002	16:12:05	250	25	7E 28 00 00 00 12 4B 00 0A FA 02 00 01 01 00 02 54 88 82 90 54 89 82 90 E0
USB 0	26.03.2002	16:12:05	0	24	7E 20 00 00 00 11 4B 00 06 00 00 05 00 0A F5 04 F5 5C 47 03 03 03 03 FD
USB 0	26.03.2002	16:12:05	0	122	7E 28 00 00 00 73 4B 00 01 00 00 05 00 0A F5 04 F5 2E 81 7F 7F 7F 7F 7F 7F ..
USB 0	26.03.2002	16:12:05	0	21	7E 28 00 00 00 0E 4B 01 05 00 00 05 00 0A FA 04 FA 4B 7F 07 29
USB 0	26.03.2002	16:12:06	250	33	7E 28 00 00 00 1A 4B 00 0A FA 02 00 01 03 00 02 54 C4 80 90 54 C5 80 90 A...
USB 0	26.03.2002	16:12:06	245	19	7E 28 00 00 00 0C 4B 00 0A F5 02 00 00 02 00 04 00 06 80

A port is indicated for every item from which the message is created including the date and time. The receiving device address and the length of the data block is also displayed.

3.4.3 Device view

This view contains the following information:

- All used device addresses with their corresponding applications
- All interfaces with their corresponding ports and device addresses as well as the types and statuses of the device addresses
- All existing USB devices and their corresponding interfaces
- All used serial interfaces and their corresponding interfaces



The following buttons are also available:

- Update: Updates all items in this list and opens the entire tree, is also executed when the device view is selected
- Collaps: Closes the entire tree
- Expand 1. Level: Opens the tree up to the first level
- Expand all: Opens the entire tree

3.5 Status bar

Help texts are displayed in the left half of the status bar when the cursor is moved over a menu or button. The actual state of the filter at which type and port the filter is set, is displayed in the right half of the status bar. Additional information on the filter can be found in the chapter Filter.

3.6 Filter

A filter can be set to display and/or record specific data only. The filter is set in the device view.

If only serial data requires displaying, double click “serial port” with the mouse. “Serial” then appears in the status bar under type field and “all” in the port field. To activate the filter, press the filter button. If the filter requires deactivating again, press the filter button again. The filter setting remains the same.

3.7 Tray icon

If tray icon is displayed, an additional menu can be opened by using the right mouse button. This menu contains the same items as described in the menu of the main window and in the chapter menu bar.

4.2.2.4.2 IGIS V24-PC interface

As most new computer motherboards are not equipped with an ISA slot, connection of the IGIS network can also be executed via the IGIS V24 interface. Presently, a maximum of 20 messages per second can be received.
To connect the IGIS V24 driver, you must execute the following:
1. Set the baud rate to 9600
2. Set parity to “even”

Please also refer to the IGIS V24 interface connection instructions.

Please also refer to the WINMAG plus database for all other configuration data.

Driver configuration

During the installation of WINMAG plus, the driver for the IGIS V24 interface is automatically installed in the WINMAG plus subdirectory “Drivers”. Furthermore, the item IGIS-V24 interface (IGIS-LAN) is automatically available in the start menu under Programs/WINMAG plus/Server. You must adapt this shortcut to your own requirements.

Following is default (e.g. after installation in Programs\WINMAG plus):

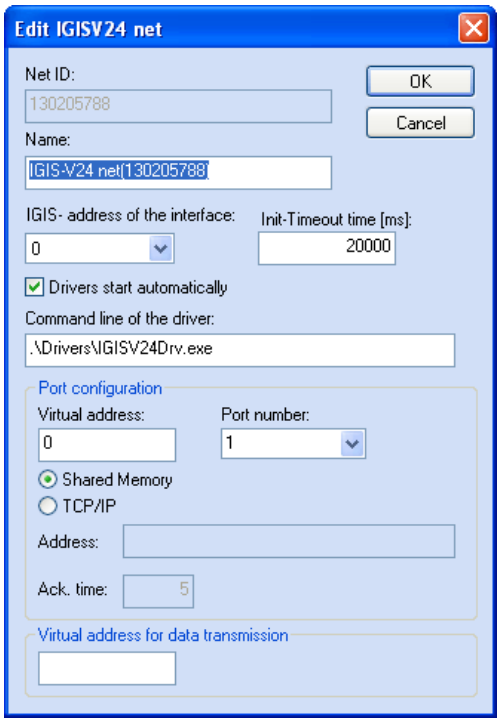
“C:\Programs\WINMAG plus\Drivers\IGISV24Drv.exe/NetID 33160989”

Instead of the parameter “/NetID” you can enter the parameter “/Netname”. “/DB” is available as optional parameter in case the driver is to be used at a computer other than the WINMAG plus computer.

The following is applicable:

-C:\Programs\WINMAG plus\Drivers\IGISV24Drv. exe	Absolute path of the driver. The path is created as per installation location.
-/NetID 33160989	WINMAG plus database ID of the network
-/Netname IGISV24 network	Unique name of the network
-/DB F:\WINMAG plus	absolute path to the WINMAG plus database
-/Poll 10	Changes the poll timeout of 3 seconds to 10 seconds. Possible: 1 to 255

With network configuration in WINMAG plus (see Chapter 4.3), you must set the COM port in the “Connection parameters” field. Input must be as follows:



COM(1)	means that connection of the IGIS V24 interface is at the 1st serial interface.

4.2.2.4.3 Video matrix switchers

When connecting a video matrix switcher to the PC, please observe the information contained in the respective matrix switcher user manual.
Please refer to the crossbar-specific I/O point list for crossbar-supported commands, number of cameras etc.
You must configure the interface in the matrix switcher software.
The WINMAG plus program option “Video” must be active.

4.2.2.4.3.1 Honeywell Maxpro 1000 (VSERVER.EXE)

The matrix switchers of the Honeywell-Maxpro series are driven via the VSERVER.EXE driver.
The configuration data for the driver are to be found in the “vserver.mdb” database.
The driver starts when the program VSERVER.EXE is called in the WINMAG plus subdirectory “drivers”. Click the sub-menu “Server” in the WINMAG plus program group to invoke the “VideoServer” link.

Configuration
To configure the VSERVER you must enter data in the “VSERVER.MDB” database. The tables “Client” and “Server” are included in this database.
The Video server “Vserver.exe” must be started separately after the parameters have been set.

Set the following in the “Server” table:

EP address	Password	COM port
200	12345678	1

EP address — Own virtual address of the Vserver (corresponds to server in the “Client” table)

Password — Server password

Comport — Serial port to which the video matrix switcher is connected

Set the following in the “Client” table

EP address	Driver	Server	IP valid	IP address	IP respond time	PC name	
130	1	200	no	0	10	XX	

EP address — The event protocol destination address of WINMAG plus (=first MVA in WINMAG plus)

Server — own virtual address of the Vserver

Driver type — 1 = distributed memory 0 = TCP /IP

IP valid — whether IP address (yes) or PC name (no) is used

IP address — IP address of the destination PC (= WINMAG plus-PC). The address is used if IP valid is set to YES

IP response time — Time within which response must be received from WINMAG plus

You can start the Vserver using the “-debug- parameter. In this way you can output a “view” window.

4.2.2.4.3.2 Ernitec 500M / 1000M

The matrix switchers of the Ernitec 500M / 1000M series are driven via the ConnectionServer linked with the ERNITEC.EXE driver. The configuration files are defined in the parameter file para.ini and via the call parameters of the ConnectionServer. Start of the driver is effected via call of a link of the ConnectionServer program with required parameters.
Click the sub-menu “Server” in WINMAG plus to invoke the “Ernitec Video-Server” link.

To connect the video matrix switcher “Ernitec” to WINMAG plus”, the following conditions must be available:

1. The matrix switcher must have been configured as per the Ernitec user manual.

Baud rate	19200
No. of data bits	8
Parity	None
No. of stop bits	1

2. Adaption of the “Ernitec Video-Server” link created during installation.
The following data is available in the “Link properties” dialogue box.
Path depends on installation location.

when using **shared memory**:
C:\program\WINMAG plus\drivers\ConnectionServer.exe -MVA200 -DVA 130 -MPMax 2512 -exe C:\program\WINMAG plus\drivers\Ernitec.exe /par c:\programme\WINMAG plus\drivers\para.ini

when using **TCP/IP**:
C:\programme\WINMAG plus\drivers\ConnectionServer.exe -MVA200 -DVA 130 [-IPname “Rechnername”/IPAdr 0.0.0.0] -MPMax2512 –exe c:\programme\WINMAG plus\drivers\Ernitec.exe /par c:\programme\WINMAG plus\drivers\para.ini

The parameters for the ConnectionServer.exe are as follows:

MVA	own event protocol - address
DVA	event protocol - WINMAG plus address
MPMAX	maximum possible number of I/O devices of the connected device
EXE	Path to the application to be started
PAR	Parameter for the application to be started, for the Ernitec.exe this is an absolute path to the corresponding Ini file
DEBUG	starts the ConnectionServer with user interface.

3. Open the the “para.ini” file
highest I/O device number used is 2512. This value should not be changed.
Default 2512

ComPort=1 Number of the serial port used

No. of monitors Number of the cyclic polling of monitor states from 1 to “value”. There may be no “gaps” in the number set. “Monitor state” includes the number of connected cameras. Thus, you can indirectly ascertain which camera shots are being displayed
If no value is set under “No.Monitors”, the matrix switcher is not polled cyclic
Default 6

Poll cycle (ms) = 1000
Time from one polling procedure to the next polling of the matrix switcher
Possible: 500 ms to 10000 ms
If an invalid value is entered or no value is entered, the driver uses 1000 ms.
Default 1000

4. In WINMAG plus you must allocate the MVA-address listed in the para.ini file to the event protocol of the video connection. (default value = 200)

5. In the network configuration, you must allocate a client with the video virtual address (200 in example) to the WINMAG plus station.

6. Run the ConnectionServer using the parameters specified under 2 (the ConnectionServer) then automatically stars the Ernitec-Video driver

7. The WINMAG.exe program and the video matrix switcher must be running.

8. The video option must be included in the WINMAG plus licence data.

4.2.2.4.3.3 Matrix switchers of the Philips LTC 8x00 series

When connecting a Philips matrix switcher to WINMAG plus, please observe the Chapter “Installation of a Windows compatible interface” included in the Philips user manual.

Matrix switchers of the Philips LTC 8x00 series are driven via the Philips.EXE driver. Configuration data must be defined in the parameter file philips.ini.
The driver starts when the program Philips.EXE is invoked in the WINMAG plus subdirectory “drivers”.

To connect the “Philips” video matrix switcher to WINMAG plus, the following conditions must be fulfilled:

1. As specified in the Philips user manual, the matrix switcher must be configured as “default”.
   Define the following in the Console Port Communication dialogue box.

Baudrate:	19200
No. of data bits	8
Parity:	None
No. of stop bits	1
Handshake	ON

2. The connection cable between the console port at the video matrix switcher CPU and the serial port defined in the Philips.ini file must be connected to the PC.

3. The configuration file philips.ini must be configured as follows:

   [General]
   Password = 12345678 The password valid for this connection

   ComPort = 1 Number of the COM port to which the video matrix switcher is connected

   Text display 1 = text display at monitor active
   0 = text display deactive

   MVA = 200 the own event protocol - address
   DVA = 130 the event protocol - WINMAG plus address

   DistributedMemorydriver = true TRUE = use distributed memory driver
   FALSE = use TCP/IP driver

   Timeout = 5 max. wait time for WINMAG plus response to be received

   IP valid = true TRUE= with TCP/IP driver, the specified address is used
   FALSE = The host name specified in “PC name” is used

   IP address = 127.0.0.1 the IP address of the WINMAG plus PC. If TCP/IP driver is used and “IP valid” is set to TRUE

   PC name = host name of the WINMAG plus PC. If TCP/IP driver is used and “IP valid” is set to FALSE

4. In WINMAG plus the MVA address (default 200) specified in the philips.ini file is allocated to the event protocol net for the video connection.

5. A client with the video virtual address (200 in example) must be allocated to the WINMAG plus station (130) in the event protocol

6. The WINMAG.exe and philips.exe programs and the matrix switcher must be running.

7. The video option must be included in the WINMAG plus licence data.

4.2.2.4.3.4 Geutebrück Vicrosoft

For connection of the Geutebrück VicroSoft to WINMAG plus, please refer to the Chapter “Communication with supplementary devices and external systems” in the VicroControl user manual.

Drive is executed via the VicrosoftDrv.exe driver. All configuration data are read from the WINMAG plus database when the driver is started.

Driver configuration

During the installation of WINMAG plus, the driver for the VicroSoft is automatically installed in the WINMAG plus subdirectory “Drivers”.

Furthermore, the item “Vicrosoft Video-Server” is automatically available in the start menu under Programs/WINMAG plus/Server. You must adapt this shortcut to your own requirements.

Following is default (e.g. after installation in “Programs\WINMAG plus”):

“C:\Programs\WINMAG plus\Drivers\VicrosoftDrv.exe/NetID 12226075”

You can enter the parameter “/Netname” instead of the parameter “/NetID”.

“/DB” is available as optional parameter in case the driver is to be used at a computer other than the WINMAG plus computer.

Input for calling drivers

-C:\Programs\WINMAG plus\Drivers\VicrosoftDrv.exe Absolute path of the driver.
The path is created as per installation location.

-/NetID 12226075 WINMAG plus database ID of the Vicrosoft network

-/Netname Vicrosoft network Unique name of the Vicrosoft network

-/DB F:\WINMAG plus Absolute path to the WINMAG plus database

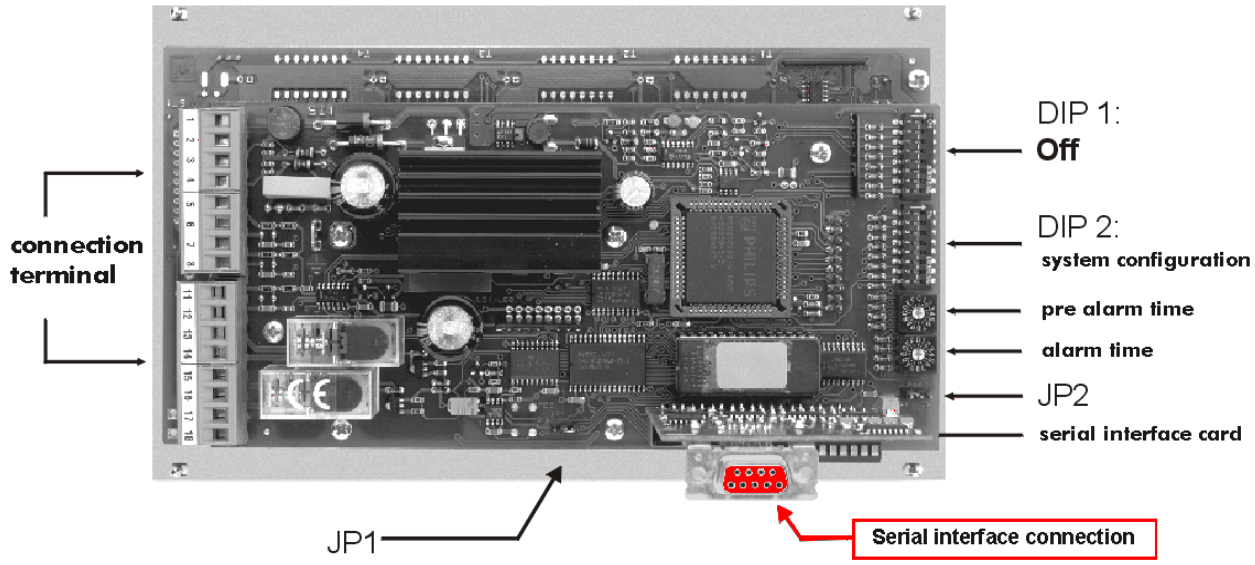
With network configuration in WINMAG plus (see Chapter 4.3), you must set the COM port in the “Connection parameters” field. Input must be as follows:

COM (1) means that connection of the VicroControl is at the 1st serial interface.

4.2.2.4.4 Honeywell rescue route systems

Connection of the Honeywell bus rescue route system is effected via the Honeywell event protocol.

Physically, a serial PC interface is connected with the serial interface card of the bus controller 925.



Configuration of the interface parameters must be effected in the FTSERVER.mdb database.

The following values are default settings staus on delivery:
EP address of the FT server 600
Serial COM port 1

Client

EP address	Server	Driver type	IP valid	IP address	IP response time	PC name
130	600	1	no	0	10	XX

EP address The event protocol destination address of WINMAG plus (=first MVA in WINMAG plus)
Server Own virtual address of the Vserver
Driver type 1- distributed memory 0 = TCP/IP
IP valid YES = IP address NO = PC name
IP address IP address of the destination PC (=WINMAG plus PC)
The address is used if IP Valid is set to YES
IP response time Time within which response must be received from WINMAG plus
PC name Host name of the WINMAG plus PC (is used if IP Valid set to No).

Server

EP address	Password	COM port
600	0	1

EP address Own virtual address of the Vserver (corresponds to Server in the “Client” table)
Password The password valid for the server
COM port Serial port to which the matrix switcher is connected.

4.2.2.4.5 Connection of ESSER control panels

4.2.2.4.5.1 Connection to the EsserNet

The Essernet driver supports the connection of the fire detection control unit series 8000 and the intrusion detection control unit 5008 Essernet to WINMAG plus.

The following conditions must be fulfilled for connection:

- The Esser 8008 fire detection system must be equipped with the software version V02.39 or higher (please contact Novar GmbH in Neuss for detailed information on software version of the system).
- The Esser 5008 intrusion detection control unit must be equipped with a software version V01.34.
- Communication between the Esser central control units and WINMAG plus is effected via the serial Essernet interface with micromodule. Please refer to Esser documentation “Networked systems” and the description “essernet micromodule” for the settings of the essernet micromodule and the essernet parameters. For further details, please refer to the documentation “Serial Essernet Interface, no. 784855-59”.

Configuration of the driver

When installing WINMAG plus, the driver for the FDC 8000 is automatically installed in the WINMAG plus main directory “drivers”.

The “EsserNet” option automatically appears in the start menu under Programs/ WINMAG plus/Server. This link must be adapted accordingly.

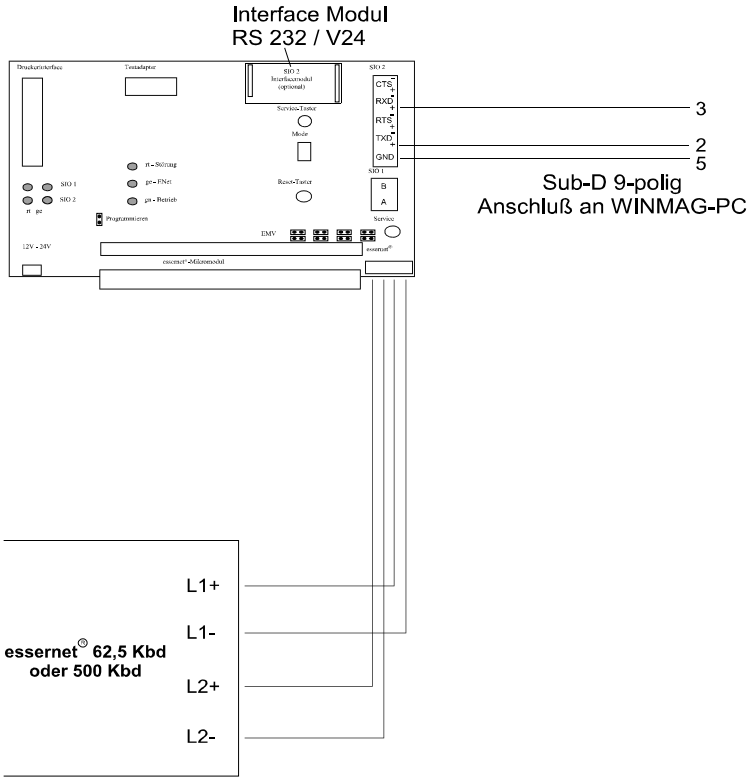
“C:\Programs\WINMAG plus\EsserNetDriver.exe/NetID 12226075" is default (i.e. after installation in “Programs\WINMAG plus). Instead of the parameter “Net/ID” you can enter the parameter “/Netname”

“/DB” can be entered as optional parameter if the driver is to be used on a PC other than the WINMAG plus PC.

Path explanation:

-C:\Programs\WINMAG plus\EsserNetDriver.exe	Absolute path of the driver. Path is created during installation
-/NetID 12226075	WINMAG plus database ID of the net
-/Netname EsserNet 1	Unique name of the net
-DB F:\WINMAG plus	Absolute path to the WINMAG plus database.

Connection diagram



Starting the EsserNet driver

The EsserNet driver can be started either manually or automatically.

If automatic start should be executed, please copy the shortcut into the “Autostart” sub-directory (please refer to Chapter 4.5.4.1.1.)

To perform configuration in WINMAG plus, the user must possess WINMAG plus administration rights.

To create a BMS 8000 in WINMAG plus please proceed as follows:

- Create new network as described under Chapter 4.2.2.3.3., Item 4.6
- Create new object as described under Chapter 4.2.2.3.4. You must select the item “BMS 8000" as default object. Please observe the in the field “IGIS address”, the address must correspond to the address of the central unit in the Essernet.
- To proceed further, please refer to Chapter 4.7.7.3.5 Activate/deactivate I/O device

User interface - Essernet Driver

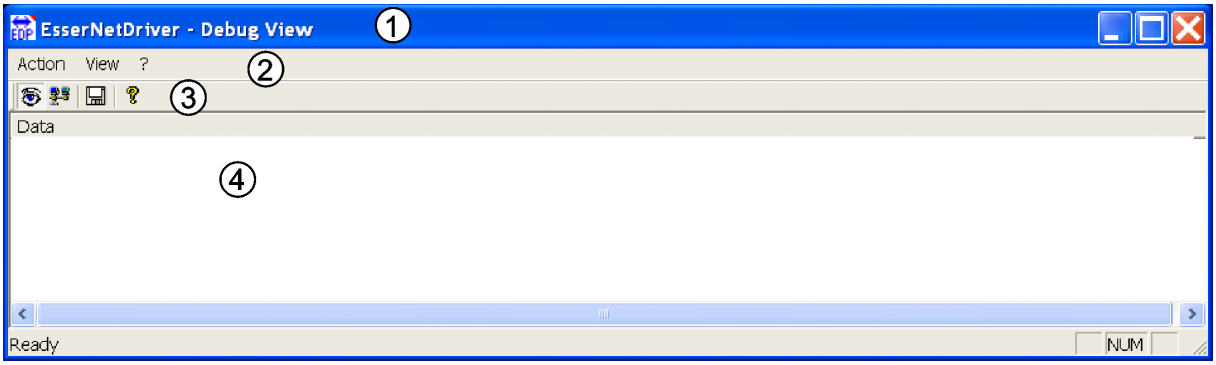
The user interface for the driver is not visible after start of the driver. A so-called “tray” icon 

is visible at the task bar.

Double click this icon using the left mouse button or click once using the right mouse button to invoke the “Show debug information” menu item for opening of the driver window.

The window includes:

1 Program header
2 Menu bar
3 Button bar
4 Data window



1. Program header

Includes:

♦ Driver icon	16*16 pixel
♦ Program name	EsserNetDriver
♦ Minimize button (corner symbol)	minimizes window (shrinks window onto the taskbar)
♦ Maximize button (corner symbol)	maximizes window (window fills the screen)
♦ Exit program (corner symbol)	closes window 

2. The menu bar

The menu bar includes the items “Action”, “View” and “?” You can start/end the saving of received data via the “Action” menu. You can change between the “Debug view” and the “Event protocol view” via the “View” menu. Click the “?” menu to invoke access to the “About EsserNetDriver” information. Information includes the software version, PC data (physical memory and free working storage, free disk space and the path from which the driver is started).

3. Button bar

Button descriptions:

Display of transmitted data

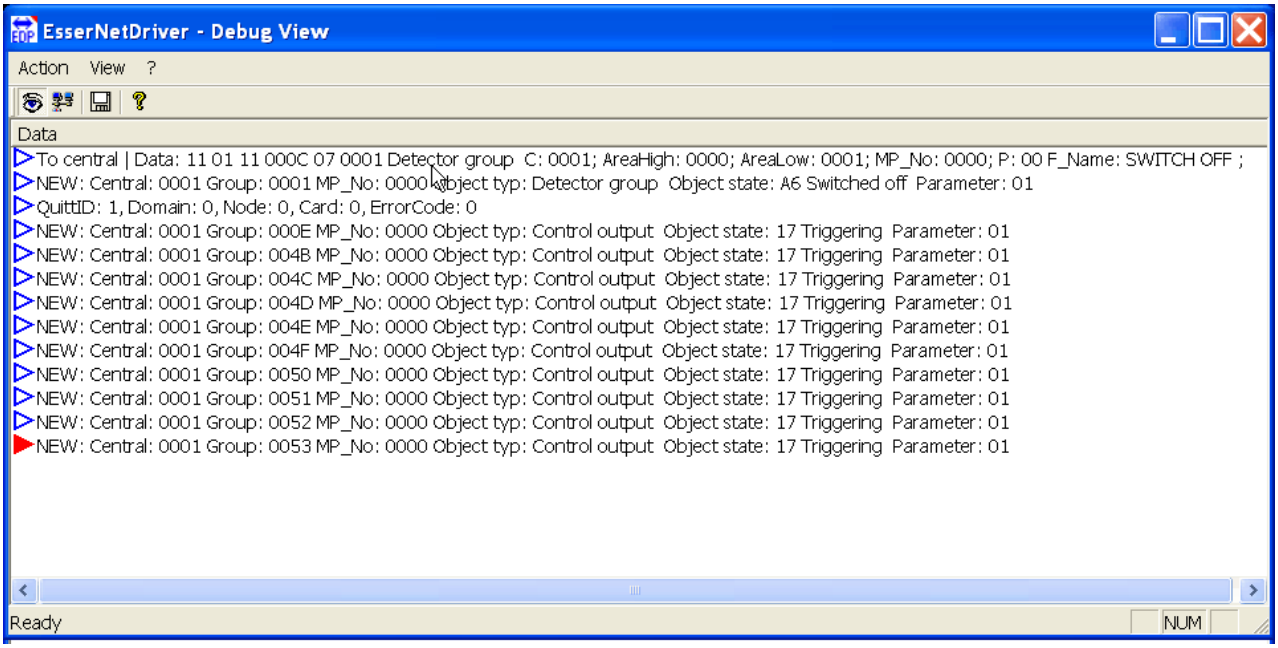
Display of event protocol

Store displayed data in a file

Open “Info” dialogue

4. Data window

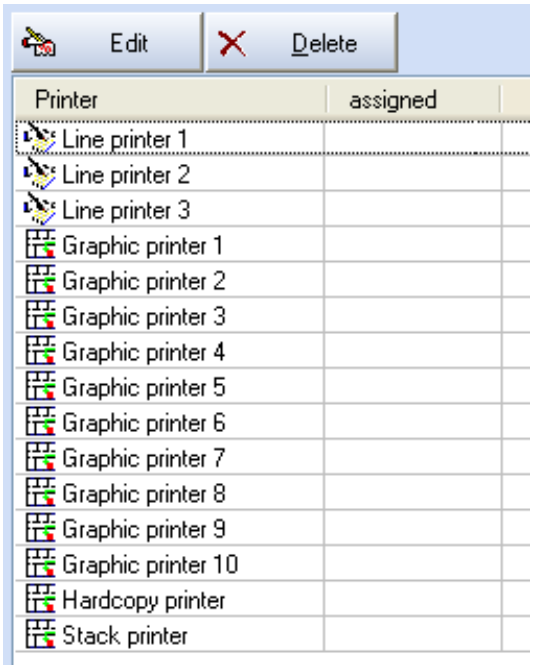
Transmitted and received data are displayed in the data window. The last received items are identified by a red triangle. The number of lines available depends on window size. If the last line is full, items are automatically placed at the beginning again.



4.2.2.5 Setup printers

Before WINMAG plus can use a printer, the printer must be defined in “Setup printers” in “Edit System Configuration”.

Once you have clicked on “Setup printers” the printer selection dialogue box appears in which you can edit printer selection. You must select a printer from the list of printers installed, then you can configure your selection by clicking **“edit”**.



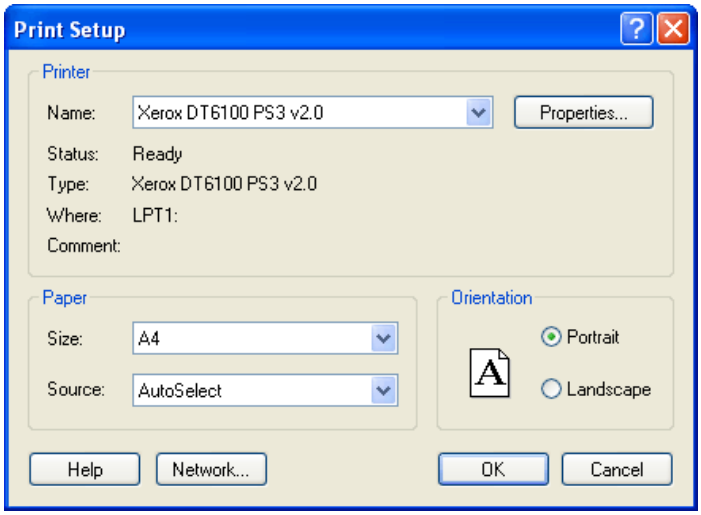
The printer allocated is displayed in the “assigned” column. If no printer is displayed then no printer is allocated.

Click the “delete” button to delete a printer allocation.

You can only configure those printers that have been installed in WINDOWS. The system supports a maximum of 15 printers per computer.
- 3 Line printer
- 10 graphic printer,
- 1Hardcopy/Screenshot printer
- 1 Stack printer

If no printer is selected, the Windows standard printer will be used.

The “Printer configuration” dialogue box appears that permits you select which Windows printer you wish to allocate to the selected WINMAG plus printer.



The printer dialogue box can vary depending upon the printer selected. The dialogue box illustrated is only an example. The definition of the print format is an important function in addition to the selection of the printer name (as per Windows printer setup).

You can select the options “portrait” format and “landscape” format not only for the printing of text but also for the printing of graphics. If you select “portrait” for the graphic will be printed out half-size which will speed up printing.

Printer differences

- A line printer that prints message from out the system log item for item. Thus, we recommend the use of a line printer using continuous form paper.
- The graphics printer is a page printer that prints out an entire page. Even if you have selected “Portrait” an entire drawing is printed out on one page.

4.2.2.6 Edit usergroups

Select “Edit usergroups” in “Edit system configuration”, to edit the names of user groups.

The “Usergroup” dialogue appears displaying a list of usergroup names. Select “usergroup name” to edit the user group name.

Id	Usergroup name
1	standard user
2	blocking
3	reset message
4	reset alarm
5	administrator
6	disarm
7	arm
8	arm external
9	sabotage
10	switch detector
11	reset fire message
12	switch video
13	switch access
14	
15	operator
16	alarm operator
17	disabler
18	labeller
19	graphics editor
20	auto-ack
21	

Any combination of the possible user groups can be allocated to every user. Every function value can be allocated to the usergroup in the “I/O device type” configuration.

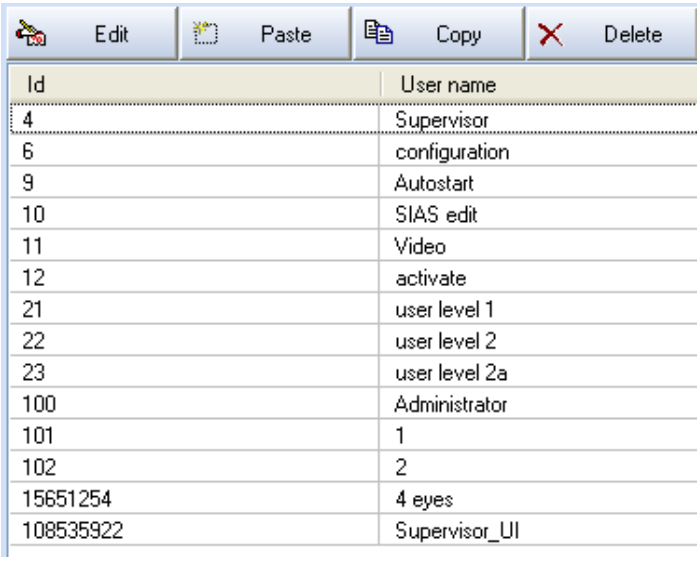
If both the currently logged in user and a particular I/O device function value are in the same usergroup then the control function associated with that function value will be made available to the user.

Example:
The user John Clinton is included in the user group “blocking”. The user Ian Johnson is not included in the user group “blocking”.
Group allocation “blocking” must be available for the control function “internal blocking” of an intrusion detection group. The user John Clinton can see and select the function “internal blocking”.
The user Ian Johnson cannot see the control function.

4.2.2.7 Edit user

Select “Edit system configuration” and then “Edit user” to create, edit or delete users.

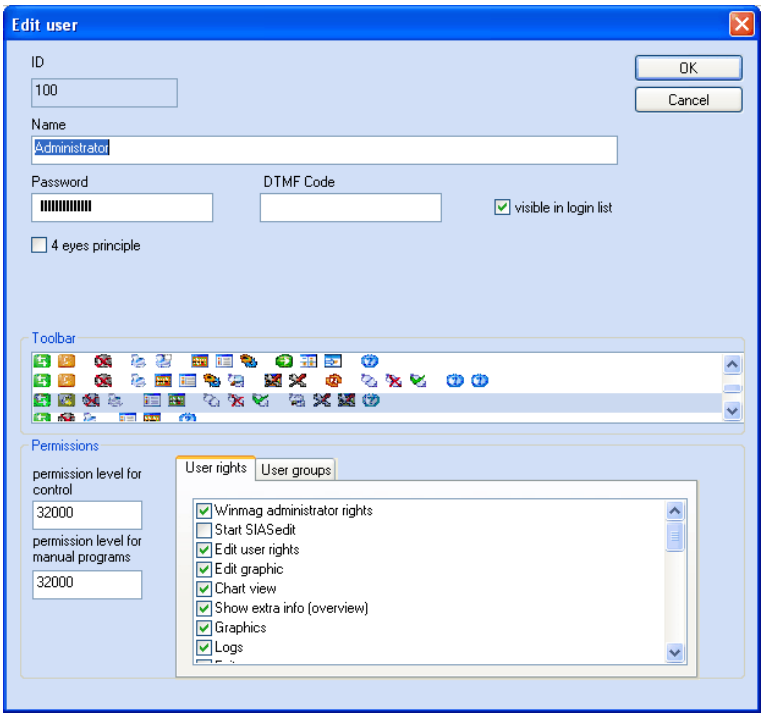
The “Select user” dialogue appears displaying a list of users. To process the data, select the user name and click the required button.



Edit = edit existing user data

Insert = create new user

Delete = delete selected user



If you select “Edit” or with double-click, the “Edit user” dialogue appears. The user dialogue box includes the following sub-boxes and check boxes:

Name Max. 40 digit user name. Names can also include space characters.

Password User password that every user must enter. The password is displayed coded.

DTMF-Code Operator password for DTMF control possibility for notification option.

DTMF-Code Operator password for DTMF control possibility for notification option.

4-eye principle Tick this box to apply the 4-eye-principle. Two drop down menus appear for selecting the two individual users.
The two selected users must enter their password when logging in.

Toolbar Selection of the toolbar allocated to the user. The allocated toolbar is available in the footer line of the "User" dialogue box. You can only select toolbars that have already been defined in the system.

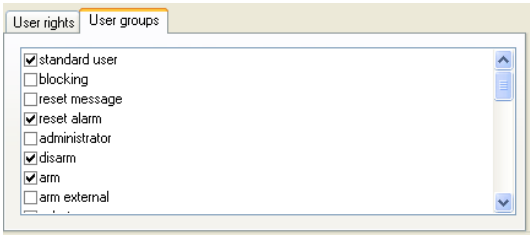
Permission level for control Level of permission at which the user can execute control functions. You can enter a permission level for every I/O device type. The higher the value, the higher the level of control functions available to the user.
In addition to the permission level for control, the user will also have to be allocated to a user group allocated to a particular function value, otherwise it will not be possible to select the function.

Default values	1000	low priority
	2000	middle priority
	3000	high priority
	5000+	administrator rights
minimum	0	
maximum	32000	

Permission level for manual programs Level of permission at which the user can start a program manually. You can enter a permission level for every program to be started manually. The user can only view those items for which he has authorization. The higher the value the higher the level of manual programs available to the user.
maximum 32000

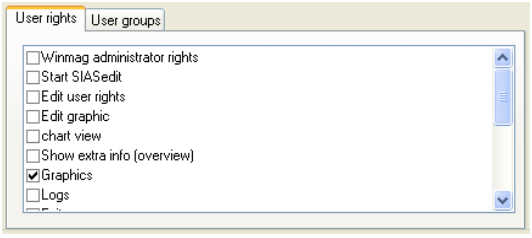
Check boxes are available for the user rights listed below. If a check box is active ( ) , the user is allocated with the respective rights. Deactivate the check box to cancel rights. Please use the scroll bar to view the complete list of rights.

User groups



Users can be included in any user group where a check box is active. The names of user groups are administered via the "edit user group" dialogue box. Allocate user groups to function values using the "Edit detector group type" dialogue box. **Every user is allocated to the "Standard users" user groups by default.**

User rights



Here the user is allocated with various program function rights. If a user is not authorized to execute a function, those options for which no rights are available are not displayed in the system configuration.

WINMAG plus administrator rights The user can open the dialogue box for the configuration of rights for network configuration, printer setup and the defining of options.

Start SIAS edit The user can start the SIAS program editor

Edit user rights The user can open the usergroups dialogue box and the user dialogue box.

Edit graphics	User has access to edit system configuration function symbols and edit graphic references.
Chart view	Rights for displaying the “Chart view”
Show extra info (overview)	Display of I/O device number in “System overview” and “Message dump view”.
Graphics	Rights for the opening of graphic windows
Logs	Rights for the display of program and system logs.
Finish	Exit operation of the control software. If this check box is not active, the user cannot select the Exit window dialogue box and the “Exit” command.
Simulation	Permits selection of simulation in the “List view”. “Simulate” can be performed on any function value of a state and thus virtually any possible input signal can be simulated.
Edit stack	Permits deletion of messages in the alarm stack.
Initialize objects	Manually request object initialization i.e. reload device state and define filter structure. In normal operation, the system automatically performs this function.
Start/stop nets	Manual start and stop of networks. “Stop” interrupts the connection to the network - no data is transmitted. Only administrators should possess the rights for this function.
Logout	Authorizes the user to log off from the system.

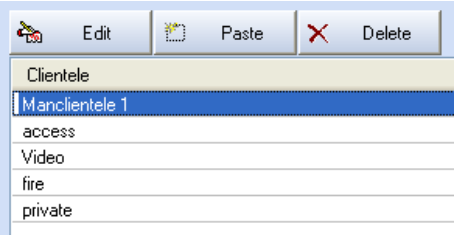
Click **OK** to accept and save settings. Click **CANCEL** to cancel settings.

4.2.2.8 Edit clients

After selecting the system configuration menu line „Edit clients“, clients can be created, edited or cleared.

In case the client management in the network configuration was not activated, the following message appears:

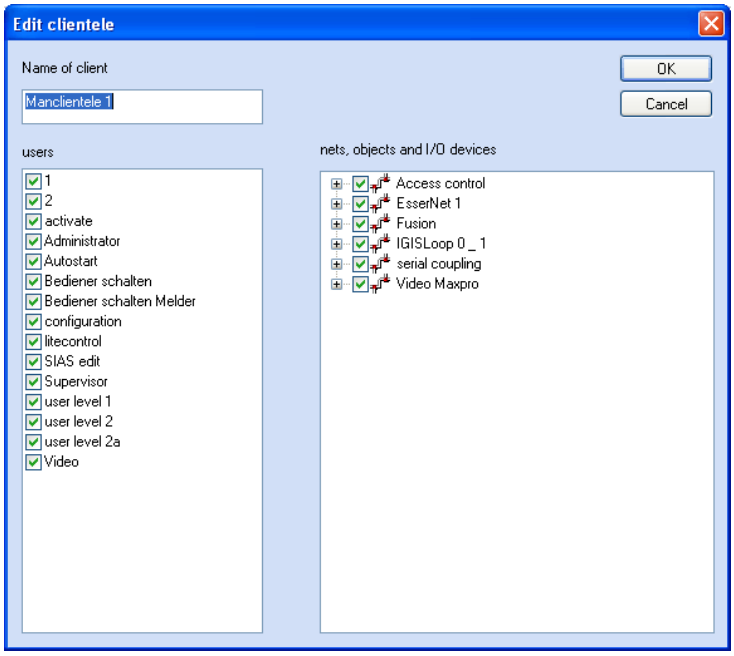
In this case, the client management must be activated (see Chapter “Edit WINMAG plus stations”).



The „Client selection“ dialogue appears with the list of the created clients. To edit client data, select the client name and activate the corresponding button.

Edit	= Alter existing client data
Insert	= Create new clients
Clear	= Clear selected entry

After selecting the button **“Edit”** or when selected client is double clicked, the “Edit client” dialogue appears:



Note:
The dialogues for editing an existing client and for inserting a new client are identical.

The user dialogue contains the following input fields:

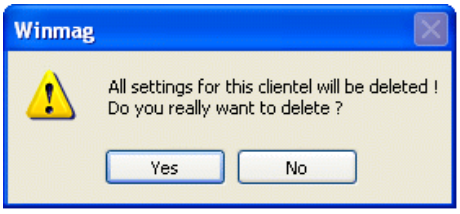
Designation Maximum 40-digit client name. The name can also contain blanks. The designation can be altered or re-determined for a new client.

Allocated user All users are displayed in this selection field. It is used for selecting which user is allocated to the client. If a user is selected, the checkbox is activated.

Allocated networks, objects and I/O points
All networks and the network structure are displayed in this selection field. It is used for selecting which networks, objects and I/O points should be allocated to the client.
If a position is selected, the checkbox is activated.

Delete client

If the button “Delete” is selected, the following message appears:



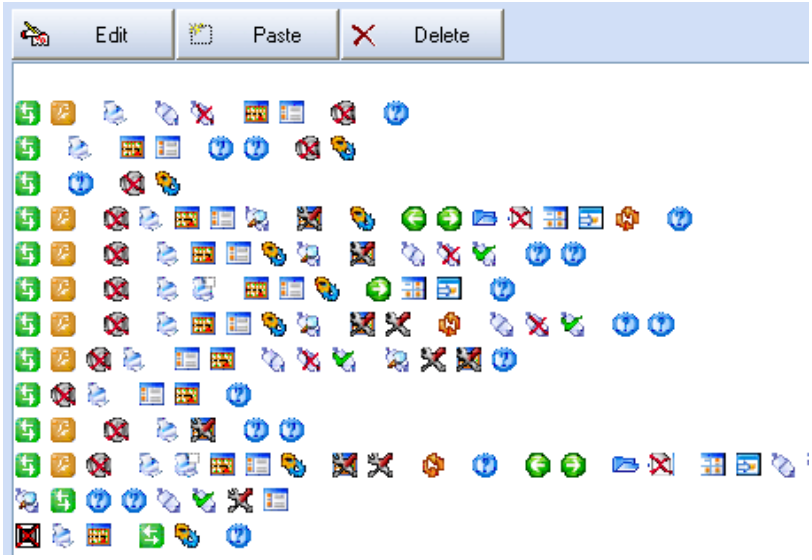
If the button “Yes” is selected, the client plus all allocations cleared.

4.2.2.9 Edit toolbar

Select “Edit toolbar” from the system configuration menu bar to create, edit or delete user toolbars.

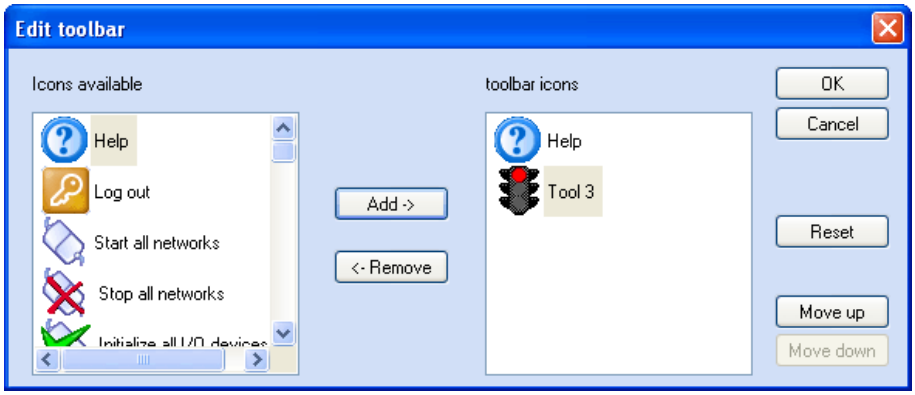
The dialogue box “Edit toolbar” appears.

Note: If the option XP style is not activated, the tool bars of the old user interface appear.



After selecting a toolbar, click the “**Edit**” button or double click the toolbar to invoke the “Edit toolbar” dialogue box. If you click the “**Insert**” button, the “Edit toolbar” dialogue box also appears - all tools are active.

If you click the “**Delete**” button, the selected toolbar is deleted. A toolbar can only be deleted when it is not being used, i.e. not allocated to a user.



Two windows are included in the dialogue box:

- Tools not used are displayed in the left window
- Tools included in the toolbar are displayed in the right window.

Two buttons (ADD and REMOVE) are located between the two windows. Use these buttons to either add (move right) or remove (move left) a tool. You can create a space between the symbols using the “Separator” symbol.

Use the “**move up**” and “move **down**” buttons to move symbols up or down in the sequence.

Click “**Reset**” to reset any changes made.

Click “**OK**” to accept and save the settings and close the dialogue box.

Click “**Cancel**” to cancel settings and to close the dialogue box.

4.2.2.10 Edit symbols

Symbols are the graphical display of I/O devices. The configuration of symbols is closely linked to the associated I/O device types. Each state/function value combination can be allocated to a layer.

During configuration, layers are placed on top of each other in the sequence of state. Therefore, the layers (symbols) used to configure a symbol must “harmonize”, i.e. size and configuration must match.

Layers are placed in the centre of the middle point that has been created in the database. The largest layer determines the size. Transparent symbol areas can be created using the colour white.

Symbols are placed on a backdrop - they are however not a part of the backdrop. This means that the backdrop can be changed. Observe that symbol allocation includes pixel coordinates relative to the size of the backdrop. If the size of the backdrop is changed, the position of the symbol could change.

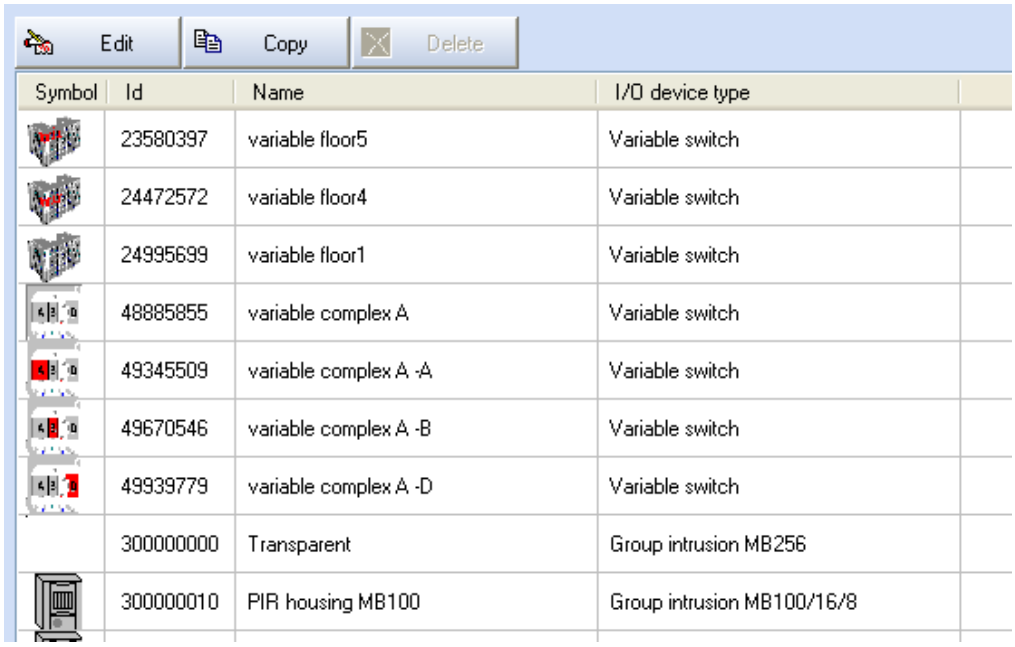
WINMAG plus differentiates between system symbols and user-defined symbols. The ID number of system symbols is greater = 300000000, all user-defined symbols have an ID number below this value.

Only system symbols are factory-defined.

You cannot change or delete system symbols. The button bar is equipped with a “View” button instead of an “Edit” button. The “Delete” button is not active.

Select the “Edit symbols” button from the “System configuration “menu bar to view, create, edit or delete symbols.

The “Select symbol” dialogue box appears that includes all symbols stored in the system. A symbol is displayed with the first available layer. Furthermore, database ID, symbol name and the allocated I/O device type are displayed.



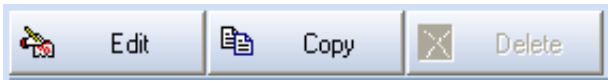
Select an item by clicking one of the parameters displayed. The line selected is marked.

If you wish to edit a selected item, you can select one of the active buttons. To edit or view a symbol, you may also simply double click the item.

Click a column header to sort the list of symbols. Click again to change from ascending sort to descending sort. Marked items remain marked during the sort process.

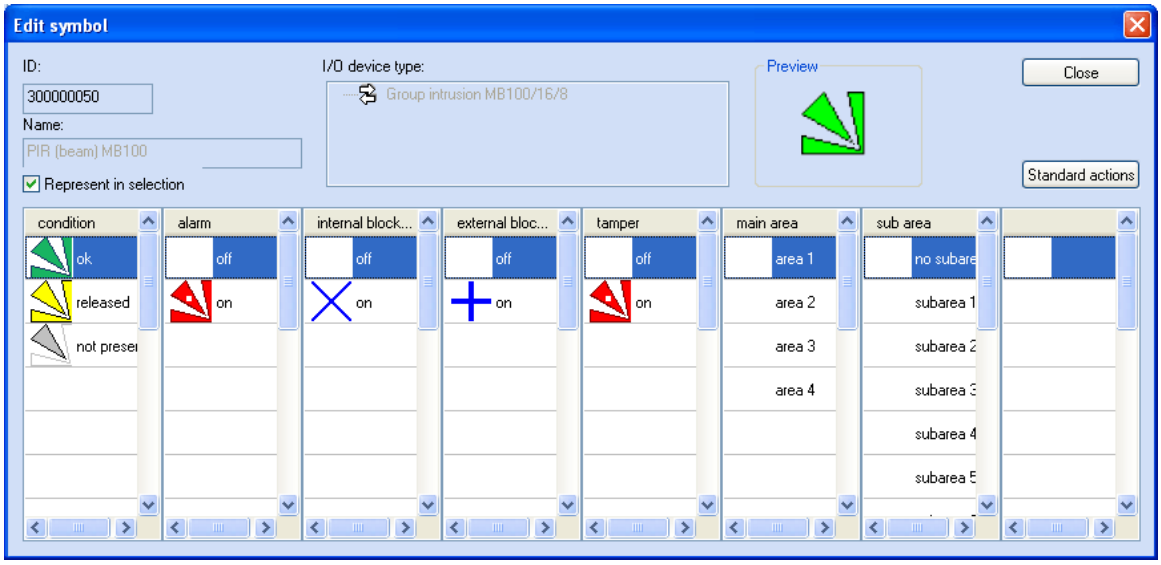
4.2.2.10.1 View system symbols

If you have selected a system symbol from the table of symbols, the “View” button is active.



Either click the “View” button or double click the symbol using the left mouse button to invoke the “read-only” “Edit symbols” dialogue box.

“**Read-only**” means that the dialogue box **only displays** the symbol with ID, names , type of I/O device, preview and a matrix of all state/function value combinations together with the allocated layers. The preview permits the combined display of layers. No input is possible.



The “View” dialogue box is provided with a “Close” button with which you can close the dialogue box. The “Edit symbol” dialogue box does not have this button.

4.2.2.10.2 Copy symbol

By clicking the button “Copy” the selected symbol is copied. This copy gets a new ID below the system area and the name gets the prefix “Copy of”.

The copied symbol is an user-defined symbol, which can be edited or deleted.

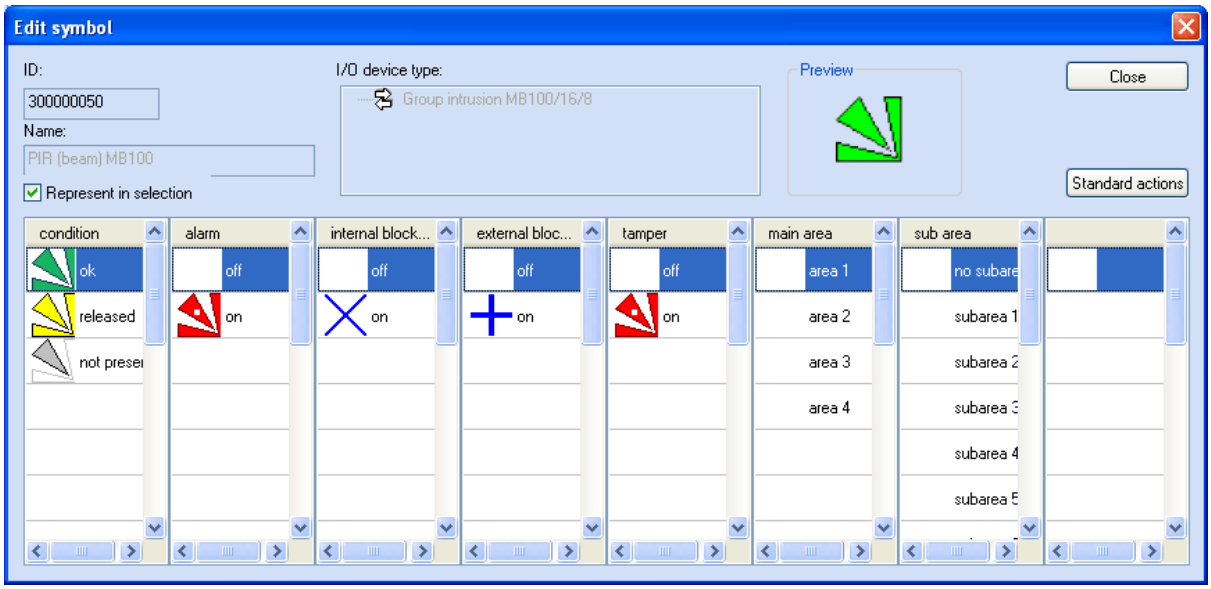
Position at the copied item in the system list.

4.2.2.10.3 Edit user-defined symbol

After you have selected a line including a user-defined symbol, click the “Edit” button or double click to invoke the “Edit symbol” dialogue box for viewing and editing symbols.

You cannot edit system symbols. System symbols can only be edited if they are first copied as user-defined symbol.

Items that can be edited:

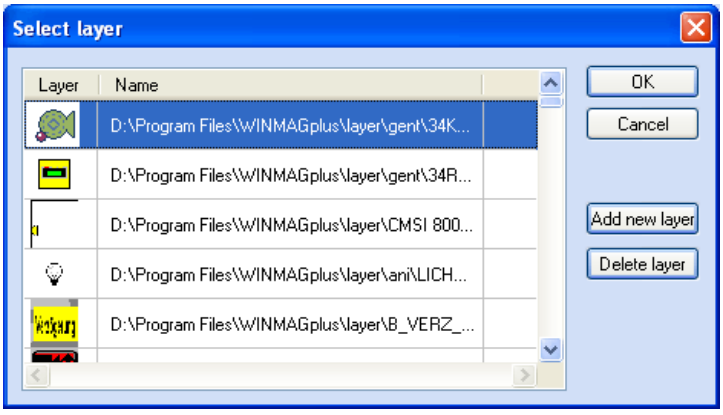


- Name
  The name can include max. 40 characters

- Allocation of I/O device in the field “I/O device type”. All defined I/O device types are available. The list is structured (includes “parent” types, i.e. a parent is a I/O device type from which copies have been created).

- The “Preview” allows combinations of symbol layers to be viewed. To preview a layer you click on the associated function value. Multiple layers can be selected for preview.
  Configuration of a symbol must correspond to the configuration of function values.
  If no condition is active then usually, the top row of layers are displayed.

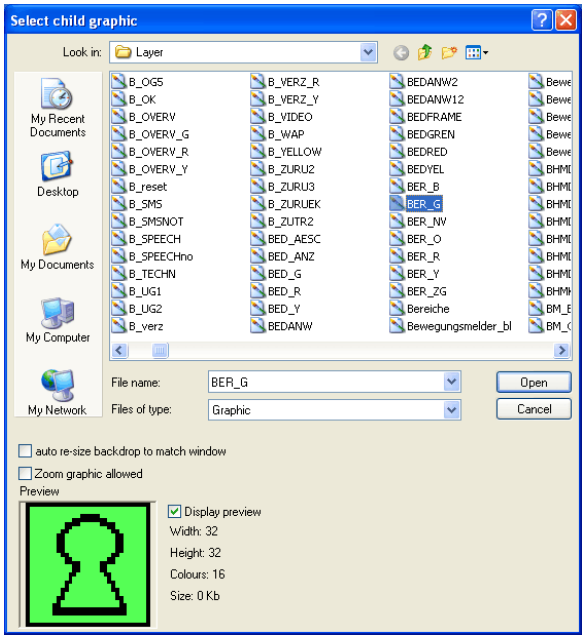
- Edit layer allocation
  Click a marked function value or double click an unmarked function value to invoke the “Select layer” dialogue box.



All layers defined for the selected condition/function value combination are displayed for selection. Click OK to select an item.

Click “**Cancel**” to cancel an item. Click “Delete layer” to delete a layer.

If no suitable layer is included in the list of layers, or the list of layers is empty, click “New layer” to accept a new layer for the condition/function value combination.
You can select any layer (.bmp format) from the “Select new drawing” dialogue box. The dialogue box displays a preview of the layer together with the most important layer parameters such as colour and size.



You can close the “Select new drawing” dialogue box as follows:

- Click “**OK**” to store and close
- Click “**Cancel**” to cancel and close

If you close the dialogue box using the “Close” window corner button, any changes made will not be saved.

4.2.2.10.4 Delete user-defined symbol

Click “**Delete**” to delete the symbol selected.

It is only possible to delete a symbol when it is not being used, i.e. no I/O device allocated to a layer.

You can only delete user-defined symbols.

4.2.2.11 Edit I/O device types

I/O device types contain information of how a I/O device is configured. The following are allocated:

- The name of the state and function values
- A state/function value combination corresponding to each alarm message that can be raised by the type of detector - each of these will have a particular alarm reason associated with it
- A state-function value combination corresponding to each control function that can be sent to an I/O device of this type - each of these will have a set of user groups to which it belongs

A I/O device type must be allocated to every I/O device. Every symbol definition is based on a I/O device type.

I/O devices types can have a hierarchy. If a new I/O device type has been derived from an existing I/O device type by way of copying, the derived type becomes a “child” of the existing I/O device type.

The “parent” and all derived I/O device types together form a I/O device type family.

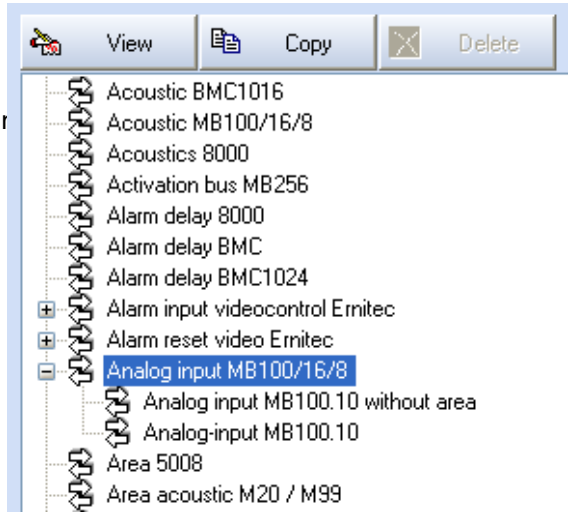
Within a family the “parent” defines the maximum possibilities. The “children” always have a subset of the “parent” information.

As with symbols, WINMAG plus differentiates between system I/O device types and user-defined I/O device types. The ID number of the system types is greater = 300000000, all user types are below this value.
Only system types are factory-defined.

You cannot change or delete system I/O device types. The button bar is equipped with a “View” button instead of an “Edit” button. The “Delete” button is not active.

Select the “Edit I/O device types” button from the “System configuration” menu bar to view, create, edit or delete symbols.

The “Select I/O device type” dialogue box appears that includes a structured list of all I/O device types. Types that include derivations are identified by a “+”. Only one item at a time can be opened.



Select an item by clicking once. The item selected is
To edit an item, select one of the active buttons.

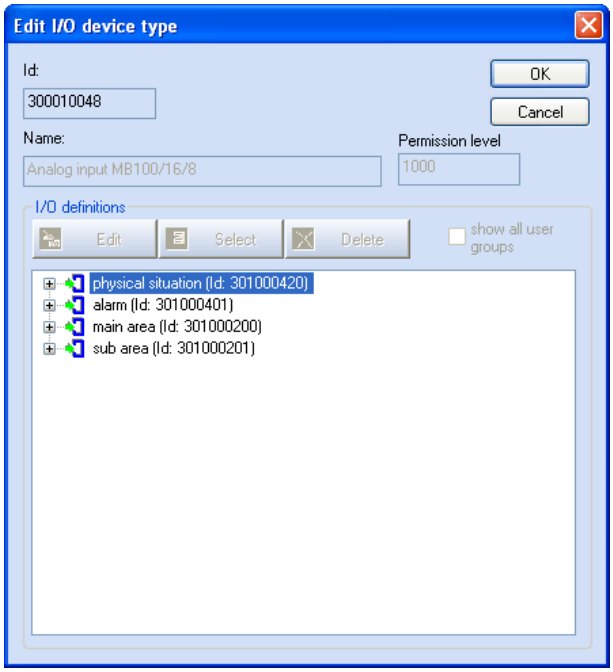
Sorting of I/O device types is effected alphabetically within every hierarchy.

A I/O device type comprises various “definitions” - records with definition statements that each describe an alarm condition including its function values, associated alarm reasons and user group allocation.

4.2.2.11.1 View system I/O device type

If you click the “View” button, a “read-only” “Edit I/O device type” dialogue box is invoked. This dialogue box is “read-only” which means that all input fields are not active.

The dialogue box includes the I/O device type with ID, name, priority and a structured list displaying the defined conditions/controls.



- Inputs (alarm conditions) are identified by a green arrow.
- Outputs (control functions) are identified by a red arrow.
- Click the plus symbol to display condition function values and control function user groups.
- Click the plus symbol in front of a control function to display the user groups of the control function.

It is not possible to add or delete and function values of a system type.

The “View” dialogue box is provided with a “Close” button with which you can close the dialogue box. The “Edit” dialogue box does not have this button.

For more information, please refer to the “Edit” dialogue box.

4.2.2.11.2 Copy I/O device type

Click the “Copy” button to copy a selected I/O device type. The copy includes a new ID below that of system I/O device type ID´s.

The name gets the prefix “copy of”.

Thus the I/O device type is a derived (“child”) type that will be included in the hierarchy structure of the “parent” I/O device. If you copy a “child” I/O device it is entered into the same hierarchy level as the level of the I/O device that you have copied. No other hierarchy level is created.

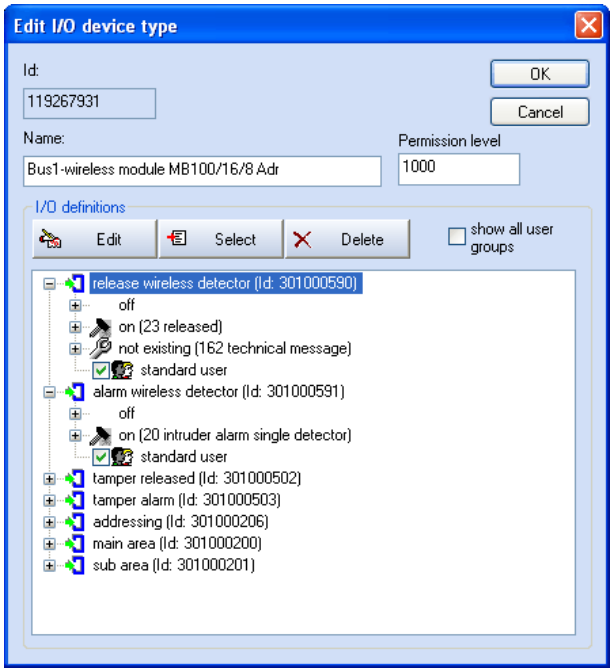
The copies of a system type can be edited or deleted by an authorized user. Position at the copied item in the system list.

4.2.2.11.3 Edit user-defined I/O device types

Click “**Edit**” after selecting a user-defined I/O device type to invoke the “Edit I/O device type” dialogue box for editing and viewing a selected type.

System types cannot be edited and must be first copied as a user-defined type.

+-



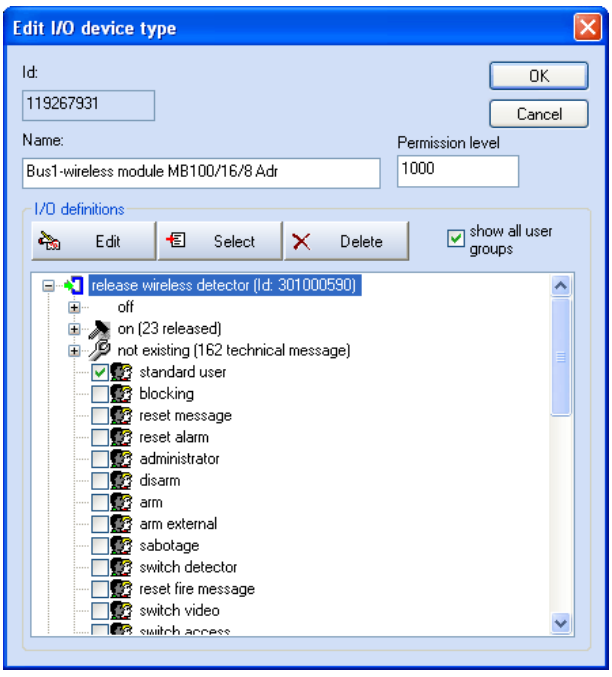
The “definition ID” is added (in brackets) to the condition name.

With function values, associated alarm reasons including ID and name are added.

Only those conditions defined in the “parent-type” can be edited.

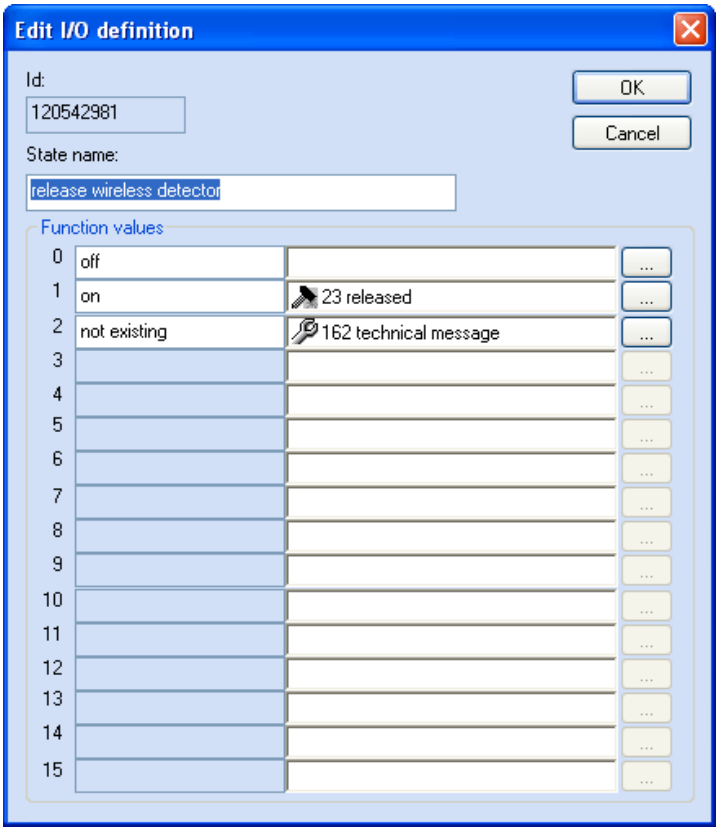
The following items can be edited:

- Type name in the “Name” field. The name can include a maximum of 40 characters
- Permission level in the “Permission level” field
- Permission level refers to the all outputs (control functions) of a type. If the user has at least the permission level defined, he can execute the control functions displayed in the system overview or symbol mouse menu.
- To be able to allocate additional user groups the “show all user groups” check box must be active.



Only users belonging to the same user group as a control function can use that control function. By default all function values are allocated to the user group “Standard users”. The same applies to all users. Thus, by default, all values can be used by all users (assuming that a user has a valid permission level for the type).

♦ Edit definition
After you have selected a state or a function value, you can edit the associated “definition” statement (all definition statements are replaced by a user defined definition statement during the copying of a type) by clicking the “**Edit**” button. Click the “**Edit**” button to invoke the “Edit definition” dialogue box.



The defined function values for all selected state statements are displayed. You can edit these statements. You cannot insert function values where no values have been defined in the “parent”.

Click the  button to edit or insert an alarm reason for the function value.
A list of alarm reasons to choose from is given.

Click “**Cancel**” to cancel input. Click “**OK**” to accept input.

♦ Select definition
The definition statement selected can be replaced by another definition statement by clicking the “Select” button.

♦ Delete definition
You can delete the selected definition statement using the “**Delete**” button. The deleted state is **filtered** (i.e. the state of the I/O device type is not transmitted to WINMAG plus by the detected).

Click “OK” to accept changes and close the dialogue box. Click “Cancel” to cancel changes and close the dialogue box.

If you close the dialogue box by clicking the window corner button, changes are not accepted.

4.2.2.11.4 Delete user-defined I/O device types

Click the “**Delete**” button to delete a selected I/O device type.

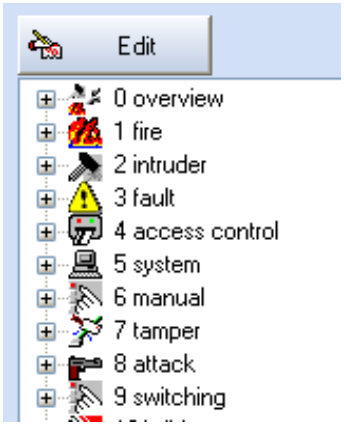
You can only delete a I/O device type when it is not being used, i.e. no I/O device is allocated.

You can only delete user-defined I/O device types.

4.2.2.12 Edit alarm reasons

An alarm reason is an additional attribute that can be associated with each message received. Thus, messages can be classified and evaluated correspondingly. Default triggering conditions check the alarm reason of the messages received.
Alarm reasons can in turn be combined in alarm types. Each alarm type appears as a separate tab in the alarm stack, program log and in the list of manual programs.
Alarm reasons are configured to function values by editing the I/O device types.
Pre-defined alarm reasons and alarm types are used by default but can be re-named. No records can be deleted.

Select “Edit alarm reasons” from the “System configuration” menu bar. This invokes a dialogue box permitting you to view and edit alarm reasons and alarm types.



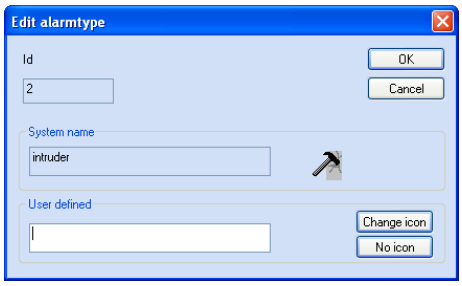
The “Select alarm reason” dialogue box appears displaying all alarm types and alarm reasons stored in the system.

The list is sorted by alarm type ID. The “+” symbol permits you to view and edit alarm reasons.

You can allocate an individual icon to an alarm type. This symbol is then displayed in the stack view and in the alarm program header.

To edit an item you must select it and then click the “Edit” button. You can also invoke the “Edit” dialogue box by double clicking the item.

Edit alarm type

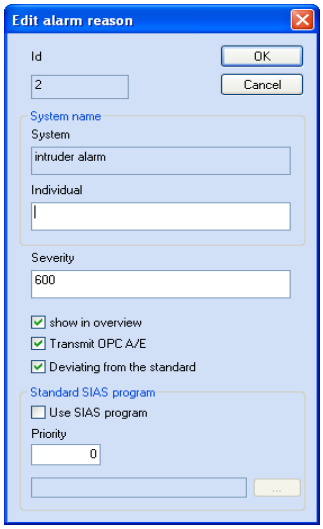


The dialogue box includes the ID, the name and the allocated icon. You can allocate a new name to the type, which will be used by WINMAG plus.

You can allocated a different icon via the “**New icon**” button. The file selected must be a .ico format file. The default directory for icons is “ICONS”. The icon allocated to the alarm type is also used for the subordinate alarm reason.

Click the “**No icon**” button to clear an icon.

Edit alarm reason

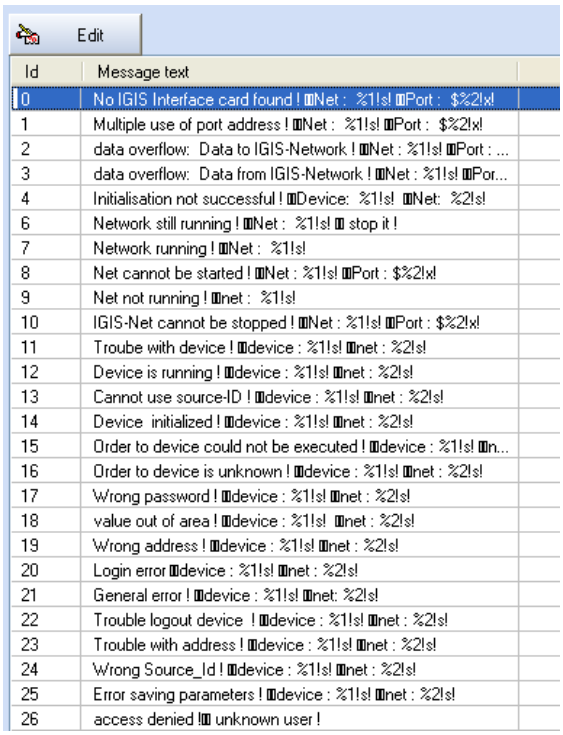


The dialogue box includes the ID and name. The “**reason**” can be given a new name, to be used by WINMAG plus.

Checkbox “**Display in Http overview**”
If the reason for the alarm appears, the icon in the status overview of the WINMAG plus web interface is displayed.

4.2.2.13 Edit log messages

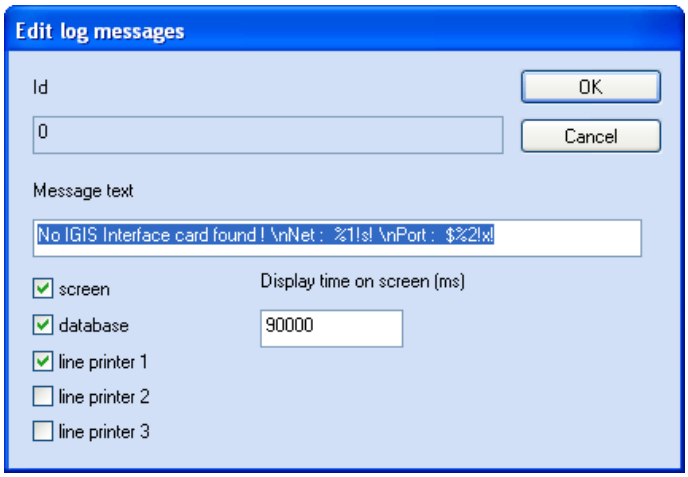
Select “Edit log messages “ from the “System configuration” menu bar to invoke the “Select log messages” dialogue box for editing or setting the output of system log messages.



The list of items is sorted in ascending order. Click a column header to sort according to selected column. Click again to change sorting between ascending/ descending order.

To edit an item, select the required item and click the “**Edit**” button or double click the item.

The “Edit log messages” dialogue box appears.



You can now define the text and output destination for every system message.

Message text

The message text is a mixture of text and system transmitted variables. The variables are pre-defined in WINMAG plus and may not be altered.
The following control characters are integrated in the character string:

\n	new line
%x!	variable number, usually 1 or 2 variables are transferred to the message
s!	variable is a string
x!	variable is numerical

Message output:

The message can be output at various “media”. Various check boxes  are available for output destination or a combination of output destinations.

Screen
If you activate this check box, the message is displayed on the screen. You can determine the display time via entering the time in milliseconds in the “display time on screen (ms)” field.

Database
If you activate this check box, the message is entered in the protocol database table. This table is subject to the automatic “clear” cycle that can be set
(General options).

Line printer (1,2,3) outputs the message to a printer.

Click “**OK**” to accept and save your input.

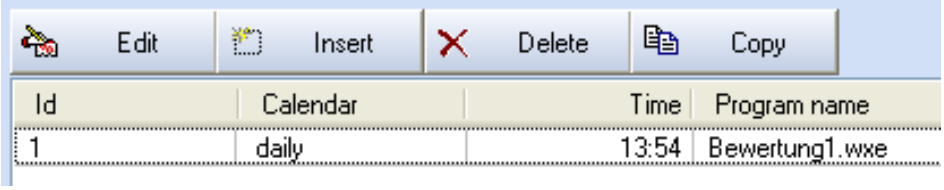
Click “**Cancel**” to cancel your input.

The user-defined messages (ID 500 - 509) are now of significance. Whilst all other items are created by the system, user-defined messages can be created via the SIAS command “message”. In this way, you can create individual messages.

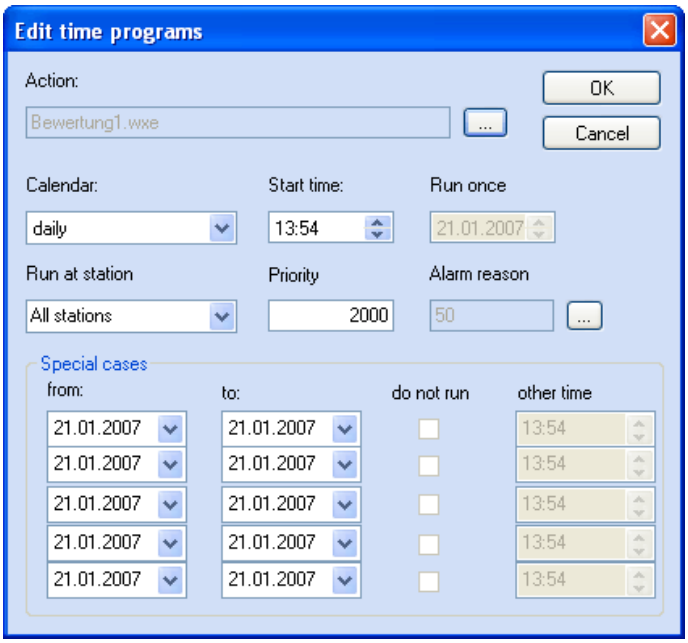
4.2.2.14 Editing time programs

Time programs can be entered, copied, deleted and edited after selecting the “Edit time programs” system configuration menu bar.

An overview with existing time programs and the “Edit”, “Enter”, “Delete” and “Copy” buttons appear.



The marked time program is deleted or copied when the “Delete” or “Copy” buttons are actuated and added to the existing list. The “Edit time programs” dialogue appears when the “Edit” or “Enter” buttons are actuated.



In this dialogue the marked calendar is displayed.

With the button ... a window is opened for selection of the action (SIAS-program).

In the dropdown list field “Calendar” you can select the desired calendar from the list of all system calendars and self defined calendars.
The start time can be set by minutes.

For this first mark the number of hours and adjust it with the arrow keys up or down. After marking the number of minutes you can adjust the minutes in the same way.

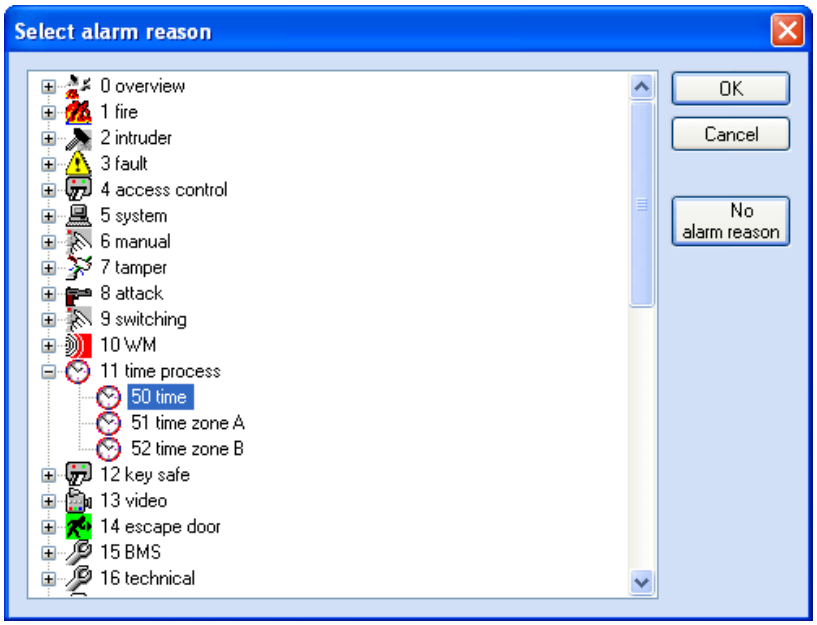
Time setting may be entered also via the keyboard.

When selecting the calendar “unique” the field “Run once” becomes active and you can enter the desired date. The procedure is similar to adjusting the start time.

In the dropdown list field “Run at station” you define whether the action is carried out at a determined single station or at all stations.

The field “Priority” contains the importance of the action. Default is 2000.
Further defaults: 1000 low priority, 3000 higher priority.

In the field “Alarm reason” with the button ... a window is opened for selection of the alarm reason.



Under “special cases” you can specify up to five (exceptions). Enter the start date (from) and the end date (to) and the desired action time (other time).

The procedure is similar to adjusting the start time.

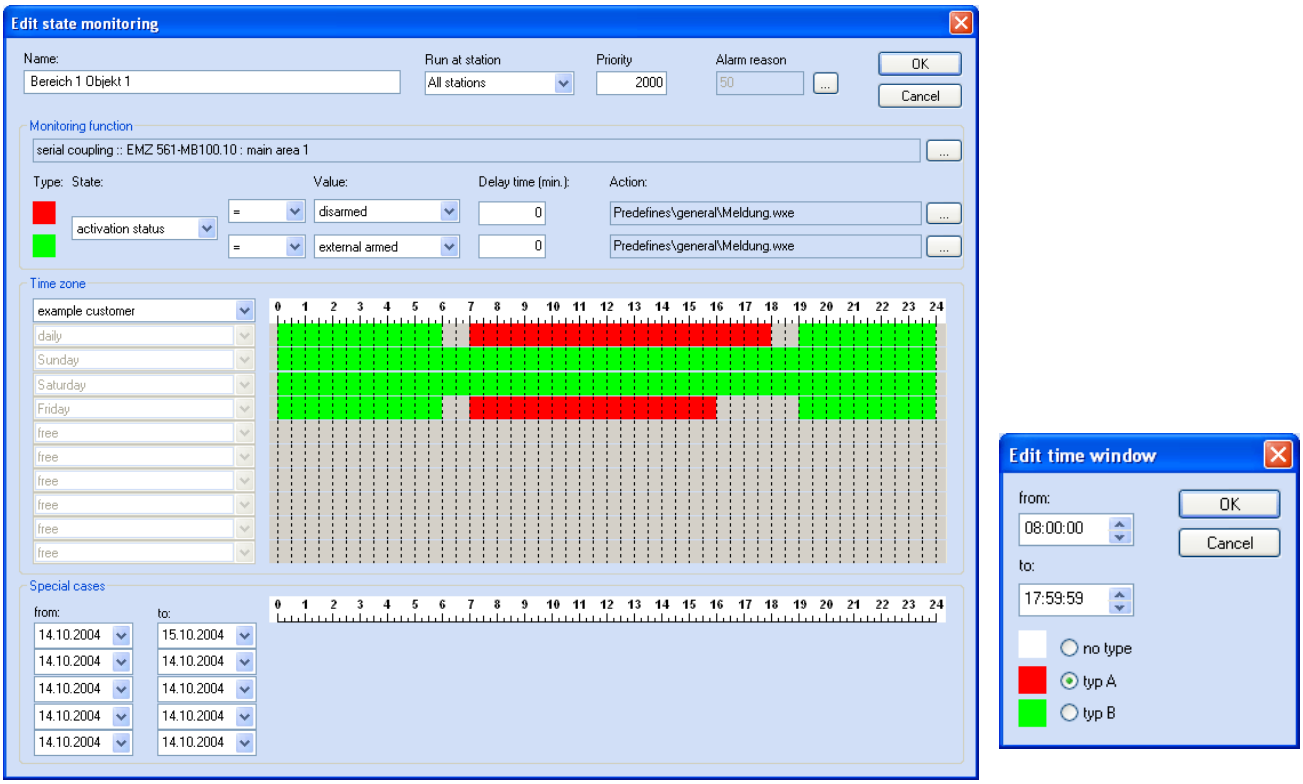
If an preselected special case must not be executed, you have to activate the control box “do not run”.

The values entered are imported with the “OK” button and the time program executes the selected action at the specified time.

4.2.2.15 Editing status monitoring

Areas for status monitoring can be entered, copied, deleted and edited after selecting the “Edit status monitoring” system configuration menu bar.

An overview with existing time programs and the “Edit”, “Enter”, “Delete” and “Copy” buttons appear. The marked entry is deleted or copied when the “Delete” or “Copy” buttons are actuated and added to the existing list. The “Edit status monitoring” dialogue appears when the “Edit” or “Enter” buttons are actuated.



Time zones are created and edited in the “Edit network configuration/System/ Time zones/ Edit time zone menu. Allocation of times and types is realised here in the “Edit time window” dialogue.

Field description

Name	Name of selected zone or new name.
Run at station	Definition whether the action is carried out at a determined single station or at all stations.
Priority	Importance of the action.
Alarm reason	A window is opened with the ... button for selecting an alarm reason.
Monitoring function	A window is opened with the ... button where the I/O point to be monitored can be selected
Type	Time zone type (A or B)
Status	Selection window for different monitoring statuses and the specification “=” equal to or “<>” not equal to in the second field
Value	Selection window for status value (disarmed, internal armed, external armed)
Delay time	Delay time between the occurrence of the monitoring situation and triggering of the action
Action	A window where the action (SIAS program) can be selected is opened with the ... button
Time zone	Selection window for a predefined time zone

Special cases from - to = selection calendar for special time zones (exceptions)

Special cases can only be set for the future. The “Edit time window” dialogue for allocating times and types appears when the special case time bar is double clicked.

Edit time window:
The time specifications can be set by minutes.

For this first mark the number of hours and adjust it with the arrow keys  up or down. After marking the number of minutes you can adjust the minutes in the same way.

Time setting may be entered also via the keyboard.

4.2.2.16 Edit calendars

Existing calendars can be opened and edited after selecting the “Edit calendar” system configuration menu bar.

Procedure see “Edit calendar” in chapter “4.2.2.3.8 Edit system I/O devices”.

4.2.2.17 Edit time zones

Existing time zones can be opened and edited after selecting the “Edit time zones” system configuration menu bar.

Procedure see “Edit time zones” in chapter “4.2.2.3.8 Edit system I/O devices”.

4.2.2.18 Edit SIAS programs

Existing SIAS programs can be opened and edited after the "Edit SIAS programs" system configuration menu bar is selected.

An overview appears with the existing SIAS programs and the “Edit” and “Insert” buttons.

The SIAS program editor with the marked SIAS program appears when the "Edit" button is actuated. Working with the SIAS program editor is described under “**4.3.1.1 The SIAS program editor**”.

A Windows Explorer window with the Winmagex directory appears when the "Insert" button is actuated. New SIAS programs can be saved here (see **“4.3.1 SIAS”** for further information).

4.2.2.19 Edit SIAS macros

Existing SIAS macros can be opened and edited after the "Edit SIAS macros" system configuration menu bar is selected.

An overview appears with the existing SIAS macros and the “Edit” and “Insert” buttons.

The SIAS program editor with the marked SIAS macro appears when the "Edit" button is actuated. Working with the SIAS program editor is described under “**4.3.1.1 The SIAS program editor**”.

A Windows Explorer window with the Winmagex directory appears when the "Insert" button is actuated. New SIAS programs can be saved here (see **“4.3.1 SIAS”** for further information).

4.2.3 Edit graphic tree

The “Edit graphic tree” option includes functions for the structuring of graphics and allocation of symbols to graphics.
You can place, move, re-configure, delete and align symbols and graphic references.

After you have called this option, the following (Edit graphics) toolbar appears:

4.2.3.1 General drawing edit mode

If you have not selected an option from the “Edit graphics toolbar”, the system operates in general graphics edit mode. You can edit all available graphical elements as well as the graphics backdrop.

To permit you to edit a graphic in general edit mode, the graphic to be edited must be visible on the screen !
If you wish to edit a graphic object (symbol, drawing reference), you must first **select** it !
A positioning box surrounds the selected objects.

Positioning box
A black positioning box surrounds the selected object. The box has 8 square handles with which you can change the size of the object. If you rest the cursor over a handle, the cursor changes into an arrow that indicates the direction in which you can resize the object.
The handles displayed at the corners of an object permit you to resize (by dragging) the object. By dragging to the opposite side/corner you can “flip” the object.
The handles displayed at the side of a selected object permit you to resize (by dragging) the side lines and thus also change the size of an object.

Selecting objects
You can select one or more objects. You can select an object by:

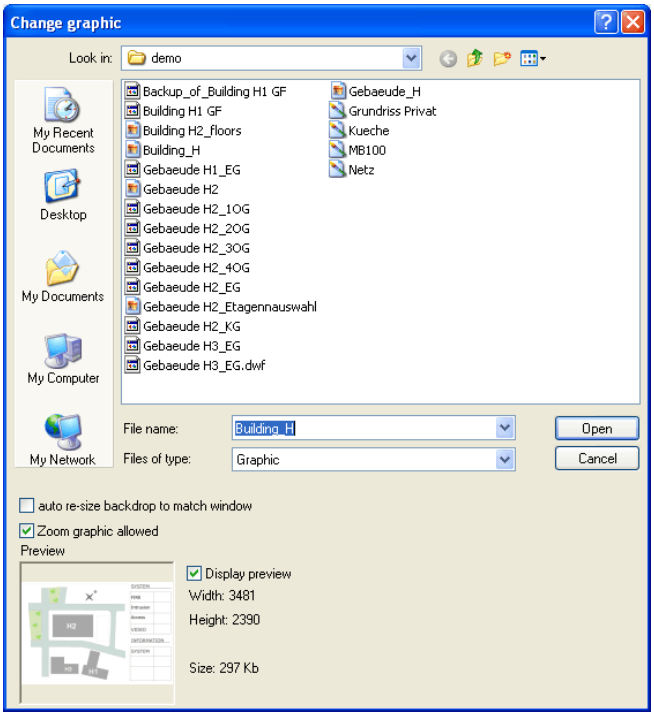
- Clicking the object (general edit mode) using the left mouse button
- You can select additional objects by keeping the “SHIFT” key pressed down whilst clicking on more objects. All selected objects have a positioning box.
- Dragging a box around one or more objects. Define the size of the box by way of 2 diagonally opposed points.
  Define the first point by pressing the left mouse button. A dotted box appears between the first “click” point and the point at which the cursor is actually positioned. This dotted box appears when you keep the mouse button pressed. After you have released the mouse button, all the objects within the box are selected.

Click on the object again to “**undo**” the selection. If you have selected some objects and you select other objects without pressing the “SHIFT” key, you “undo” selection of the objects first selected.

4.2.3.1.1 Change backdrop

You can change the graphic's backdrop by positioning the cursor on the backdrop and double clicking the left mouse button.

The "Change backdrop" dialogue box appears.
You can now select any drawing from any directory.



If the "**Display preview**" check box is active, the drawing is displayed in the preview window. The most important drawing parameters such as width/ height (pixel) colour and file size are also shown.

If the check box "**auto re-size backdrop to match window**" is active, the drawing selected is stretched to fit into the drawing window available. Note: in this mode changes in width/height ratio could occur. If this check box is not active, the drawing is shown with correct width/height ratio (this may mean that a white "margin" is sometimes displayed around the backdrop).

Select the drawing by clicking on it or enter the name of the drawing in the "File name" field. Click "**Open**" to change the backdrop drawing to the one selected.

All objects included in the graphic are saved together with the background-related coordinates.
If you change the size of the drawing background, the position of the graphic elements will also be changed.
If the position of an object is not within the backdrop, the object is placed in the middle of the margin so that at least half of the object is displayed. You can avoid this by making sure that the new drawing has the same pixel size as the old drawing.

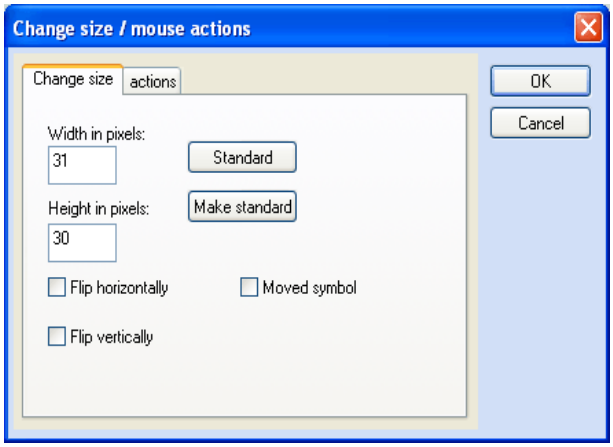
4.2.3.1.2 Move object

To be able to move an object you must select it.
If you position the cursor over a selected object, the cursor changes into a "move cross" . To move the object, press the left mouse button and keep it pressed; the object can now be dragged to a new position by moving the cursor. As you drag the object, a ghost outline of the object moves together with the mouse pointer to the new position. Release the mouse button at the new position.

As well as single selected object, multiple object selections may be moved. In this case the objects maintain their relative positions.

4.2.3.1.3 Edit object size

To change the size of an object, you must select it. The positioning box has 8 square handles with which you can change the size of an object. If you rest the cursor over one of these handles the cursor changes into an arrow that indicates the direction of changing size.



If you select one of the corner handles by pressing the left mouse button and keeping it pressed, you can move the corner of the positioning box and thus change the size of the object.
When you release the mouse button, the size of the object will change.

If you select a side handle by keeping the left mouse button pressed, you can move the selected side of the box and thus also resize an object. When you release the mouse button, the size of the object will change.

4.2.3.1.4 dialogue box for change size or mouse actions

To invoke the “Change size / mouse actions” dialogue box you must first select an object.

Click the selected object using the right mouse button to invoke the dialogue box.

Here you can enter the width and height of a symbol in pixels.

Active the “Flip horizontally” or “Flip vertically” check boxes to flip the object at the main pivot (middle)

Click the “**Default**” button to set the object to the default size defined (normally 32*32 pixels).

Click the “Make default” button to define the active size settings as the default. The value that you have defined as default remains set until WINMAG plus is re-started. All newly inserted symbols and drawing references are placed using this setting. If WINMAG plus is re-started, the default setting reverts to 32*32 pixel.

Note: If multiple objects are selected any changes made in this dialogue box are applied to all objects selected!

4.2.3.1.5 Edit object properties

To permit you to edit an object’s properties, you must first select the object. Double click within the marked object using the **left mouse button**. You can now change the object properties:

- If you have selected a symbol, the “Edit symbol” dialogue box appears permitting you to change the symbol and the I/O device .
- If you have selected a drawing reference, you can edit the colour of the reference frame.

  The associated graphic cannot be changed .

4.2.3.1.6 Delete object

To be able to delete an object you must first select it.You can delete all selected objects by pressing the “**Delete**” button. Before you can execute the delete function the system asks you to confirm that you really want to delete.

4.2.3.2 Insert graphic reference

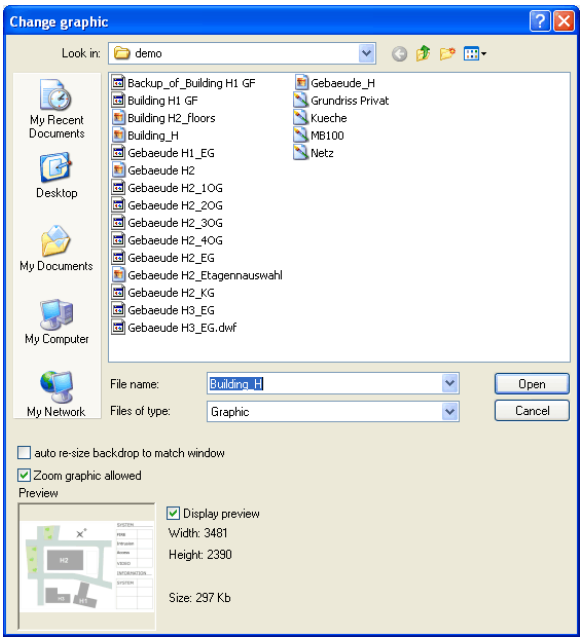
A graphic reference is displayed by way of a colored or a transparent box. All graphic used by WINMAG plus must be included in the “graphic tree” by which a graphic reference in a parent graphic points to another graphic in the structure. This “parent/child” relationship creates the tree-like structure. A graphic backdrop drawing must be available before you can insert a graphic reference.

To insert a graphic reference you must first display the parent graphic into which you would like to insert the drawing reference You can do this clicking on the required graphic in the tree, by clicking through graphic references (in test mode) or via the “Display graphic” dialogue box by clicking the drawing background using the right mouse button.

After you have clicked the “Insert graphic reference” button, the cursor changes and the “Graphic reference cursor” appears whenever the mouse cursor is moved over the graphic window.

Now you can define a graphic reference by clicking at the required centre of the graphic reference box using the left mouse button. You have now created a graphic reference (default size).

Now you must select the “child” drawing via the “Select next graphic” dialogue box:



All WINMAG plus drawings must be available in bit map format and may include any number of colors. Graphics in dwg format (up to Autocad 2002) are automatically transformed to bmp format.

Drawings can be selected from any folder. The path to the file is defined in the database. The drawings from the directory \ZEICH do not need a path extension.

The file itself is not included in the database. You can overwrite it at any time with a new version.

The dialogue box allows you to display a preview of the drawing together with the size parameters.

The check box “auto re-size backdrop to match window ” defines the appearance of the backdrop within the graphic window. If this check box is active, the drawing is stretched to completely fill the current window available window. This makes optimum use of the window space but could lead to distortion. If this check box is not active (default), the drawing is fitted (ratio-correct) into the window. This could cause the displaying of white margins (depending on window size).

You must then select the colour from the colour dialogue box:
You can select a colour from the colours available by clicking the colour desired or you can define your own colour by clicking the “Define custom colour” option.
If you define the colour white (white is displayed as a transparent button), the graphic reference flashes white and red. .
With all other colours, the graphic reference flashes red and the active colour (Note: a red graphic reference does not seem to flash !)
After you have clicked “OK” the graphic reference is displayed in default size and in the colour selected.
You can edit the size and the colour via the general edit functions - to do this you must deactivate the “Insert graphic reference” button.
You can go to the newly inserted drawing via the “Display graphic” dialogue box (click of the right mouse button) or by clicking on the graphic reference in test mode.

Ways of editing graphic references:

- Change size by selecting a graphic reference and dragging the positioning box
- Change of absolute size via the “Change size” dialogue box (click right mouse button when graphic reference is selected)
- Change colour of graphic reference by double clicking selected reference.
- Selected graphic references can be moved within the graphic. Press the left mouse button whilst the cursor is over a selected graphic reference and keep it pressed whilst dragging the mouse to the new position.
- Position and size alignment of several selected references using the “Align...” buttons.
- If you would like to move selected references to another graphic, select the appropriate function from the “Edit” menu.
    - “Cut” to move symbols or references to a new graphic
    - “Copy” to copy symbols or references.

You can change the backdrop for a graphic by double-clicking on the backdrop when in general edit mode. Do not execute the double click whilst the cursor is resting over a symbol or drawing reference, otherwise you will goto special edit functions of the graphic element. You can also click with the right-mouse button on the graphic in the tree then select “Change backdrop”.
If symbols are already positioned on the graphic, they are still displayed on the changed backdrop.

IMPORTANT to be observed when changing drawing size!! The position of a symbol is saved in absolute coordinates. If the resolution is changed, the symbols will appear an another position in the window.

You can go to the newly inserted graphic via the tree, the “Display graphic” dialogue box (click of the right mouse button) or by clicking on the graphic reference in test mode.

Transparent boxes (white) are displayed shaded in edit mode so that they can be easily seen and placed.

Detector tracing
In an alarm program, if a displayed graphic contains a reference to another graphic that contains a symbol for the I/O device that activated the program, then that graphic reference will flash between red and the colour of the graphic reference. This continues right back though the tree structure and allows the location of a detector to be easily traced.
- No flashing if a graphic reference is red
- Transparent graphic references flash between from red to white.

Video backdrop
In WINMAG plus you can show live video in a window. A video window is displayed according to the settings made in the video.ini file to the backdrop **Video.bmp** (pay attention to the spelling).

To display the video window your PC must be equipped accordingly (video input).
Only one video window can be displayed in WINMAG plus.

WINMAG plus can control matrix switchers. In order to do this it must be possible to control the matrix switchers from the outside (usually via a serial interface).
Video control is executed via the usual I/O device system. You must create a I/O device list for the matrix switcher connected and you must install a driver for the connected video system.

Example:
Honeywell Maxpro series
- I/O devices for camera connection to a monitor
- Camera control (swivel, tilt, zoom, focus)
- Sequences
- Error messages.

4.2.3.3 Placing symbols

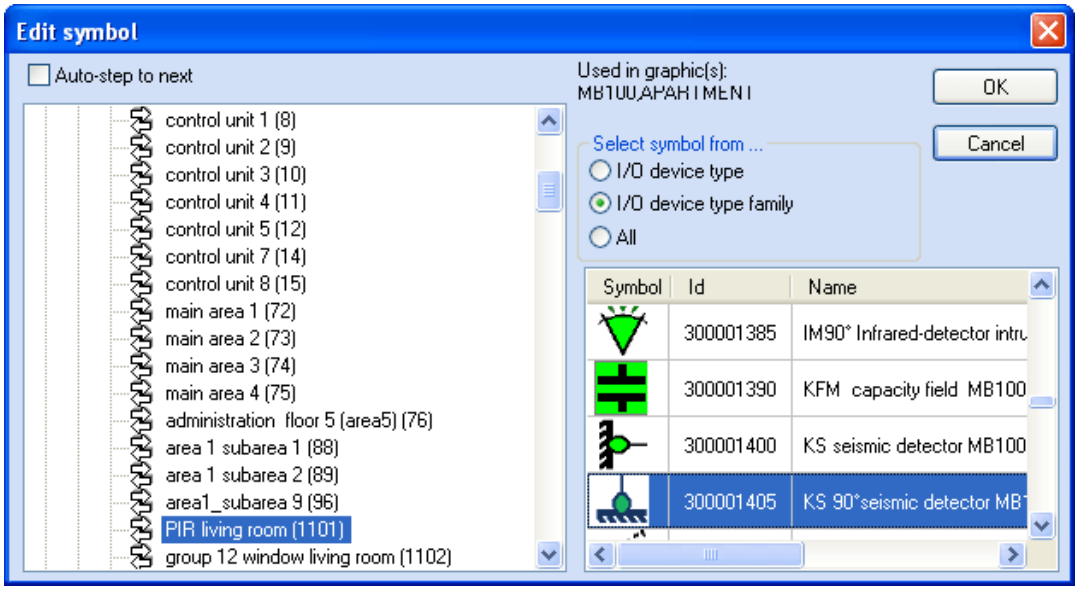
A symbol is the graphical representation of an I/O device. Before you can place a symbol, you must have created the I/O device in the network configuration.
Before you are able to insert a symbol you must create a graphic on which to place it.

First of all, you must display the graphic in which symbols are to be placed. The graphic can be selected from the tree or the “Display graphic” dialogue box by clicking the right mouse button.

4.2.3.3.1 Edit symbol dialogue box

After you have clicked the “Insert symbol” button the cursor changes shape and the “Symbol cursor” appears (a drawing background must be available).

The “Edit symbol” dialogue box appears to allow placement of I/O devices or text symbols.:



The dialogue box consists of 2 windows:

- The left window shows a tree structure of the I/O devices. Here, you must select the I/O device to be symbolized. You can only select one I/O device.
- You then select a symbol from the list of symbols shown in the right window.
  Generally, only appropriate symbols are displayed i.e. those symbols relating to the type of I/O device selected. There are three options:
  - **I/O device type** only offer symbols that are of the same type as the I/O devices
  - **I/O device type family** display all symbols whose type belongs to the family of the I/O device (derived I/O device types).
  - **All displays** all available symbols
- All symbols are shown in the list in 32*32 pixel format. This is also the default size when a symbol is placed on a graphic.
- The symbol is shown together with the symbol ID from the database and with the name of the symbol .
  Click the column header to sort the list. Click again to change between ascending/ descending sort.
  The symbol selected is shaded.
- The structure of a symbol is closely linked to the structure of the I/O device. If you put together symbols and I/O devices that do not match via the option “Display all symbols”, you must ensure the structures match!
- Check box “**Auto-step to next**”
  If you activate the “Auto-step to next” check box then once you have placed a symbol for an I/O device the next I/O device in the tree is automatically selected for placement. If the I/O device type remains the same, the symbol type last selected remains.

- **Used in graphic(s)** field
  If the I/O device selected is already used in graphics, the names of these graphics are displayed.
- **Close** button
  The “Edit symbol” dialogue box is closed.

You insert the symbol by clicking on the symbol in the “Edit symbol” dialogue and dragging it into the graphic window. Alternatively you can select the symbol required for the selected I/O device then click with the left-mouse button in the required location on the graphic. The symbol is displayed in the default size currently set.

After you have selected a symbol, you can move it by positioning the mouse pointer in the middle of the symbol and dragging it into a new position using the left mouse button.

As long as the positioning box is visible, you can change the position and size of the symbol last positioned. The edit dialogue box does not close so you can immediately place another symbol using the active settings.

4.2.3.3.2 Symbol configuration

Symbols are composed of layers of drawings. Each symbol has a text label describing the drawing layer that is displayed with a specific combination of state and function values.

For example:
Door symbol for a group I/O device of the MB100:

Status 0	Function value 0 “OK”	indicates closed door
Status 0	Function value 1 “ triggered”	indicates open door
Alarm 1	Function value 1 “ON”	display red highlight around door

Every message has an associated function value. Thus, when allocating a message to a function values, a drawing should normally be available to be used as a symbol.

If a symbol should only be displayed under certain conditions (e.g. alarm text only when an alarm is triggered), then you must only allocate a drawing for the status function value combinations required.

When designing symbols you must ensure that layers are configured to match in the state sequence of the I/O device definition. The layesr for higher state values are displayed on top of the layers for lower state values (i.e. a layer drawing for state 7 will be displayed on top of the layer drawings for states 0-6 and may obscure them) . If some parts of the layer drawings for lower states must **shine through** you must use the colour **white** (which is interpreted as transparent when the symbol is displayed).

All layer drawings must be saved as a .BMP file in the “Layer” directory.

The largest layer defines the size of the symbol, the positioning frame indicates the maximum size.
A symbol is defined in the database in 3 tables

- “Symbols” — Defines the names of symbols and I/O device types for which a symbol is valid
- “Symbol layer” — Specifies the layer drawings to use for each state function value
- “Symbol definitions” — Links symbols with symbol layers, includes all layer items fort every symbol

4.2.3.3.3 Edit symbol configuration

If you cannot find a suitable symbol, you can create other symbols or edit existing symbols.

Possibilities:

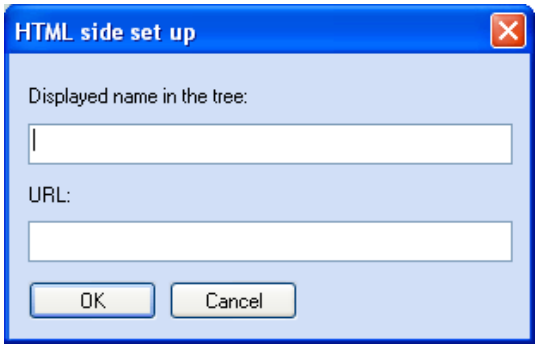
- Change the symbol configuration in the “System configuration “ option “Edit symbol”. Here you can copy existing symbols and edit them to your requirements. Here you can allocate layer drawings to state function values.
- Editing / creating layer drawings in the layer directory (e.g. using “Paint”). Please note that layers are usually not only used in one symbol but in several symbols. Thus, changing one layer drawing can also affect other symbols.

In the system configuration function “Edit symbols” the symbol can be previewed with all combinations of layer drawings enabling you to check the design of your symbols.

4.2.3.3.4 Entering an HTML reference

The cursor changes after the "Enter HTML reference" button is selected. The "Image reference cursor"  appears, provided a graphic background exists.

An HTML reference can be set by clicking the midpoint of the reference with the left-hand mouse button. The following dialogue window appears after clicking:



Now fill out the “Displayed name in tree” and URL path fields. The entries are imported with the "**OK**" button.

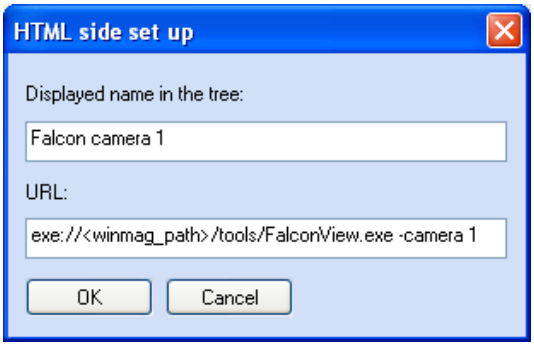
A link to the specified HTML page is established automatically when this reference is clicked.

4.2.3.3.5 HTML reference on Falcon Quattro frame grabber

The grabber card Falcon-Quattro has four video inputs. This card is used for connecting up to 4 video cameras. A special driver is available to operate the grabber card Falcon-Quattro that is actuated via the HTML side set up.

After clicking the button “Insert HTML side set up”, the “Graphics cursor” appears  , if the graphics mode is activated.

Select the desired position with the left-hand mouse button. Then the following dialogue window appears:



Enter the required data in the field “Displayed name in the tree” and
the URL path. Click "**OK**" to confirm.
Note: Enter the URL path correctly!
exe://<winmag_path>/tools/FalconView.exe -camera 1

4.2.3.3.6 CAD-file converter

The CAD-file converter is used to convert DWG and DWF files to the WINMAG plus readable “emf” format.

2-D graphics can be converted. 3-D graphics cannot be converted.

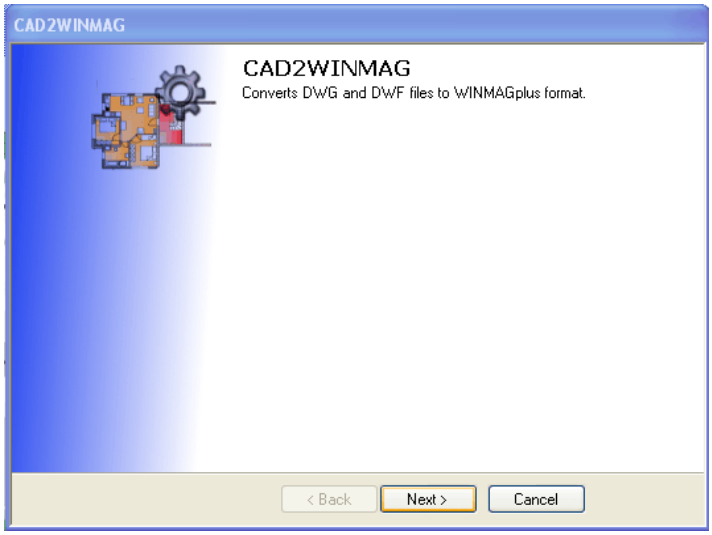
Two helper programs are required for conversion purposes.

- DesignReview_deu.exe

- DWGTrueView2008_DEU

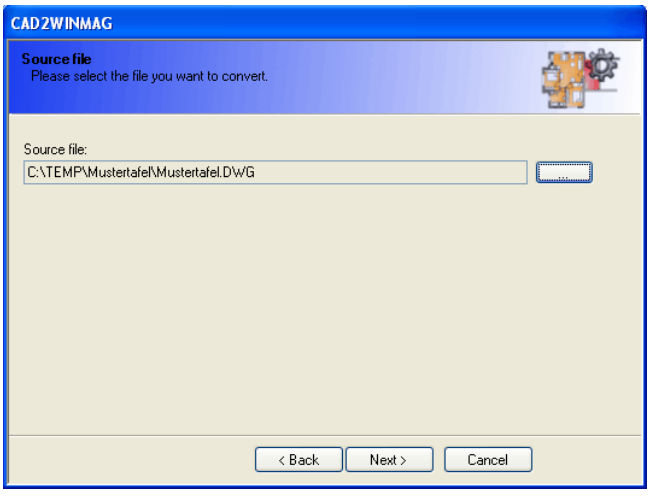
Download both programs from the Autodesk homepage and install the programs before converting

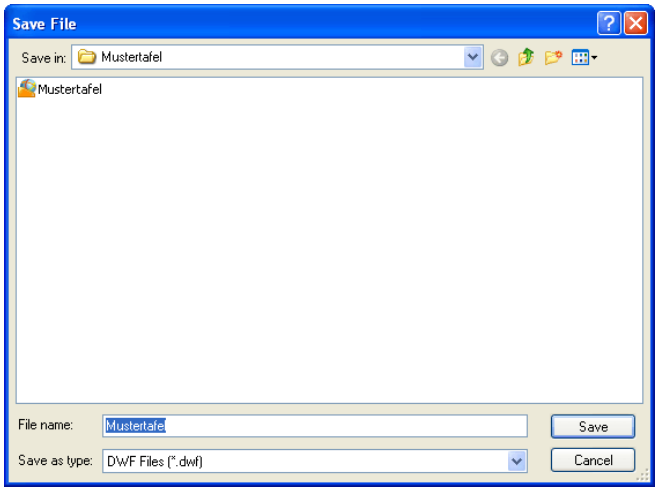
After clicking the button "CAD-file converter " the CAD2WINMAG window appears.



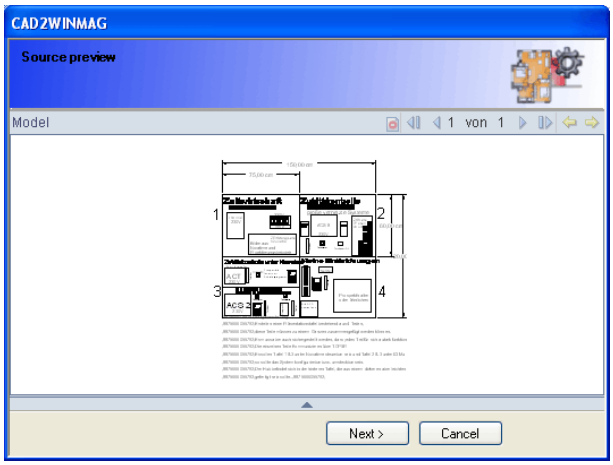
Click “Next” to activate the next window.

Select the DWG or DWF file that requires converting.
Click “Next” to activate the next window.



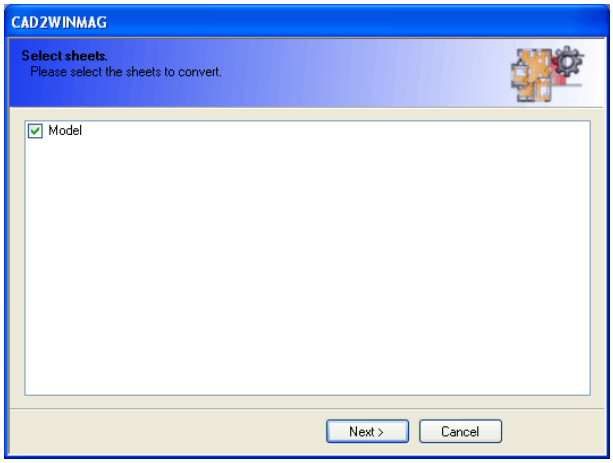


Note: If you selected a DWG-file, it must be saved in the next dialog window in DWF format (see illustration on right).



This window displays the source preview.

Click “Next” to activate the next window.

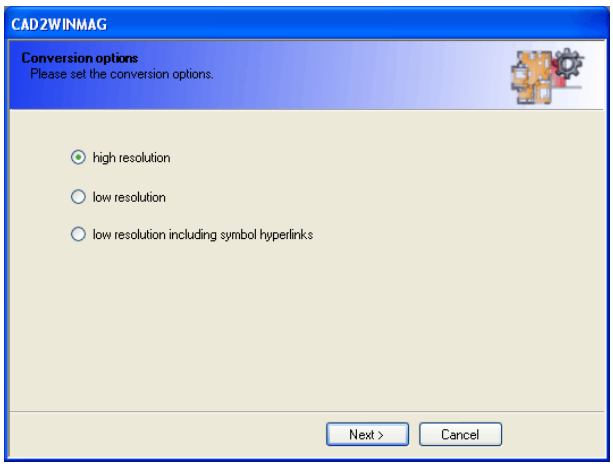


If the CAD file comprises several sheets, select the sheets that require converting.
Click “Next” to activate the next window.

Select the target directory for saving the converted file.
Click “Next” to activate the next window

.

Select the required resolution for the converted file.
Click “Next” to activate the next window.



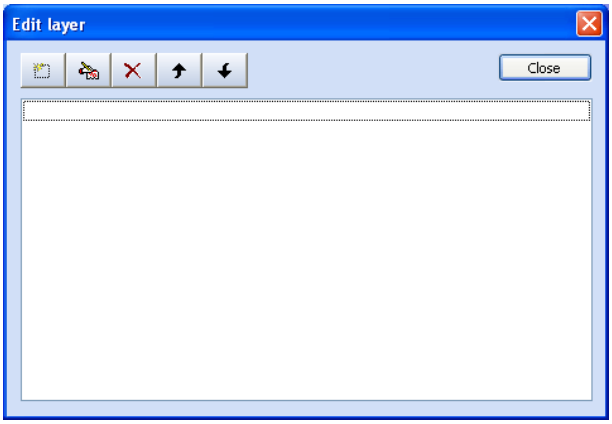
The last window shows the path in which the converted file is saved in “emf” format.

Click “Finish” to end conversion.

4.2.3.3.7 Create layer and edit

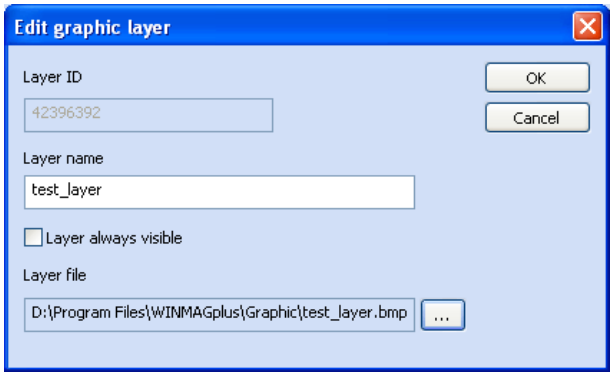
Layers are graphics that can be saved as additional layers. The layers appear in the graphics window that is currently open.
They can refer to simple arrows for escape routes or to complex alarm displays with directions in the event of an alarm.
Layers can be created in different graphics formats (bmp, wmf, emf, jpg, png, tif).
When creating a layer, always ensure that a layer fills the full screen.
If the background graphics should remain visible, use a graphics format that supports transparency, e.g. png.
File the layers in the WINMAG plus directory “Graphic” or in the sub-directories of “Graphic”.

Click the "Layer" button to activate the window “Edit layer”.



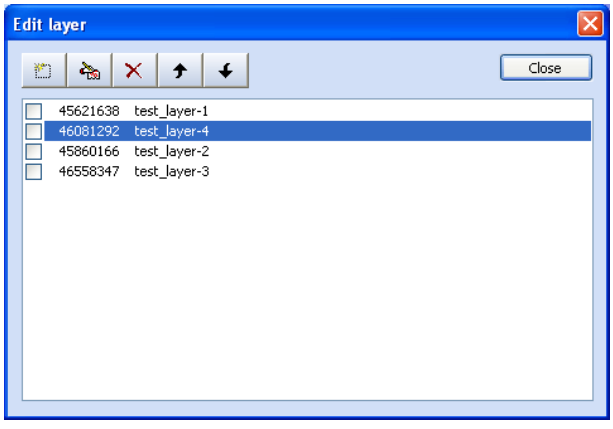
Click  to activate a layer.

The next window “Edit graphic layer” appears.



Select the desired layer from the WINMAG plus directory “Graphic” and enter a name in the box provided
The system automatically enters the layer ID.
Activate the check box “Layer always visible” to permanently display the layer. In the case of defined states (e.g. alarm) if the check box is not activated, the layer can be made visible via a SIAS command. When the program is quitted, the layer automatically disappears.

Click  and the window “Edit graphic layer” shows the marked layer. This means that for this layer
- different graphics can be selected
- the name can be changed or
- the “Layer always visible” can be re-activated



The layer displayed at the bottom of the list in the window “Edit layer”, is the top layer in the graphics window.

Use the buttons  to change the sequence and mark the desired layer.

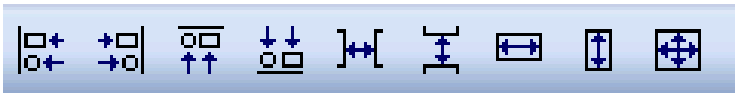
4.2.3.3.8 Move and align symbols

Symbols and drawing references can be given common coordinates and size.

To use thes functions, you must select at least 2 elements. You can perform the multi-selection of elements by dragging a frame around the elements (whilst keeping the left mouse button depressed) or by clicking the items required and keeping the “SHIFT” key depressed.

The last element selected is of great significance. If the elements are selected via a box, the last element cannot be identified by the user. The decisive element can be determined via selection (using pressed SHIFT key).

If you have selected at least 2 elements, the alignment buttons become active.



1 2 3 4 5 6 7 8 9

1 Align selected elements to **left** (last selected element is used as reference)

2 Align selected elements to **right** (last selected element is used as reference)

3 Align selected elements to **top** (last selected element is used as reference)

4 Align selected elements to **bottom** (last selected element is used as reference)

5 Same **horizontal** spacing (you must have selected at least 3 objects)

6 Same **vertical** spacing (you must have selected at least 3 objects)

7 Set all selected elements to same **width** (last selected is reference element)

8 Set all selected elements to same **height** (last selected is reference element)

9 Set all selected elements to same **size** (last selected is reference element)

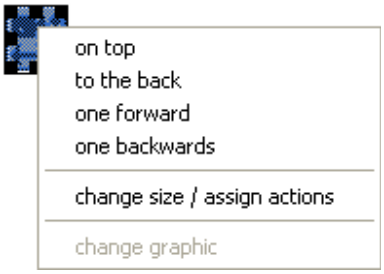
When moving and aligning overlaying of symbols is possible. Overlayed symbols must be separated manually.

Move symbols
You can move symbols in a drawing if a positioning frame surrounds the symbol or symbols. If you have selected multiple symbols then you can move all the symbols that you have selected at one go.
If you would like to move symbols to another graphic, then you must select the appropriate option from the “Edit” menu:

- “Cut” to move symbols or graphic references to a new diagram
- “Copy” to copy the symbols and graphic references

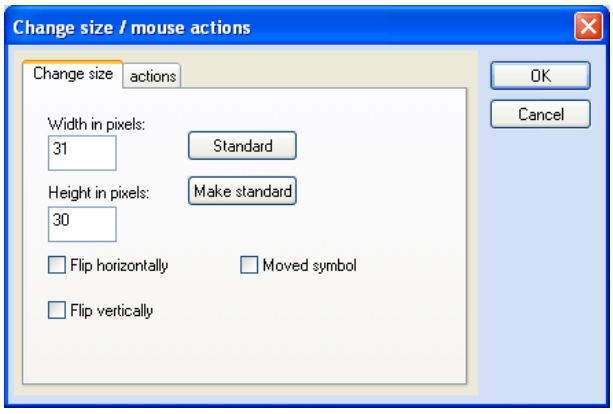
4.2.3.3.9 Arranging Symbols and allocate actions

Arranging symbols
Symbols can be arranged one above the other. Mark the symbol for this and activate the context menu with the right-hand mouse button.



Forwards	moves the symbol in front of all other objects
Backwards	moves the symbol behind all other objects
One to the front	moves the symbol one position forwards
One to the rear	moves the symbol one position to the rear

Changing symbol sizes
Each symbol can be assigned a size. Mark the symbol and activate the context menu with the right-hand mouse button. Then select “Edit size or symbol actions”. The following dialogue then appears:



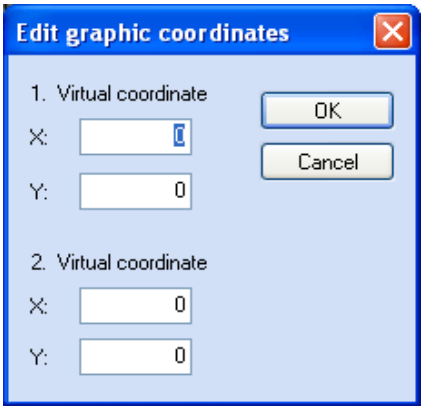
The dialogue has 2 tabs, "Change size" and "Actions". Select the "Change size" pad. Enter the width and height in pixel.

Standard values for the marked symbol are imported with the “Standard” button.

The values entered are imported as standard values with the “As standard” button.

The “Mirror horizontally”, “Mirror vertically” and “Moving symbol” control boxes assign characteristics to the symbol.

Moving symbol



In the case of moving symbols, the symbol is assigned virtual coordinates. The symbol is thus assigned the motion data on the background graphic.

The first X and Y co-ordinates determine the starting point of the movement. The second X and Y co-ordinates determine the end point of the (partial) movement.
String arrangements of further co-ordinates determine the entire movement of the symbol on the background graphic. The second co-ordinate of a partial movement always corresponds to the first co-ordinate of the next partial movement in this respect.

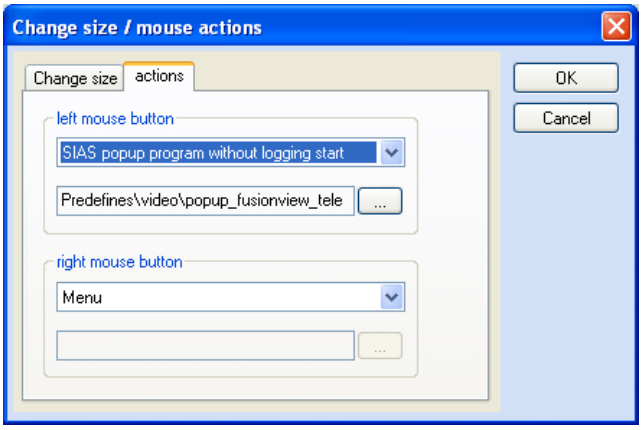
Symbol - allocate actions

You can allocate various actions to a symbol. Such actions can be linked to the clicking of the right or left mouse button.

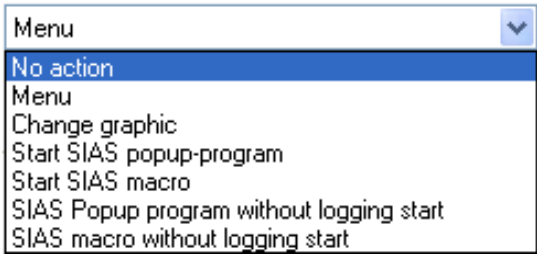
The possible actions are:

- no action - default right mouse button
- display menu (symbol info menu) - default left mouse button
- change graphic (allocate drawing reference)
- start SIAS pop-up program (immediately executed SIAS program in own window)
- start SIAS macro (immediately execute SIAS macro in background processing without screen output)

To invoke the “Mouse actions” dialogue box you must first select the symbol. Click the selected symbol using the right mouse button to invoke the “Change size / mouse action” dialogue box. This dialogue box has two tabs, i.e. “Change size” and “Mouse actions”. Select the “Mouse actions” tab to display the tab showing the actions allocated.



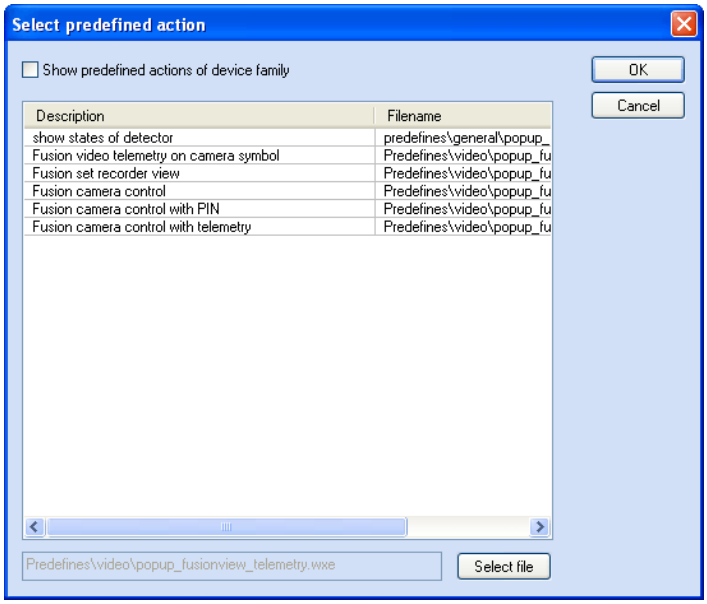
Default setting is left mouse button “menu” and right mouse button “no action”.
The following actions are available for each mouse button:



Depending upon the action selected, additional parameters may be required.

You can change these by clicking the  button.

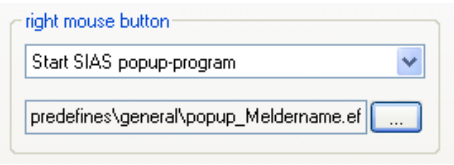
If you have selected the “Change graphic” action the “Display graphic” dialogue box opens and you can select the required graphic from the list of drawings contained in the tree structure. Click “OK” to accept the selected graphic.



If an action from the “SIAS program group” is activated, a window of the defined actions (popups) or a list of the defined macros is displayed.

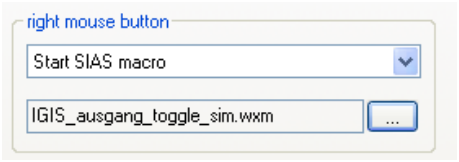
After selecting an action or a macro, the corresponding file name in the window next to the box “Select file” is accepted.

After clicking the box “Select file” a list of the “SIAS programs” with the ending .wxe or a list of the macros with the ending .wxm appears.



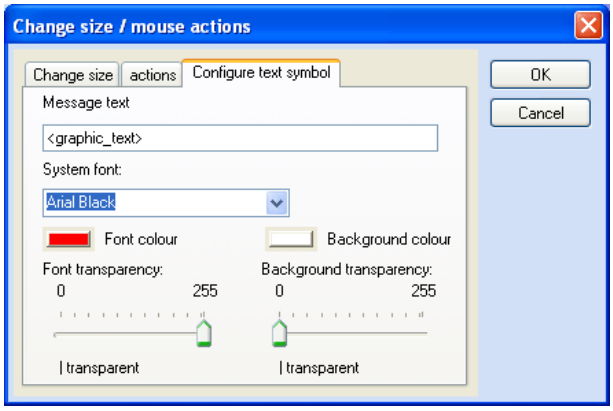
If you have selected the “Start SIAS pop-up program” action the “Open file” dialogue box is invoked that displays all files with the extension .EFF. Click “OK” to accept the selected file. Please note that a pop-up program must include a “size” command, otherwise the pop-up window will be displayed in a very small window. The symbol properties are passed as parameters.

If you have selected the “Start SIAS macro” action the “Open file” dialogue box is invoked that displays all files with the extension .EFM. Click “OK” to accept the selected file.



Please note that a program that has been started as a macro runs hidden in the background. The symbol properties are passed as parameters.

Configuring text symbols
Text symbols can be configured further for size changes and action assignment.
To configure a text symbol, mark the symbol for this and activate the context menu with the right-hand mouse button. Then select “Edit size or symbol actions”. The following dialogue then appears:



The dialogue has 3 tabs, "Change size", "Actions" and an additional “Configure text symbol” tab.
Select the font type, colour and background colour for the text field.
The font transparency and the transparency of the background can also be selected. 0 is equivalent to complete transparency in this respect. Transparency is no longer evident if the value 255 is selected.

The layout of a text symbol is determined in the field “Message text”. The text symbol may contain:
- constant text (eg floor plan buildinge 12)
- variables marked witht < > eg <mp_name>
- combinations of text and variables eg <mp_id1> / <mp_id2>

Variables:
<graphic_text> (preset value) shows a text which is assigned with the SIAS command “**put_graphic_text(mp)=text**” .

Text assignment is realised with the SIAS command “**put_graphic_text(mp)=text**” and the text field properties are equivalent to an I/O point. These texts must be reallocated after restarting WINMAG plus!

I/O related variables contain information like <mp_name>, <mp_id1>, <mp_id2>, <mp_nr>, <mp_text>,<obj_name>,<station_name>,<station_nr>,<picture_name>,<parent_name>.

Alarm related variables only turn up in the three alarm graphics of a SIAS-program.
<a_mp_name>, <a_mp_id1>, <a_mp_id2>, <a_mp_text>, <a_fkt_name>, <a_state_name>,<arrival>, <a_mp_text1..5>, <a_net>, <a_obj_name>.

4.2.3.3.10 Delete symbol

To be able to delete a symbol you must first select it.
Press the "**Delete**" key to delete all selected objects.
Before the delete function is executed, the system asks you to confirm that you really want to delete.

4.2.3.4 Test button

By pressing the "Test" button you enter "Test mode". In test mode all drawing references and symbols become fully active to allow testing without having to leave the graphic editing environment.

When in test mode:

- Click with the left mouse button:
  - A drawing reference leads to the sub-drawing
  - A symbol shows the symbol edit dialogue box including network, object, detector names, control functions and drawing selection.

- If you rest the pointer over a symbol or drawing reference the quick info appears.

The system is still in edit mode. Triggering conditions are not processed so that controls or simulation executed in test mode do not lead to start of programs.

4.2.3.5 Graphic tree context menu

If the "Edit graphic tree" function is active you can also perform certain functions via the context menu of the tree structure.

Depending upon the option selected, you can:

- Delete graphic — Delete the selected graphic and all elements placed on it
- Cut graphic — Select a graphic and graphic elements. Paste by selecting another graphic and clicking "Paste". The drawing is inserted as a child of the selected graphic in the tree structure and deleted at the old position.
- Copy graphic — Select a graphic and graphic elements. Copy by selecting another graphic and clicking "Paste". The drawing is inserted as a child of the selected graphic in the tree structure.
- Paste graphic — Insert a graphic as a child of the selected graphic (after using the "Cut" or "Copy" command)
- Change backdrop — Change the backdrop drawing of the selected graphic.

4.3 External programming functions

External programming functions are executed via other programs (i.e. these cannot be edited within WINMAG plus).

These include:

- The SIAS editor "**SIASEDIT**"
- Database editors such as Microsoft ACCESS runtime version or Microsoft ACCESS full time version.
- Database service program "WDB_Util"
- Windows system setup programs
- Database program Microsoft ACCESS
- Graphic editors for creating/maintaining backdrops

4.3.1 SIAS

SIAS = Security Application Language is an Honeywell-specific programming language for configuring user-specific alarm and message programs.

SIAS is a very simple programming language using less than 100 commands and thus very easy to learn.

The SIAS editor supports you when you are creating SIAS programs by way of "Assistants" that request the user all necessary parameters for a command.

All SIAS files are included in the WINMAG plus subdirectory **WINMAG plusEX** and in the associated subdirectories**.**

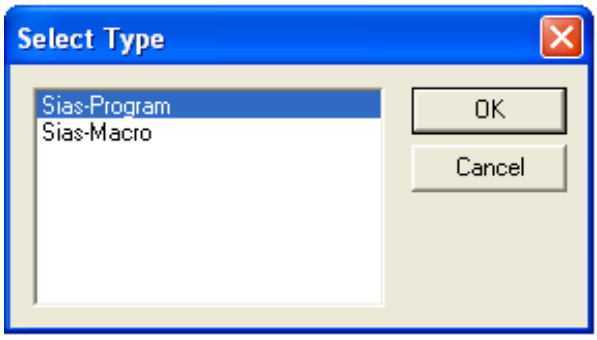
There are 2 types of files available:

- **Source files** with the file extension **.eff** or **.efm.**
  Source files are written in RTF format and thus can be edited using various types of editors.

  The **RTF file** comprises a mixture of text, objects and SIAS instructions

  SIAS instructions are identified by **triple brackets <<<**SIAS instructions**>>>.**
- **Runtime files** have the extension **.wxe** or **.wxm**. Runtime files are compiled source files. Compilation can only be effected using SIASEDIT. WINMAG plus operates with these files.

WINMAG plus distinguishes between two types or programs. When you create a file WINMAG plus asks which type of program is to be created. These two types of programs can be distinguished by way of different file extensions.



SIAS programs use the extensions .eff and .wxe

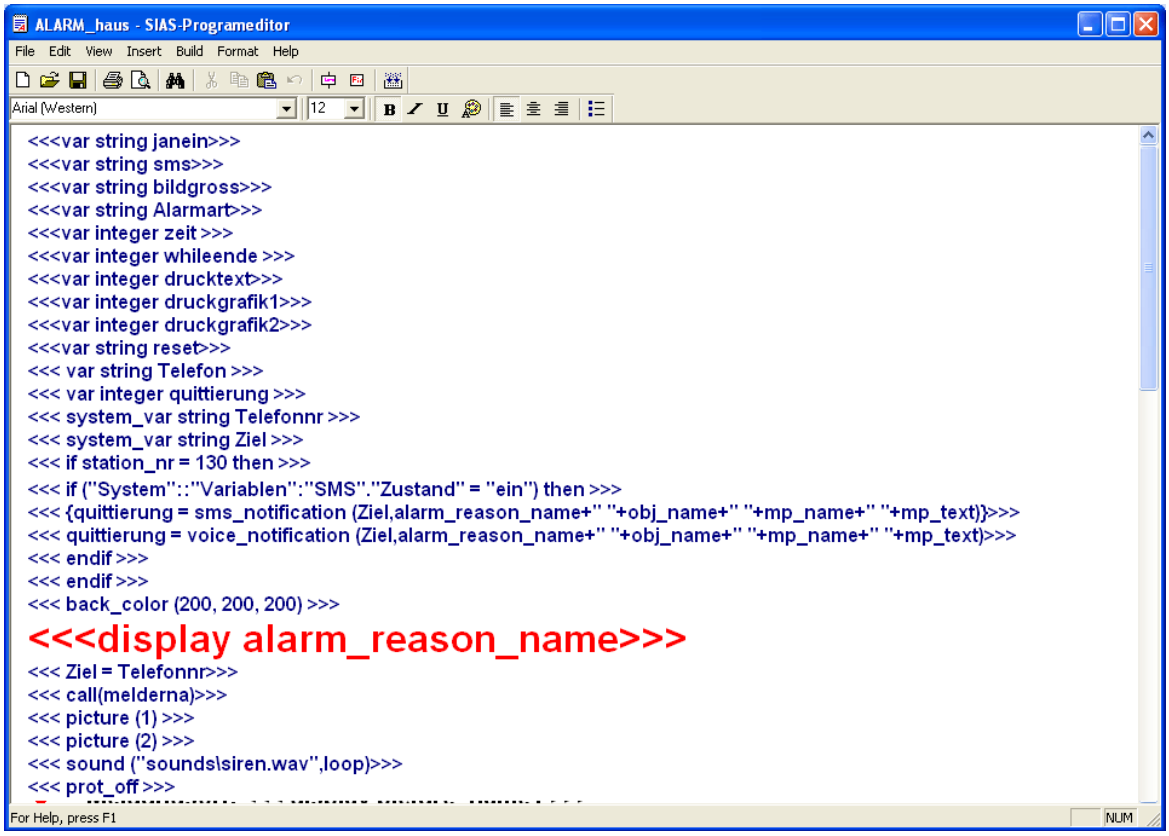
SIAS macros use the extension .efm and .wxm.

SIAS programs can be executed as an alarm program in the program work window corresponding to a message in the alarm stack. A SIAS program can also be executed as a pop-up program. Pop-up programs are activated manually by the user and are not subject to stack control. These programs are immediately executed.

Macros run in the background and are not output at the user interface. These programs are not subject to stack control and are immediately executed.

4.3.1.1 The SIAS editor

The **SIASEDIT** program allows the editing and translating of SIAS programs. SIASEDIT is an extended Microsoft Wordpad Editor, into which assistants and compilation are integrated.



The Honeywell specific extensions are included in the menus ”Insert”, “Build” and “Font”.

The buttons for these functions are integrated in the tool bar.

- Insert / Command
- Test view
- Build / Compile

The Editor processes .rtf files. These files include:

- ♦ formatted text.
- ♦ SIAS instructions in <<< command >>> brackets. SIAS commands are displayed in a specific font (by default they are displayed in pink). You can re-define the font used via the “Font” menu using the “Highlight font” command.
- ♦ Objects, usually SIAS controls. SIAS controls are separate applications that can communicate with the SIAS program via variables and settings.

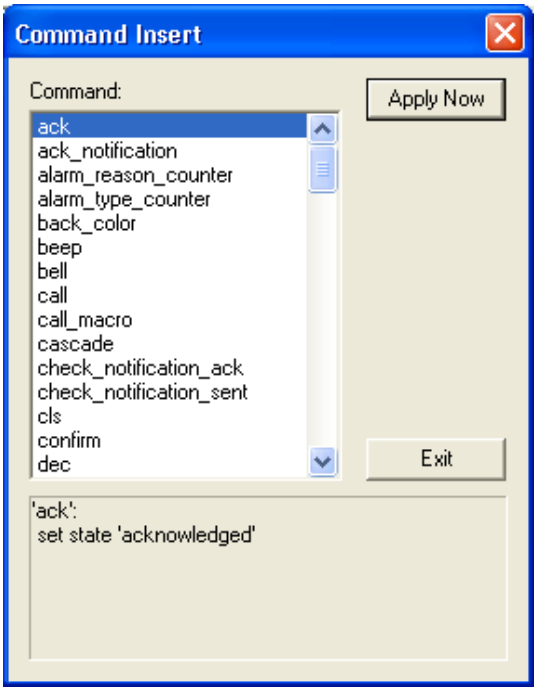
4.3.1.2 SIASEDIT extensions

Extensions to wordpad are included as commands in the menus 

, **Build** and **Font.**

The "Command" option for inserting SIAS commands

After you have selected the Insert / Command option or clicked the "Insert" button the "Command insert" dialogue box appears from which you can insert the selected SIAS command directly into your file or via assistants.



The dialogue box contains an alphabetic list of SIAS commands. After you have selected a command you can:

- Directly insert the command by clicking " Apply Now".
- If assistants are available, you can complete the command with the help of assistants (only available when the command parameter is set).

If you are using the SIAS language for the first time, we recommend the use of assistants.

The command syntax is displayed at the bottom of the dialogue box.

You can exit the dialogue box by clicking "EXIT".

"**Apply now**" button

If the command is directly applied, the "Insert" option inserts the command in the source file at the active cursor position.

You can only insert a command when the cursor is not in the SIAS command line (i.e. with <<< >>>) !
-> You cannot nest a command via the "Insert" menu.

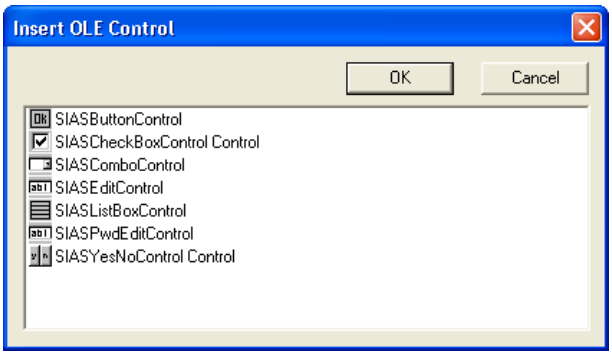
"**Assistant**" button

If an assistant is available for the command, you can call it by clicking the "**Assistant**" button. A series of dialogue boxes, appropriate to the selected command, will then be displayed. Generally, the "Assistant" will request all necessary parameters of a command. The complete command will then be inserted at the active cursor position.

SIAS Controls...

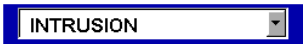
SIAS controls are components that can be integrated in the SIAS syntax. Generally, these are small user applications that can exchange data with the SIAS program.

After you have selected this option, you can select a component from the list of controls available.



Button — Button that can be displayed with any text or picture. A variable can be allocated to the button which takes the value of the text in the button when it has been clicked.
Variable type string
Value text of selected button

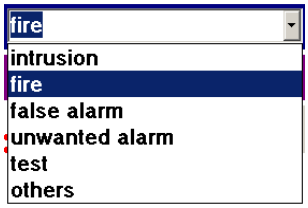
Checkbox — Checkbox that, when activated, displays the time when it was last checked. Once the checkbox has been checked the program continues executing.



Combo — Combo box that displays a list of options. You can select an option from this list

Edit — Input field where you can enter free text.
Variable type string
Value text

Edit multiline — Edit several lines
Variable type string
Value text



Listbox — List of alternative options from which the user can select one.
Variable type string
Value selected text

PWDEdit — Input field that displays the input text with stars or vertical lines (Windows XP)
Variable type: String
Value: Text (Password control)

YesNo — Decision control for user programs. The user can only select one of these buttons. A variable can be allocated which contains the text of the button chosen.

All control selections can be transferred to WINMAG plus via variable data that can be individually evaluated. You can configure controls via the “Properties” menu (e.g. fonts, highlighting colour, allocated texts, selection lists, click behaviour, ...). This can be found by right-clicking on the control.
You can assign values to the controls with the SIAS command <<<set_control_text(variable/"Text")>>>. This command takes effect to the last control before the command.

Customized controls

You can also create your own controls e.g. using Visual Basic or Visual C.
To enable WINMAG plus to use these controls,

- the name must include “SIAS” at arbitrary position, e.g. “SIASYesNoControl”
- they must be registered at the computer (regvr32, see also 4.2.2.3.1)
- the necessary DLL’s must be installed.

The communication between the control and the SIAS program occurs by predetermined variables.
Event:

‘SetVariable’	VariableName	as string
	Value	as string
‘OK’	without parameter	
in Code:	RaiseEvent OK	

For the action control a property-page should be created with the parameters:

‘Frozen’	boolean	Default False
‘InputOK’	boolean	Default False
Variablenname		

Build / Compile

SIASEDIT includes a compiler that permits you to create WINMAG plus runtime programs from SIAS source files with the extensions **.eff** or **.efm**.
During compilation, the syntax of the program is checked and, if an error occurs, a message is displayed. The incorrect SIAS-block is marked. Incorrect sources are not compiled to runtime programs.

You can start compilation by executing the command “Compile” in the “Build” menu or by clicking the compile  button.

A program can be compiled when it is:

- not in use (not running)
- not included in the stack
- not displayed as a log file

If these conditions are not fulfilled, the .wxe file cannot be written and an error message appears

Compile error: WINMAG plus stack is not empty	with items in stack
cannot open file ..... .wxe	when program is in use

The compilation of the file ‘AUSBED.wxe’ is particularly critical as this file is usually always being processed and thus cannot be compiled whilst WINMAG plus is running.

Execution of the AUSBED.wxe program is interrupted if

- WINMAG plus is in editing mode
- WINMAG plus is not running

Execution of the file is displayed in the WINMAG plus footer line.

 ‘AUSBED’ is being executed and cannot be translated

 AUSBED’ is not being executed and can be translated

If translation is effected with no errors, the message “**no errors**” is displayed. Otherwise, an error message appears.
When a compilation has been executed with no errors the source (.eff or .efm) and runtime (.wxe or .wxm) files are automatically saved.

4.3.1.3 Important SIAS programs

A number of WINMAG plus SIAS programs are supplied together with WINMAG plus. These programs serve as examples for your own applications or are absolutely necessary for the operation of the system.

The most important SIAS programs:

AUSBED.WXE/EFF

This file is the backbone of alarm processing. It is responsible for triggering all alarm programs.
The program 'AUSBED' is a very special program in WINMAG plus as it is always executed. The triggering conditions are programmed in a loop

(while (1) GETPARAMETER... conditions... endwhile

All new triggering conditions must be integrated in this file.

In addition to triggering conditions, 'AUSBED' also includes all programs that you can start manually as well as time dependent processes.

If you would like to compile a program it must not be in use. As 'AUSBED' is continuously being executed, it can only be compiled when
- WINMAG plus is not running or
- when WINMAG plus is in edit mode (in which case, the execution of 'AUSBED' is interrupted).

MANUELL.WXE/EFF

'MANUELL' is called in 'AUSBED' prior to the "While" loop and adds all of the programs that can be manually started to the "Manual programs" list.

ALARM.WXE/EFF

'ALARM' is a standard alarm program that can be started with virtually all triggering conditions.
'ALARM' includes a standard alarm sequence that you can adapt to your own requirements. This usually means you must remove code from the program.

FIREALARM.WXE/EFF

'FIREALARM' is a standard alarm program specifically designed for use with fire triggering conditions.
'FIREALARM' is a very simple program that displays a minimum of information that you can adapt to your own requirements. This may means you must add code to the program. This works together with the 'EXTRA_INFO" program which can be modified to include extra instructions to the user.

DEMO.WXE/EFF

'DEMO' is a welcome program that is automatically started after you have installed WINMAG plus. It permits the simulation of various alarms such as fire and intruder alarms.
The program is called in the 'AUSBED.WXE' file (in front of alarm processing loop). It always starts when 'AUSBED' starts i.e. after the start of WINMAG plus or after exiting the edit mode.
If this program should not start again, you can delete the line <<<exec (demo,1,6)>>> in 'AUSBED' or you can place this line in comment brackets { }.

TEST.WXE/EFF

'TEST' includes virtually all SIAS commands so that you can view their impact on the screen.
You can start 'TEST' via the demo loop or you can call it up manually.

DEVICENAME.WXE/EFF

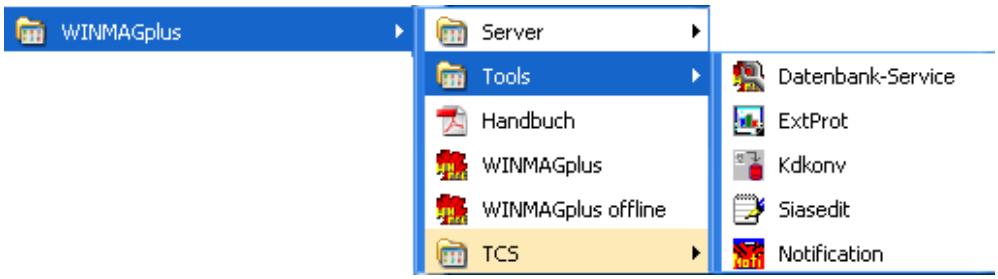
'DEVICENAME' is a program that is used as "call" in many other programs.
It displays variables, networks, objects and detector names on the screen.

The SIAS variables, SIAS commands and SIAS operators are listed in the Lists of I/O devices and other tables, P03126-24.

4.3.2 Notification

4.3.2.1 General

Notification is an option extension that can be enabled via the dongle. This option enables SMS, fax, voicemails or emails to be transmitted from WINMAG plus.
The option – notification – is integrated in the WINMAG plus installation as a component.
Notification runs as a service and starts automatically after enabling when the computer is started.
The program notification settings are used for configuration purposes or for making alterations to the configuration.
Notification settings are invoked in the WINMAG plus program group “Tools” via the entry “Notification”.



Altering to settings

If alterations have been made, the service must be re-started. This is carried out automatically on activating the OK button.

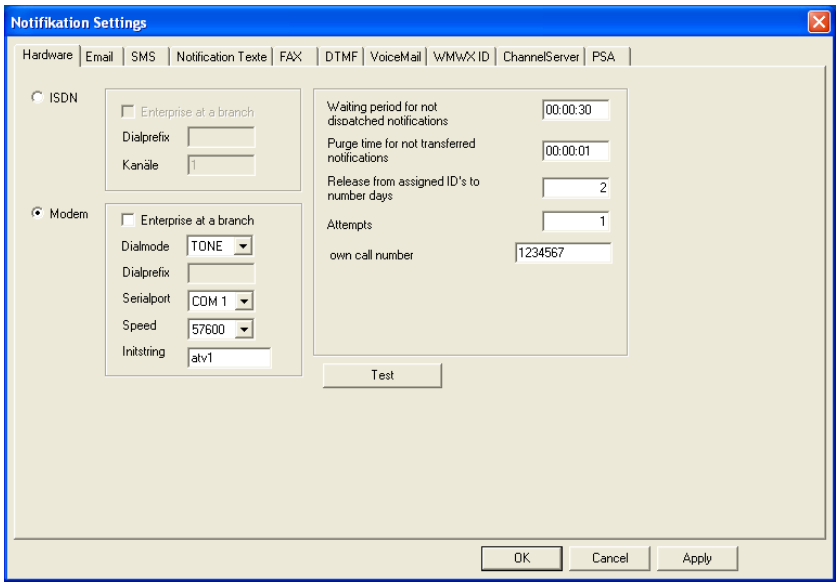
4.3.2.2 ID generation

An ID can be generated for every transmitted notification. This comprises 4 digits of the WMWX – Id, a . and a 4 digit random number. The IDs are unambiguous and can be re-enabled after a specific period of time.

4.3.2.3 Settings

After invoking the notification settings in the WIMAG program group “Tools”, via the entry “Notification”, the selection window “Notification settings” appears.

“Hardware” tab



Enter the hardware data of the connection here

ISDN: ISDN button is activated, if the connection is an ISDN one.

Operation at an extension: Is activated if it is an extension

Dialprefix: Indicates which character must be selected, if the ISDN connection is at an extension;

Channels: Indicates how many ISDN channels the program should use.

Modem: Fields for configuration of the modem

Other settings

Waiting period for notifications that have not been transmitted

If faults occur during the transmission process, this period of time is allowed to lapse until the next attempt is made.

Expiration time for notifications that have not been transmitted

If it was impossible to transmit notifications, they will not be transmitted even after this period

Enabling of allocated IDs as per number of days.

Used IDs will be enabled after this number of days

Attempts Number of attempts to send notification in case of faults

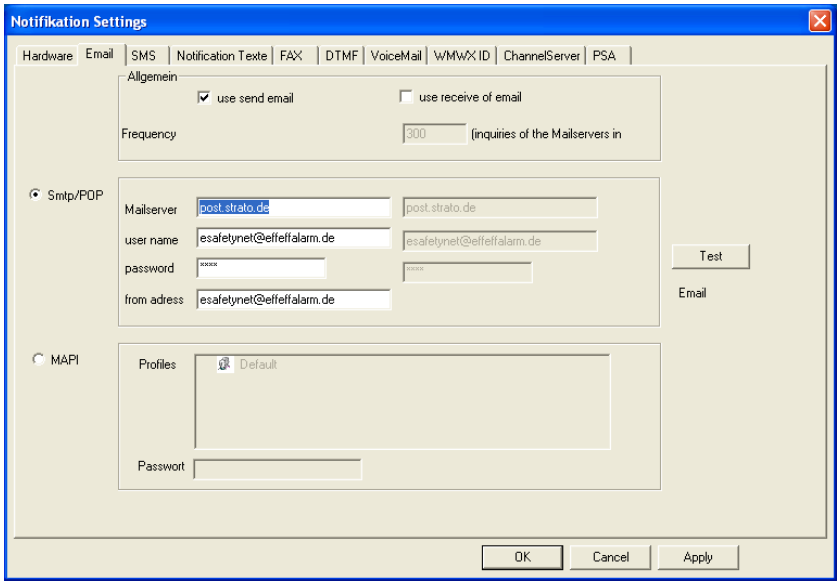
Own call number Also used for testing ISDN connection

Test

Press the test button to activate the testing of the ISDN connection. If access to ISDN network is correct, OK is displayed underneath the button.

There is no display in case of a fault!

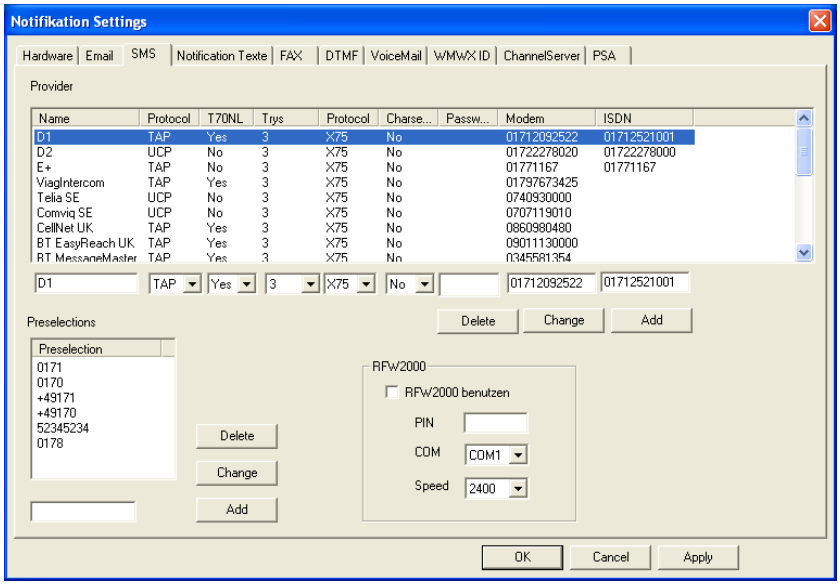
E-mail tab



Configuration as to whether the option e-mail is to be used, is carried out using the checkbox “Use e-mail” (both transmission and reception).
Transmission and reception can be set separately. The required parameters must be entered in the dialogue fields for this purpose.

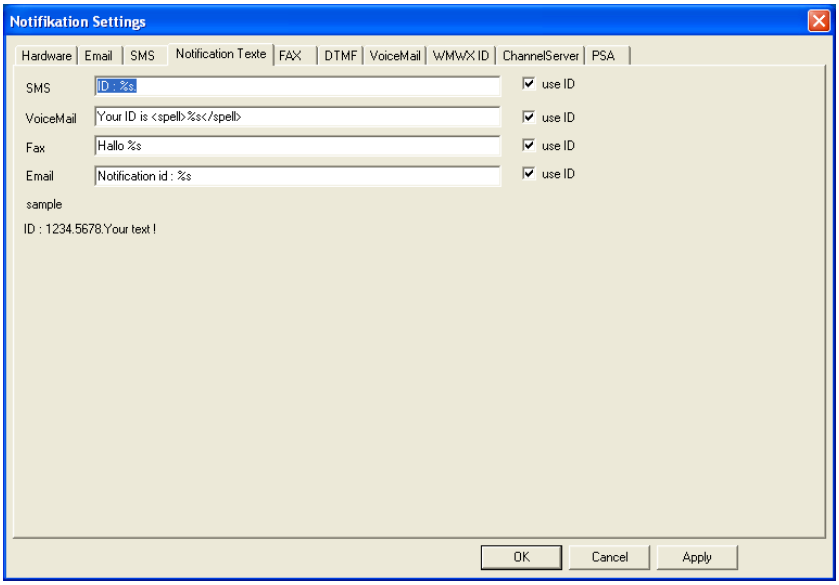
Test
Pressing this button, activates the e-mail connection test.
If the data are correctly configured, “OK” appears underneath the button.

SMS tab



SMS settings
The top list contains already configured providers. The bottom list contains the codes corresponding to every selected provider in the list.
The program establishes the provider by the transmitted SMS number.

Notification texts tab



Notification texts – settings

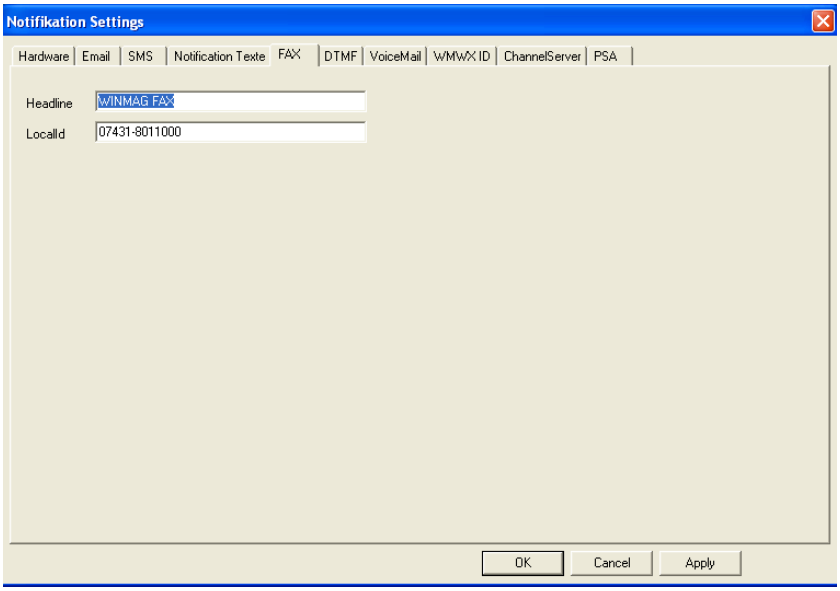
In this dialogue, settings are made for the notification texts. For every type of notification, a separate additional text can be configured.

The % indicates the position of the generated IDs. The release of the IDs can also be blocked by deactivating the checkboxes.

In the input field of the voicemail, additional speech tags can be integrated.

The example illustrates the appearance. “Your text!”, is replaced by the message transmitted by WINMAG plus.

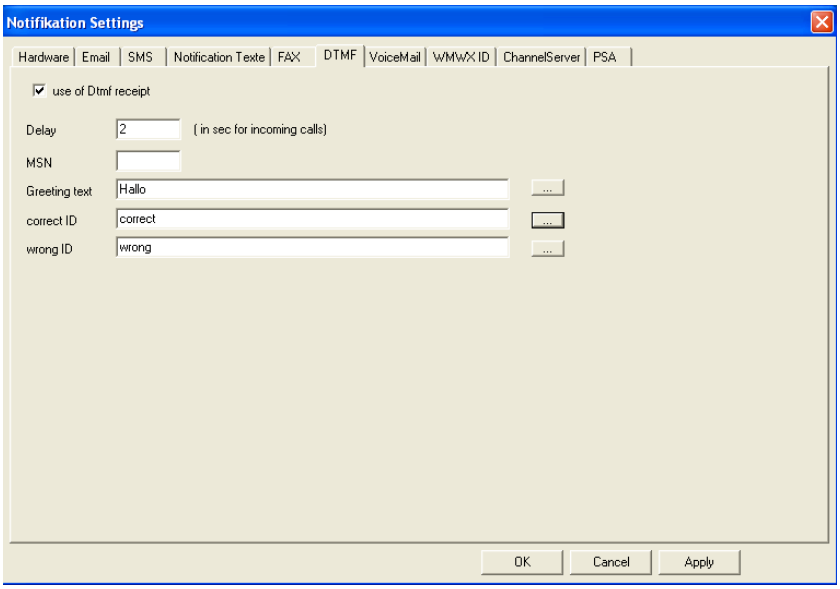
Fax tab



Fax – settings

Set the heading as well as the number that requires printing for the fax here.

DTMF reception tab



DTMF – settings

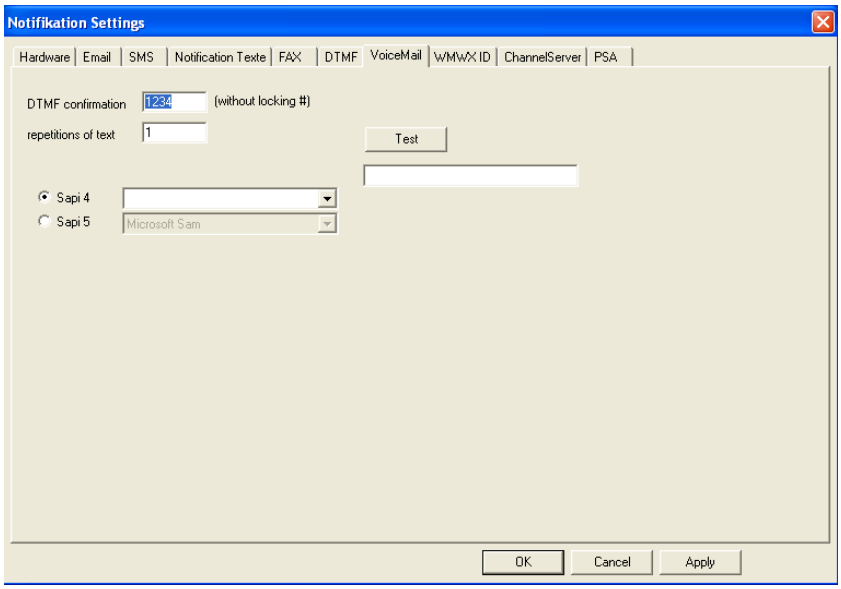
The checkbox “Use DTMF reception” (multiple frequency dialling process) can be used to configure whether this possibility is to be used.
It enables users at the PC to call and to confirm notification by DTMF tones.

Delay	After this number of seconds, the call is accepted;
MSN	The program responds to this MSN number to accept calls.
Welcome text	The welcome text is spoken only once after a connection has been made; speech API tags can also be integrated
Correct ID	This text is spoken, if a correct ID was entered;
Incorrect ID	This text is spoken, if an invalid ID was entered;

Entered numbers must be followed by the sign # at the telephone!

The texts (welcome, correct and incorrect ID) can also be replaced by wave files.
For this purpose, select a wave file via the button at the right.

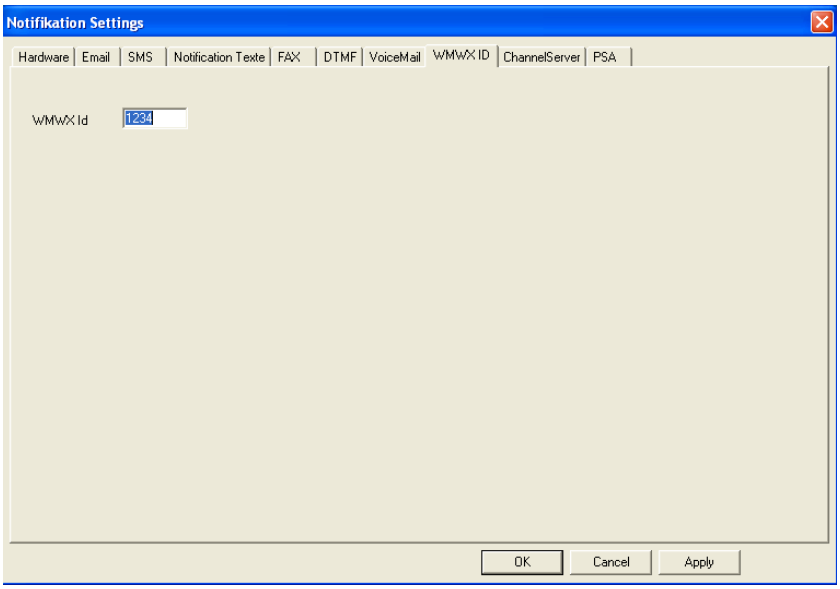
Voicemail tab



Voicemail – settings

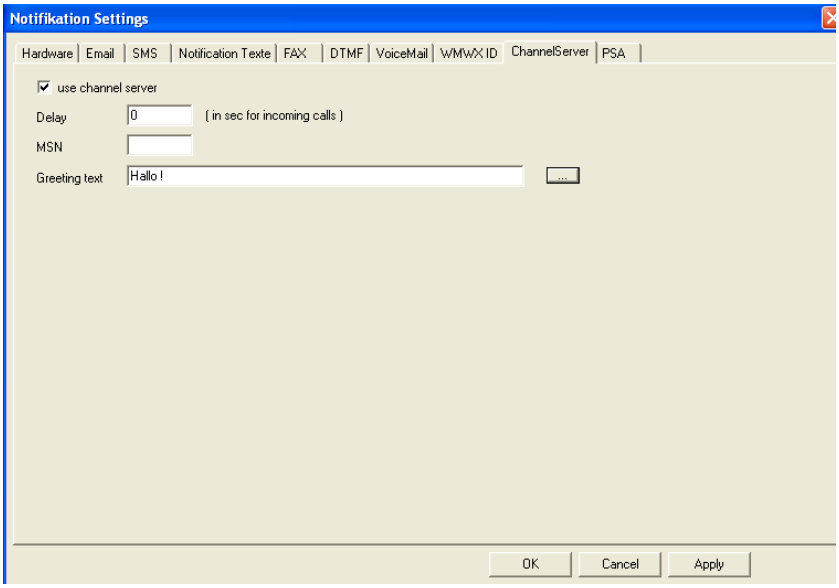
If a voicemail is transmitted, it can be confirmed directly. The transmitted ID is not required for this purpose, as is the case with DTMF reception.
The ID is removed from the field “DTMF confirmation”. The field “Text repetitions” indicates, how many times WINMAG plus has to read the text.
SAP14 and SAP15 are interfaces for outputting texts. The corresponding languages can be used for the output.
The test button is used to speak the text in the edit field so that the language output can be tested.

WMWX – Id tab



Enter the WMWX – Id here.

Channel server tab

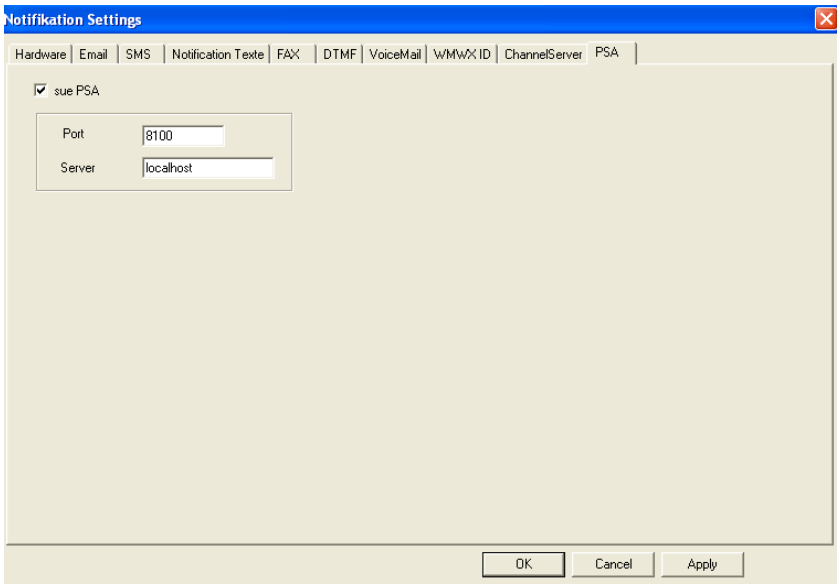


Use the checkbox “User channel server” to set whether the channel server has to be activated.

The channel server is used to influence and/or trigger program sequences by DTMF tones.

Clino call support tab (PSA)

This is the port that was entered in the Clino SW package. If the server is empty, the local host or the corresponding computer is used.

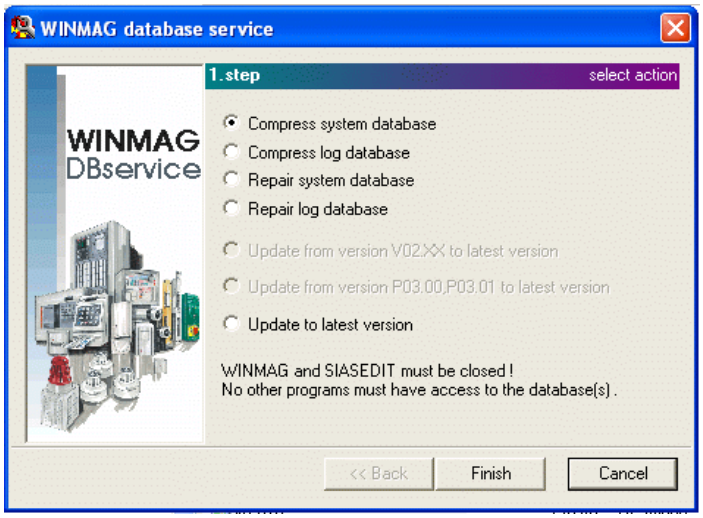


4.3.3 Database service program

From **WINMAG version 3.0** a database service program is also supplied. You can directly call this program from the WINMAG plus program group via the “Database service” menu.

The program can repair, compress and update the databases used by WINMAG plus. The program has exclusive access to all databases. WINMAG plus or SIASEDIT cannot be executed at the same time.

The program has also access to databases in own directory. For executing the update function, the new database (WINMAG.mdb) must be placed in the WINMAG plus sub-directory “Update” and the database to be processed is placed in the WINMAG plus directory.



After you have called the program, select the required program option (check box) and click the “Finish” button.

Possible program functions:
- repair of a defective database
- compressing of a database (the database grows with operation as the space of deleted records is only recovered upon compressing)
- Update of the current version. These options are only possible when the service program identifies a non-updated database. It can be updated from any database version prior to V3.00.

After the operation has been started a “wait” window with animation appears. Depending upon the action selected, the execution of the service could take several minutes. You must acknowledge the action selected by clicking “**OK**”.

The program actions can also be started from an externally controlled process. You can select via start parameters which options are to be executed and whether operation of the program should be closed (without acknowledgement of error message) if erroneous operation occurs. Error messages must normally be acknowledged.

Possible start parameters:
- cp compress log database
- rp repair log database
- cs compress system database
- rs repair system database
- u execute update from version X to current version
- x close on error

The parameter x can be combined with other parameters

Example: **WDB UTIL -cp-x** automatically executes compressing of the log database and closes with erroneous operation.

4.3.4 Windows system settings

The Windows system settings permanently influence the appearance of the WINMAG plus display.

Thus, we recommend the following settings:

- **Display settings**

Colour palette	High Colour (16 bit) = 65536 colours To ensure simultaneous output of 2 different 256-colour graphics
Resolution	1024 * 768 pixel The higher the screen resolution the greater the size of the work window (proportionally) i.e. header and footer become relatively narrower
Character size	Small fonts Only small fonts ensure the complete display of 2 lines for object and detector in the header of the alarm window.
Screen saver	**[none]** **With most screen savers it cannot be ensured that WINMAG plus can deactivate a screen saver upon the starting of an alarm program. Moroever, after a certain period of time a screen saver would cover the display of an alarm picture!** If a screen saver is to be assigned, you should use the WINMAG plus screen saver "**WINMAG plus SCREEN SAVER**" as only this screen saver guarantees coordinated operation (no overlaying of alarm programs, reliable deactivation).

- **Display**
  The display of menus and dialogues can be edited to your own requirements via the option "System control/Display. The settings then apply to all the Windows programs.

- **Printer**
  In WINMAG plus you can only use those printers that you have installed in Windows.

- **Multimedia**
  A sound card must be installed and setup for sound output. The sound card usually requires external loud speakers.

- **Power save mode**
  Please observe that when in "Power save" mode, the performance of the computer is reduced and is only enhanced again after a keyboard input.
  If the screen is deactivated, a program started in WINMAG plus will not be visible.
  For reliable functioning of the entire system, deactivate all "Power save" mode functions.

5. File management

5.1 Directories and files

The following tips and information are provided for experienced PC users and offer you the possibility for trouble shooting during installation.
After you have installed WINMAG plus, the following directories and files are available on your fixed disk. Please check if all these directories and files are available in the stated subdirectory.

The WINMAG plus directory can be determined individually during installation. We suggest **"X:Programs\WINMAG plus"** (x=operating system drive). All subdirectories have a fixed name which cannot be changed.

Files included in the WINMAG plus main directory after installation of the program:

Important program files:

WINMAG.exe	executable WINMAG plus control software
REGsvr32.exe	Registration program for controls (OCX files)
REGINI.exe	Registration program for IGIS driver

Important databases and files:

WINMAG.mdb	WINMAG plus system database
(WINMAG32.liz)	Licence file with enable options (prior to Version 6)

The current daily protocols are in the directory prot\clientxxx\db

Configuration files:

igisdrv.ini	Configuration settings for IGIS PC card driver
Video.ini	Configuration settings for video driver
WINMAG.ini	WINMAG plus user interface settings

Documentation / help files

Handbuch.pdf	WINMAG plus user manual
Meldepunktliste.pdf	I/O point lists
WINMAG.hlp	WINMAG plus help file
WINMAGD.hlp	WINMAG plus demo help file
README.txt	Brief instructions on installation

During installation, files must also be installed in the system directory (database driver DLLs,...). Thus for installation the current windows user must have administration rights for the computer.

If additional components are installed in your system then additional files are included in the WINMAG plus main directory.

Example: RemoteServer in the selected directory during installation.

WINMAG plus subdirectories:

The subdirectories are included in WINMAG plus:

DRIVERS Driver and driver configuration files

The current versions of the drivers are listed in the file “info.txt” in the WINMAG plus main directory.

GRAPHIC Example graphic backdrop drawings in .BMP format and .wmf format (prior to Version 7)

ICONS Default directory for own alarm icons

LAYER All layers of dynamic symbols in bitmap format
Dateiname.bmp

PROT All log files and stack entries that have not been executed.
Sta tt mm hh mm ss nr.pro Protocol items
Sta tt mm hh mm ss nr.sta Stack items
After a stack item has been executed, the file extension changes from “PRO” to “STA”.
User defined log names for the system log are stored in the file Prot.sel

SOUNDS Sound files in .WAV format, that can be run under WINMAG plus.

TCS Telecommunication server, includes the database for the modem driver
RemoteServer.exe Modem driver
RemoteServer.mdb Modem driver configuration database

TEXT Text modules that can be displayed in user programs using the command “Display”. The text file must have the extension “.txt”.

TOOLS Auxiliary programs, e.g. Siaseditor
SIASEDIT.exe SIAS editor and compiler
SIASEDIT.hlp SIAS editor help file
WDB UTIL.exe Database service program
WMZPconf.exe Configuration of the protocol process

UPDATE Current original database for update functions
Update file for dongle adaptation

WINMAGEX All user programs in source format and translated format.

*.eff Source format SIAS programs with user interface

*.efm Source format SIAS macros

*.wxe Executable program with user interface

*.wxm Executable macros (without user interface)

*.asl Parameter for triggering conditions

*.lte WINMAG Lite program with user interface

*.lmx WINMAG Lite macros (without user interface)

ZEICH Example graphic backdrop drawings in .BMP format (prior to Version 6)

Global Honeywell directory:

Programs and files that are not exclusively used by WINMAG plus, are filed by the installation program in the operating system drive under “Programme\Gemeinsame Dateien\Honeywell shared\...”.

Programme\Gemeinsame Dateien\Honeywell shared\Event Protocol

Programs for operating the event protocol

Event Protocol.ocx	
SharedMemDrv.ocx	Event protocol shared memory driver
TCPDrv.ocx	TCP/IP event protocol driver

Programme\Gemeinsame Dateien\Honeywell shared\Interface Connector

Programs for operating the interface connectors (IGIS loop interfacing)

InterfaceConnector.exe	
InterfaceConnector.tlb	Interface description for registration

Programme\Gemeinsame Dateien\Honeywell shared\WINMAGplus

ConnectionServer.ocx	Event protocol connection
SIASButtonControl.ocx	SIAS button with inscription/picture
SIASCheckBoxControl.ecx	SIAS check box with/without time stamp
SIASComboControl.ocx	SIAS combobox (fold-down menu)
SIASEditControl.ocx	SIAS editing field with max. 256 bytes
SIASListBoxControl.ocx	SIAS list box
SIASYesNoControl.ocx	SIAS YES/No buttons
SIASPwdEditControl.ocx	Input field, which displays the input text as stars or vertical lines (XP)
WINMAGPR.mdb	Empty protocol database
Wmzp.exe	Central WINMAG plus protocol process

5.2 Data safeguarding

So as to be able to retrieve WINMAG 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 protocol database winmagpr.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
- Drawings contained in the directory ZEICH or other directories
- Log files in the directory PROT (in particular PROT.SEL)

As, generally, 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.

5.2.2 SIASEDIT

“WINMAG plus, Version V01.xx"
- New SIAS commands

5.2.3 Delivered driver versions

Driver	Remarks
Connectionserver.exe	
EMZ5008.exe	Serial interface
Ernitec.exe	For M500 / M1000, 999 cameras /No. 1-999), 99 monitors Clear alarms
EssernetDriver.exe	SEI V2.01R001 with EMZ5008-supporrt
FTServer.exe	Interface to Bus-Controller 925 extended interface
IGISLoopDriver.exe	IGIS-Loop controller from V2.0 . Replaces V24Connector.exe Backbone support From IGIS-LoopController V3.0, frame bus users e.g. FDC616, 664, 1016 are also supported.
IGISV24Drv.exe	maximal 20 messages/sec
MultiscopeIIDrv.exe	Multiscope P 4.0.3.5.15
MultiviewDrv.exe	Prototype for Multiscope P 4.0.3.5.14
Philips.exe	for LTC-8300,8400,8500,8600,8700, 8800, 8900-series; camera numbers 1-999, 99 monitors, 512 alarms
VicrosoftDrv.exe	GST interface from V5.00 Camera numbers 1-255 99 monitors, 30 monitor groups 198 video sensors VS30 (4 modules) 499 video sensors VS40 (1 module) 9999 control activities, 999 video alarms Fixed position control actuation altered COM port from WINMAG data
Vserver.exe	Maxpro 1000 series, camera numbers 1-999, 99 monitors with camera no. 512 alarm initialization Back-up of control commands
WIMOPCCClient.exe	Driver for OPC interface
wmzp.exe	Central log process First version

The current versions of the drivers are listed in the file “info.txt” in the WINMAG main directory.

6. Appendix

6.1 Defined alarm types and alarm reasons

In WINMAG, you can define individual alarm types and allocated alarm reasons.
The alarm type (as superordinated category) defines the alarm type allocation stack and protocol into which a message is entered. The alarm type is achieved by way of starting the program or by allocation of the alarm reason. This allocation can be executed by way of starting the program or by way of allocation of the alarm reason to the alarm type.

You can edit the list of alarm reasons and alarm types as required in the WINMAG database. You can allocate a user-defined text to the system text.

6.1.1 List of alarm types

Id	Name	Icon_id
0	overview	233
1	fire	159
2	intruder	160
3	trouble	169
4	access control	218
5	system	166
6	manual	251
7	tamper	249
8	attack	250
9	switch	229
10	WM	229
11	time process	220
12	key safe	218
13	video	163
14	escape door	218
15	BMS	228
16	technical	160
17	test / revision	166

Id	Name	Icon_id
18	switch-off	233
19	control	233
20	user defined 20	169
21	user defined 21	169
22	user defined 22	169
...	user defined	169
29	user defined	169
30	warning	169
31	switch off general	169
32	under-trouble	169
33	output	169
34	information	169
35	guard supervising function	250
36	OPC	169
37	DEZ	228
38	Clino	228
39	alarm	169
40	message	169
10000	not associated	

6.1.2 Table of alarm types and alarm reasons

Alarm type Id	Name	Alarm reason Id	Alarm reason name
0	overview	0	-
0	overview	127	alarm finished
0	overview	128	malfunction finished
0	overview	129	activation finished
1	fire	1	fire alarm
1	fire	10	fire alarm single detection
1	fire	11	fire alarm detector group
1	fire	12	prealarm fire single detection
1	fire	13	prealarm fire detector group
1	fire	14	fault indication
1	fire	15	transmission
1	fire	16	fire key safe
1	fire	17	time is running
1	fire	18	smoke
1	fire	19	fire linear detector
1	fire	27	fire alarm
1	fire	100	Alarm automatic detector
1	fire	101	Alarm automatic group
1	fire	102	Alarm manual detector
1	fire	103	Alarm manual group
1	fire	104	not existing
1	fire	105	off
1	fire	107	switch on
1	fire	108	change detector
2	intruder	2	intruder alarm
2	intruder	3	attack alarm
2	intruder	20	intruder alarm single detector
2	intruder	21	intruder alarm detector group
2	intruder	23	released
2	intruder	24	technical alarm
2	intruder	25	opening contact alarm
2	intruder	26	opening contact
2	intruder	28	bolt switching contact
2	intruder	29	pre alarm
3	fault	5	technical indication
3	fault	6	fault indication
3	fault	9	network error
3	fault	14	fault indication
3	fault	68	wireless malfunction
3	fault	190	LAN Loop net message
3	fault	191	LAN Loop rupture
3	fault	192	LAN Loop message
3	fault	450	paper out
3	fault	451	contamination
3	fault	452	ground fault
3	fault	453	low level fault
3	fault	454	fault
4	access control	4	indication by access control

Alarm type Id	Name	Alarm reason Id	Alarm reason name
4	access control	37	locked card
4	access control	38	number of paper changed
4	access control	39	special code
4	access control	40	message
4	access control	41	door open
4	access control	42	malfunction
4	access control	43	alarm
4	access control	44	area empty
4	access control	45	attendance
4	access control	46	released
4	access control	47	blocking
4	access control	48	permamently open
4	access control	49	key missing
5	system	7	system indication
5	system	8	program indication
5	system	180	initialized
5	system	181	initialization unsuccessful
5	system	195	user change
6	manual	99	manually released
7	tamper	22	tamper
7	tamper	62	tamper indication
8	attack	60	attack and danger
8	attack	61	hostage-taking
8	attack	63	attack indication
9	switching	64	time interval alarm
9	switching	66	technical station
9	switching	90	ident key
9	switching	91	disarmed
9	switching	92	armed
9	switching	93	external armed
9	switching	94	changed
9	switching	95	blocking
9	switching	96	off
9	switching	97	day operation
10	WM	65	Wachtel-indication
10	WM	67	Wachtel-malfunction
11	time process	50	time
11	time process	51	time area A
11	time process	51	time area B
12	key safe	70	key management
12	key safe	71	Alarm
12	key safe	72	key missing
13	video	130	Video malfunction
13	video	131	Video alarm
13	video	132	off
13	video	133	on
13	video	134	event
13	video	135	tamper
14	escape door	140	emergency exit malfunction
14	escape door	141	emergency exit alarm

Alarm type Id	Name	Alarm reason Id	Alarm reason name
14	escape door	142	emergency exit offline
14	escape door	143	sabotage
14	escape door	144	emergency call
14	escape door	145	door released
15	BMS	150	BSMS malfunction
15	BMS	151	alarm
15	BMS	152	pre-alarm
15	BMS	153	signalling
15	BMS	154	warning
15	BMS	155	disconnection
15	BMS	156	revision
16	technical	159	inhouse emergency call
16	technical	160	technical alarm
16	technical	161	technical malfunction
16	technical	162	technical message
16	technical	163	water detector malfunction
16	technical	164	malfunction alarm
16	technical	165	heat detector
16	technical	166	heat detector alarm
16	technical	167	gas detector
16	technical	168	gas detector alarm
16	technical	169	system malfunction
16	technical	170	malfunction
17	test/revision	30	Error message
17	test/revision	31	Input from fire alarm system
17	test/revision	32	Input from fire control system
17	test/revision	33	Input from PC switch control
17	test/revision	34	Output of fire control system
17	test/revision	110	Revision running
17	test/revision	111	Revision group running
17	test/revision	112	Revision group off
17	test/revision	113	Revision user
17	test/revision	114	inspection alarm
17	test/revision	115	diagnosis
17	test/revision	116	remote maintenance
17	test/revision	117	test
17	test/revision	118	test function
17	test/revision	119	test alarm
18	switch off	106	switch off
18	switch off	1060	detector in group
18	switch off	1061	group
18	switch off	126	terminated
19	control	109	triggering
20	user defined 20	200	user defined 200
20	user defined 20	201	user defined 201
20	user defined 20	202	user defined 202
20	user defined 20	203	user defined 203
…	….	….	….
29	user defined 29	296	user defined 296
29	user defined 29	297	user defined 297

Alarm type Id	Name	Alarm reason Id	Alarm reason name
29	user defined 29	298	user defined 298
29	user defined 29	299	user defined 299
30	warning	120	warning active
31	switch off general	121	switch off
32	sub malfunction	122	malfunction condition
33	output	123	output activated
34	information	124	information
34	information	125	important information
34	information	400	GPS-message
34	information	410	switching
34	information	411	call fire brigades
35	guard supervising function	171	alarm
35	guard supervising function	172	malfunction
35	guard supervising function	173	incoming call
35	guard supervising function	174	logout PNG
35	guard supervising function	175	zone alarm
35	guard supervising function	176	test
35	guard supervising function	177	muting circuit
36	OPC	350	message
36	OPC	351	alarm
37	DEZ	370	message
37	DEZ	371	trouble
37	DEZ	372	line error
37	DEZ	373	alarm
37	DEZ	375	request
38	Clino	380	presence
38	Clino	381	call
38	Clino	382	priority call
38	Clino	383	emergency call
38	Clino	384	trouble
39	alarm	600	pre alarm
39	alarm	601	internal alarm
39	alarm	602	external alarm
39	alarm	603	alarm
40	message	500	normal
40	message	501	feed back
40	message	502	triggered
40	message	503	criterion
10000	not fixed	1000	not fixed

6.2 SIAS Components

6.2.1 SIAS commands

Individual programming operations for WINMAG signal programs are created with SIAS (= Sicherheits-Anwendungs-Sprache - Security Application Language). Instruction are, in part, assigned specific file types (e.g. waiting instructions and screen outputs cannot be used in the “AUSBED.EFF” file).
The SIAS language increases as functionality is expanded.

SIAS currently comprises the following commands:

ack_notification(nr)	acknowledge message of notification
ack	acknowledge state
alarm_reason_counter (ID “name”)	request counter status for alarm reason
alarm_type_counter (ID “name”)	request counter status for alarm type
and/or	set logical links
autoclose	automatically terminate program if the trigger criterion is no longer valid
back_colour(R,G,B)	defining program background colour with RGB colour values
bell	short acoustic signal
beep	permanent sound until key activation
call (program,variable)	call SIAS sub programs
call macro (macroname)	execution of macro code in the program
cascade	cascade WINMAG plus windows
check_notification_ack(nr)	check acknowledgement of the message
check_notification_sent(nr)	check message transfer
cls	clear screen, change page
comment	<<<{ in curly brackets }>>>
confirm “text”	user yes/no interrogation dialogue
dec variable (value)	decrementing of counter variable by value
delay milliseconds)	delay program execution “seconds”
delay (seconds)	delay program execution “seconds”
delay (milliseconds)	delay program execution “milliseconds”
disable “net”::”obj_name”:”mp_name”.”state_name”	set state communication filter
disable_layer_by_id	disable overlay by ID
disable_layer_by_name	disable overlay by name
dismanual “text”	deactivate manual program
display “string”,variable	display in text window
display_image (Bild,zoom)	display graphic in SIAS with zoom
display_rtf	display RTF-file
dtmf_menu (...)	definition of an entry in DTMF menue (text/calls)
else	start an alternative sequence of commands
email_notification_ack(nr)	transfer of an email with notification
enable “net”::”obj_name”:”I/O_name”.”state_name”	delete state communication filter
enable_layer_by_id	enable overlay by ID
enable_layer_by_name	enable overlay by name
endif	end of an if condition
endwhile	end of a while condition
exec(WXE-Programm,Prio[,Typ))	start SIAS-Programm
exec_autoclose	automatically terminate activated program if the trigger criterion is no longer valid
exec_default_prog	use alarm reason program allocation

exec_macro(WXM-Makro)	start SIAS macro (background program)
exec_popup(WXE_Programm)	start SIAS pop-up program (program on user interface)
exit	exit program - one level
fax_notification_ack(nr)	transfer of a fax with notification
file_append(“Dateiname”, “text”/variable[+“text”/variable])	attach a line to an existing file
file_delete()	deletion of specified file
file_exists()	checks whether the specified file exists
file_read(Datei,Variable)	reading a file in variable (max. 50 characters)
file_read_ln("Datei",variable,Zeile)	reads a specified line in a string variable
file_read_line()	reads specified lines in a text file
file_write(“Dateiname”, “text”/variable[+“text”/variable])	write a line into a new file
find("String", "value", startindex, count)	find characters in string
finish	finish program - all levels
finish_at_change(prio)	end program only at change of triggered message
freeze_controls	freeze input controls
generate_wav_file (filename,message)	generating a .wav-file from text (with notification)
get_fkt_nr(N::O:MP.Z)	get function value number
get_graphic_text	determines which graphic text is assigned to a message point with command put_graphic_text
get_graphic_xpos	get graphic x-coordinate from GPS-string type 1
get_graphic_ypos	get graphic y-coordinate from GPS-string type 1
get_integer wert	get numerical value of a string
get_mp_nr_from_id (netz::object, id_1, id_2)	determine I/O point number from ID1 and ID 2
get_mp-text_data(net,obj,mp_id)	find out texts of I/O points (condition name, function)
get_parent_picture_id (ID)	find out ID of parent picture
get_obj_nr_from_id (netz, id_1, id_2)	determine object number from ID1 and ID 2
getparameter	interrogate messages received
get_playbacktime	find out playbacktime from visioprime/fusion message
get_system_property()	inquiry for system variables (program path, metadata position,...)
gettime “ text”	queries time
hardcopy(No,printer)	printout at graphics printer No. from 0 - 3 0 = text, 1-3 = graphics, Printer from 1 -5
has_popup_alarm_parameter	checks whether alarm parameters are available
http_beep	acoustic signal in the website
if(condition) then...[else ...] endif	query conditional request
insert("String", "value", startindex)	insert character in string
inc variable(value)	increases numerical variable by value
is_message_in_stack	checks whether the stack contains a message for the specified I/O device state/function value
is_message_removed	checks whether a message for the specified message point status/function value was automatically deleted from the stack
is_mp_in_mandant(mp,mandant)	checks whether the specified I/O device exists in the client (mandant)
Kommentar <<<{ in geschweifter Klammer }>>>	comment <<<{ in curly bracket}>>>
left_substring(string,seperator)	searching text on the left of specified field marker
left_string	return left string
length("String")	find out length of string
lock_tile_off	lock tile of display
lock_tile_on	Bildgrenze fixieren

login / logout	user login / logout
manual(program, priority, type, ”text” [,”message”])	activate manual program
maximize	maximize WINMAG plus program window
maximizeprog	maximize text area
maximizepicture(No)	maximize graphics window No.
message (“text”[+text,variable],No)	output “text” in window in user-defined message No. 1-10
minimize	minimize WINMAG plus program window
mp_exists(...)	checks whether the specified network object I/O device combination exists
newpage	new page after activation of entry key
on_close_exec_macro(Makro)	starts SIAS macro when SIAS program closed
on_control_exec_macro(Var,Makro)	starts SIAS macro when variable changed
on_open_exec_macro(Makro)	starts SIAS macro, when SIAS program open
pager_call(message,address,coding)	transfer of a pager-message (notification+Ackermann)
parent_var typ Name [=Init]	variable from the parent program (with initial value)
picture_id(1..10)	indicates theID of a further graphic entry (if existing)
prog_width (pixel)	width of the text window in pixel with split screen
picture (number [,ID / ”name”])	display graphic window number (1-3)
popup_autoclose	set Pop-up-action to standard mode
popup_pin	pop-up stays open until closing application
popup_pin_parent	pop-up stays open until closing parent window
popup_pos	configures the x/y coordinates in the top left corner of a popup window
popup_size(x,y)	convert size of the pop-up
print_graphic	print in background, multiple page
priority (value)	edit program priority when running
prog_width(pixel)	set width of text box
prot_on	switch on protocoling
prot_off	switch off protocoling
put_graphic_pos(“Network”::”Object”:”I/O device”, X-Pos, Y-Pos)	set symbol graphic position x/y-value
put_graphic_text(“Network”::”Object”:”I/O device”=Graphic Text)	set text for text symbol
put parameter	control command with various parameter options
reload_database	reload database
put (I/O_no) .”state_name”=“fkt_name”	switch command at object
reply “text”	input dialogue with one response line
remove("String", startindex, count)	remove character from string
replace("String", "oldValue", "newValue")	replace character in string
replace_in_page	replace text in page
restart_driver	driver stop and restart
right_string	return right string
right_substring(string,seperator)	searching text on the right of specified field marker
run (“name”,”parameter”)	start external program
run_no_window	start of an external program without own window
report	input dialogue with response window
screenshot	printing the current window section
search “net”::”obj_name”:”mp_type_name”.”state_name”=“fkt_name”	Searching with output in table view
search_alarm_reason(nr[,nr])	searching for I/O points with indicated alarm reason
search_alarm_type(nr[,nr])	searching for I/O points with indicated alarm type
search “net”::”obj_name”:”mp_type_name”.”state_name”=“fkt_name”	search with output in single lines

send_prog_to_group	send program to a member of user group
send_prog_to_station	send program to a station
send_prog_to_user	send program to an user
seek_alarm_reason(nr)	search for alarm reasons with output in individual lines
seek_alarm_type	search for I/O devices with active alarm type number
seek_alarm_type(nr)	search for alarm types with output in individual lines
seek “net”::”obj_name”:”mp_type_name”.”state_name”=“fkt_name”	search with output in single lines
setpopup_size(x-pixel,y-pixel)	set size of pop-up program
set_control_text ("Text")	SIAS active X control text setting
set_title_popup(text)	set headline text in the popup window
simulate “net”::”obj_name”:”mp_name”.”state_name”=“fkt_name”	simulation of a control (inputs)
simulate_text ()	simulation of a control with text addition
simulate_value	set value to an I/O device variable
single_symbol_off	display all symbols
single_symbol_on	only display traced symbols
sms_notification(tel,message,web)	transfer of a SMS with notification
sound (“file”)	running of a wav-file
speak(message)	speaking a message (with notification)
stack_colour(R,G,B)	change of the colour of a program item in the stack
substring("String", startindex, length)	extract character from string
system_var typ Name [=Init]	global variable from ‘AUSBED’
tile	tiles WINMAG plus windows
tilepicture	tiles drawing into text and graphics
top	goto top of page with output via window
url (Adresse)	polling of an internet page
url_secure	polling of a page supplied by MultiAccess
url_secure(...)	...additionally a picture of a person may be shown
use_popup_alarm_parameter	use of alarm parameters in a popup program
user_group(“group_ID”)	function gives 1 if user member of group
var typ name [=Init]	defines a variable [with initial value]
voice_channel(text)	generating of a voice message by phone (with notification)
voice_notification(...)	transferring of a voice message to DTMF-phone with possible acknowledgement
wait(minutes)	minutes put into stack
waitforkey	wait for user input (enter/arrow)
while (condition) ... endwhile	execution loop until condition fulfilled
word_wrap_off	deactivates line return in the text window
word_wrap_on	activates line return in the text window

6.2.2 SIAS variables

In SIAS you can query and define a variety of variables. You can also create your own variables.

List of defined SIAS variables:

alarm_reason_name	alarm reason name
alarm_reason_nr	alarm reason number
alarm_type_name	alarm type name
alarm_type_nr	alarm type number
answer	answer string from reply/query
arrival	received date + time of message
day	current day in form dd.mm.yyyy
fkt_name	function value/name of the message
fkt_nr	function value/number of the message
found	number of found items in search/seek
hour	current hour
in_mandant	message belongs to logged-in mandantory
lite	identification code for operation mode lite
minute	current minute
mp_family_type_name	i/o device family type name of the message
mp_family_type_nr	i/o device family type number of the message
mp_id1	first identification number of the I/O device
mp_id2	second identification number of the I/O device
mp_name	i/o device - name of the message
mp_nr	i/o device number of the message
mp_text	i/o device additional text
mp_text1-5	i/o device specific text (1-5) are set from drivers
mp_type_name	i/o device type - name of the message
mp_type_nr	i/o device type - number of the message
net	network name of the message
net_nr	database ID of the network
obj_name	object name of the message
obj_nr	database ID of the object
obj_text	object text from object system configuration
obj_id_text	object-ID-text from object system configuration
obj_type_name	end device type name of the object
obj_type_nr	end device type number of the object
offline	identification for program state online/offline
picture_id	Picture ID
picture_name1-3	name of picture displayed via “picture”
priority	priority of the program
response	response to “gettime” in format date
second	current second
severity	severity from alarm reason definition
simulated	identification for programs with simulated start
state_name	state name of the message
state_nr	state number of the message
station_nr	station number - virtual address of the station (multi-station)
time	current time in format hh.mm.ss
user	user name logged-in
user_group(1..32)	user group allocation, 1 = member of the group
user_priority	control priority of the user logged-one
weekday	weekday in system format (Mon, Tue, Wed,...Sun)

Program internal variables:

In SIAS programs local variables of the types integer, string, date and time can be defined.
These variables are valid within a program.

The pertaining SIAS command is:

var typ name [= Initialization value]

Possible variable types are:
- string (max. 256 characters)
- integer
- time

Variables defined in a parent program can be used in a called program. Declaration of the origin of the variable must be stipulated.

Possible parent variable descriptions:

parent var typ name (= initialization value)	= variable from the program polled. The variable is defined with var in the program polled.
system var typ name (initialization value)	= variable defined in system. The variables are available as long as WINMAG is running, thus are global.

Global variables:
Within WINMAG, global variables are available to all SIAS programs. Variable values can be queried and edited.

There are two different types of global variables:

1. I/O device variables
Global variables can be created as I/O devices in the network configuration as “System Object Variables”. These variables have an I/O device format with 8 states having 16 function values each. A special characteristic of these I/O devices is that inputs (0-7) are automatically linked to the corresponding outputs. Thus if a user selects a particular control functio of the variable then the value of the variable is immediately set to the number of that control function.

2. System variables
Global variables defined in the SIAS triggering conditions.
These variables are defined with name and type in the “AUSBED” program via the SIAS command “var”.
In programs which use or edit variables, a variable is identified as global system variable via the SIAS command “system var”.
The value of the variable remains saved even if the” triggering condition” is interrupted (e.g. when changing to “system configuration”).

3. Alarm reason counter
All signals which constitute an alarm reason are automatically counted. The content of the variable can be read out with the SIAS command “alarm_reason_counter(alarm reason number)”.

6.2.3 SIAS-Konstanten

CRLF	Carriage return + line feed

6.2.4 SIAS operators

In SIAS “if conditions” you can you can compare arguments with different operators.

and	logical AND
or	logical OR
from...to	range query
( )	brackets
<	less than
>	greater than
=	equality
<=	less-or-equal
>=	greater-or-equal
<>	Unequal

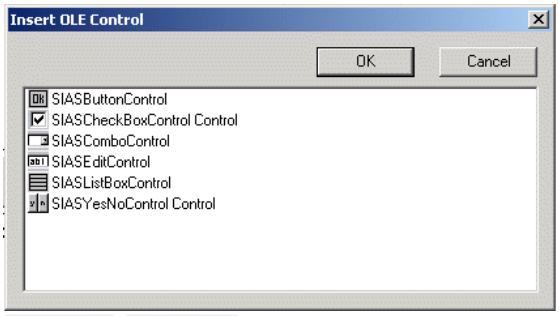
Example:

<<< if (alarm_reason_nr = 10 and user_priority >3000 and time from 08:00 to 17:00) then ...>>>
Executes actions if message relates to alarm reason 10, user priority is higher than 3000 and the time is between 08.00 and 17.00 hours.

6.2.5 SIAS controls

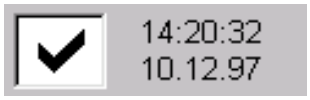
SIAS controls are components that can be integrated in the SIAS syntax. Generally, these are small user applications that can exchange data with the SIAS program.

After you have selected this option, you can select a component from the list of controls available.



Button

Button that can be displayed with any text or picture. A variable can be allocated to the button which takes the value of the text in the button when it has been clicked.
Variable type: string
Value: text of selected button

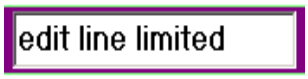


Checkbox

Checkbox that, when activated, displays the time when it was last checked. Once the checkbox has been checked the program continues executing.
Variable type integer
Value 0=not selected, 1=selected

Combo

Combo box that displays a list of options. You can select an option from this list.
Variable type: string
Value: selected text

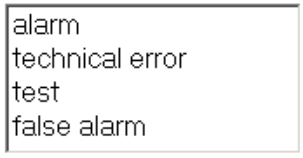


Edit

Input field where you can enter free text.
Variable type: string
Value: text

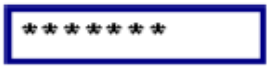
Edit multiline

Edit several lines
Variable type: string
Value: text



Listbox

List of alternative options from which the user can select one
Variable type: string
Value: selected text



PWDEdit

Input field where the input text is displayed as stars or vertical lines (XP)
Variable type: string
Value: input

Yes No

Decision control for user programs. The user can only select one of these buttons. A variable can be allocated which contains the text of the button chosen.
Variable type: string
Value: Text on selected button

All control selections can be transferred to WINMAG via variable data that can be individually evaluated.

You can configure controls via the “Properties” menu (e.g. fonts, highlighting colour, allocated texts, selection lists, click behaviour, ...). This can be found by right-clicking on the control.

Customized Controls

You can also create your own controls e.g. using Visual Basic or Visual C.
To enable WINMAG to use these controls,

- the name must include “SIAS” at arbitrary position, e.g. “SIASYesNoControl”
- they must be registered at the computer (regvr32, see also 7.2.2.3.1)
- the necessary DLL’s must be installed.

The communication between the control and the SIAS program occurs by predetermined variables.

Event:

‘SetVariable’	VariableName	as string
	Value	as string
‘OK’	without parameter	
in Code:	Raise	Event OK

For the action control a property-page should be created with the parameters:

‘Frozen’	boolean	Detrouble False
‘InputOK’	boolean	Detrouble False
Variablenname		

6.3 List of defined users

id	Name	Password	toolbar	Prio	Benutzergruppen													
0	user		3	0	1													
1	user switch detectors	switch	2	2000	1	2	3							10				
3	user switch	switch2	5	4000	1	2	3	4		6	7	8	9	10	11	12	13	
4	Supervisor	Supervisor	7431356	10000	1	2	3	4	5	6	7	8	9	10	11	12	13	31
6	Configuration	edit	7431356	7000	1	2	3	4	5	6	7	8	9	10	11	12	13	31
9	Autostart	start	4	2000	1	2				6			9					
10	edit SIAS	SIAS	0	0														
11	user Video	Video	2	3000	1											12		
12	user armed	armed	0	4000	1						7			10				
21	user stage 1		76348515	0	1													20
22	user stage 2	stage 2	76348515	2000	1	2	3				7			10	11			
23	user stage 2a	stage 2a	76348515	2000	1	2	3				7			10	11			
100	Administrator	liteSupervisor	100	32000	1	2	3	4	5	6	7	8	9	10	11	12	13	14
101	1	lite	101	3000	1													
102	2	lite	101	3000	1	2	3	4		6	7	8	9	10		12	13	

Only the users 100, 101 and 102 can be used in the “lite” option .

user groups_id	designation of group
1	Standard-user
2	lock authorization
3	delete user
4	delete area
5	administrator
6	disarm
7	arm
8	arm external
9	delete tamper / technics
10	switch on / off detector
11	reset FDC
12	control video
13	control access
31	stop network

As supply-software user data are generally known, you should establish your own list (name and password) of users.

6.4 System protocol types directory

For every protocol entry you can define:
- the output location
- monitor
- protocol printers 1, 2, 3
- in a protocol file
- time delay, i.e. how long the message is displayed

The “user-defined” messages are or great importance.
In the SIAS command “message”, you can define to which of the 10 possible numbers the message is to be allocated.
The message can be determined from the log as per the allocation executed.

You can edit all of the message texts. The variables included in the message play an important role.
Do not edit these variables!

Variables:	%1!	Number of the variable, 1, 2, 3	
	Typ	S!	Character string
		X!	Numerical
		\n	New line

ID	text	BS	DB	Print	time ms
0	No IGIS Interface card found ! \nNet : %1!s! \nPort : $%2!x!	Yes	Yes	Yes	90000
1	Multiple use of port address ! \nNet : %1!s! \nPort : $%2!x!	Yes	Yes	Yes	90000
2	data overflow: Data to IGIS-Network ! \nNet : %1!s! \nPort : $%2!x!	Yes	Yes	Yes	90000
3	data overflow: Data from IGIS-Network ! \nNet : %1!s! \nPort : $%2!x!	Yes	Yes	Yes	100000
4	Initialisation not successful ! \nDevice: %1!s! \nNet: %2!s!	Yes	Yes	Yes	100000
6	IGIS-Network still running ! \nNet : %1!s! \n stop it !	Yes	Yes	Yes	100000
7	IGIS-Network running ! \nNet : %1!s!	No	Yes	Yes	10000
8	IGIS-Net cannot be started ! \nNet : %1!s! \nPort : $%2!x!	Yes	Yes	Yes	100000
9	IGIS-Net not running ! \nnet : %1!s!	Yes	Yes	Yes	100000
10	IGIS-Net cannot be stopped ! \nNet : %1!s! \nPort : $%2!x!	Yes	Yes	Yes	100000
11	Troube with device ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	30000
12	Device is running ! \ndevice : %1!s! \nnet : %2!s!	No	Yes	Yes	10000
13	Cannot use source-ID ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	10000
14	Device initialized ! \ndevice : %1!s! \nnet : %2!s!	No	Yes	Yes	10000
15	Order to device could not be executed ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	20000
16	Order to device is unknown ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	20000
17	Wrong password ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	20000
18	value out of area ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	20000
19	Wrong address ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	100000
20	Login error \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	100000
21	General error ! \ndevice : %1!s! \nnet: %2!s!	Yes	Yes	Yes	10000
22	trouble logout device ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	10000
23	trouble with address ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	10000

ID	text	BS	DB	Print	time ms
24	Wrong Source_Id ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	10000
25	Error saving parameters ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	30000
26	access denied !\n unknown user !	Yes	Yes	Yes	10000
27	access denied !\n unknown password !	Yes	Yes	Yes	10000
28	printing on detrouble graphic printer impossible	Yes	Yes	Yes	10000
29	no detrouble graphic printer selected	Yes	Yes	Yes	10000
30	initialization deleted ! \ndevice : %1!s! \nnet : %2!s!	Yes	Yes	Yes	10000
31	Login: %1!s!	No	Yes	Yes	10000
32	Autologin %1!s!	No	Yes	Yes	10000
33	Logout	No	Yes	Yes	10000
34	Autologout	No	Yes	Yes	10000
35	System start	No	Yes	Yes	10000
36	Exit WINMAG	No	Yes	Yes	10000
37	Start of program (%1!s!)\ntype: %2!s!\n%3!s!::%4!s!:%5!s!.%6!s!=%7!s!	No	Yes	Yes	10000
38	program registrated (%1!s!)	No	Yes	Yes	10000
39	program finished (%1!s!)	No	Yes	Yes	10000
40	Start system configuration	No	Yes	Yes	10000
41	End system configuration	No	Yes	Yes	10000
42	Steuerung %6!s! \n%1!s!::%2!s!:%3!s!.%4!s!=%5!s	No	Yes	Yes	10000
43	Program acknowledged (%1!s!)	No	Yes	Yes	5000
44	Program in work (%1!s!)	No	Yes	Yes	5000
45	Programm in stack (%1!s!)	No	Yes	Yes	5000
46	Unknown IGIS-error ! errorcode: hex %1!x! \nobject : %2!s! \nnet : %3!s!	Yes	Yes	Yes	10000
47	IGIS-Loop not running ! \nSubloop : %1!s!	Yes	Yes	Yes	100000
48	IGIS-Loop partial failure ! \nSubloop : %1!s!	No	Yes	Yes	100000
49	IGIS-Loop partial failure right loop ! \nSubloop : %1!s!	No	Yes	Yes	100000
50	IGIS-Loop partial failure left loop ! \nSubloop : %1!s!	No	Yes	Yes	100000
51	IGIS-Loop Subloop failure ! \nSubloop : %1!s!	Yes	Yes	Yes	100000
52	Master-Database has changed.\nDatabase must be reloaded.	No	Yes	Yes	10000
53	compare with master-database started	No	Yes	Yes	5000
54	compare with master-database not successful	No	Yes	Yes	5000
55	compare with master-database successful	No	Yes	Yes	5000
56	Alarm reason: %1!s! changed	No	Yes	Yes	5000
57	Alarm type: %1!s! changed	Yes	Yes	Yes	5000
58	Protocol printer%1!s! deleted	No	Yes	Yes	5000
59	Graphic printer%1!s! deleted	No	Yes	Yes	5000

ID	text	BS	DB	Print	time ms
60	Protocol printer%1!s! changed	No	Yes	Yes	5000
61	Graphfic printer%1!s! changed	No	Yes	Yes	5000
62	general options changed	No	Yes	Yes	5000
63	Message text: %1!s! changed to:\n%2!s!	No	Yes	Yes	5000
64	I/O device: %1!s!::%2!s!:%3!s! inserted	No	Yes	Yes	5000
65	Object: %1!s!::%2!s! inserted	No	Yes	Yes	5000
66	Net: %1!s! inserted	No	Yes	Yes	5000
67	I/O device %1!s!::%2!s!:%3!s! changed	No	Yes	Yes	5000
68	Object %1!s!::%2!s! changed	No	Yes	Yes	5000
69	Net %1!s! changed	No	Yes	Yes	5000
70	calendar changed	No	Yes	Yes	5000
71	Variable changed	No	Yes	Yes	5000
72	I/O device: %1!s!::%2!s!:%3!s! inserted	No	Yes	Yes	5000
73	I/O device: %1!s!::%2!s!:%3!s! moved	No	Yes	Yes	5000
74	Object: %1!s!::%2!s! moved	No	Yes	Yes	5000
75	Net: %1!s! moved	No	Yes	Yes	5000
76	I/O device: %1!s!::%2!s!:%3!s! deleted	No	Yes	Yes	5000
77	Object: %1!s!::%2!s! deleted	No	Yes	Yes	5000
78	Net: %1!s! deleted	No	Yes	Yes	5000
79	User: %1!s! changed	No	Yes	Yes	5000
80	User: %1!s! deleted	No	Yes	Yes	5000
81	User: %1!s! inserted	No	Yes	Yes	5000
82	ToolBar-ID: %1!s! changed	No	Yes	Yes	5000
83	ToolBar-ID: %1!s! deleted	No	Yes	Yes	5000
84	ToolBar-ID: %1!s! inserted	No	Yes	Yes	5000
85	I/O devicetype: %1!s! changed	No	Yes	Yes	5000
86	I/O devicetype: %1!s! deleted	No	Yes	Yes	5000
87	I/O devicetype: %1!s! copied	No	Yes	Yes	5000
88	surface options changed	No	Yes	Yes	5000
89	event protocol changed	No	Yes	Yes	5000
90	multistation %1!s! added	No	Yes	Yes	5000
91	distributed station %1!s! added	No	Yes	Yes	5000
92	station %1!s! changed	No	Yes	Yes	5000
93	station %1!s! deleted	No	Yes	Yes	5000
94	net assignment: %1!s! to station: %2!s! added	No	Yes	Yes	5000
95	net assignment: %1!s! to station: %2!s! changed	No	Yes	Yes	5000

ID	text	BS	DB	Print	time ms
96	error in SIAS-program %1!s!: please compile the program again	Yes	Yes	Yes	0
97	Externe Automation: %1!s!	Yes	Yes	Yes	5000
500	user defined message 1: %1!s!	Yes	Yes	Yes	5000
501	user defined message 2: %1!s!	Yes	Yes	Yes	5000
502	user defined message 3: %1!s!	Yes	Yes	Yes	5000
503	user defined message 4: %1!s!	Yes	Yes	Yes	5000
504	user defined message 5: %1!s!	Yes	Yes	Yes	5000
505	user defined message 6: %1!s!	Yes	Yes	Yes	5000
506	user defined message 7: %1!s!	Yes	Yes	Yes	5000
507	user defined message 8: %1!s!	Yes	Yes	Yes	5000
508	user defined message 9: %1!s!	Yes	Yes	Yes	5000
509	user defined message 10: %1!s!	Yes	Yes	Yes	5000
1000	unknown error	Yes	Yes	Yes	10000

7. Notes

Honeywell Security Deutschland

Novar GmbH

Johannes-Mauthe-Straße 14

D-72458 Albstadt

www.honeywell.com/security/de

P03126-05-0G0-03
2008-03-31

P03126-05-0G0-03