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### 1. General

The Gira HomeServer is a gateway for the visualization and control of the entire electrical installation of buildings equipped with the EIB Instabus system. These can be both private residencies and company buildings.

The EIB functions can be controlled both internally and externally at all times and from everywhere. Control is via the most up-to-date communication media such as, e.g. PC, Web Pad, WAP cellular phone, PDA, TV with an internet connection or devices equipped with an internet browser. Faults, measured values and actuators or sensor states can be transmitted by SMS and E-mail. Acknowledgement is by means of WAP cellular phone, EIB or telephone.

A graphical user interface is included for ease of use: the states of buildings or devices are visualized by icons and texts that can be positioned freely on the interface. Pictures and menu structures can be stored individually for each user.

Visualization on the WAP cellular phone is via a freely-definable menu structure and depends on the user groups. The Gira HomeServer can be connected to an Ethernet network. Furthermore, network cameras can be connected via a network, allowing pictures within a visualization to be shown. The pictures can even be recorded. All archived data and pictures can be transmitted by E-mail and in part by FTP.

#### 1.1 Exclusion of liability

The details, data, values etc. contained in this document can be changed without prior notice. The figures/pictures are also subject to change.

#### **Subject to change without prior notice!**



#### **Note: Updates on the Gira home page.**

As the software for the HomeServer is being continually developed and updated, the details in this manual may also no longer be completely up to date.

The most recent information on the product is always on the Gira home page:

<http://www.gira.de>

Current software updates and documentation on your product is located at:

<http://www.download.gira.de>.

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**1.2 Scope of delivery**

- 1 x Gira HomeServer
- 1 x external power supply unit
- 1 x mains cable for the external power supply unit
- 1 x ISDN cable
- 1 x cable for commissioning
- 1 x CD HomeServer Expert (includes additional documentation)
- 4 x rubber feet for the device
- 1 x commissioning manual
- 1 x registration form

**1.3 Contents of the HomeServer Expert CD**

In addition to the HomeServer Expert commissioning software, some auxiliary programs are also included on the supplied CD (e.g. client program) as well as documentation on various topics (e.g. installation of the client program, firmware update, etc.). You can view the table of contents of the CD by calling up the index.htm file.

### 1.4 System requirements

A functioning EIB system is required in order to operate the HomeServer. Communication with the EIB devices as well as monitoring of all events is via the EIB.

The HomeServer is programmed using the supplied HomeServer Expert software. This can be operated on a commercially available PC running the Microsoft® Windows operating system (Windows 95 to XP).

The operation and visualization of the device (not for WAP) can be carried out by the user via the supplied user interface. A web or WAP browser or the client program (which is also supplied on delivery) is used for this.

### 1.5 Registration

Please take the time to fill in the enclosed registration form. Only registered users have the possibility of accessing the portal page or of receiving a new password to access the portal page if the old password has been forgotten. As a registered user, you will also receive technical support and will be regularly informed regarding downloads, updates (further developments), additional modules and training offers.

### 1.6 Updates

Updates remedy technical difficulties (bug-fixing) but also close security gaps. As soon as your HomeServer communicates with the internet, you are subject to a possible attack from a hacker. As the possibilities of such attacks are continually changing, updates for the HomeServer may also be continually required in order to provide permanent protection. Please therefore look at the Gira home page at regular intervals to see whether there is an update for the HomeServer firmware.

Please note that Gira neither accepts legal responsibility nor any warranty for disadvantages or damages caused either by updated or non-updated firmware.



#### **Attention: Always install the updates!**

Please always download firmware updates from the Gira home page and install them on your HomeServer, even if you are not registered! Observe the appropriate installation instructions. The installation instructions can be found either in the internet on the Gira home page or on the supplied HomeServer Expert CD.



Fig 1.1: Controls and monitoring elements on the front side of the HomeServer.

Controls and monitoring elements on the front side of the HomeServer:

- (1) On/Off button
- (2) Reset button: The HomeServer is restarted without interrupting the power.
- Green operating LED: Lights when the device is switched on.
- Red LED: Disabled.



**Note: Automatic restart of the HomeServer.**

The HomeServer automatically restarts after the power has been interrupted even if it has been switched off.



**Note: Switching on the HomeServer using the On/Off button.**

If the HomeServer has been switched on using the On/Off button then three double-beeps are sounded after approx. 20 seconds. The HomeServer is only ready for operation after these beeps.

This should particularly be observed during data transfer from the Expert software as such transfer is only possible after the three double-beeps have been issued.

Readiness of operation of the HomeServer is also signalized by three double-beeps after programming and a firmware update via the commissioning cable.





Fig 1.2: Interfaces on the rear side of the HomeServer.

Interfaces on the rear side of the HomeServer:

- (1) Mains connection 24 V (connection for power supply unit)
- (2) RS232 interface for EIB and programming
- (3) Network connection for RJ45 CAT5 Ethernet TCP/IP
- (4) ISDN interface, EURO ISDN DSS1 for RJ45 ISDN cable



**Note: LED at the network connection.**

There is one green LED and one yellow LED at the network connection. Both LEDs light or flash when there is a network connection to the HomeServer. This is irrespective of whether the HomeServer is switched on and has a valid IP address.



**Note: The other interfaces are disabled.**

All interfaces which are visible but that are not described here are disabled.

**1.7 Range of application**

The HomeServer is installed within buildings with "normal" humidity and room temperature. Use, e.g. in damp cellars may impair the correct functioning of the device.

The device is used for monitoring, visualization and control of EIB systems. The supplied software may only be used together with the HomeServer.

Any other use of the device and the software is not permitted. Gira neither accepts legal responsibility nor any warranty whatsoever for faults and damages caused by improper use of the device or the supplied software.

## 2. Erecting and connecting the HomeServer

To put the HomeServer 2 Net into operation, 2 basic topics must be considered:

- erecting and connecting the HomeServer
- functions test and commissioning

In this chapter you will learn how to erect the HomeServer and to connect it in order to access it as a user.



**Attention: Commissioning must only be carried out by skilled electricians!**

The connection and commissioning of the HomeServer may only be carried out by electrical personnel who have been trained for this purpose.



**Attention: Check the current software version before installing!**

Always check the current software version of the firmware and the HomeServer Expert before installing the HomeServer and starting it up.

If necessary, download the latest data from the Gira home page.

Address: <http://download.gira.de>

### 2.1 Basic configuration of the HomeServer in the sample project

The HomeServer is already equipped with a sample project on delivery. Due to this sample project, the HomeServer has an IP address and a net mask. In addition, four users have already been created. You can log into the HomeServer using their login data. The user interface is designed for use at a monitor resolution of 1024 x 768. The project has been designed for access via the local network. Access via the internet is not planned but can be quickly setup if required.

Details regarding the users and passwords stored in the sample project, and which lists can be requested, are contained in "Functions test via internet browser" on Page 15.

## 2.2 Erecting the HomeServer

The HomeServer may only be erected inside of buildings. It has not been designed for mobile operation; neither is such operation permitted.

Four rubber feet with sticky surfaces are included in the delivery. To erect the HomeServer, first attach the sticky feet to the underside of the device. To do this, peel off the protective strip from the sticky side of the feet and stick each of the feet onto a corner on the underside of the device.

Now place the HomeServer at a central location so that the connections to the power supply, the network and the EIB can be made without any problems. This location should also be "quiet" so that the device is not in the way of other work and one of its connections is unintentionally interrupted.

**Note: Selecting the place of erection.**

Select a place of erection that ensures that other work at this location does not unintentionally interrupt one of the connections to the power supply, the network or the EIB.

**Note: Sufficient air circulation.**

To guarantee continuous correct function of the HomeServer, you should select a location that allows for sufficient air circulation around the device, therefore allowing it to be operated at room temperature.

Please note that no objects may be stored on the device or the power supply unit. Furthermore, no flammable objects may be in the immediate vicinity of the device or the power supply unit.

### 2.3 Connecting the HomeServer to a network

To incorporate the HomeServer into an already existing network, you require a network distributor as well as a network cable. Please note that the network distributor and the network cable are **not** included in the scope of the delivery.

You establish a connection between the HomeServer and the network by, e.g. plugging in one end of the network cable at the network connection of the HomeServer and then connecting the other end with the network distributor. Please note that the HomeServer already has its own IP address as well as a netmask on delivery:

- IP address 192.168.0.11
- Network mask: 255.0.0.0



**Note: IP address already assigned within the network.**

If the IP address of the sample project for the HomeServer is already assigned in an existing network then this must be changed in the sample project (which is installed with every HomeServer Expert).

If the IP address is already assigned in the network then please contact your system administrator to receive a free address.



**Note: Change of IP address in the HomeServer.**

If the HomeServer has already been operated in a network with the IP address set at the factory, but this address is later changed, then it may happen that the HomeServer is initially no longer recognized. In this case, switch off the HomeServer for a short time and then switch it back on.

Please note that it may take a few minutes until the entire network recognizes the new IP address. This depends on the behavior of the individual network participants (e.g. PC, router, switch or hub).

How to access the user interface after connecting the HomeServer to the local network is described under "Functions test via internet browser" on Page 15 or in the operating instructions for the client program (available in the internet under <http://download.gira.de> or on the HomeServer Expert CD).

## 2.4 Connecting the HomeServer directly to a PC

You can also connect the HomeServer directly with your commissioning PC via LAN if it has a network connection. To do this, use a twisted coil Cat. 5e network cable (e.g. cross-over cable Cat. 5e with 2 RJ-45 plugs, Article Nos. 1215 00 to 1217 00 or 1228 00). The cable is **not** included in the scope of the delivery.



**Note: No network connection via the RS232 interface.**

The direct network connection from the PC to the HomeServer is made via the respective network connections (RJ45 CAT5 Ethernet TCP/IP) of both devices. A cross-over cable, which is **not** included in the scope of delivery, is used for this.

The RS232 interface of the HomeServer is solely used for programming or connecting to the EIB. For programming, connect the commissioning PC to the HomeServer using the supplied commissioning cable.

The HomeServer already has its own IP address and network mask on delivery:

- IP address 192.168.0.11
- Network mask: 255.0.0.0

Please note that the PC that you connect directly to the HomeServer must have a different IP address.

How to access the user interface of the HomeServer after you have connected this with your PC directly via the network connection is described under "Functions test via internet browser" on Page 15 or in the operating instructions of the client program (available in internet or on the HomeServer Expert CD).

## 2.5 Connecting the HomeServer via ISDN

To connect the HomeServer to your ISDN system, use the supplied ISDN cable. Connect the ISDN interface of the HomeServer with the EURO-ISDN S-null (S0) input of your ISDN system.

The length of cable of the connecting line must correspond to the ISDN specifications. Additional information regarding this is available, e.g. from Telekom in the internet under <http://telekom.de>.

## 2.6 Connecting the HomeServer for programming

The purpose of the previously described ways of connecting the HomeServers was to allow a simple and fast user access to the device. You can therefore test the functionality when first putting the device into operation.

However, if the HomeServer is to be used professionally then it must be prepared (programmed) for its field of application. This programming is carried out via the HomeServer Expert software (see "HomeServer Expert" on Page 29). You install the software on your commissioning PC and can then directly connect this with the HomeServer or via a network. The programmed data are then transferred from the commissioning PC to the HomeServer.

To connect the commissioning PC for data transfer from the Expert Software, proceed as follows:

- Disconnect the HomeServer from the EIB (if it is already connected there).
- Connect one end of the supplied commissioning cable to a COM interface on your PC.
- Connect the other end of the commissioning cable to the RS232 interface of the HomeServer.

You have now established the connection to the data transfer. The on-screen help in the HomeServer Expert explains how to transfer data from the Expert software.



**Note: Programming via the RS232 interface.**

The RS232 interface of the HomeServer is solely used for programming or connecting to the EIB. For programming, connect the commissioning PC to the HomeServer using the supplied commissioning cable.

The direct network connection from the PC to the HomeServer is made via the respective network connections (RJ45 CAT5 Ethernet TCP/IP) of both devices. A cross-over cable, which is **not** included in the scope of delivery, is used for this.

## 2.7 Connecting the HomeServer to the EIB

The HomeServer can be connected to the Instabus EIB system via the following EIB devices (not included in the scope of delivery):

- Instabus bus coupler UP 2 (Article No. 0645 00)
- Instabus data interface FT 1.2 (Article No. 0504 xx)
- Instabus RS232 access line (Article No. 0645 00)

New versions of the HomeServer firmware may also support additional interfaces if required.



### **Note: EIB programming via iETS server.**

If the HomeServer is also to act as an iETS server then this can be programmed via the EIB. This is possible for HomeServers from firmware version 2.1.

## 2.8 Connecting the HomeServer to the power supply

Connect the HomeServer to the power supply as follows:

- Connect the mains cable for the power unit with the external power supply unit.
- Connect the power supply unit with the interface to the power supply at the HomeServer.
- Connect the power supply unit to the power supply.



### **Attention: The HomeServer starts immediately when connected to the power supply!**

The HomeServer starts immediately after the device has been connected with the power supply. It can then be switched off after approx. 10 seconds by the On/Off button on the front side of the device.



### **Note: Green LED at the power supply unit.**

There is a green LED on the top side of the power supply unit. If the LED lights permanently then the power supply unit is ready for operation.



### **Attention: Carry out lightning protection.**

To avoid damages to the device, we strongly recommend that you secure the HomeServer against over-voltages at the ISDN connection, the network connection, in the power line as well as in the EIB power input, by using appropriate protective equipment.



### 3. Functions test and commissioning

To put the HomeServer into operation, 2 basic topics must be considered:

- erecting and connecting the HomeServer
- functions test and commissioning

In this chapter you will learn how to carry out a functions test and how to put the HomeServer into operation.



**Attention: Commissioning must only be carried out by skilled electricians!**

The connection and commissioning of the HomeServer may only be carried out by electrical personnel who have been trained for this purpose.

#### 3.1 Functions test via internet browser

The HomeServer is already equipped with a sample project on delivery. Three users are created in this sample project. You can log into the HomeServer using their login data. The user interface is designed for use at a monitor resolution of 1024 x 768. The project has been designed for access via the local network. Access via the internet is not planned but can be quickly setup if required.

The following users are stored in the sample project:

User name	Password in browser or in the client program
admin	admin
u1	u1
u2	u2
u3	u3

All users stored in the sample project have administrator rights.

Via the user interface, you can access a visualization, a user menu (timer, calendar of public holidays, calendar of holidays, message list, diagram of measured values) and some lists from within the internet browser or client program.

To be able to access the user interface of the HomeServer, call up the following page via the input line of the internet browser

**http://HS-ip-Adresse/hs**

Then enter one of the above-mentioned combinations of user name and password to reach the user interface.

To access lists, enter the following in the input line of the internet browser:

**http://HS-ip-Adresse/hslist**

Enter the stipulated IP address of the HomeServer (192.168.0.11) under HS-ip-Adresse (if you have not already changed it).

The following lists can be called up:

hslist	List name
login	login protocol
debug	debug page
t1	temperature list
m1	messages

Access the user interface of the HomeServer as a user to carry out the functions test. The requirement for this is that you have connected the HomeServer via its network-connection to a network or directly to the commissioning PC using a cross-over cable. You call up the user interface via an internet browser.

You can access the user interface of the HomeServer via an internet browser as follows:

- Connect the HomeServer via its network connection either with the local network or directly with the commissioning PC (see "Connecting the HomeServer to a network" on Page 11).
- Connect the HomeServer to the power supply (see "Connecting the HomeServer to the power supply" on Page 14).
- Switch the HomeServer on if required.
- Start your internet browser on your commissioning PC or an a PC connected to a local network.

- Enter **http://192.168.0.11/hs** in the address line of your browser. The numerals in the address represent an IP address of the HomeServer. The login screen appears in the browser window.

**Note: Preset IP address**

The number combination that you enter in the address line is the IP address of the HomeServer. If you have changed the IP address assigned by the sample project in the HomeServer then you must enter the changed address at this location.

- Enter one of the preset users (e.g. u1) as well as the corresponding password (e.g. u1) in the login screen. In **Refresh**, select HTML (dynamic).

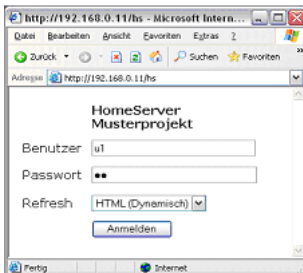


Fig 3.1: Login screen in the internet browser.

- Click on **Anmelden** (login). The HomeServers user interface opens

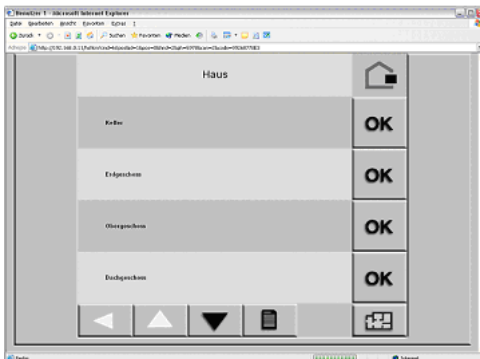


Fig 3.2: User interface of the HomeServer.

You can now view all areas of the sample project that are accessible to the selected used (e.g. u1).



Fig 3.3: Navigation menu of the user interface.

You can switch between menu view (1) und the visualization (2) via the navigation menu.

### 3.2 Functions test via the HomeServer client program

You can also access the user interface of the HomeServer via the supplied client program. Access via the client program is described in the corresponding operating instructions located on the HomeServer Expert CD, as well as at <http://www.download.gira.de> in the internet.

### 3.3 Commissioning

After you have completed the functions test, you can start-up the HomeServer for a new project. The following description refers to starting up using a serial connection between the commissioning PC and the HomeServer. After first putting into operation, the HomeServer can also be programmed via a LAN connection.

Start-up should be carried out as follows:

- Install the HomeServer Expert software onto the commissioning PC (see "Installing the HomeServer Expert" on Page 29).
- Create a new project in the HomeServer Expert software.
- In the Expert software, program the tasks and functions that the HomeServer is to be used for in your project. For procedural instructions and other support, please use the on-screen help within the program.
- Disconnect the HomeServer from the power supply (if required).
- Disconnect the HomeServer from the EIB (if required).
- Connect the HomeServer to the commissioning PC using the supplied commissioning cable (see "Connecting the HomeServer for programming" on Page 13).
- Re-connect the HomeServer to the power supply (see "Connecting the HomeServer to the power supply" on Page 14).
- Switch on the HomeServer (if required).
- Transfer the data from the Expert software from your commissioning PC to the HomeServer.
- Disconnect the HomeServer from the commissioning PC.
- Connect the HomeServer to the EIB, the local network, etc. (see "Erecting and connecting the HomeServer" on Page 9).



## 4. Portal



**Note: Portal is only available in Germany.**

The HomeServer-Portal is only available in Germany. The access from foreign countries depends on rights and system settings of the internet-provider. If there is any need for HomeServer access by using a portal you should use an international portal like [dyndns.org](http://dyndns.org).

An indirect way of being able to access the user interface of the HomeServer via the internet or WAP is provided by the Gira HomeServer - Portal.

The required basic settings have already been stored on every HomeServer delivered by Gira, thereby allowing direct access to the user interface of the sample project stored in the HomeServer.

Use the following data to dial into the portal:

- **Password** (password): the serial number of your HomeServer (12-digit). Enter the password in upper case.
- **HomeServer-Name** (HomeServer name): the serial number of your HomeServer (12-digit).

### 4.1 Establish connection to the portal



**Note: No data need be changed when accessing for the first time.**

You do not need to change or add any settings when accessing the portal for the first time.

Your HomeServer has been preset in such a way that you are able to log into the portal by entering the serial number as the password and the HomeServer name.

However, please note that the HomeServer must be connected to the internet and that the settings in the project must be made to allow access to the portal.

If you have stored your own project in the HomeServer Expert and you want to allow the users to access the HomeServer via the internet portal then you must observe the following points:

- The HomeServer must have an internet access.
- The HomeServer must be setup for access to the portal in the HomeServer Expert.
- The information stored in the HomeServer Expert must be transferred to the HomeServer.

The settings for the internet access as well as access to the portal are made in the HomeServer Expert under **Projekt/Netzwerk/Internet-Zugang** (project/network/internet access). Here, you can establish an

- ISDN dial connection on request (portal)
- permanent ISDN dial connection (portal)
- router connection on request (portal)
- permanent router connection (portal).

Additional information is provided in the on-screen help in the HomeServer Expert.

You can establish a connection between your PC (e.g. the commissioning PC) and the portal as follows when the HomeServer is connected to the internet:

- Establish a connection to the internet via your PC.
- Start your internet browser.
- Enter <http://homeserver.gira.de> in the address line of your browser. A start page appears (see Figure 4.1). If you want to access via WAP then enter the following line: <http://homeserver.gira.de/hswap.wml>.

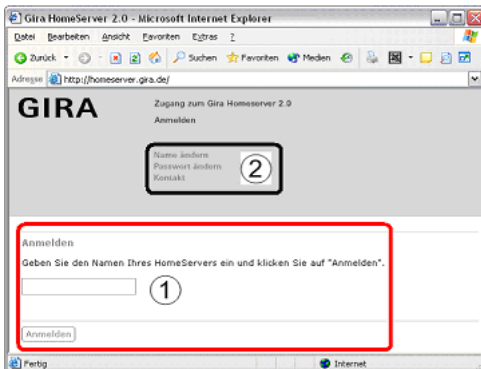


Fig 4.1: Start page of the portal (access via http/HTML).

- In the Anmelden (login) area (1), enter the name of your HomeServer. Please note that you must also enter the serial number of your HomeServer if you are logging in for the first time.
- Click on Anmelden (login). The current IP address of the HomeServer is shown in the Anmelden (login) area (see Figure 4.2).



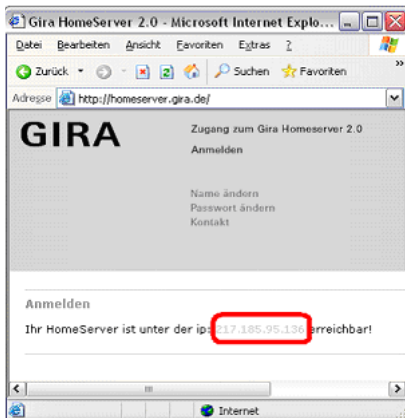


Fig 4.2: Displaying the current IP address of the HomeServer.

- Click on the IP address. The portal login screen opens.

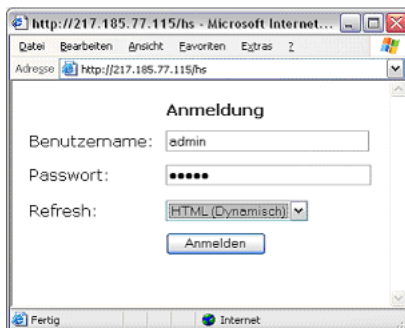


Fig 4.3: Login screen of the HomeServer portal.

- Enter your user name and password into the login screen of the HomeServer portal. When first accessing the HomeServer via the portal, simply use one of the user names stored in the sample project and the corresponding password (see "Basic configuration of the HomeServer in the sample project" on Page 9).
- Click on **Anmelden** (login).

If all presettings in the HomeServer are correct and if you have entered the correct login data, then you now have access to the menu items of the portal start page (see Figure 4.4).

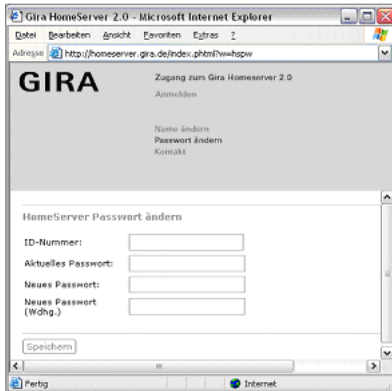


Fig 4.4: Start page menu after login.

You can now select whether you

- want to access the HomeServer (access to Gira HomeServer)
- change the name of the HomeServer (change name)
- change the password (change password)
- want to have your password sent to you, perhaps because you have forgotten it ("Kontakt") (contact).

If your login was unsuccessful then this may be due to the settings in the HomeServer Expert ( see "HomeServer Expert" on Page 29).

## 4.2 Change the name of the HomeServer at the portal

You can change the name of the HomeServer in the portal as follows:

- Log in to the portal so that the start page opens and you have access to the main menu.
- Click on **Name ändern** (change name). An input screen appears in which you can make several entries (see Figure 4.5).

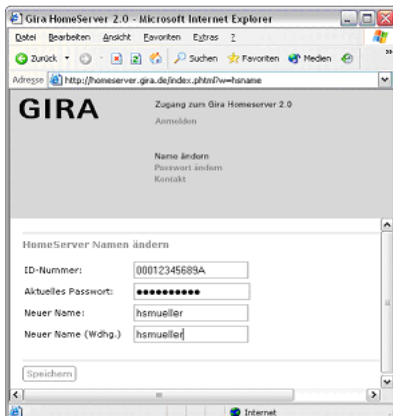


Fig 4.5: Input screen for changing the name.

- Enter the serial number of the HomeServer next to **ID-Nummer** (ID number).
- Enter the password next to **Aktuelles Passwort** (current password). This is the serial number of the device if you are accessing the portal for the first time.
- Enter the new name for the HomeServer next to **Neuer Name** (new name).
- Repeat the new name next to **Neuer Name (Wdhg.)** (repeat new name).
- Click on **Speichern** (save). Your data are saved. The next time you log in, you can now use the new name of the HomeServer.

### 4.3 Changing the password

You can change the password for access to the HomeServer via the portal as follows:

- Log in to the portal so that the start page opens and you have access to the main menu.
- Click on **Passwort ändern** (change password). An input screen appears in which you can make several entries (see Figure 4.6).

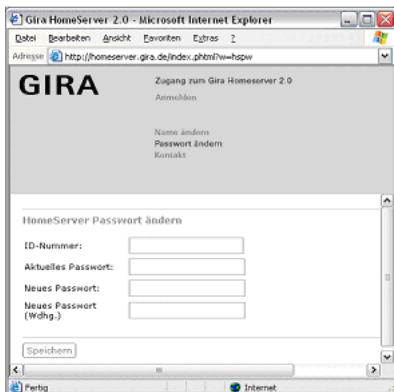


Fig 4.6: Input screen for changing the password.

- Enter the serial number of the HomeServer next to **ID-Nummer** (ID number).
- Enter the password next to **Aktuelles Passwort** (current password). This is the serial number of the device if you are accessing the portal for the first time.
- Repeat the new password next to **Neues Passwort (Wdhg.)** (repeat new password).
- Click on **Speichern** (save). Your data are saved. The next time you log in, you can now use the new password for the HomeServer.

If you have forgotten your password, then you can have it mailed to you by clicking on **Kontakt** (contact).

#### 4.4 Login unsuccessful: What must be done?

If your login at the HomeServer portal is unsuccessful then this may have one of the following reasons, depending on your internet access.

##### 4.4.1 Message "HomeServer ist OFFLINE" ("HomeServer is OFFLINE") when using ISDN

If you are using ISDN access for the HomeServer and the message "HomeServer ist OFFLINE" ("HomeServer is OFFLINE") appears then please check the following settings:

- In the HomeServer Expert: The HomeServer does not have full access for the ISDN connection.
- In the HomeServer Expert: You require a/no zero to access the exchange.
- In the HomeServer Expert: The internet provider can not be reached (e.g. incorrect number entered, an incorrect user name or an incorrect password).
- In the HomeServer Expert: The portal address is entered incorrectly.
- The password for the portal has been entered incorrectly. Check which password you have stored in the HomeServer and in the portal.
- The IP port of the HomeServer has been entered incorrectly.

##### 4.4.2 Message "HomeServer ist OFFLINE" ("HomeServer is OFFLINE") when using a router

If you are using a router for the internet connection of the HomeServer and the message "HomeServer ist OFFLINE" ("HomeServer is OFFLINE") appears then please check the following settings:

- In the HomeServer Expert: The IP address of the router or of the DNS server is entered incorrectly.
- The IP address of the router can not be reached by the HomeServer.
- The internet provider can not be reached (e.g. incorrect number entered, an incorrect user name or an incorrect password).
- The password for the portal has been entered incorrectly. Check which password you have stored in the HomeServer and in the portal.

#### **4.4.3 Message "HomeServer ist UNBEKANNT" ("HomeServer is UNKNOWN") when using a router or ISDN connection**

If you are using a router or ISDN connection to use the internet for the HomeServer and the message "HomeServer ist UNBEKANNT" ("HomeServer is UNKNOWN") appears then please check the following settings:

- The name of the HomeServer is incorrect or you have changed it at the portal. Try to enter the correct name.

## 5. HomeServer Expert

In this chapter you will learn how the HomeServer can be put into operation using the Expert software.



**Attention: Commissioning must only be carried out by skilled electricians!**

The connection and commissioning of the HomeServer may only be carried out by electrical personnel who have been trained for this purpose.

The HomeServer is configured and, e.g. the user interface and the visualization are created in the HomeServer Expert. These data must be transmitted to the HomeServer.

Transfer can be made via the commissioning PC to the HomeServer via

- the commissioning cable (direct connection from the PC to the HomeServer)
- the network
- ISDN direct dial in
- the internet.

The individual ways of connecting are described under "Erecting and connecting the HomeServer" on Page 9.

### 5.1 Installing the HomeServer Expert

A CD-Rom containing the commissioning program of the HomeServer Expert is supplied with the HomeServer. This software must be installed onto your commissioning PC.



**Attention: Check the current software version before installing!**

Always check the current software version of the firmware and the HomeServer Expert before installing the HomeServer and starting it up.

If necessary, download the latest data from the Gira home page.

Address: <http://www.download.gira.de>

Install the HomeServer Expert as follows:

- Insert the CD-Rom into the CD drive of your commissioning PC.
- Select the executable file **setup.exe** on the CD from directory **\expl**. The installation program is started.
- Follow the instructions for the installation program.



**Note: You require an internet browser for the HomeServer Expert.**

Working with the HomeServer Expert presupposes that a current internet browser is installed. Please therefore make sure that a current browser is installed on the commissioning PC.

When installing the Expert software, a sample project is automatically created (musterxxx.hs3).

To install the HomeServer correctly for your customers, we recommend you create a new project. Here, enter all data systematically and in a structured manner that the HomeServer will require for its later tasks.

Start the HomeServer Expert after successful installation as follows: Under Windows, select **Start/Programme/Gira-Software/HomeServer 2/Experte** (Start/Program/Gira Software/HomeServer 2/Expert). Alternatively, you can also start the program directly from the standard directory:

**C:\programme\gira\Hs2\hs2exp2\experte.exe.**



**Note: Start the HomeServer Expert from the standard directory.**

Both of the possibilities for starting the HomeServer Expert explained here relate to the standard installation of the program. If, e.g. you have selected another drive when installing the program then this is taken into consideration on start-up.



## 5.2 Changing the stipulated IP address

Normally you do not have to make changes to the HomeServer Expert for the functions test or when first putting into operation. Due to the sample project stored in the HomeServer, these actions can be carried out relatively simply.

If, however, you want to incorporate the HomeServer e.g. into an existing network, in which the preset IP address 192.168.0.11 has already been assigned to another network participant, then the IP address of the HomeServer can not be subsequently changed.



### Note: Changing the network settings.

Changes to the network settings of the HomeServer or of your local network must always be made after consulting your network administrator and may have to be carried out by him/her if necessary.

You can subsequently change the IP address in the sample project as follows:

- Open the sample project in the HomeServer Expert (musterxxx.hs3).
- Select **Project**. The project settings of the sample project are displayed.
- Select the **Network** tab.

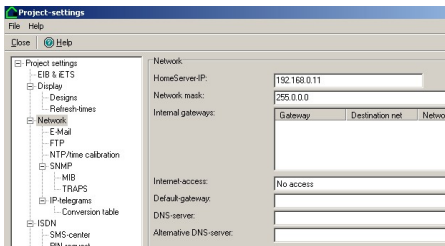


Fig 5.1: Project settings for the sample project

- In the **HomeServer-IP** (HomeServer IP) line, enter the new IP address of the HomeServer.

The address is now changed in the HomeServer Expert. However, to allow the HomeServer to also be addressed via the changed IP address, the data must be transmitted to the HomeServer (see "Programming via an RS232 connection" on Page 32 and "Programming via LAN" on Page 33).

### 5.3 Programming via an RS232 connection

You can transfer the changed data directly from the commissioning PC to the HomeServer as follows:

- Disconnect the HomeServer from the EIB (if required).
- Connect the serial (RS232) interface of the HomeServer with a COM interface of your commissioning PC. Use the supplied commissioning cable to do this.
- Start the HomeServer Expert on your commissioning PC. Load the sample project with the changed IP address (if required).
- Select **Transmit**. A window, **Transmit Project** now appears.



Fig 5.2: The **Transmit** menu item in the HomeServer Expert.

- Select **By serial interface**.

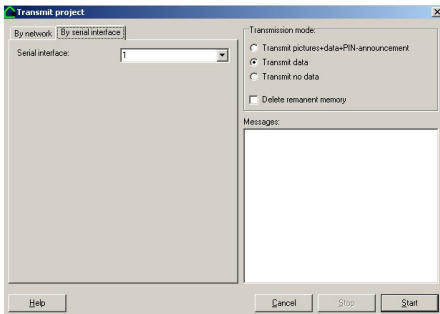


Fig 5.3: Settings for direct data transfer

- Make the settings according to Figure 5.3 (but enter the number of your serial interface).
- Switch off the HomeServer. Click on **Start**. Switch the HomeServer back on. The data are transferred directly to the HomeServer once you have heard three double-beeps.

- Disconnect the direct connection between the HomeServer and the commissioning PC after the data have been transmitted.
- Connect the HomeServer to an EIB.

## 5.4 Programming via LAN

You can transfer the changed data from the commissioning PC to the HomeServer when both devices are connected to each other via a local network as follows:

- Start the HomeServer Expert on your commissioning PC. Load the sample project with the changed IP address (if required).
- Select **Transmit**. A window **Transmit Project** now appears.



Fig 5.4: The **Transmit** menu item in the HomeServer Expert.

- Select **By Network**.

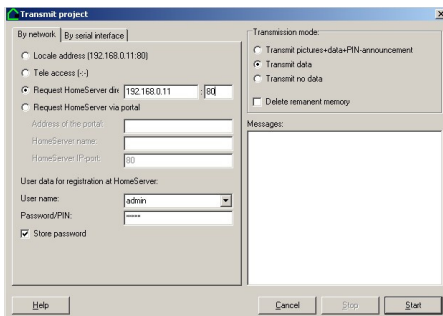


Fig 5.5: Settings for data transfer via local network.

- Make the settings according to Figure 5.5. You can also directly change the IP address in this screen.

- Click on **Start** (start). The data are transferred via the network to the HomeServer.

**Note: Change of IP address in the HomeServer.**

If the HomeServer has already been operated in a network with the IP address set at the factory, but this address is later changed, then it may happen that the HomeServer is initially no longer recognized. In this case, switch off the HomeServer for a short time and then switch it back on.

If the HomeServer is ready for operation then it signalizes this state by issuing three double-beeps. Please note that it may take a few minutes until the entire network recognizes the new IP address.

- Call up the sample project via your browser or the client program.

### 5.5 Other work with the HomeServer Expert

Once you have successfully completed the functions test or first putting into operation of the HomeServer, you can now program the HomeServer for the special tasks of your project. This is done in the HomeServer Expert.

We recommend that you do not use the supplied sample project for programming and that you redesign according to the requirements.

Simply create a new project and then go through the single menu items and screens step by step in the Expert software. A context-sensitive on-screen help assists you.

After successful programming in the HomeServer Expert, you then transfer the data onto the HomeServer.

## 6. Important IP addresses

Operation of your HomeServers can be preferably via the internet, but also via a network connection. This chapter provides you with an overview of the most important IP addresses. These agreements are valid:

- uu = user name
- pp = password
- hsn = name of the HomeServers in the portal
- ip-Adresse = IP address of the HomeServer
- nnn = Own "fixed2 IP address, e.g. at **www.DynDNS.org**

**Example** of an IP address:

192.168.0.11 (IP address of the HomeServer on delivery)

or

nnn.DynDns.org

## 6.1 Calling up the user interface.

Address	Meaning
<a href="http://HS-ip-Adresse/hs">http://HS-ip-Adresse/hs</a> or <a href="http://ip-Adresse/hshtm">http://ip-Adresse/hshtm</a>	Calling up the HomeServer user interface via an internet browser.  A login screen appears for this. Entering the user name and password opens the user interface.
<a href="http://ip-Adresse/shs">http://ip-Adresse/shs</a> or <a href="http://ip-Adresse/shshtm">http://ip-Adresse/shshtm</a>	Calling up the HomeServer user interface via an internet browser in secure mode.  A login screen appears for this. Entering the user name and password opens the user interface. The password is encrypted.
<a href="http://ip-Adresse/hshtm?user=uuu&amp;pw=ppp&amp;cl=DES&amp;ref=RRR">http://ip-Adresse/hshtm?user=uuu&amp;pw=ppp&amp;cl=DES&amp;ref=RRR</a>  The following applies:  DES = Design (from: HSExpert/Project/ Design)  RRR = Refresh settings (from: HSExpert/Project/ Times)	Direct call of a user interface for a user without previously starting the login screen.
<a href="http://homeserver.gira.de">http://homeserver.gira.de</a>	Calling up the Gira HomeServer 2 - Portal.  A menu appears in which the user can log in using his dial-in data stored in the HomeServer.
<a href="http://homeserver.gira.de/hslogin.php?hsname=hsn">http://homeserver.gira.de/hslogin.php?hsname=hsn</a>	Calling up the Gira HomeServer 2 - Portal.  Direct access to the HomeServer, without the portal menu. The dial-in data of the user must be stored in the HomeServer.

## 6.2 Calling up lists

Address	Meaning
http://ip-Adresse/hslist	<p>Calls the page up for the list request.</p> <p>An input screen appears in which the list names, user and the password must be entered.</p>
http://ip-Adresse/shslist	<p>Calls the page up for the list request is secure mode.</p> <p>An input screen appears in which the list names, user and the password must be entered.</p>
<p>http://ip-Adresse/hslist?lst=LLL&amp;user=uuu&amp;pw=ppp</p> <p>Where: LLL = name of the list</p>	<p>Direct call-up of a list.</p> <p>Please observe that the request for the respective list in the HomeServer must be created.</p>

## 6.3 Operating with WAP

Address	Meaning
http://ip-Adresse/hswap.wml	<p>Calling up of the HomeServer user interface in WAP browser mode.</p> <p>A login screen appears in which the user can log in using his dial-in data stored in the HomeServer.</p>
http://homeserver.gira.de/hswap.wml	<p>Calling up of the Gira HomeServer 2 – Portal in WAP browser mode.</p> <p>A login screen appears in which the user can log in using his dial-in data stored in the HomeServer.</p>
<p>http://homeserver.gira.de/hswap.php?hsname=hsn</p>	<p>Calling up of the Gira HomeServer 2 – Portal in WAP browser mode.</p> <p>This is the direct WAP access to the HomeServer without the login screen.</p>

**6.4 Short explanation of important terms**

Term	Meaning
HomeServer 2 - Portal	Internet-Portal via which the user interface of the HomeServer can be accessed.
DynDns.org	Free internet service via which the HomeServer can be assigned a "fixed" name in the internet. The HomeServer can thereby be directly addressed in internet via the name stored here.





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