

Contents

1. General	3
1.1 Exclusion of liability	3
1.2 Scope of delivery	4
1.3 Interfaces and connection options	4
1.4 System requirements	5
1.5 Area of application	5
1.6 Registration	5
1.7 Updates	5
2. Commissioning and installation	7
2.1 Basic configuration of the HomeServer in the sample project	7
2.2 Device description	8
2.3 Installing and mounting	10
2.3.1 Connecting to the power supply	11
2.3.2 Connecting to a network	12
2.3.3 Connecting to the EIB	13
2.3.4 Connecting directly to a PC	14
2.3.5 Connecting the HomeServer via ISDN	14
2.3.6 Connecting the HomeServer for programming	15
2.4 Functions test and commissioning	16
2.4.1 Functions test via internet browser	16
2.4.2 Functions test via the HomeServer client program	19
2.4.3 Commissioning	19
3. Portal	21
3.1 Establish connection to the portal	21
3.2 Change the name of the HomeServer at the portal	23
3.3 Changing the password	24
3.4 Login unsuccessful: What must be done?	24
3.4.1 Message "HomeServer is OFFLINE" when using ISDN	24
3.4.2 Message "HomeServer is OFFLINE" when using a router	25
3.4.3 Message "HomeServer is UNKNOWN"	25
4. Expert software	27
4.1 Installation of the Expert software	27
4.2 Changing the stipulated IP address	29
4.3 Programming via an RS232 connection	30
4.4 Programming via LAN	31
4.5 Other work with the Expert software	32

5. Important IP addresses	33
5.1 Calling up the user interface	34
5.2 Calling up lists	35
5.3 Operating with WAP	35
5.4 Short explanation of important terms	36

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 KNX/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.com>

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

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

All names of products used in this manual are registered trademarks of their respective companies.

No part of this document may be copied or transmitted for any purpose whatsoever without express written permission from Gira, Giersiepen GmbH & Co. KG, irrespective of manner and means (electronic or mechanical).

All rights reserved!

© by Gira, Giersiepen GmbH & Co. KG
Dahlienstraße
D-42477 Radevormwald

1.2 Scope of delivery

The following items are included in the 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 commissioning manual

1.3 Interfaces and connection options

The HomeServer features the following interfaces and connection options:

- Mains voltage connection 12 V (connection for external power supply unit)
- RS232 interface for EIB and programming
- Network connection for RJ45 Cat 5 Ethernet TCP/IP
- ISDN interface EURO-ISDN DSS1 for RJ45 ISDN cable

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 Expert software that can be found in the internet on the Gira home page. The Expert software can be operated on a commercially available PC running the Microsoft® Windows operating system (from 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 (that is also supplied in the internet) is used for this.

1.5 Area 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.

1.6 Registration

Please take the time to fill in the registration form that can be found in the internet on the Gira home page. 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.

1.7 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 in the internet on the Gira home page.



Attention: Save remanent data before installing the firmware update!

Please always save the data of the remanent memory before installing the firmware update.

Saving the data is accomplished in the Expert software. Please note the hints in the Expert software help file.

2. Commissioning and installation

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

- installing and connecting the HomeServer
- functions test and commissioning

At first you will learn how to install 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 Expert software 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

For commissioning the HomeServer a commissioning computer is needed on which the EIB project has been programmed. The Expert software has to be installed on this computer. The Expert program is used for programming the HomeServer with all functions that are necessary. At least the programmed data has to be transferred by a direct connection from computer to HomeServer. There is also the possibility for data transmission via EIB.

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 16".

2.2 Device description

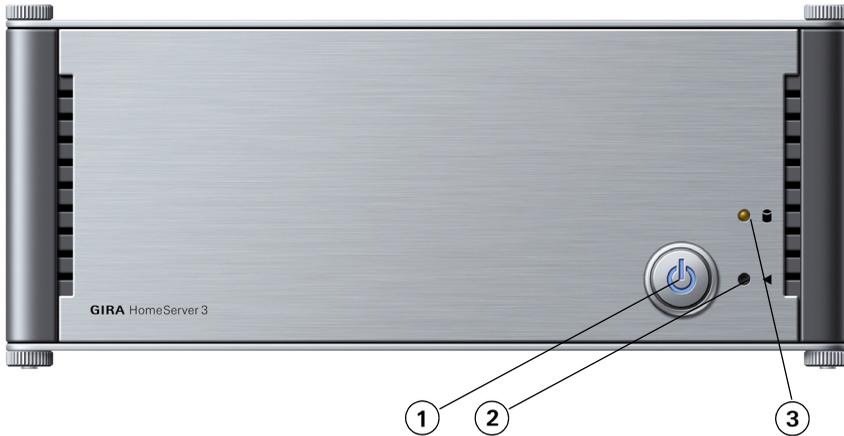


Fig. 2.1: Controls and monitoring elements on the front side of the HomeServer

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

- On/Off button (1) with blue operating LED, lights when the device is switched on.
- Reset button (2): The HomeServer is restarted without interrupting the power.
- Yellow memory LED (3): Lights when data is loaded into the flash memory.



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 signaled by three double-beeps after programming and a firmware update via the commissioning cable.

Note that the starting time for the HomeServer could extend depending to the volume of the programmed project (more than 4 minutes are possible).

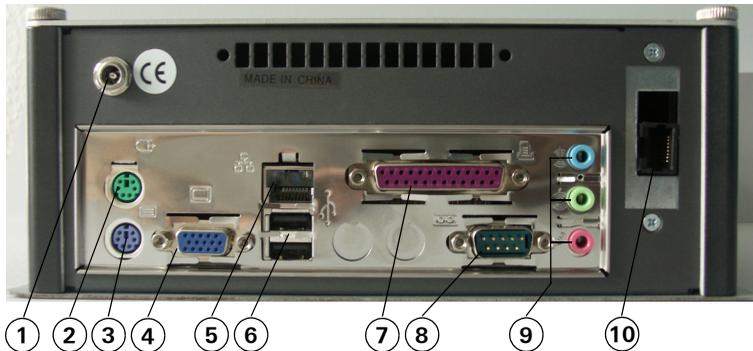


Fig. 2.2: Interfaces on the rear side of the HomeServer

Interfaces on the rear side of the HomeServer:

- Mains connection 12 V, connection for power supply unit (1)
- PS2 connection for pc-mouse (2), for service only
- PS2 connection for keyboard (3), for service only
- VGA connection for computer monitor (4), for service only
- Network connection for RJ45 CAT5 Ethernet TCP/IP (5)
- 2 USB connections (6), out of order
- LPT connection (7), out of order
- RS232 interface for EIB and programming (8)
- Cinch connections (9), out of order
- ISDN interface, EURO-ISDN DSS1 for RJ45 ISDN cable (10)



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.

2.3 Installing and mounting

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

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 installation.

Select a place of installation 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.

2.3.1 Connecting to the power supply

The HomeServer needs to be connected via the external power supply unit with the power supply (230 V~). Connect the HomeServer to the power supply as follows:

1. Connect the mains cable for the power unit with the external power supply unit.
2. Connect the power supply unit with the interface to the power supply at the HomeServer.
3. Connect the power supply unit to the power supply.



Attention: 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.

2.3.2 Connecting 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 Expert program).

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 Home Server 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 16 or in the operating instructions for the client program (available in the internet under <http://www.download.gira.de>).

2.3.3 Connecting 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)
- Via local area network with Instabus IP router (Article No. 1030 00)



Note: No EIB programming.

There is no possibility of programming on the EIB by using the EIB connection as described before.

If the HomeServer is also to act as an iETS server then this can be programmed via the EIB.

2.3.4 Connecting 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). 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 Cat. 5 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 16 or in the operating instructions of the client program (available in the internet).

2.3.5 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.

2.3.6 Connecting the HomeServer for programming

The purpose of the previously described ways of connecting the HomeServer 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 Expert software (see "Expert software" on page 27"). 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:

1. Disconnect the HomeServer from the EIB (if it is already connected there).
2. Connect one end of the supplied commissioning cable to a COM interface on your PC.
3. 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 Expert software explains how to transfer data from the Expert program.



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 Cat. 5 Ethernet TCP/IP) of both devices.

2.4 Functions test and commissioning

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

- installing 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.

2.4.1 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 address** (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 networkconnection 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:

1. Connect the HomeServer via its network connection either with the local network or directly with the commissioning PC (see “Connecting to a network” on page 12).
2. Connect the HomeServer to the power supply (see “Connecting to the power supply” on page 11).
3. Switch the HomeServer on if required.
4. Start your internet browser on your commissioning PC or on a PC connected to a local network.
5. 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.
6. 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).
7. Click on **Login**. The HomeServers user interface opens.



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.

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



Fig. 2.3: Navigation menu of the user interface

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

2.4.2 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 at

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

in the internet.

2.4.3 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:

1. Install the Expert software onto the commissioning PC (see "Installation of the Expert software" on page 27).
2. Create a new project in the Expert software.
3. 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.
4. Disconnect the HomeServer from the power supply (if required).
5. Disconnect the HomeServer from the EIB (if required).
6. Connect the HomeServer to the commissioning PC using the supplied commissioning cable (see "Connecting the HomeServer for programming" on page 15).
7. Re-connect the HomeServer to the power supply (see "Connecting to the power supply" on page 11).
8. Switch on the HomeServer (if required).
9. Transfer the data from the Expert software from your commissioning PC to the HomeServer.
10. Disconnect the HomeServer from the commissioning PC.
11. Connect the HomeServer to the EIB, the local network, etc. (see "Installing and mounting" on page 10).

Notes

3. Portal

**Attention: 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.

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).

3.1 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 Expert software 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 Expert program.
- The information stored in the Expert program must be transferred to the HomeServer.

The settings for the internet access as well as access to the portal are made in the Expert software 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 Expert software.

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:

1. Establish a connection to the internet via your PC.
2. Start your internet browser.
3. Enter **http://homeserver.gira.de** in the address line of your browser. A start page appears. If you want to access via WAP then enter the following line:
http://homeserver.gira.de/hswap.wml.
4. In the **Anmelden** (login) area, 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.
5. Click on **Anmelden** (login). The current IP address of the HomeServer is shown in the **Anmelden** (login) area.
6. Click on the IP address. The portal login screen opens.
7. 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 7).
8. 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.

You can now select whether you

- want to access the HomeServer (**Zugang zum Gira HomeServer**)
- change the name of the HomeServer (**Name ändern**)
- change the password (**Passwort ändern**)
- want to have your password sent to you, perhaps because you have forgotten it (**Kontakt**).

If your login was unsuccessful then this may be due to the settings in the Expert software (see "Expert software" on page 27).

3.2 Change the name of the HomeServer at the portal

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

1. Log in to the portal so that the start page opens and you have access to the main menu.
2. Click on **Name ändern** (change name). An input screen appears in which you can make several entries.
3. Enter the serial number of the HomeServer next to **ID-Nummer** (ID number).
4. 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.
5. Enter the new name for the HomeServer next to **Neuer Name** (new name).
6. Repeat the new name next to **Neuer Name (Wdhg.)** (repeat new name).
7. Click on **Speichern** (save). Your data are saved. The next time you log in, you can now use the new name of the HomeServer.



Note: Changing of the standard HTTP-Port.

You can add any HTTP port in the edit line next to **HomeServer HTTP-Port** to access your HomeServer. This is of importance if the HomeServer can not be accessed over standard port 80.

3.3 Changing the password

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

1. Log in to the portal so that the start page opens and you have access to the main menu.
2. Click on **Passwort ändern** (change password). An input screen appears in which you can make several entries.
3. Enter the serial number of the HomeServer next to **ID-Nummer** (ID number).
4. 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.
5. Repeat the new password next to **Neues Passwort (Wdhg.)** (repeat new password).
6. 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).

3.4 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.

3.4.1 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:

1. In the Expert software: Does the HomeServer have full access for the ISDN connection?
2. In the Expert software: Do you require a/no zero to access the exchange?
3. In the Expert software: Can the internet provider be reached (e.g. incorrect number entered, an incorrect user name or an incorrect password)?
4. In the Expert software: Has the portal address been entered correctly?
5. Has the password for the portal been entered correctly? Check which password you have stored in the HomeServer and in the portal.
6. Has the IP port of the HomeServer been entered correctly?

3.4.2 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:

1. In the Expert software: Has the IP address of the router or of the DNS server been entered incorrectly?
2. Can the IP address of the router not be reached by the HomeServer?
3. Can the internet provider be reached (e.g. incorrect number entered, an incorrect user name or an incorrect password)?
4. Has the password for the portal been entered correctly. Check which password you have stored in the HomeServer and in the portal.

3.4.3 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:

1. Did you enter the name of the HomeServer correctly or you have changed it at the portal? Try to enter the correct name.

Notes

4. Expert software

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 “Commissioning and installation” on page 7.

4.1 Installation of the Expert software

The commissioning program Experte is available in the download area of the Gira home page. It must be installed on 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://download.gira.de>

Install the expert software as follows:

1. Download the latest version of the HomeServer software from the Gira home page on your commissioning PC.
2. Extract the downloaded zip-file.
3. Select the executable file **setup.exe** in the folder **Experte**. The installation program is started.
4. 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:

1. Select **Start/Program/Gira Software/HomeServer/Experte/Experte** under Windows.
2. Alternatively, you can also start the program directly from the standard directory:
C:\program\gira\hsX\expYZ.exe (X=Version number of the HomeServer; YZ=Version number of the expert software).



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.

4.2 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:

1. Open the sample project in the HomeServer Expert (musterxxx.hs3).
2. Select **Project**. The project settings of the sample project are displayed.
3. Select the Network tab.
4. 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 30 and "Programming via LAN" on page 31).

4.3 Programming via an RS232 connection

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

1. Disconnect the HomeServer from the EIB (if required).
2. Connect the serial (RS232) interface of the HomeServer with a COM interface of your commissioning PC. Use the supplied commissioning cable to do this.
3. Start the HomeServer Expert on your commissioning PC. Load the sample project with the changed IP address (if required).
4. Select **Transmit**. A window, **Transmit Project** now appears.
5. Select **By serial interface**.
6. Enter the number of your serial interface next to **Serial interface** (e. g. 1).
7. Activate in the **Transmission mode** area **Transmit Data**.
8. 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.
9. Disconnect the direct connection between the HomeServer and the commissioning PC after the data have been transmitted.
10. Connect the HomeServer to the EIB.

4.4 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:

1. Start the Expert software on your commissioning PC. Load the sample project with the changed IP address (if required).
2. Select **Transmit**. A window **Transmit Project** now appears.
3. Select **By Network**.
4. Select **Request HomeServer directly** and enter the IP address and port number.
5. Enter **User name** (e. g. admin) and **Password** (e. g. admin) in the area **User data for registration at HomeServer**.
6. Select **Transmit data** in the area **Transmission mode**.
7. Click on **Start**. The data are transferred via the network to the HomeServer.
8. Call up the sample project via your browser or the client program.



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.

4.5 Other work with the Expert software

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.

5. 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:

- uuu = user name
- ppp = password
- hsn = name of the HomeServers in the portal
- ip-Adresse = IP address of the HomeServer
- nnn = Own "fixed" 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

5.1 Calling up the user interface

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

5.2 Calling up lists

Adresse	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 in secure mode.</p> <p>An input screen appears in which the list names, user and the password must be entered.</p>
http://ip-Adresse/hslist?lst=LLL&user=uuu&pw=ppp Where: LLL = name of the list	<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>

5.3 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 – 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>
http://homeserver.gira.de/hswap.php?hsname=hsn	<p>Calling up of the Gira HomeServer – Portal in WAP browser mode.</p> <p>This is the direct WAP access to the HomeServer without the login screen.</p>

5.4 Short explanation of important terms

Term	Meaning
HomeServer-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.

Gira
Giersiepen GmbH & Co. KG
Electrical Installation Systems

P. O. Box 12 20
42461 Radevormwald
Germany

Tel +49 2195 / 602 - 0
Fax +49 02195 / 602 - 119
Internet: www.gira.de

GIRA