

Gira HomeServer/FacilityServer
Start-up information

Gira HomeServer
0529 00

Gira FacilityServer
2075 00



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1. Introduction

The HomeServer is a gateway for visualising and controlling the complete electrical installation of buildings equipped with the KNX/EIB system. These can be both private and company buildings.

The KNX/EIB functions can be monitored and controlled at any time and from everywhere, externally and internally. Monitoring and control is via state-of-the-art communication media such as a PC, iPad, iPhone, mobile phone (WAP/HTML), PDA (personal digital assistant), TV with an Internet connection and devices with an Internet browser. Malfunctions, measured values and sensor or actuator states can be transmitted by text message and e-mail. Acknowledgement is via the user interface, KNX/EIB or telephone.

A graphical user interface allows easy operation. Building or device states are visualised with icons and texts which can be positioned freely. Each user may save his own visualisations and menu structures.

In addition, the HomeServer has a free text and symbol-based menu structure. User groups are also possible. The HomeServer can be connected to an Ethernet network. Network cameras can also be integrated via a network so that images can be displayed in visualisations. The images can also be recorded. All archived data and images can be forwarded via e-mail and partly via FTP.

1.1 General information about the operating instructions / product support

The information, data, values, etc. contained in these documents may be changed without prior notification. The illustrations are also non-binding.

Subject to technical modifications!



Note: up-to-date information is available on the Gira website.

As the software for the device purchased by you is being continuously further developed and updated, information in this manual may no longer be up-to-date.

Current product information is always available on the Gira website:

<http://www.gira.com>

Current software updates and documentation for your product are also available at <http://www.download.gira.de>.

1.2 Scope of delivery

The following items are included in delivery:

- 1 x HomeServer
- 1 x mains cable
- 1 x cable for start-up
- 1 x start-up manual

1.3 Interfaces and connection options

The HomeServer has the following interfaces and connection options:

- Mains voltage connection 230 V
- RS232 interface for KNX/EIB and programming
- Network connection for RJ45
- ISDN via accessory USB-ISDN adapter / Art. No. 209300

1.4 System requirements

Operation of the HomeServer requires a functional KNX/EIB system. Communication with the KNX/EIB devices as well as complete monitoring of all events is via the KNX/EIB.

The programming of the HomeServer is via the Expert software, available for free in the download area of the Gira website. This software can be operated on a standard PC with the Microsoft® Windows operating system (from XP).

Operation and visualisation of the device (not with WAP) can be implemented by the user via a corresponding user interface. For this purpose a web or WAP browser or the Client program is used, available for free in the download area of the Gira website.

1.5 Area of application

The HomeServer is set up in buildings, in rooms with "normal" humidity and room temperature. Use for example in damp cellars may negatively affect functionality of the device. The device is used for monitoring, visualisation and control of KNX/EIB systems.

The software made available in the Gira download area may only be used together with the HomeServer.

Any other use of the device and software is not permitted. Gira neither assumes legal responsibility nor provides a guarantee for errors and damage of any kind as a result of improper use of the device or corresponding software.

1.6 Registration

Please take the time to complete the registration form. The registration form is also found in the download area of the Gira website. Only registered users can access the portal page or receive a new password for accessing the portal page if they have forgotten their old password. In addition, as a registered user you receive technical support and are regularly informed about downloads, updates (further developments), additional modules and training offers. You can also register online via the portal.

1.7 Updates

Updates eliminate technical problems (bug fixing), and also close possible security gaps. Hacker attacks are possible as soon as your HomeServer communicates with the Internet. Because these forms of attack change constantly, new updates for the HomeServer may be required for permanent protection. In this regard, take a regular look at the Gira website to see whether a new update is available for the HomeServer firmware.

Please note that Gira assumes no legal responsibility and provides no guarantee of any kind for problems resulting from obsolete firmware or updated firmware.

**Important: Make sure to install the updates!**

Please make sure to download the firmware updates from the Gira websites and install them on your HomeServer, even if you are not registered! Follow the information in these installation instructions. The installation instructions can be found on the Internet on the Gira website.

**Important: Save retentive data before updating the firmware!**

Make sure to save the data in the retentive memory of the HomeServer before updating the firmware.

The backup is carried out via the Expert software. Follow the information in the Expert help.

2. Start-up and installation

In order to start up the HomeServer, two subject areas must be differentiated:

- Set-up and connection of the HomeServer
- Function test and start-up

Set-up and connection of the HomeServer is described first.



Important: Start-up only to be carried out by an electrical professional!

Connection and start-up of the device may only be carried out by trained electrical professionals.



Important: Check the current software version before installing!

Make sure to check the current software version of the firmware and Expert software before you install and start up the HomeServer.

If necessary, download the latest data from the Gira webpage.

Address: <http://www.gira.com>

2.1 Basic configuration of the HomeServer in the sample project

For starting up the HomeServer, you first require your start-up computer, on which you have saved your KNX/EIB project in the ETS for example. Install the start-up software, the so-called Expert software, on this computer. Create your HomeServer project with all necessary functions in this software. The data is then transferred to the HomeServer via a direct connection from the start-up PC.

The HomeServer already has a sample project in state of delivery. With this sample project the HomeServer has an IP address and a net mask. The user interface is designed for a screen resolution of 1024 x 768. The project is intended to be accessed via the local network. Although access via the Internet is not planned, it can be implemented quickly if required.

You can find out which users and passwords are saved in the sample project and which lists can be called up at "Function test via Internet browser" on page 20".

2.2 Device description



Fig. 2.1: Operating and control elements on the front of the HomeServer

Control elements on the front of the HomeServer and FacilityServer:

- operating LED that lights up when the device is switched on.

Operating element on the front of the FacilityServer:

- Reset button: The FacilityServer is restarted without power interruption.



Note: The HomeServer is switched on via the ON/OFF switch.

If the HomeServer is switched on via the ON/OFF switch, three double signal tones are heard after at least 20 seconds. Only then is the HomeServer ready for operation. This must be observed mainly with data transfer from the Expert software, as transfer of data is only possible after the three double signal tones.

The operational readiness of the HomeServer is also signalled via three double tones after programming and updating the firmware via the start-up cable.

Please note that the time period for the start of the HomeServer may significantly increase depending on project size (how many KNX/EIB objects must be scanned). Over 4 minutes are possible.

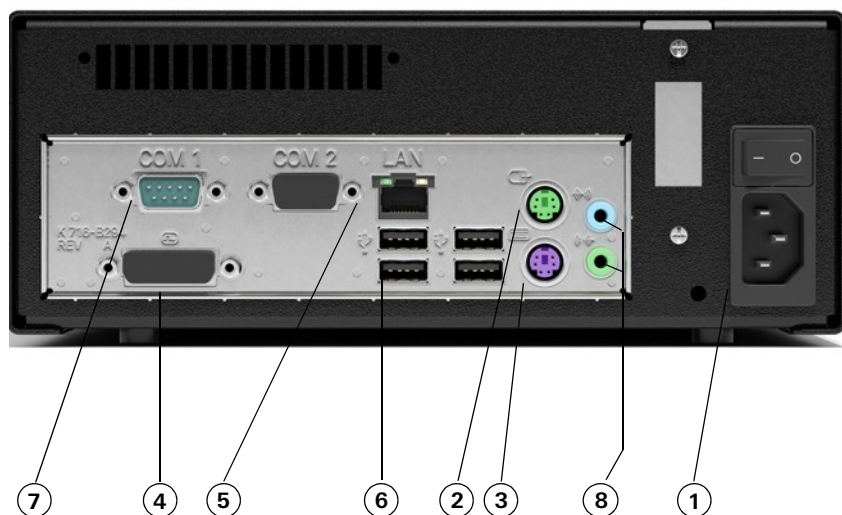


Fig. 2.2: Interfaces on the rear of the HomeServer

Interfaces on the rear of the HomeServer:

- Mains connection 230 V (1) and on/off switch
- PS2 connection for mouse (2), without function
- PS2 connection for PC keyboard (3), for service purposes
- DVI connection for PC monitor (4), for service purposes
- RJ45 network connection (5)
- USB interfaces (6), bus access via USB, ISDN adapter connection, USB keyboard connection, for service purposes
- RS232 interface for KNX/EIB and programming (7)
- Jack socket outlets (8), no function



Note: LED at the network connection.

The network connection has a green and a yellow LED. Both LEDs light up or flash when there is a network connection to the HomeServer. The LEDs only flash when the HomeServer is switched on. A valid IP address is not required.

2.3 Set-up and mounting

The HomeServer may only be set up inside buildings. It is not intended and not permitted for mobile operation.

Set up the HomeServer at a central location so that connection to the mains voltage, to the network and the KNX/EIB is trouble-free. The location should also be "out of the way" so that the device does not impede other work being done and so that one of its connections cannot be interrupted accidentally.

**Note: Selecting the setup location.**

Select a setup location where you can be sure that other work will not cause the mains supply, network connection or KNX/EIB connection to be interrupted.

**Note: Sufficient air circulation.**

In order to ensure permanent functionality of the HomeServer, a setup location should be chosen that has sufficient air circulation around the device, enabling operation at room temperature.

2.3.1 Connection to the mains voltage

The HomeServer is connected via the power supply unit to the mains voltage (230 V~).



Important: Device starts up immediately when connected to mains voltage!

The HomeServer starts as soon as it is connected to the mains voltage and the on/off button on the rear is switched on.



Important: Carry out lightning protection!

In order to avoid damage to the device, we highly recommend protecting the device from overvoltage in the mains cable, at the network connection, at the ISDN adapter and in the KNX/EIB voltage access using corresponding protective devices.

2.3.2 Connecting to a network

You require a network distributor and network cable to integrate the HomeServer into an existing network. Please observe that the network distributor and network cable are not included in delivery.

You establish a connection between the HomeServer and the network by connecting one end of the network cable to the network connection of the HomeServer and the other end to the network distributor for example. Observe that the HomeServer in its state of delivery has its own IP address and net mask:

- IP address: 192.168.0.11
- Net mask: 255.0.0.0



Note: IP address of the HomeServer is already assigned in the network.

If the IP address of the HomeServer in an existing network is already occupied for another network participant, the IP address for the HomeServer can be changed in the sample project. In this case, contact your system administrator so that you can be assigned a free IP address for the HomeServer.



Note: Changing the IP address of the HomeServer.

If the HomeServer has already been in operation in your network with the factory preset IP address and it was then changed at a later time, the HomeServer may not be recognised in your network at first. In this case, switch the HomeServer off and then on again.

Please note that it may take several minutes until the complete network recognises the new IP address.

How to access the user interface after connecting the HomeServer to the local network is described on "Function test via Internet browser" on page 20 or in the operating instructions for the client program (available via the Internet at <http://www.gira.com>).

2.3.3 Connection to the KNX/EIB

The HomeServer can be connected to the KNX/EIB system using the following KNX/EIB devices (not included in delivery:)

- Instabus flush-mounted bus coupler 2 (Art. No. 0645 00)
- Instabus data interface FT 1.2 (Art. No. 0504 00)
- Instabus RS232 connection cable (Art. No. 0906 00)
- Via LAN with Instabus IP router (Art. No. 2167 00)
- USB data interface (Art. No. 1080 00)
- USB data interface (Art. No. 1070 00)



Note: No ETS programming.

The ETS cannot be programmed with the connection options to the KNX/EIB described here.

If the HomeServer should also operate as an iETS server, the KNX/EIB can also be programmed using this.

2.3.4 Direct connection to a laptop or PC

You can also connect the HomeServer directly to your start-up PC via LAN if it has a network connection. For this purpose use a "rotated" network cable (e.g. crossover cable with two RJ45 plugs). The cable is **not** included in the scope of supply.

**Note: Network connection via RS232 interface.**

Die direkte Netzwerkverbindung vom PC zum HomeServer erfolgt über die jeweiligen Netzwerkanschlüsse (RJ45) beider Geräte. For this a crossover cable is used that is **not** included in the scope of supply.

The RS232 interface of the HomeServer is solely for programming and connecting to the KNX/EIB. For programming, connect the start-up PC to the HomeServer with the start-up cable included in delivery.

The HomeServer in its state of delivery has its own IP address and net mask:

- IP address: 192.168.0.11
- Net mask: 255.0.0.0

Observe that the PC you connect directly with the HomeServer must have another IP address.

How to access the HomeServer user interface after you have connected it directly to your PC via the network connection is described on "Function test via Internet browser" on page 20 or in the operating instructions for the client program (available on the Internet and in the setup program).

2.3.5 Connecting the HomeServer to ISDN

To connect the HomeServer to your ISDN system, use the USB-ISDN adapter.

-> Accessory (Art. No. 2093 00)

The scope of supply of the USB-ISDN adapter includes USB and ISDN connection cables.

The length of the supply cable must meet the ISDN specification.

2.3.6 Connecting the HomeServer for programming

The connection options for the HomeServer described until now were for simple, fast user access to the device. In this way you can test the functionality during initial start-up.

However, if the HomeServer is to be used professionally, it must be prepared (programmed) for its application area. This programming is carried out using the Expert software (see "Expert software" on page 31"). You install the software on your start-up PC and can then connect this with the HomeServer either directly or via a network. The programmed data is then transferred from the start-up PC to the HomeServer.

To connect the start-up PC to transfer data from the Expert software, proceed as follows:

1. Disconnect the HomeServer from the KNX/EIB (if connected). This only applies if the HomeServer is not connected to the KNX/EIB via USB or KNXnet/IP routing (EIBnet/IP routing).
2. Connect the end of the start-up cable included in delivery to a COM interface of your PC.
3. Connect the other end of the start-up cable to the RS232 interface of the HomeServer.

Connection for data transfer has now been established. The online help of the Expert software describes how to transfer the data from the Expert software.



Note: Programming via RS232 interface.

The RS232 interface of the HomeServer is solely for programming and connecting to the KNX/EIB. For programming, connect the start-up PC to the HomeServer with the start-up cable included in delivery.

2.4 **Function test and start-up**

In order to start up the HomeServer, two subject areas must be differentiated:

- Set-up and connection of the HomeServer
- Function test and start-up

You now learn how a function test is carried out and how the HomeServer is started up.



Important: Start-up only to be carried out by an electrical professional!

Connection and start-up of the HomeServer may only be carried out by trained electrical professionals.

2.4.1 **Function test via Internet browser**

The HomeServer already has a sample project in state of delivery. Four users have been saved in this sample project. You can log into the HomeServer using their login data. The user interface is preset for a screen resolution of 1024 x 768. The project is intended to be accessed via the local network. Although access via the Internet is not planned, it can be implemented quickly if required.

The following users are stored in the sample project:

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

All users saved in the sample project have administrator rights.

To access the user interface of the HomeServer, using the address bar of the internet browser call up the page

http://HS-ip-address/hs

. Then enter one of the above-specified combinations of user name and password to access the user interface.

To access lists, using the address bar of the internet browser call up

http://HS-ip-address/hslist

. With the HS-ip address you specify the defined IP address of the HomeServer (192.168.0.11) if you have not changed it.

The following lists can be called up:

hslist	List name
login	Login protocol
debug	Debug page

To carry out the function test, access the user interface of the HomeServer as a user. The condition is that you have connected the HomeServer via a network connection to a network or directly to a start-up PC via a crossover cable. You call up the user interface via an Internet browser.

How to access the user interface of the HomeServer via an Internet browser:

1. Connect the HomeServer via its network connection either to the local network or directly to the start-up PC (see “Connecting to a network” on page 16).
2. Connect the HomeServer to a power supply (see “Connection to the mains voltage” on page 15).
3. Switch the HomeServer on (if not already switched on).
4. Start the Internet browser on your start-up PC or on a PC connected to the local network.
5. Enter **http://192.168.0.11/hs** into the address bar of the browser. The number combination in the address bar is the IP address of the HomeServer. The Login mask appears in the browser window.
6. In the Login mask, enter one of the preset users (e.g. u1) and the corresponding password (e.g. u1). The page is reloaded with **Refresh**.
7. Click on **Log in**. The user interface of the HomeServer opens.



Note: Preset IP address.

The number combination that you specify in the address bar is the IP address of the HomeServer. If you have changed the IP address of the HomeServer specified by the sample project, you must enter the modified address as described in section 5.

2.4.2 Function test via the HSClient program

The user interface of the HomeServer can also be accessed by the HSClient program. Access via the HSClient program is described in the corresponding operating instructions,.

2.4.3 Start-up

After you have completed the function test, you can start up the HomeServer for a new project. The following description refers to start-up via serial connection between the start-up PC and the HomeServer. After initial start-up, the HomeServer can also be programmed via a LAN connection.

Start-up should be carried out as follows:

1. Install the Expert software on your start-up PC (see "Expert software" on page 31).
2. Create a new project in the Expert software.
3. In the Expert software, program the functions and tasks for which your HomeServer will be used in your project. Use the online help in the program for help with the procedure and for further support.
4. Disconnect the HomeServer from the power supply (if necessary).
5. Disconnect the HomeServer from the KNX/EIB (if necessary).
6. Connect the HomeServer to the start-up PC with the start-up cable included in delivery (see "Connecting the HomeServer for programming" on page 19).
7. Connect the HomeServer to the power supply again (see "Connection to the mains voltage" on page 15).
8. Switch the HomeServer on (if necessary).
9. Transfer the data from the Expert software from your start-up PC to the HomeServer.
10. Disconnect the HomeServer from the start-up PC.
11. Connect the HomeServer to the KNX/EIB, to the local network, etc. (see "Set-up and mounting" on page 14).

3. Operation via HomeServer portal

The HomeServer portal offers indirect access via the Internet (http) or via WAP to the user interface of the HomeServer.

The required basic settings have been saved for all HomeServers dispatched by Gira, enabling direct access to the user interface of the sample project saved in the HomeServer.

Use the following data for logging into the portal for the first time:

- Password: Serial number of your HomeServer (12-digit). Enter the password in upper-case letters.
- HomeServer name: Serial number of your HomeServer (12-digit).

3.1 Establish connection to the portal



Note: No data change is required with initial access.

You do not need to change or complete any settings for initial access to the portal. Your HomeServer is preset so that you can log into the portal by entering the serial number as a password and the HomeServer name.

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

If you have created your own project in the Expert software and you would like a user to access the HomeServer via the Internet portal, you must observe the following:

- The HomeServer must have Internet access.
- The HomeServer must be set up for access to the portal in Expert.
- The information saved in Expert must be transferred to the HomeServer.

The settings for Internet access and portal access are made in the Expert software at **Project/Network/Internet Access**. Here you can establish

- an ISDN dial-up connection on demand (portal)
- a permanent ISDN dial-up connection (portal)
- a router connection on demand (portal)
- a permanent router connection (portal).

herstellen. You can obtain further information via the online help in Expert.

How to establish connection of your PC (for example the start-up PC) to the portal 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** into the address bar of the browser.
An input mask appears. If you wish to access via WAP, enter the following:
http://homeserver.gira.de/hswap.wml.
4. In the **Log in** area, enter the name of your HomeServer. Please note that you must use the serial number of your HomeServer for initial log-in.
5. Click on **Log in**. The current IP address of the HomeServer is displayed in the **Log in** area.
6. Click on the IP address. The Login mask of the portal opens.
7. Enter your user name and the corresponding password into the Login mask of your HomeServer portal. For initial access to the HomeServer via the portal, simply use one of the user names saved in the sample project along with the corresponding password.
8. Click on **Log in**.

If all settings in the HomeServer were correct and the correct login data were entered, you now have access to the menu items on the portal start page.

You can now select whether you wish to

- Access the HomeServer (**Access to the Gira HomeServer**)
- Change the name of the HomeServer (**Change name**)
- Change the password (**Change password**)
- Have your password sent to you because you have forgotten it (**Contact**).

If your login was not successful, this may have something to do with the settings in the Expert software (see "Expert software" auf Seite 31).

3.2 Changing the name of the HomeServer in the portal

How to change the name of the HomeServer in the portal:

1. Log in at the portal so that the start page is displayed and you have access to the main menu.
2. Click on **Change name**. An input mask is shown in which you must make various entries.
3. Enter the serial number of the HomeServer next to **ID number**.
4. Enter the password next to **Current password**. For initial access to the portal, this is the serial number of the device.
5. Enter the new name of the HomeServer next to **New name**.
6. Repeat the new name next to **New name (rpt.)**.
7. Click on **Save**. Your data are saved. You can now use the new name of the HomeServer for the next login.



Note: Changing the standard HTTP port.

You can enter any HTTP port in the input field next to **HomeServer HTTP port** to access your HomeServer. This is important when the HomeServer cannot be addressed via the standard Port 80.

3.3 Change password

How to change the password for access to the HomeServer via the portal:

1. Log in at the portal so that the start page is displayed and you have access to the main menu.
2. Click on **Change password**. An input mask is shown in which you must make various entries.
3. Enter the serial number of the HomeServer next to **ID number**.
4. Enter the password next to **Current password**. For initial access to the portal, this is the serial number of the device.
5. Repeat the new password next to **New password (rpt.)**.
6. Click on **Save**. Your data are saved. You can now use the new password of the HomeServer for the next login.

If you forget your password, a password can be mailed to you via **Contact**.

3.4 Login was not successful: What must be done?

If your login to the HomeServer portal was not successful, this may be due to one of the following reasons, depending on your Internet access:

3.4.1 "HomeServer is OFFLINE" message when using ISDN

If you use an ISDN internet connection for the HomeServer and the "HomeServer is OFFLINE" message is displayed, please check the following settings:

1. In the Expert software: Does the HomeServer have direct outward dialling with the ISDN connection?
2. In the Expert software: Do you need a zero/no zero when dialling?
3. In the Expert software: Is the Internet provider accessible (e.g. entry of incorrect phone number, incorrect user name or incorrect password)?
4. In the Expert software: Was the portal address entered correctly?
5. Was the password for the portal entered incorrectly? Check which passwords you entered into the HomeServer and the portal.
6. Was the IP port of the HomeServer entered incorrectly?

3.4.2 "HomeServer is OFFLINE" message when using a router

If you use a router for the Internet connection of the HomeServer and the "HomeServer is OFFLINE" message is displayed, check the following settings:

1. In the Expert software: Was the IP address of the router or DNS server specified incorrectly?
2. Is the IP address of the router accessible from the HomeServer?
3. Is the Internet provider accessible (e.g. entry of incorrect phone number, incorrect user name or incorrect password)?
4. Was the password for the portal entered correctly? Check which passwords you entered into the HomeServer and the portal.

3.4.3 "HomeServer is UNKNOWN" message when using a router or an ISDN connection

If you use a router or an ISDN Internet connection for the HomeServer and the "HomeServer is UNKNOWN" message is displayed, please check the following settings:

1. Is the name of the HomeServer correct or did you change this name in the portal? Try to specify the correct name.

4. Expert software

This section explains how the HomeServer can be started up using the Expert software.



Important: Start-up only to be carried out by an electrical professional!

Connection and start-up of the device may only be carried out by trained electrical professionals.

In the Expert software, the HomeServer is configured and e.g. the user interface and visualisation are created. This data must be transferred to the HomeServer.

Data can be transferred from the start-up PC to the HomeServer via

- the start-up cable (direct connection from PC to HomeServer)
- the network
- ISDN direct connection
- the Internet

The individual connection options of the HomeServer are described at “Start-up and installation” on page 11.

4.1 Installing the Expert software

The Expert start-up program is available free of charge in the download area of the Gira website. This software must be installed on your start-up PC.



Important: Check the current software version before installing!

Make sure to check the current software version of the firmware and Expert software if you already have this software. If necessary, download the latest data from the Gira website.

Address: <http://www.gira.com>

How to install the Expert software:

1. Download the latest software package for the HomeServer to your start-up PC from the Gira website.
2. Unpack the downloaded zip file.
3. Run the executable file **Gira_Experte_Setup_v[version number].exe**. The installation program begins.
4. Follow the instructions of the installation program.



Note: The Expert software requires an Internet browser.

Working with the Expert software requires an up-to-date Internet browser. Make sure that you have such a browser on your start-up PC.

In order to correctly configure the HomeServer for your customers, creating a new project is recommended. Here you systematically specify all data required by the HomeServer for its future tasks.

How to start the Expert software following successful installation:

1. Under Windows XP for example, select **Start/Program Files/GIRA-SOFTWARE/HS+FS/**. All previously installed Expert versions in the respective language variants can be found in this folder.

4.1.1 Installation paths (from Expert software Version 2.10)

The paths for the version currently installed can be found in the ReadMe file, which is in the experte.exe directory after installation.

4.2 Changing the preset IP address

Normally it is not necessary to carry out changes in Expert for the function test or initial start-up. But they can be carried out relatively simply with the sample project already created in the HomeServer.

However, if you wish for example to integrate the HomeServer into an existing network in which the preset IP address 192.168.0.11 has already been assigned to another network participant, the HomeServer IP address can be changed at a later time.



Note: Changing the network settings.

Changes to the network settings of the HomeServer or your local network must always be coordinated with your network administrator and implemented by the administrator if necessary.

How to change the IP address in the sample project later:

1. In Expert, open the sample project (e.g. samplexxx.hs3).
2. Select **Project**. The project settings of the sample project are displayed.
3. Select the **Network tab**.
4. Enter the new IP address of the HomeServer in the **HomeServer IP** line.

The address is now changed in the Expert software. The data must be transferred to the HomeServer so that the HomeServer can be accessed via the changed IP address (see “Programming the HomeServer via the RS232 connection” on page 34 and “Programming the HomeServer via LAN” on page 35).

4.3 Programming the HomeServer via the RS232 connection

How to transfer the changed data directly from the start-up PC to the HomeServer:

1. Disconnect the HomeServer from the KNX/EIB (if necessary).
2. Connect the serial (RS232) port of the HomeServer to a COM port of the start-up PC.
Use the start-up cable included in delivery for this purpose.
3. Start the Expert software on your start-up PC. Open the sample project with the changed IP address (if necessary).
4. Select **Transfer**. The **Transfer Project** window opens.
5. Select **Via serial port**.
6. Next to **Serial port**, enter the number of your serial port (e.g. 1).
7. Activate **Transfer all data** for **Transfer mode**.
8. Switch off the HomeServer. Click on **Start**. Switch the HomeServer on again. The data is transferred directly to the HomeServer if three double signal tones were heard.
9. After the data has been transferred, disconnect the direct connection between the HomeServer and the start-up PC.
10. Connect the HomeServer to the KNX/EIB.

4.4 Programming the HomeServer via LAN

How to transfer the changed data from the start-up PC to the HomeServer when both devices are interconnected via a local network:

1. Start the Expert software on your start-up PC. Open the sample project with the changed IP address (if necessary).
2. Select **Transfer**. The **Transfer Project** window opens.
3. Select **Via network**.
4. Select **Address HomeServer directly** and enter the IP address and the port next to the **Address of the HomeServer**.
5. Under **User data for login to HomeServer** specify the **user name** (e.g. admin) and the **password** (e.g. admin).
6. Select **Transfer all data for Transfer mode**.
7. Click on **Start**. The data is transferred to the HomeServer via the network.
8. Open the sample project via your Internet browser or via the client program. The start page is available after 3 double signal tones are heard.



Note: Changing the IP address in the HomeServer.

If the HomeServer has already been in operation in the current network with the factory pre-set IP address and it was changed at a later time, the HomeServer may not be recognised in your network at first. In this case, switch the HomeServer off and then on again.

If the HomeServer is ready for operation, it signals this acoustically via three double signal tones. Please note that it may take several minutes until the complete network recognises the new IP address.

4.5 Further work with the Expert software

If you have successfully completed the function test or initial start-up of the HomeServer, you can then program the HomeServer for the special tasks of your project. Expert is used for this.

For programming, using the sample project included in delivery and modifying the requirements accordingly is **not** recommended.

Simply create a new project and progress step-by-step through the individual menu items and masks in the Expert software. Context-sensitive online help offers you support.

After successful programming in Expert, transfer the data to the HomeServer. The project is permanently saved there.

5. Important IP addresses

Your HomeServer can mainly be operated via the Internet, but also via a network connection. Here is an overview of the most important IP addresses. The following applies here:

- uuu = user name
- ppp = password
- hsn = name of the HomeServer in the portal
- ip address = IP address of the HomeServer
- nnn = own "permanent" IP address, e.g. with www.DynDNS.org

Example for an IP address:

192.168.0.11 (IP address of the HomeServer in state of delivery)

or

nnn.DynDns.org

5.1 Opening the user interface

Address	Meaning
http://ip-address/hs or http://ip-address/hshtm	Calling up the HomeServer user interface via an Internet browser. A Login mask appears. Entering the user name and password opens the user interface.
http://ip-address/shs or http://ip-address/shshtm	Calling up the HomeServer user interface via an Internet browser in secure mode. A Login mask appears. Entering the user name and password opens the user interface. The password is encrypted in the process.
http://ip-address/hshtm?user=uuu&pw=ppp&cl=DES&ref=RRR The following applies: DES = Design (from: Expert/Project/ Design RRR = Refresh settings (from: Expert/Project/ Times)	Direct calling up of a user interface for a user without first running the Login mask.
http://homeserver.gira.de	Calling up the HomeServer portal. A menu is displayed for the user to log in with login data saved in the HomeServer.
http://homeserver.gira.de/hslogin.php?hsname=hsn	Calling up the HomeServer portal. Direct access to the HomeServer without the portal menu. The login data of the user must be stored in the HomeServer.

5.2 Calling up lists

Address	Meaning
http://ip-address/hslist	<p>Calls up the page for calling up lists.</p> <p>An entry mask is displayed for entering the list name, user and password.</p>
http://ip-address/shslist	<p>Calls up the page for calling up lists in secure mode.</p> <p>An entry mask is displayed for entering the list name, user and password.</p>
http://ip-address/hslist?lst=LLL&user=uuu&pw=ppp With: LLL = name of list	<p>Calling up a list directly.</p> <p>Observe that the call-up for the specific list must be saved in the HomeServer and that the user must have rights to call up lists.</p>

5.3 Operating with WAP

Address	Meaning
http://ip-address/hswap.wml	<p>Calling up the HomeServer user interface in WAP browser mode.</p> <p>A Login mask is displayed for the user to log in with login data saved in the HomeServer.</p>
http://homeserver.gira.de/hswap.wml	<p>Calling up the HomeServer portal in WAP browser mode.</p> <p>A Login mask is displayed for the user to log in with login data saved in the HomeServer.</p>
http://homeserver.gira.de/hswap.php? hsname=hsn	<p>Calling up the HomeServer portal in WAP browser mode.</p> <p>This is direct WAP access to the HomeServer without the Login mask.</p>

5.4 Short explanation of important terms

Term	Meaning
HomeServer portal	Internet portal enabling access to the user interface of the HomeServer.
DynDns.org	Free Internet service via which the HomeServer can be assigned a "permanent" name on the Internet. The HomeServer can then be accessed directly with the name created here.

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