Instructions for setting up the network in the studNET of Studentenwerk Leipzig – DHCP

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studNET-website:

https://www.studentenwerk-leipzig.de/en/housing/studnet/

studNET-Helpdesk:

https://studnet.studentenwerk-leipzig.de

Dear tenants,

These instructions are intended to help you configure the network access in your dormitory room at Studentenwerk Leipzig. Please read the instructions for your operating system or device carefully. You will need your access data for the set-up, which you have received from the responsible housing officer.

1. Quick start/general information

Setting up the Internet connection consists of two steps, regardless of the operating system or device:

1) Configuration of the network connection to automatically assign IP settings (DHCP).
2) Authentication on the login server. On Windows operating systems, Linux operating systems and macOS, authentication is carried out using the ssh command in the command prompt or in the terminal.

This guide contains exemplary instructions for three operating systems and two Wi-Fi router manufacturers. Please note that individual steps may differ for different versions of operating systems or Wi-Fi router models.

2. Windows (version 10 or later)

2.1   The following are the instructions for DHCP configuration on the Windows computer that is directly connected via the cable to the network outlet (**no Wi-Fi router!**).

- Press the Windows key and R at the same time.
- Type **ncpa.cpl** and press Enter.
- Right-click on the Ethernet connection and select Properties.
- Choose Internet Protocol Version 4 (TCP/IPv4) and click Properties.
- Select Obtain an IP address automatically (DHCP) and Obtain DNS server address automatically
- Confirm with OK and close the window.

2.2   Please follow the steps below to establish an ssh connection and to authenticate on the login server:

- Press the Windows key and R at the same time.
- Type cmd and press Enter.
- The command prompt will open.
- Type in the following command and press Enter:
  ssh tenantnumber@139.18.143.253
- (**Note: This is the only correct IP for the ssh command!** Replace "tenant number" with your own tenant number.)
- Confirm with yes.

- Enter your password and press Enter. (Please note that for security reasons, no characters will be displayed while typing.)
- Once the message "Welcome to studNET" is shown, the connection has been established successfully.

Leave the command prompt window open as long you want the connection to remain active.

3. Linux (e.g., Ubuntu)

3.1   The following are the instructions for DHCP configuration on the Linux computer that is directly connected via the cable to the network outlet (**no Wi-Fi router!**).

- Open Settings.
- Click on Network, then on Wired.
- Open the Properties.
- Select the IPv4 section.
- Choose IPv4 Method Automatic (DHCP) and DNS Automatic.
- Press Apply to save the settings.

3.2   Please follow the steps below to establish an ssh connection and authenticate toon the login server:

- Open the Terminal.
- Enter the following command and press Enter:
  ssh tenantnumber@139.18.143.253

(**Note: This is the only correct IP address for the ssh command!** Replace "tenant number" with your own tenant number.)

- Confirm with yes.
- Enter your password and press Enter. (Please note that for security reasons, no characters will be displayed while typing.)
- Once the message "Welcome to studNET" is shown, the connection has been established successfully.

Leave the terminal window open as long as you want the connection to remain active.

4. macOS

4.1   The following are the instructions for DHCP configuration on the MacBook/iMac that is directly connected via the cable to the network outlet (no Wi-Fi router!).

- Open the Settings app. Select Network.
- Click on Ethernet and then click on More Options at the bottom right.
- Go to the TCP/IP tab and open the dropdown menu next to Configure IPv4. Select DHCP.
- Confirm with OK.
- Press Apply to save the settings.

4.2   Please follow the steps below to establish an ssh connection
        and authenticate on the login server:

- Open the Terminal app.
- Enter the following command and press Enter:
  ssh tenantnumber@139.18.143.253
  (**Note: This is the only correct IP address for the ssh
  command**! Replace "tenant number" with your own
  tenant number.)
- Confirm with yes.
- Enter your password and press Enter. (Please note that
  for security reasons, no characters will be displayed
  while typing.)
- Once the message "Welcome to studNET" is shown, the
  connection has been established successfully.

Leave the terminal window open as long as you want the
connection to remain active.

5. Using routers/Wi-Fi

Please observe the following in order to establish a connection via a
Wi-Fi router:

- An access point or repeater is not enough – you
  absolutely need a Wi-Fi router.

- For detailed instructions, you may want to watch our tutorial videos available at the following link:

https://www.studentenwerk-leipzig.de/en/housing/studnet/

6. TP-Link routers

- Connect the network outlet to the WAN port of the router using an Ethernet cable.
- Connect to the router's Wi-Fi.
- Open a web browser and enter http://tplinkwifi.net or http://192.168.0.1 in the address bar.
- Enter the username and password (by default, both are admin, which is written on the back of the device) or create a new password.
- Go to the menu option Operation Mode.
- Select Wireless Router.
- Go to the menu option Network, then the sub-option WAN
- Select Connection Type: Dynamic IP.
- Press Save

Proceed with the authentication on the login server (section 2.2, 3.2, or 4.2).

7. Fritz!Box routers

- Connect the network outlet to the WAN port of the FRITZ!Box using an Ethernet cable.
- Connect to the FRITZ!Box Wi-Fi (details on the back of the FRITZ!Box).
- Open a web browser and enter http://fritz.box or http://192.168.178.1 (default settings).
- Alternatively, use the emergency IP http://169.254.1.1.
- Enter the password (given on the back of the FRITZ!Box).
- Go to the menu option Internet.
- Select Access Data.
- Select Internet access via: Cable modem or Internet router.
- Press Change connection settings.
- Select Obtain IP address automatically via DHCP.
- Confirm with OK.

Proceed with the authentication on the login server (section 2.2, 3.2, or 4.2)

8. Cable/DSL FRITZ!Box

Note: This option may not work, as the dormitory connection is not a cable or DSL connection.

- Connect the network outlet to the LAN1 port of the FRITZ!Box using an Ethernet cable.
- Connect to the FRITZ!Box Wi-Fi (details on the back of the FRITZ!Box).
- Open a web browser and enter http://fritz.box or http://192.168.178.1 (default settings).
- Alternatively, use the emergency IP http://169.254.1.1.
- Enter the password (given on the back of the FRITZ!Box).
- Go to the menu option Internet.
- Select Other/Additional Internet Providers until the option to connect to a Cable Modem is shown and can be selected.
- If the option Cable Modem is not shown, the option does not work with this FRITZ!Box.
- After having made the selection, the LAN1 port will change to WAN port.
- Under Change connection settings, select: Obtain IP address automatically via DHCP.
- Apply the settings.

Proceed with the authentication on the login server (section 2.2, 3.2, or 4.2)

9. Contact

studNET helpdesk to report malfunctions and in case of questions:

https://studnet.studentenwerk-leipzig.de

Important:
If possible, please attach a screenshot (or text document) of the network settings (IP address/manual settings/Internet Protocol version 4) of your LAN/ethernet adapter to the detailed description of the failure or problem.
Please provide us with specific information about the operating system you are using and the type of network connection (cable/USB ethernet adapter/Wi-Fi) as well as any error messages.