

The DHBW Karlsruhe provides students, professors and lecturers access to WLAN for teaching purposes. It allows mobile users to access local servers as well as the Internet throughout the whole building. Except KA-WLAN, all WLANs are encrypted with WPA2 Enterprise.

### DHBW-KA

internal WLAN of the DHBW Karlsruhe

### DHBW-KA5

5 GHz WLAN for testing purposes

### eduroam

is available at many educational institutions all over the world and in different parts of the inner city of Karlsruhe.

You can find a list as well as a map of the participating locations on the following website: <https://map.eduroam.de>.

At <https://cat.eduroam.org> you can download an configuration tool, which simplifies the setup.

### KA-WLAN, KA-sWLAN

for our guests. These WLANs are provided by INKA.ev and allow you access only to the internet. No internal resources are available. Further informations can be found at <https://www.ka-wlan.de/info.html>

### Basic parameters for the installation

- Obtain an IPv4 address and DNS settings automatically (via DHCP)
- WPA2/AES Enterprise (802.1X) encryption
- Authentication method PEAP with MSCHAPv2
- username@dh-karlsruhe.de (usually last-name.firstname@dh-karlsruhe.de)
- Password of the academic teaching domain dh-karlsruhe.de
- Issuer of the certificate : T-Telesec GlobalRoot Class 2
- QR-Code for cat.eduroam.org.



Detailed instructions, including text and pictures, can be found here:

[https://www.karlsruhe.dhbw.de/fileadmin/user\\_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLAN-DHBW-KA-eduroam-setup.pdf](https://www.karlsruhe.dhbw.de/fileadmin/user_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLAN-DHBW-KA-eduroam-setup.pdf)

### General notes

Please note that the WLAN is a shared medium, which means a number of users simultaneously use a single access point and share the available bandwidth. In the 2.4 GHz band 802.11b/g there are also a few sources such as Bluetooth devices or microwave ovens that could interfere the connection. Therefore, fast and reliable connectivity cannot be guaranteed for all participants. If your device supports 802.11a (or 802.11n 5GHz, or 802.11ac), you can, however, switch to this range to get a faster throughput and less interference.

### Smartphones, tablets and mobile phones

Due the variety of operating systems, hardware, and technology platforms, it cannot be ensured that every single mobile device is able to connect to the local WLAN. For this reason, the network team isn't offering any kind of assistance concerning this matter. However, there are some configuration examples given in the following file in case you want to try it on your own initiative:

[https://www.karlsruhe.dhbw.de/fileadmin/user\\_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLAN-DHBW-KA-eduroam-setup.pdf](https://www.karlsruhe.dhbw.de/fileadmin/user_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLAN-DHBW-KA-eduroam-setup.pdf)

### User Agreement / Disclaimer

By using the WLANs provided by the DHBW Karlsruhe, you commit yourself to these rules and obligations:

It is strictly forbidden to provide or distribute copyrighted, harassing, indecent, harmful to minors, libelous, threatening or otherwise illegal content and send unsolicited bulk emails (spam). Any contraventions are punishable and will be prosecuted with all legal means.

## Frequently Asked Questions:

**Q:** What is "dh-karlsruhe" and how can I get my personal password?

**A:** dh-karlsruhe is a domain on the local network of the DHBW Karlsruhe. The WLAN controller uses the corresponding active directory for its user authentication. All necessary data is provided by the Education Support Center (ESC) within the scope of an introductory event.

**Q:** Are there guest accounts available?

**A:** While people from other universities are supposed to use eduroam, temporary guests can use the publicly accessible KA-WLAN. More information about it can be found at <https://www.ka-wlan.de>. Teachers can also apply for an account by sending an email to [support@dhbw-karlsruhe.de](mailto:support@dhbw-karlsruhe.de).

**Q:** Am I able to print while using the WLAN?

**A:** Yes, please check [https://www.karlsruhe.dhbw.de/fileadmin/user\\_upload/documents/content-de/Einrichtungen/IT.Service-Center/Druck-Kopier-und-Scan-Service-fuer-Studierende.pdf](https://www.karlsruhe.dhbw.de/fileadmin/user_upload/documents/content-de/Einrichtungen/IT.Service-Center/Druck-Kopier-und-Scan-Service-fuer-Studierende.pdf) for further information.

**Q:** Can I send emails over SMTP?

**A:** Yes, please use port 587 (TCP) for this purpose.

**Q:** I can log in at the DHBW in eduroam, but not outside, why is that?

**A:** Did you specify the realm "@dh-karlsruhe" for the username?

**Q:** I can not access a specific service, are some ports and services blocked?

**A:** Yes, for security reasons and network utilization, not all possible Internet services are accessible from the DHBW Karlsruhe network.

## Recommended links and downloads:

Installation instructions for the SSIDs DHBW-KA & eduroam

[https://www.karlsruhe.dhbw.de/fileadmin/user\\_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLAN-DHBW-KA-eduroam-setup.pdf](https://www.karlsruhe.dhbw.de/fileadmin/user_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLAN-DHBW-KA-eduroam-setup.pdf)

This flyer

[https://www.karlsruhe.dhbw.de/fileadmin/user\\_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLANFlyer-english.pdf](https://www.karlsruhe.dhbw.de/fileadmin/user_upload/documents/content-de/Einrichtungen/IT.Service-Center/WLANFlyer-english.pdf)

These document are also available for employees at <https://portal.dhbw.de> at

[KARLSRUHE-1010611479-18](https://portal.dhbw.de/portal/1010611479-18)

General instructions regarding the dh-karlsruhe domain

[https://www.karlsruhe.dhbw.de/fileadmin/user\\_upload/documents/content-de/Einrichtungen/IT.Service-Center/STUDENT.pdf](https://www.karlsruhe.dhbw.de/fileadmin/user_upload/documents/content-de/Einrichtungen/IT.Service-Center/STUDENT.pdf)

Root certificate of T-Telesec GlobalRoot Class 2

[https://www.pki.dfn.de/fileadmin/PKI/zertifikate/T-TeleSec\\_GlobalRoot\\_Class\\_2.crt](https://www.pki.dfn.de/fileadmin/PKI/zertifikate/T-TeleSec_GlobalRoot_Class_2.crt)

Setup tool for eduroam

<https://cat.eduroam.org>

Contact address of the local network team

[netz@dhbw-karlsruhe.de](mailto:netz@dhbw-karlsruhe.de)



## Internet access via

# WLAN

First steps for students and teachers

Valid as of September 1, 2019