

# Networks & Connectivity

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# Eduroam Configuration

The Telecommunications Institute is covered by a wireless network, thus allowing transparent and fast access to the network and the Internet.

Two networks are available, whose names (SSID) are IT-Coimbra and EDUROAM. The IT-Coimbra network has local addressing common to the wired IT network, allowing access to the resources there (for example, printers). The EDUROAM network is integrated into the European network, so it only allows access to the Internet and not to local resources. Both are configured in the same way, which will be described below.

Regarding technical specifications, the definitions to be used for network access are as follows:

Definition	Description	Value to set
Wireless Type	Types of wireless networking technology that supports wireless networking	802.11 a/b/g/n Bandwidth up to 900Mbps per space Support for 2.4GHz and 5GHz frequencies
SSID	Wireless Network Name	IT-Coimbra / EDUROAM
Wireless Protection	Wireless Encryption System Type	WPA 2 (AES/CCMP, Dynamic)
Authentication (802.1X)	Method of authenticating a device / user to a protected network	EAP-PEAP + MSCHAPv2
Certificate Validation	Digital Certificate Verification and Validation System	Do not check / Disabled
Login	Login of the user who wants to connect to the network	Email address with the format @it.uc.pt (for example, user@it.uc.pt )
Password	Password of the user who wants to connect to the network	Password of the respective account

In case of difficulty, you can contact the Helpdesk service, through the [helpdesk@co.it.pt](mailto:helpdesk@co.it.pt) address.

# Equipment Housing

Housing & Colocation service is available at the DEEC / ISR / IT Common Datacenter. This service is the colocation of the server or other computer equipment with network access.

Since the server is provided by the client, it will also be configured, administered and maintained (hardware) by the same. This way, its owner can install the software he wants as well as configure it carefully.

The space dedicated to this service has redundant connections to the network core and UPS connection and is physically limited, so new orders need to be checked for availability.

## Benefits and Features

- Energy - UPS access, ensuring greater electrical safety and equipment stability
- Temperature Control - HVAC (Temperature and Humidity Control) system provides constant temperature and relative humidity control
- Network core connection - Direct network core connection for increased stability, superior access speed and low latency between applications and users
- Security - Limited Access Space Enables Greater Equipment Security

## Owner Responsibilities

- Installation
- Configuration
- Maintenance
- Operation
- Backups
- Software Updates
- Problem solving
- Licensing

## Anomalies and Problems

For security reasons, if anomalies are detected (viruses, malicious software, software malfunctions, etc.), security breaches (attacked accounts, etc.) or any other issues that have a potential impact on the remaining infrastructure, The equipment will be immediately disconnected from the network

and delivered to the owner to correct the identified situations.