

Dyport - Setting up MAC Authentication Bypass (MAB)

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FAQ-Artikel-Ausdruck

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Schlüsselwörter

Datennetz Dyport Netzwerk

Lösung (öffentlich)

MAC Authentication Bypass (MAB)

The MAC address of the computer is used to carry out the network assignment when the network connection is activated. The MAC address must be known in the Dyport portal. Each MAC can only be entered once. The network assignment can be changed in the Dyport portal.

If the requested VLAN is not available at the location, the Dyport system selects a fallback network, if available. The building, facility, network type and connection are taken into account.

Unknown devices are assigned a guest network if the connections are located in places that are not accessible to the public. A network connection should not be possible for unregistered devices at publicly accessible locations.

Web portal

There is a web portal for Dyport: [1]<https://dyport.zih.tu-dresden.de>

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"Overview" tab

Lists computers that have been registered via the logged-in ZIH user name.

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"Add device" tab

The resources displayed under point 03. can be selected via the "VLAN:" pop-up field.

The hardware MAC address of the device to be registered must be entered in the "MAC address:" field.

You can select the "Expiry date" and "Comment" yourself.

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"Resources" tab

List of all usable resources (VLANs and VPN) of the logged-in user name
In case of doubt, you can obtain information about which VLAN is available in which building from your network administrator.

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"Help" tab

Help on Dyport for users and admins

Registering a MAC address for Dyport

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Log in to the website [2]<https://dyport.zih.tu-dresden.de>

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Click on the "Add device" tab

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Under "VLAN:", select the resource to which the MAC address is to be assigned (if necessary, ask your IT administrator which one this is)

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Under "MAC address:", enter the MAC address determined for the Ethernet port of your device (to determine the MAC address, see above)

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If necessary, select an "Expiry date:" and enter notes on the description of the device under "Comment:".

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Click on "Submit:"

After approx. half an hour, your device will be registered in the Dyport via the MAC address and it will then receive the correct network access

Determining the MAC address of a computer

- Windows:

Open a cmd window

Enter "ipconfig /all"

Under "Ethernet adapter Ethernet:"
you will find

Physical address : aa-bb-cc-dd-ee-ff

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Linux:

In an X terminal, enter
dmesg | grep eth0
it may say"enpXXXXX: renamed from eth0", then search for enpXXXXX instead of
eth0 (otherwise for eth0):
ifconfig -a
eth0 Link encap:Ethernet HWaddr aa:bb:cc:dd:ee:ff
or
enpXXXXX Link encap:Ethernet HWaddr aa:bb:cc:dd:ee:ff

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MacOSX:

"System Preferences" --> "Network" -->
Click on the Ethernet device in the left column, then click on "Advanced" on
the right --> under the "Hardware" tab you will find the
MAC Address: aa:bb:cc:dd:ee:ff

Guest network

The "guest network" is the network to which a computer not registered in
dyport is connected to Ethernet ports in closed rooms (fallback). The guest
computer receives a private IP address, which is translated to a routed IP
address to reach the Internet (NAT = Network Address Translation). Access to
the Internet is also restricted. The following is a list of the activations
for the guest network:

Service

Ports

Destinations

icmp

echo, unreachable

any

named,dns

udp/53, tcp/53

141.30.1.1, 141.76.14.1

web

tcp: 80,443,8080,8443

any

mail

tcp: 465,993,995,imap4,pop3,587

any

ftp

tcp/21

any

ssh

tcp/22

any

VPN

ESP, udp: 443,500,4500,10000

any

ntp

udp/123

141.76.10.160, 141.76.32.160

All other connections are not allowed.

[1] <https://dyport.zih.tu-dresden.de>

[2] <https://dyport.zih.tu-dresden.de>