



CAMPUSNET

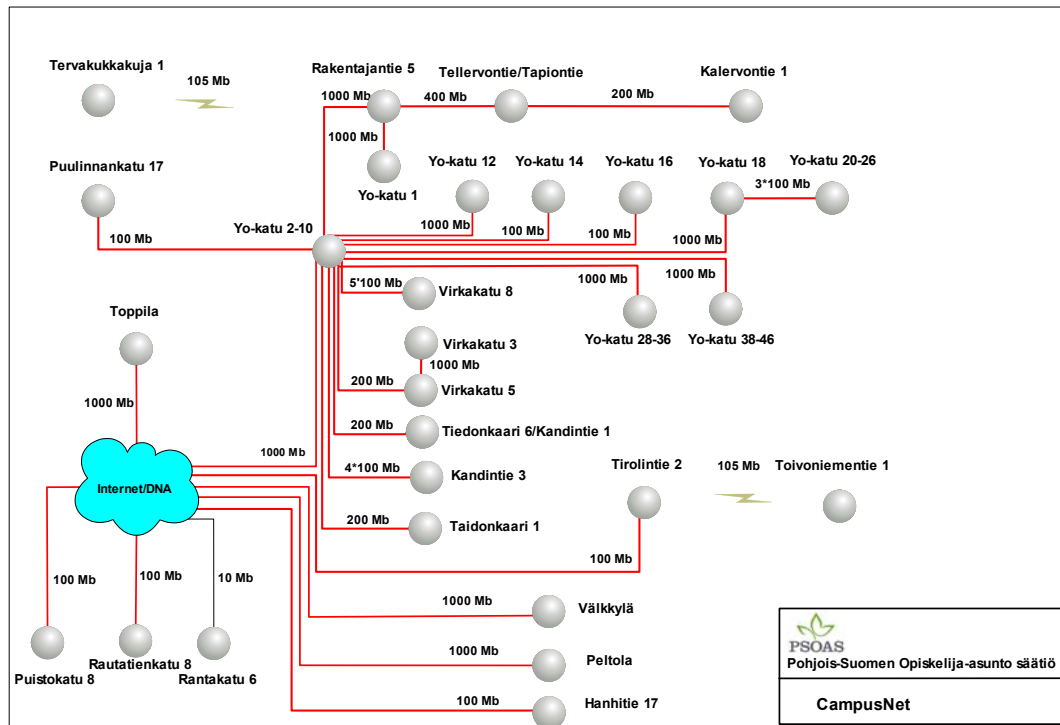


General information about CampusNet network

The structure of the network

The Ethernet-network of PSOAS housing is called CampusNet-network. The houses / the dwellings are connected using a fibre network. In Tervakukkakuja, Domus Botnica and Sellukatu 6 there are radio link connections (105 Mb/s). In Domus Botnica there is a HomePNA-network (1/1 Mb/s) and in Virkakatu 3 an ADSL-network (12/1 Mb/s). In other locations an Ethernet-network (100/100 or 10/10 Mb/s) is used. There are 3961 access points (max. users). Bandwidths 100 - 1000 Mb/s are used in the backbone network (situation 20.2.2009).

Below is a picture of the structure of the backbone network and bandwidths used in Campus -network (20.2.2009).



CampusNet -network

Data transfer rate

Below is estimated the time needed to transfer a file which size is 1 megabyte (8 megabit) from the network to your own computer.

| Connection speed | Time |
|------------------|-----------|
| 8 Mb/s | n. 1.25 s |
| 4 Mb/s | n. 2.5 s |
| 2 Mb/s | n. 5 s |
| 1 Mb/s | n. 10 s |
| 500 kb/s | n. 20 s |
| 256 kb/s | n. 40 s |

| Terms |
|---|
| B = byte = tavu b = bit = bitti 1 B = 8 b |
| For example: 1 KB = 1000 B = 8 Kb = 8000 b |
| The speed is reported B/s or b/s |

The bandwidth of CampusNet –network

The bandwidth of CampusNet network is varying depending on where you live. The most common bandwidth is 100/100 Mb/s. In some locations the bandwidth is 10/10 Mb/s or 12/1 Mb/s (Domus Botnica 1/1 Mb/s). You can check the bandwidth of your location from the CampusNet www-server: http://10.132.0.2/CampusNet/CampusNetin_nopeus/CampusNet_nopeus.pdf.

The speed of the Internet traffic is either 5/3 Mb/s or 10/10 Mb/s dependent on which type of connection you have. The bandwidth is dependent on the traffic target (domestic / international / the area data network of DNA). In addition the protocol used has affection on the bandwidth (for example the bandwidth of P2P-programs is limited). Because of shared bandwidth (common capacity is shared among users), the bandwidth varies depending on the time of day. Campus network is used most actively in the evenings.

IP-addresses

In the internal traffic of CampusNet network IP-addresses are distributed by the DHCP-server. The form of the IP-address is 10.1xx.xxx.xxx. When starting the CampusNet you get the public IP-addresses needed in the traffic outside CampusNet network. IP-addresses are dynamic public IP-addresses.

Data security and antivirus software

There are no firewalls or antivirus software in CampusNet network. Everyone must him- / herself take care of data security and virus protection. If there is an "infected" computer in the network the interface will be closed. After the computer has been cleaned you can have your interface opened by calling PSOAS accommodation office (3173 110) or Toivo Timonen (tel. 044 7573115). You may ask for the newest antivirus software from your college. The students in the University in Oulu can for example ask for the antivirus software from the Computer Service Centre of the University of Oulu.

CampusNet support

Please, contact PSOAS in any questions and problems concerning Campus network and the Internet traffic. Faults in CampusNet are repaired during working days between 8 am and 4 pm. We aim to repair problems in user interface the next working day after the fault report at the latest. You can make a fault announcement to PSOAS accommodation office, PSOAS CampusNet technical support or on PSOAS web-site (Avux).

When calling CampusNet support please tell us the following things in order to help us find out where and what the problem is

- Name and user name
- Your address
- Service class
- The operating system of your computer
- Date and time, when the fault appeared
- How the fault appeared
- When calling CampusNet technical support please keep your computer nearby if possible

Technical support:

Toivo Timonen.
Tel. 044 757 3115
E-mail: toivo.timonen@psoas.fi.

Antti Jaatinen
Tel. 0400 585 377
E-mail: antti.jaatinen@way4u.fi

Concerning CampusNet agreements, usernames and password please contact:

PSOAS accommodation office (during opening hours)
Mannenkatu 1 A 90100 Oulu
Tel. (08) 317 3110
E-mail: asuntotoimisto@psoas.fi

Maintaining the CampusNet network

Because the CampusNet network is a pretty large uniform data network we have to perform maintenance on the network weekly. Maintenance cannot always be done without disturbance in the traffic. If the outage caused by the maintenance takes less than 5 minutes and the disturbance concerns less than 100 users it won't be announced beforehand. Longer outages will be announced on PSOAS web-site (<http://www.psoas.fi/en>), 2 days prior to the outage and on the notice boards. If maintenance causes changes in the settings of your computer we shall send you information about changes by post. The maintenance work is mainly done between 8.00-12.00 am.

Disconnecting the interface

In cases of misuse or disturbance to traffic in the network like a faulty network card or an "infected" machine, PSOAS can disconnect the interface without a period of notification. The user will be informed of the closing by phone or mail.

Auxiliary equipments in the network

Note that auxiliary equipments like bridges or routers (for example wireless base stations) must not disturb other traffic in the network. For example the device may not work as a DHCP-server. If you have devices disturbing the network your Internet connection will be disconnected.

Before operating in CampusNet network

Please check the terms of acceptance before operating in CampusNet network.

An updated version of this guide can be found on the www-server of Campus network
Address: http://10.132.0.2/CampusNet/Setup_procedures/General_information_about_CN
and on PSOAS home page <http://www.psoas.fi>