

CNaaS in Norway

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Uninett CNaaS service operational as of June 2020

➤ Offered packages:

- CNaaS full package (3)
- CNaaS student dormitory (1)
- CNaaS wifi only (0)
- CNaaS wired campus network only (0)
- CNaaS campus routers only (12)

(current number of customers in parenthesis)



➤ Can be included:

- Complete IPv6 address space
- Extra IPv4 address space (+ reuse existing)
- NAT44 service for wireless network
- DHCP service (for IPV4, SLAAC for IPv6)
- NTP service
- DNS firewall
- eduroam - including local radius service
- eduVPN
- Access list management
- Monitoring package
 - Netflow analysis (currently nfdump/NfSen)
 - NAV (Network Administration Visualized)

Service delivery model

- ▶ Spring 2020: developed service level document (per service type)
- ▶ We prefer to include local hands in installation
- ▶ Need to fine tune operations as we gain experience:
 - 1st line of support at customer helpdesk
 - 2nd line at our NOC
 - core network monitored 24x7, access network monitored at daytime
 - 3rd line our cnaas experts

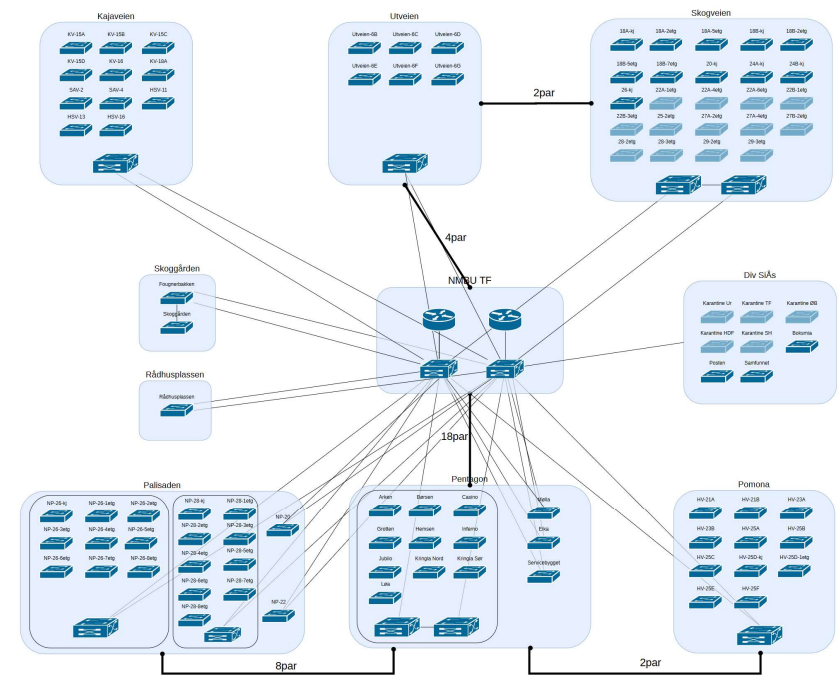


Payment model

- Established new framework agreement with supplier
- Uninett purchases, owns and maintains all equipment
- Two alternative payments models:
 - No establishment cost, fixed yearly cost
 - Upfront cost for all equipment and manpower to establish service + yearly cost for operations



Large case: CNaaS dormitory



Completely new network - 2200 dormitories (60% installed so far)

Today's students have high expectations...

Uninett provides:

- ▶ Dedicated Wifi access point in all dormitories
- ▶ Wired 1 Gbit/s
- ▶ eduroam
- ▶ Self service setup of personal SSID



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