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