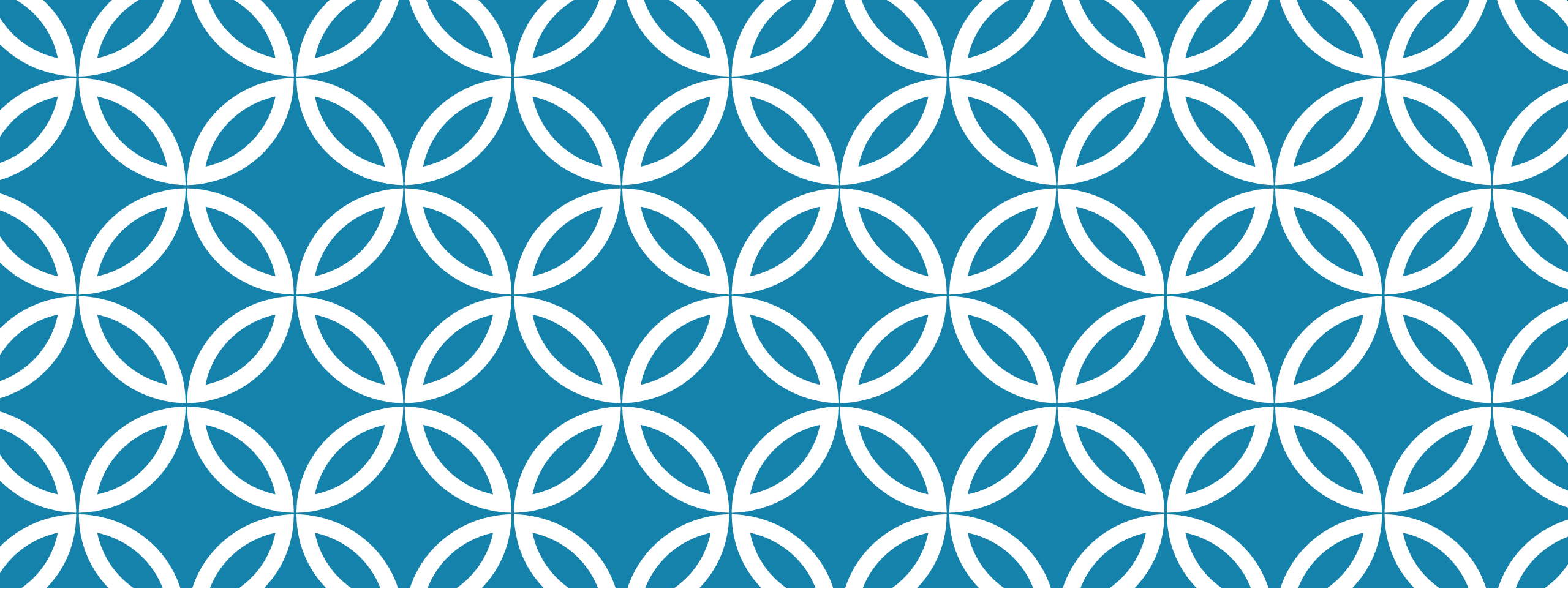SUNET

CNaaS
Campus Network as a Service

David Heed
Service coordinator

CNaaS - Campus Network as a Service

Our goal with CNaaS

"Share staff and expertise for campus network and security operations by standardizing network architecture, tools and processes."

- ❏ More automation; easier replacement of equipment
- ❏ No need of senior network engineer always on-site
- ❏ Production at some campuses and growing service
- ❏ Open transparent project on our Wiki and Github, please collaborate on thoughts to improve

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Business advantages for local Campuses

★ Standardised processes tested and improved for multiple Campuses

★ Higher security and repeatable quality

★ Clear overview of cost and lowering TCO over time with shared procurement and support

★ Does not lock local staff and resources, development and integrations is done in parallel

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Technological advantages with CNaaS

❏ Existing NOC monitors and can create tickets 24/7. No need for local staff on call if case handled without hardware replacement
❏ Continuity of competence, long term commitment between organisations
❏ Spare depot without delays and troublesome change/support requests Keeping track of warranty
❏ Procurement done in bulk and supplychain centralised. Saves time/money
❏ Proactive maintenance and change of equipment even in smaller sites
❏ Independent of manufacturer and on the clients side, all resources and work are done for and together with participating Campuses. Every improvement is shared with all
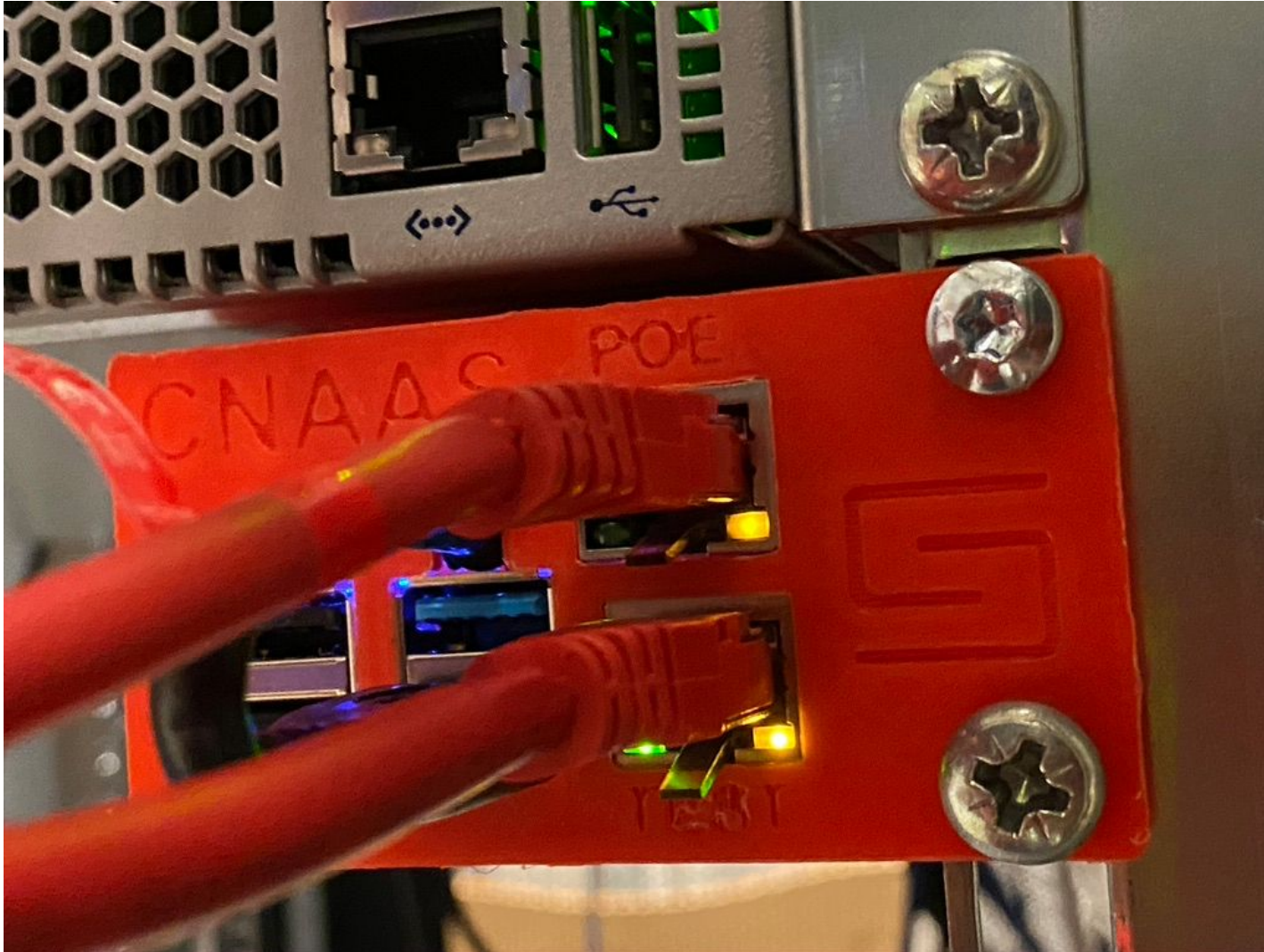
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Partnership on this new service

Together we will share experiences, scripts, configurations and tools.

Active dialogue to improve the service to fit other NRENs needs. Collaborative development to share costs on wider deployment.

Making NAV, Argus and CNaaS NMS work for a NOC and local campuses it could be a reference and example for other European Universities and NRENs.

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Monitoring local networks

(2NIC POE <1U <€100)

Perfsonar dot1x extensions
Raspberry Pi extra POE nic

Shown in more details on
perfSONAR seminar

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Service timeline and future

2019

- Q3 Finalise procurement
- Q4 Automated deployment at SUNET-office
- Q4 Initial deployment of core infrastructure at first campus

2020

- Q1 - Final testing and changes, monitoring
- Q3 - Delivery report for actual service in production
- Q4 NMS install project on second campus

2021

- Q1 Ongoing dialogue with new customers
  (aim for 4-5+ customers this year)
- Start planning for new SUNET Core
- Add features

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Questions and moving on to demo