



Network Topics

Initial Thoughts

- Network configuration management
- SDN exploitation
 - Load balancing (firewalls, external traffic)
 - Virtual experiment facilities in the new data centre?
- Segment routing *Aka traffic management for worldwide distributed DC*
- White box switches
- Wi-Fi/5G integration
 - Seamless roaming between these technologies (with traffic staying at CERN...)

DC Architectures

- High bandwidth link to New CC
 - DWDM. Is this a research topic, though?
- In-rack networking
 - Whose switches? Impact on SDN & Network Fabrics
- IoT—FRU tracking, also DC environmental monitoring.
 - Network aspects
 - Transmission technologies: Wi-Fi, 5G, LoRa?
 - Traffic segregation & Security

Other

- LiFi?
- Innovative Campus Services?
 - Claudio: offload of service, e.g. encryption, to NICs
- TETRA/PMR/LTE convergence
- Alberto: Content Delivery Networks?
 - Should consider this as part of how we manage a global distributed data centre. Look at industry practices.

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