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CERN Computer Centre(s) Network evolution: achievements during the last 3 years and expected next steps

Wednesday, 29 March 2023 10:00 (25 minutes)

During HEPIX Fall 2019, a CERN presentation explained our plans to prepare the Computer Centre Network for LHC Run3. This year's presentation will explain what has been achieved and the forthcoming steps. Points to be covered include:
- the current CERN Datacentre Network architecture,
- how we handled a full datacentre network migration during COVID19 lockdown period,
- how the connections between the main datacentre and other CERN sites
(including a 2.4Tbps link for ALICE O2 setup, and a total of 2.1Tbps
connection to containers located on LHCb site) evolved,
- the new tools and features we introduced (Zero Touch Provisioning for Juniper switches, Vlan support up to the ToR),
- the issues we faced and how we handled them (bug affecting DHCPv6, hardware delivery delays),
- datacentre network plans for 2023, and
- the network setup and features to be deployed in the new Prévessin Computer Centre.

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