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## Network architecture and IPv6 deployment at CERN

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The network infrastructure at CERN has evolved with the increasing service and bandwidth demands of the scientific community. Analysing the massive amounts of data gathered by the experiments requires more computational power and faster networks to carry the data. The new Data Centre in Wigner and the adoption of 100Gbps in the core of the network are the latest answers to these demands. In this presentation, the network architecture at CERN and the technologies deployed to support a reliable, manageable and scalable infrastructure will be described.

The status of the IPv6 deployment at CERN, from a network perspective, will also be covered, describing the mechanisms used to provide configuration to network clients and to give service managers the ability to decide when and how they provide their services with IPv6. The deployment of network services like DNS or DHCP for IPv6 will also be described, together with the lessons learnt during this deployment.

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