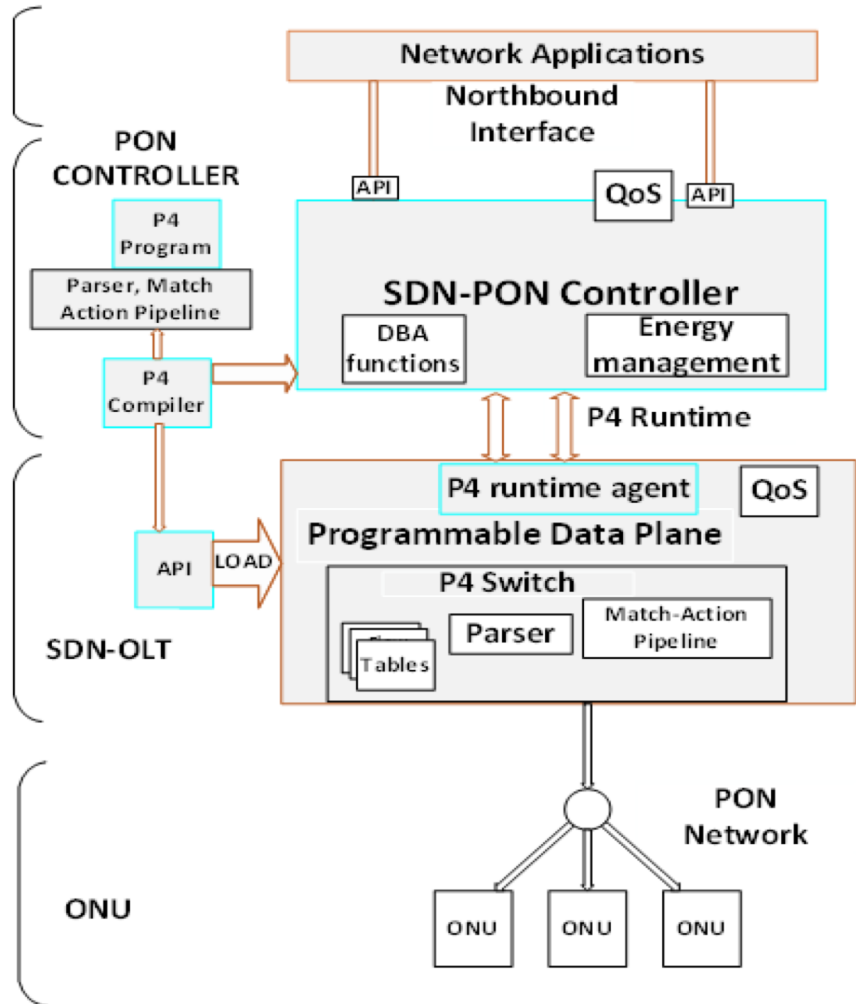


A P4-Based PON Architecture for 5G

Adebanjo Haastrup, David Rincón, Sebastià Sallent, J.Ramón Piney Dept. of Network Engineering, Universitat Politècnica de Catalunya, Barcelona, Spain. E-mail: adebanjo.haastrup@upc.edu



- Diverse sets of applications and services will emerge in 5G era
- 5G will need next generation PONs for higher capacity
- Next generation PONs come with complexity (Management, DBA and Energy) and need a new architecture
- **Our P4-based architecture will**
 - Introduce flexibility to improve the operation and management of networks.
 - Facilitate the introduction of energy-saving functionalities.
 - Enhance and ease the integrated management of backhaul and fronthaul in 5G networks with SDN and P4 technologies.