



# Network Roadmap

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The UBC Network (UBCNET) is deemed a core service to the UBC community and is a centrally provided service with full governance residing within UBC IT. Wired and Wireless mediums are used to deliver UBCNET. Wired services provide a minimum of 100Mbps and up to 1Gbps service to individual administrative users and up to 10Gbps for research users, 1 to 10Gbps for external Internet connectivity, and 100Mbps to student residential rooms (ResNet). All UBC administrative space is supplemented by full Wireless coverage, together with student residential common areas. Outdoor Wireless services are also deployed to select areas of the two UBC campuses: Vancouver and Okanagan.

The scope of UBCNET includes UBC Faculty, Staff, and Students, located at:

- University campuses: Vancouver Point Grey, Robson Square, and Okanagan
- Academic Hospitals: Vancouver Hospital, St Paul’s, and Children’s and Women’s
- UBC Distributed Medical School: spans UBC, UNBC, and UVIC campuses
- Remote Offices: Vancouver Eastside Learning Initiative, Agassiz Farm, Malcolm Forest, etc.

Network Virtualization and associated Virtualized Firewalls is an offered option to departments. As more departments rely on centralised Virtual Servers, Storage and Firewall services, Network Virtualization is quickly becoming the norm. The Network Roadmap over the next 5 years concentrates on Life Cycle replacement of Network Hardware, enhancing network security, remote access capabilities, and preparing for IPV6 deployment.

Bandwidth capacity/speed increases will be engineered as Life Cycling proceeds with a goal of supporting 100Gbps capability by 2015, this enhancement will be primarily be aimed at supporting Data Centre Networks and specific Data intensive Research Networks.

Year	Milestones
2010	Expand Core Router Capacity Life Cycle 15% of Network ports and Wireless AP’s.
2011	Packet Shaping expansion to accommodate increase in ResNet ports Secure Options for Network Management Tool Life Cycle Life Cycle 15% of Network ports and Wireless AP’s Engineer and Install new Data Centre Grid Network
2012	IPV6 deployment Network Access and Intrusion Prevention Planning Life Cycle 15% of Network ports and Wireless AP’s + Router Replacement Engineering for Packet Shaping for 10Gig capability
2013	Deploy Network Access Control Deploy 10Gig Packet Shaping service Life Cycle 15% of Network ports and Wireless AP’s+ Router Replacement
2014	Deploy Network Intrusion Prevention Life Cycle 15 % of Network ports and Wireless AP’s + Router Replacement

