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Network Presence

www.networkpresence.com.au

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- Open Source focused company
- VPS and Cloud Hosting and CoLo
- 100% Australian network based in world class data centers with fully protected power and multi vendor upstream Internet connectivity
- Connected to most Australian Peering networks including AARNet
- Linux, Cisco and Mikrotik network design and deployment
- Linux, Cisci and Mikritik SysAdmin
- ISP network deployment/management and network billing
ADSL
NBN (upcoming Onboarding and certification service)
TransACT
- VoIP servers and Call Termination
Asterisk

Mikrotik products for NBN ISP network infrastructure and connectivity

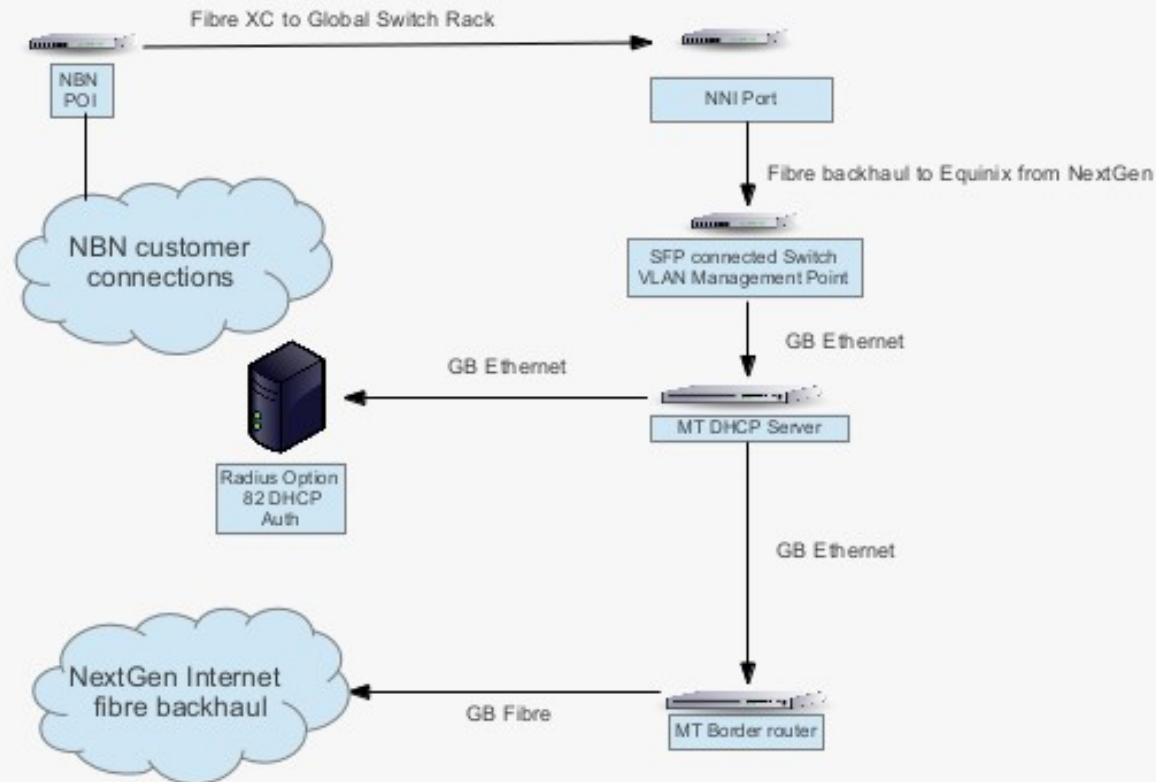
Basic NBN Topology

Mikrotik core router and DHCP server
Required network standards

Radius Authentication with DHCP Option 82

Mikrotik CPEs

NBN basic network topology for Access Seekers (ISPs)



Mikrotik NBN customer authentication/aggregation router

- QinQ and 802.1ad nested VLAN tagging
CVC and AVC customer connectivity VLANs
- DSCP traffic classification and VLAN priority tag conversion
- LAG and LCAP 802.3ad
- SFP fiber NNI connection

Radius authentication using DHCP option 82

- Mikrotik built in DHCP server supports Radius authentication using Option 82 Agent-Circuit-Id value inserted by NBN infrastructure
- Radius User records and default users with no passwords
- Running external scripts from Radius authentication
- Radius assigned Mikrotik shaping controls (simple queue)
- Radius assigned Static IP addresses with DHCP
- Dynamic IP address from Mikrotik DHCP pool
- Customer AVC VLAN creation for new DHCP address assignments- Manual or Dynamic?

Mikrotik CPEs with the NBN

- Standards compliance
- Security
- Stability
- Remote management
- Real QoS for VoIP and fair use enforcement
- VPN client and server
- 3G backup connections