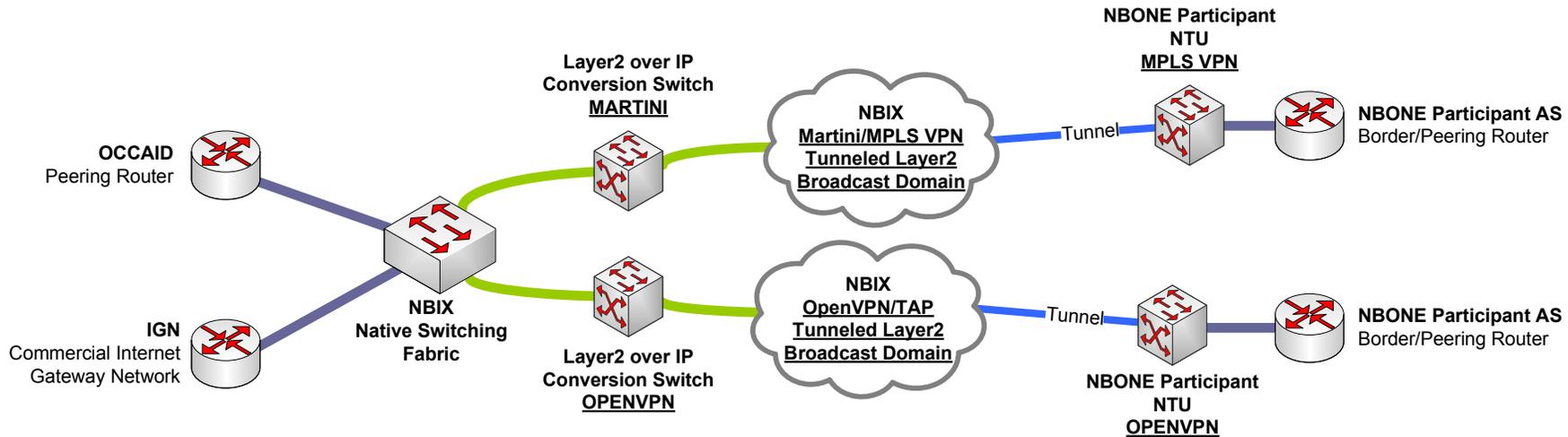




NBONE-IX (NBIX)

Experimenters' IPv6 Internet Exchange



ABOUT NBIX

NBIX is a distributed IPv6 Internet Exchange for individual and group-based Internet researchers to interconnect and peer each other's networks for experimentation and information sharing.

Experimenters may connect to the exchange using OpenVPN, L2TPv3 or Martini/MPLS-VPN tunnels. Each tunneled participant must designate a separate NTU device that will terminate the exchange point tunnels, thereby extending the Layer-2 broadcast domain all the way into participant's site. From there, the participant must connect its peering border router to the NTU, and receive its exchange point IP address to begin peering with other members of the exchange.

NBIX POLICIES

1. Peering is bilateral, even for the experimental Internet. There is no MLPA.
2. BGP-4+ or successor is used for peering and peers must properly set NEXT_HOP_SELF if advertising routes from other NBIX exchange participants.
3. Participants may not point default or otherwise use another participant's resources without permission.
4. Broadcast traffic may be not delivered to the exchange domain, except as needed for troubleshooting and normal operation.
5. Participants may NOT use any IP addresses on the exchange other than those assigned by the NBONE-IX operator. Only authorized peering IP address may be used.
6. Participants may provide Experimental Internet transit over the NBIX broadcast domain (switching fabric and tunneled layer-2 extensions). Commodity internet *transit* over NBIX exchange is **prohibited**. However, *peering* with commodity internet networks who may be present at the exchange and are willing to peer is permitted.
7. Only the 0x86dd IPv6 EtherType frames are permitted and forwarded across the NBIX exchange domain. Activation of any other protocols is prohibited.
8. Participants who wish to receive commodity Internet transit from NBONE-IX community should contact one of the Commercial Internet Gateway Networks (IGNs). The participant must run a separate, dedicated private circuit or a tunnel to the IGN's network to receive commodity Internet transit, not over the exchange point.