AT&T NetBond® for HPE Helion

Service Activation Overview
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AT&T NetBond® allows AT&T customers to extend their MPLS virtual private network to cloud services such as HPE Helion. With NetBond enabled, the HPE Helion VPC compartment or other traditional services will appear as another site on the VPN. Customers can then reach their HPE compartment over the VPN with reduced latency, improved security, and greater availability.

Using the AT&T Synaptic Cloud portal, the NetBond service can be quickly provisioned. The next few slides provide an overview to plan and enable the service.

Prior to enablement, the customer should have or procure service with HPE, and work with the AT&T account team to sign up for NetBond cloud services. Upon contract signing, the customer will receive a welcome email for credentials to www.synaptic.att.com.
Example Scenario – Customer with existing AT&T VPN & HPE Compartment

The next few slides provide an overview of a typical service activation. In this example, our customer has a private network with AT&T VPN service, and two representative US sites are shown that use BGP local ASNs 65100 and 65200. An existing HPE compartment in Tulsa, Oklahoma is ready with an IP address subnet of 10.20.20.0/24. In addition, the WAN Connectivity Layer (WCL) for HPE Rapid Connect is ready to accept a NetBond connection.
Using the AT&T Synaptic Portal, a new virtual network connection is created. At the designated location, our customer’s private network will be enabled on the AT&T routers at the meet-me point.
Step 2: VLAN Created

Next, a /29 address space allocated from the customer enterprise routing domain is supplied along with a VLAN name. The /29 space is used to configure two/30 subnets and initial BGP peering between AT&T and HPE. Upon completion, the Synaptic Portal provides a service key that identifies the newly provisioned VLAN. The service key is then sent to rapid.connect@hpe.com for final configuration.
Immediately after the VLAN provisioning, the two/30 subnets will appear in the customer network’s routing tables. All private ASN’s will be removed from the AS Path.
Upon receiving the service key generated on the AT&T Synaptic portal, HPE will finish provisioning the Rapid Connect environment. Upon completion, routes for the compartment will automatically propagate to the customer enterprise routing domain with the private ASNs stripped from the path.
Summary Steps

1. Obtain HPE Helion service.

2. Work with AT&T account team to sign up for AT&T NetBond services. Welcome letter will provide credentials to www.synaptic.att.com portal.

3. Create NetBond Virtual Network Connection (Required: Name of AT&T VPN, free-form name for Virtual Network Connection, and a minimum bandwidth commitment.)

4. Create NetBond VLAN. (Required: /29 address space & free-form name)

5. Send the service-key returned by AT&T Synaptic portal to rapid.connect@hpe.com for final provisioning. Turn around time is typically 2 calendar days.

6. Notify HPE if the total number of routes in the MPLS VPN routing table is greater than 5,000 routes.

Note: In the event you wish to delete a vlan, please coordinate these activities with HPE.
Considerations
Available Rapid Connect Regions for NetBond

Note: An individual HPE compartment can be provisioned with diversity in both Alpharetta and Suwanee. NetBond diversity can be achieved with a VNC created at each location.
If a customer is using a private ASN that overlaps with the HPE ASN, this can be accommodated by announcing a summary route from an alternate ASN. In the example above, 172.16.0.0/24 is announced from the same ASN as HPE. Due to BGP loop avoidance, the HPE routers will drop this route announcement. However, a summary route announced from ASN 65200 will be learned by HPE allowing traffic to be forwarded to AT&T. The AT&T routers will then forward packets to the more specific route announcement 172.16.0.0/24 announced by the customer edge router.