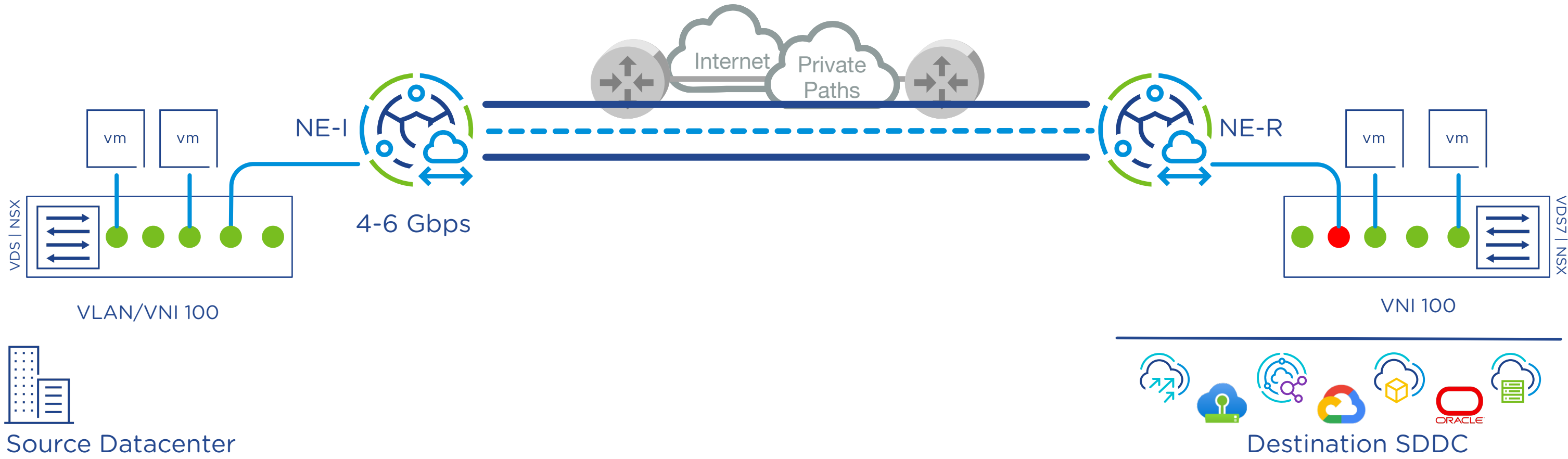


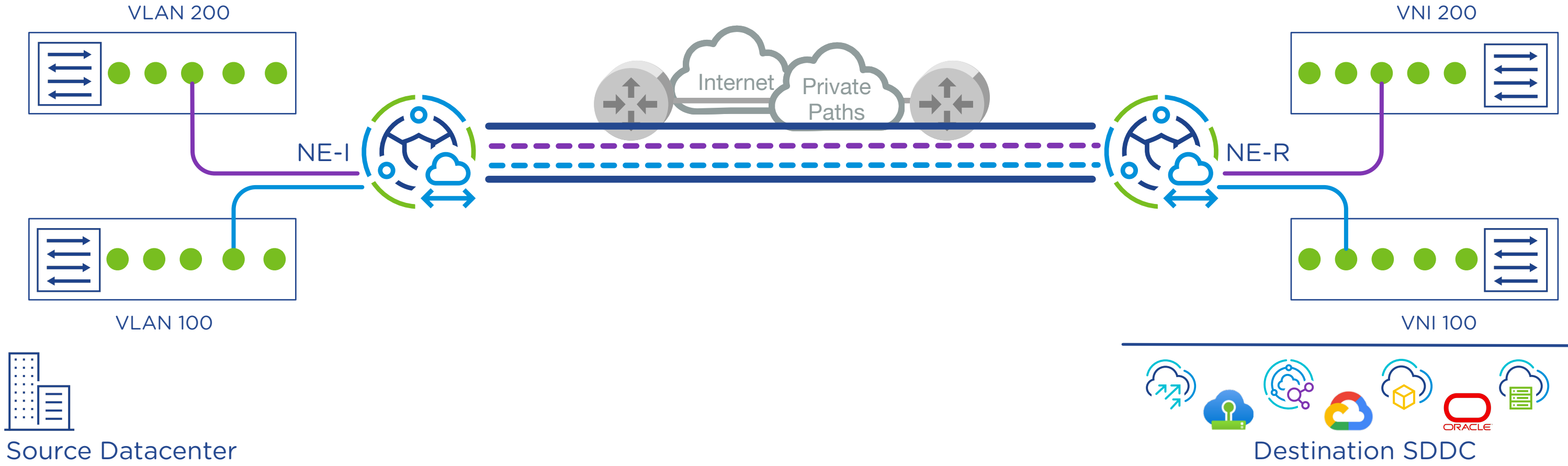
Single Site Pair Network Extension - Single Network Extension

- ◆ Source: DVS VLAN | NSX-V LS/DLR | NSX-T VLAN | NSX-T Segment
- ◆ Destination: NSX-T Overlay
- ◆ One NE appliance required per DVS | Transport Zone
- ◆ NE single appliance with 4-6Gbps forwarding capacity.



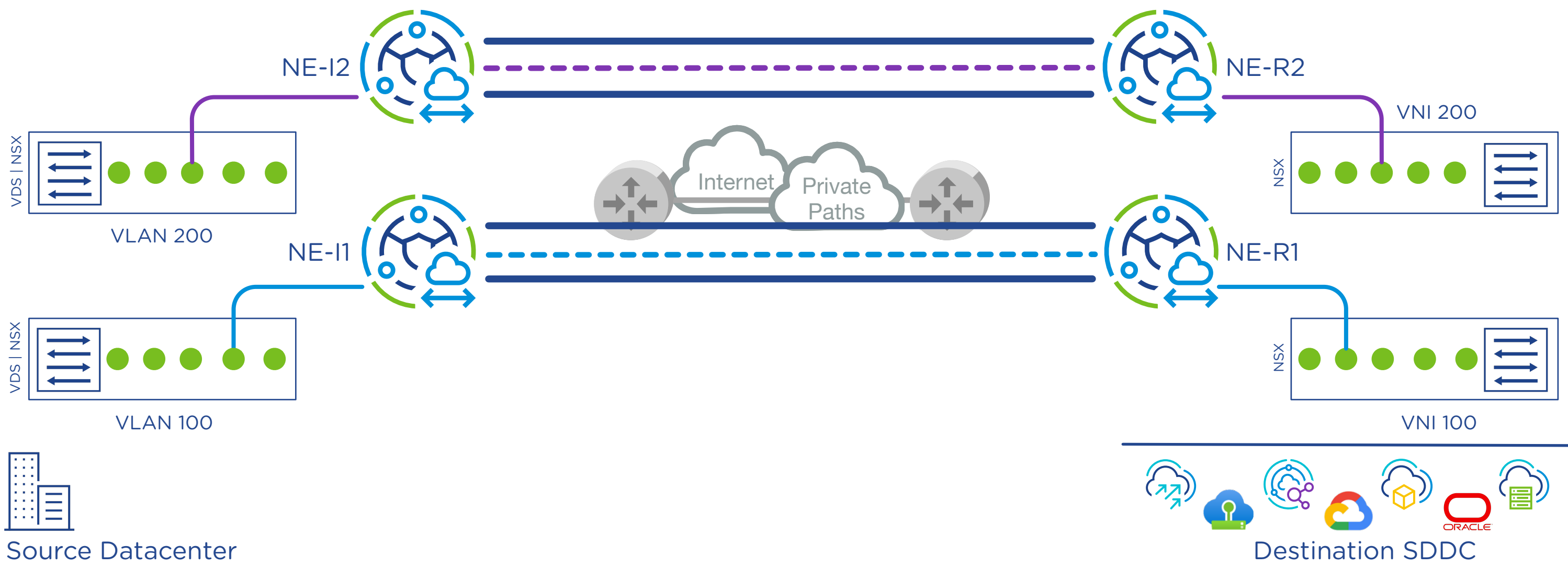
Single Site Pair Network Extension - Single NE for Multiple Networks

- ◆ 1 HCX-NE appliance for up to 8 networks.
- ◆ Design Implications:
 - ◆ Shared 4-6Gbps forwarding capacity across the extensions.
 - ◆ Low/efficient footprint. Useful for SMB or scenarios with many low bandwidth networks.
 - ◆ SPOF/Shared Failure Domain when NE HA not enabled.



Single Site Pair Network Extension - Dedicated NE Per Network

- ◆ 1 HCX-NE appliance per network.
- ◆ Design implications:
 - ◆ Dedicated NE appliance with 4-6Gbps forwarding per extension.
 - ◆ 128 NE appliances can be deployed (64 HA enabled pairs).
 - ◆ Highest per-network performance and smallest failure domains.
 - ◆ Highest footprint/resource cost.

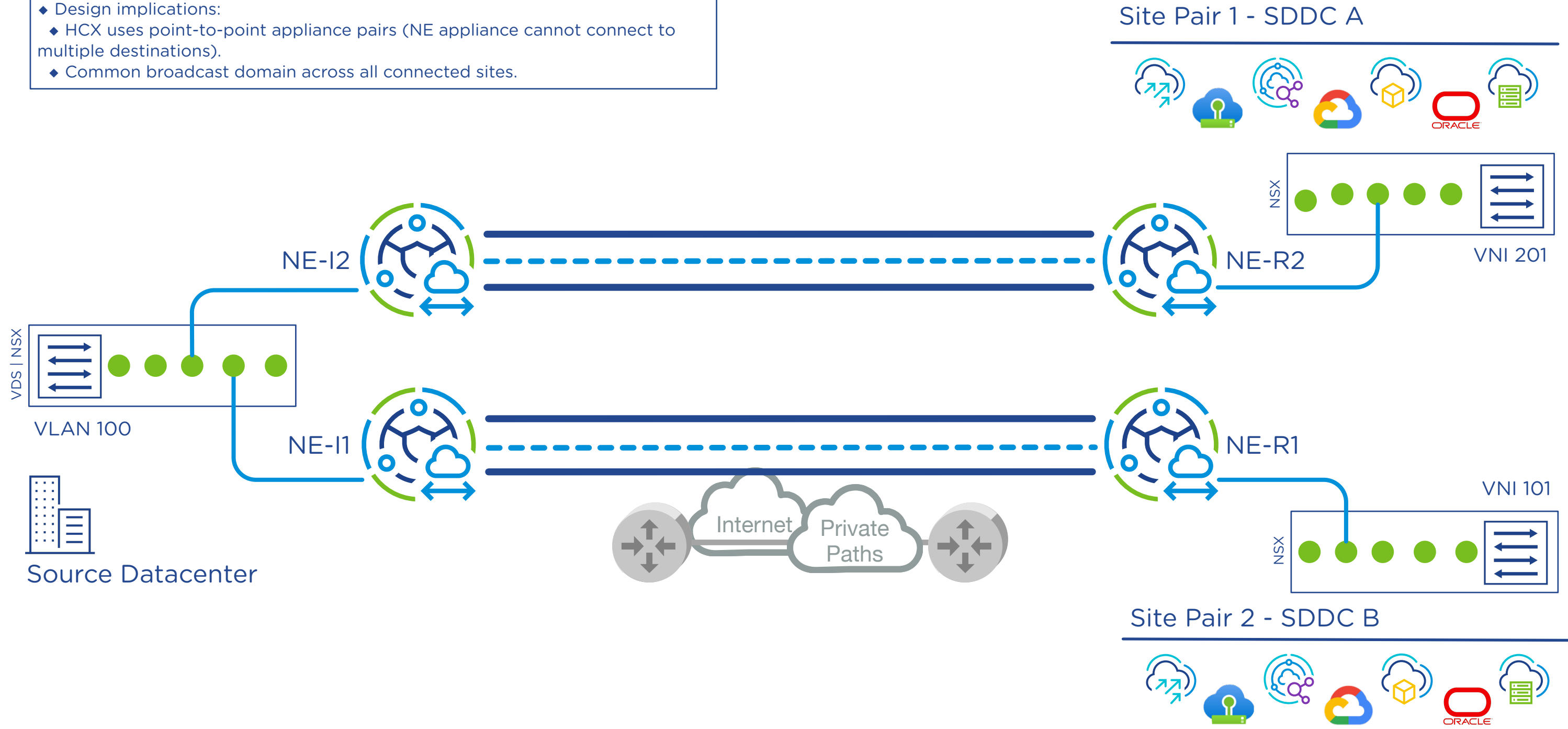


Source Datacenter

Destination SDDC

Multi-Site Network Extension Appliance Detail

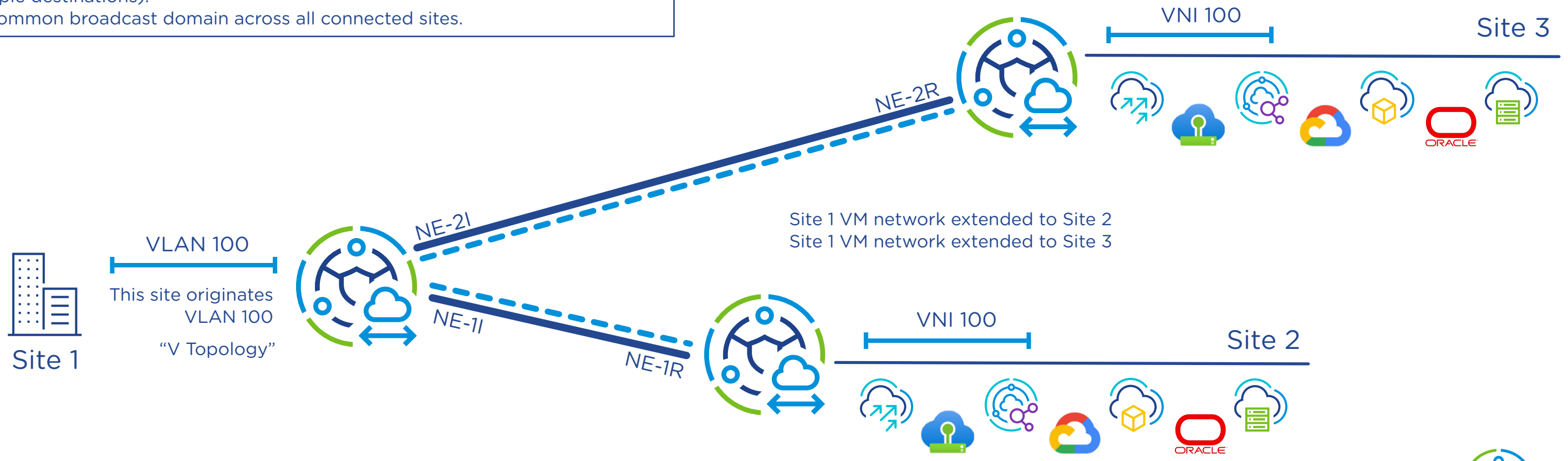
- ◆ A source network can be extended to multiple (up to 3) environments.
- ◆ Design implications:
 - ◆ HCX uses point-to-point appliance pairs (NE appliance cannot connect to multiple destinations).
 - ◆ Common broadcast domain across all connected sites.



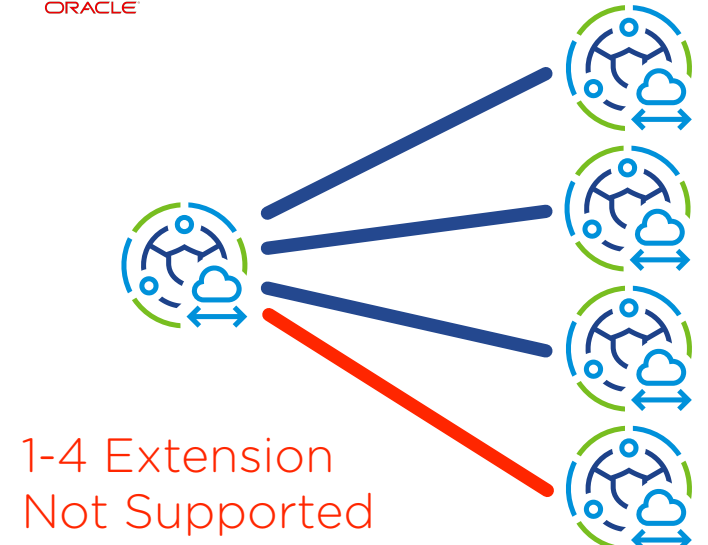
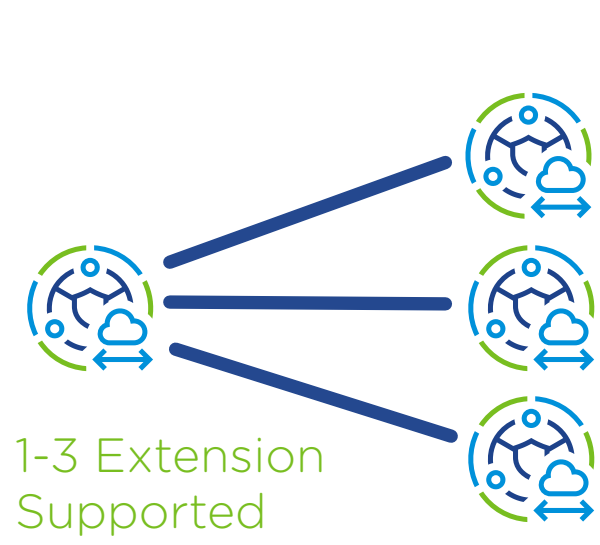
Multi-Site Network Extension Topologies

V-Topology (One to Many)

- ◆ A source network can be extended to multiple (up to 3) environments.
- ◆ Design implications:
 - ◆ HCX uses point-to-point appliance pairs (NE appliance cannot connect to multiple destinations).
 - ◆ Common broadcast domain across all connected sites.



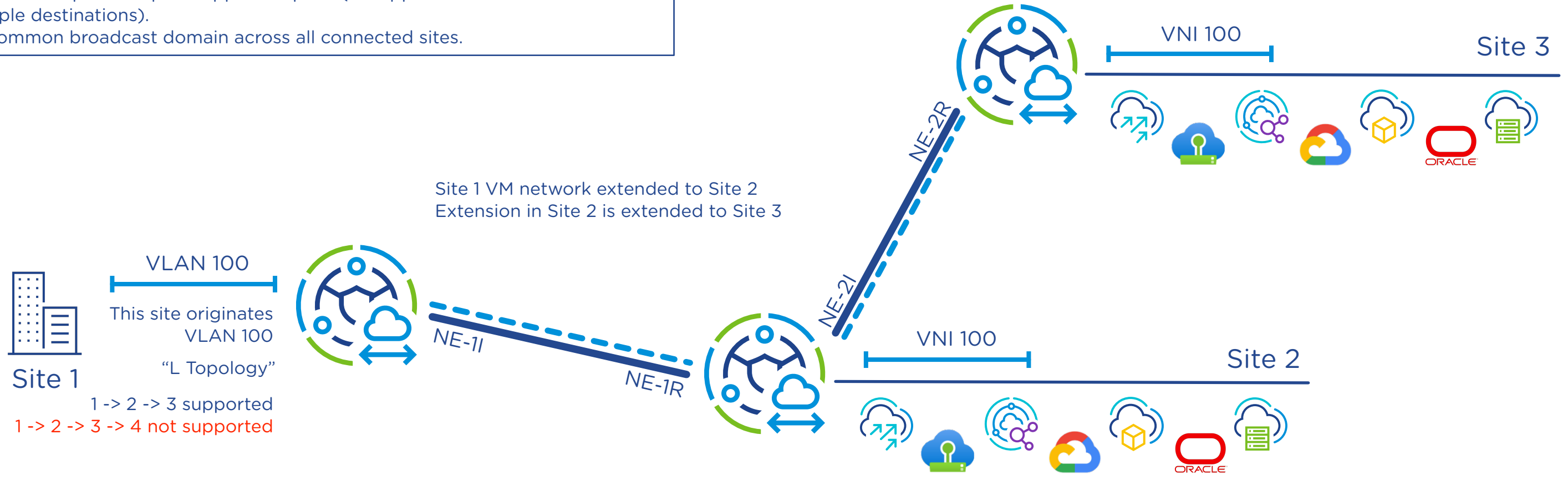
Site 1 VM network extended to Site 2
Site 1 VM network extended to Site 3



Multi-Site Network Extension Topologies

L-Topology (Daisy Chained Extension)

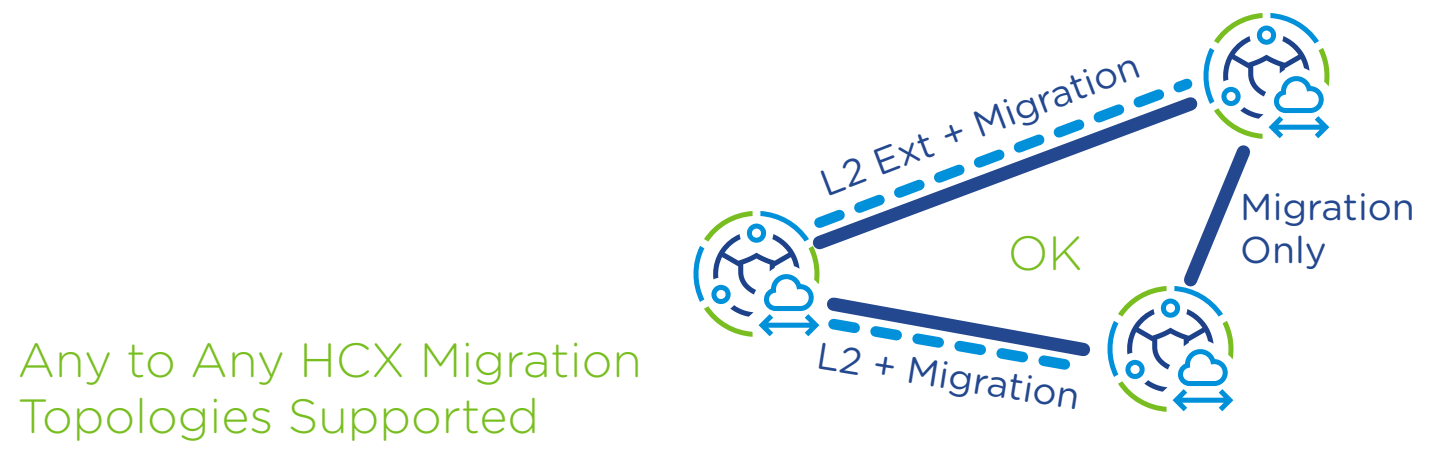
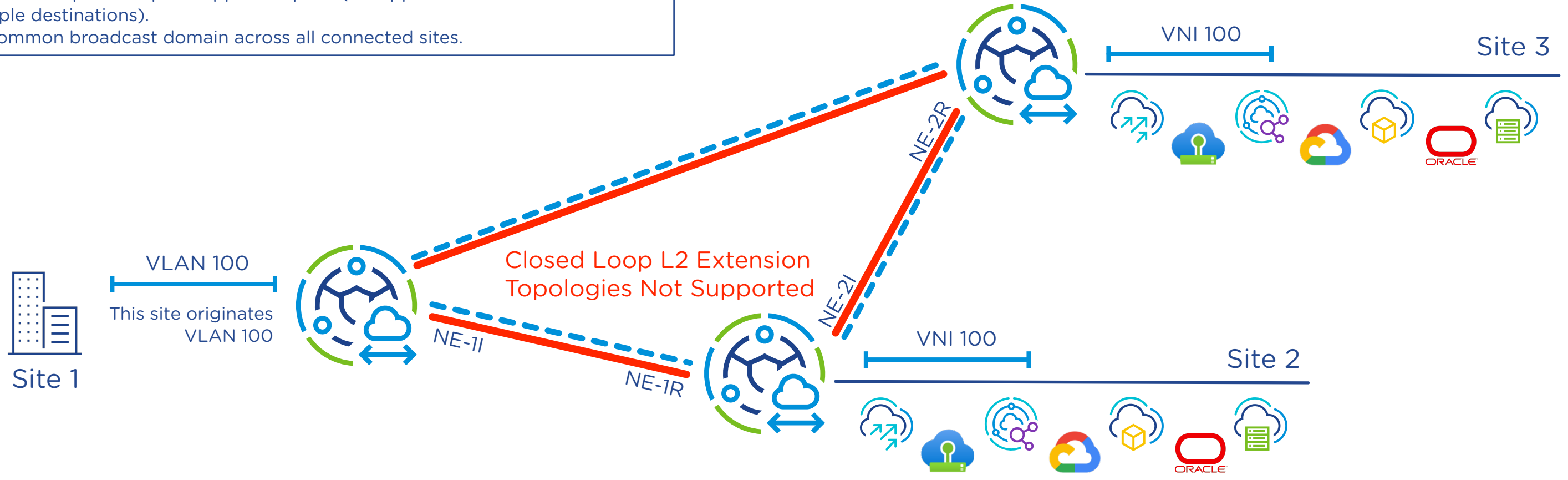
- ◆ A source network can be extended to multiple (up to 3) environments.
- ◆ Design implications:
 - ◆ HCX uses point-to-point appliance pairs (NE appliance cannot connect to multiple destinations).
 - ◆ Common broadcast domain across all connected sites.



Multi-Site Network Extension Topologies

Any to Any Extension Topology

- ◆ A source network can be extended to multiple (up to 3) environments.
- ◆ Design implications:
 - ◆ HCX uses point-to-point appliance pairs (NE appliance cannot connect to multiple destinations).
 - ◆ Common broadcast domain across all connected sites.



Any to Any HCX Migration Topologies Supported