



Validated Design At High-Scale

Contrail Enterprise Multicloud release 2008 has continued improving the scale and performance numbers for data center fabric management use cases.

This summary validates a high-scale multidimensional test of a large number of networks, ports, and mappings between those port groups and networks. The following table summarizes the scale of a 3-node, HA-deployed Contrail controller managing QFX Series switches in a single 3-stage Clos design with EVPN-VXLAN fabric management (eBGP underlay, iBGP overlay) in an edge-routed bridging (ERB) mode.

Note, Juniper also tests individual parameters beyond these numbers with multiple fabrics as well as centrally-routed bridging (CRB) modes.

# of network devices	128
# of Physical interfaces	6,150
# of Virtual Port Groups (VPGs)	2,500
# of Virtual Networks (VNs) non-routed VNs used in testing	4,000
# of Virtual Machine Interfaces per VPG (mapping VN into VPG)	Up to 128, averaging 102
# of Virtual Machine Interfaces total in the fabric	256,000
# of Virtual Networks	4,000
# of Logical Routers (L3 VRF)	1000
# of Security Group / Security Group rules (aka stateless ACLs)	500 security groups 1500 SG Rules
# of Storm Control Profiles	4 profiles on 100% of access VLANs
# of Port Profiles	4 profiles on 100% of access VLANs
# of Unmanaged PNF instances	32

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