

400G / 800G

Switch ports

18

Validated DC switches

600+

Operators run OcNOS

1

Support contract

Running in production

"We are now delivering software as a service more efficiently, thanks to the increased performance and future-proofing achieved with IP Infusion's solution."

Francois Defrocourt, Solutions Engineer

Madeo Consultant, France. Replaced Cisco Nexus and Catalyst switches with OcNOS on Edgecore and UfiSpace.

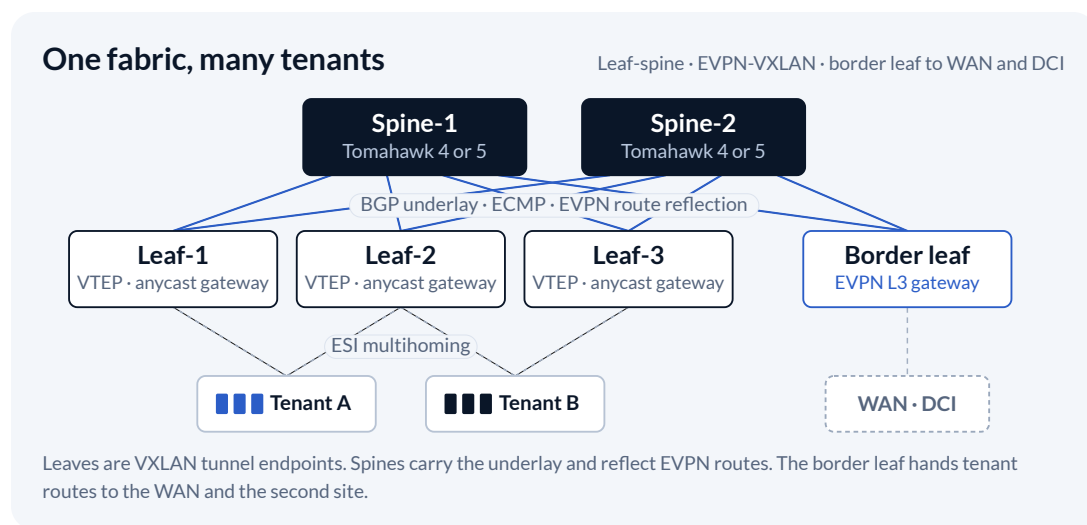
"OcNOS and an open networking strategy hits all the right notes in terms of cost, support, and features."

Ken Moreano, CEO

Scott Data, Omaha. Runs OcNOS on UfiSpace, Edgecore and Celestica. Lead times went from years to weeks.

EVPN-VXLAN fabrics for 400G and 800G data centers

IP Infusion delivers the data center fabric as one system: 400G and 800G switches from Edgecore or UfiSpace with **OcNOS-DC** preloaded, under one support contract. Leaves run EVPN-VXLAN as hardware VTEPs and spines carry the IP underlay. A border leaf connects the fabric to the WAN and to a second site. Add switches to grow.



EVPN-VXLAN on every leaf

EVPN distributes MAC and IP reachability in the control plane instead of relying on flood and learn. Tenants get their own VRFs and VNIs, and tenant subnets are advertised across the fabric as EVPN Type 5 prefix routes.

Dual-homed servers

EVPN multihoming attaches a server to two leaves on one Ethernet segment, with no peer-link. MLAG is supported too, for active-active dual-homing over a peer-link.

One vendor of record

OcNOS Systems include the switch, OcNOS-DC, support and RMA from IP Infusion: one PO, one contract, one RMA path.

Switches by role



Leaf, 400G

Edgecore AS9726-32DB, UfiSpace S9300-32D
Broadcom Trident 4 • 12.8T



Spine, 400G

Edgecore AS9736-64D
Broadcom Tomahawk 4 • 25.6T



Spine, 800G

Edgecore AIS800-64D, UfiSpace S9321-64E
Broadcom Tomahawk 5 • 51.2T



Leaf, 100G

Edgecore AS7726-32X, UfiSpace S9110-32X
Broadcom Trident 3 • 3.2T

The AS9726-32DB also supports a 400G OpenZR+ coherent optic for the site interconnect. Optics have proven multi-vendor interoperability; ask for the transceiver list.

Map your fabric with an IP Infusion engineer.



DC Fabric



Feature Matrix



Contact

About IP Infusion. IP Infusion delivers complete, validated open networking systems: carrier-grade OcNOS software on open hardware it qualifies per model and ASIC stepping, for service provider, data center and AI networks. Pre-integrated OcNOS Systems ship with support and RMA from one vendor. In production with 600+ operators across 60+ countries.

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What OcNOS-DC runs in the fabric

OcNOS-DC · support varies by platform

Capability	What it does	Where
EVPN-VXLAN, Layer 2	Control-plane MAC and IP learning instead of flood and learn	Leaf
IRB and anycast gateway	The same gateway IP and MAC on every leaf, so a workload moves without re-addressing	Leaf
EVPN prefix routes (Type 5)	Routes tenant subnets across the fabric	Leaf Border
EVPN multihoming (ESI)	Dual-homes a server in single-active or port-active mode, with no peer-link	Leaf
MLAG	Active-active dual-homing over a peer-link	Leaf
BGP unnumbered, BFD, overlay ECMP	IP underlay without per-link addressing, fast failure detection, every spine in use	All
EVPN route reflector	Spines reflect EVPN routes to the leaves	Spine
Tenant controls	Inter-VRF route leaking, route-target filtering, EVPN MAC limits	Leaf
EVPN L3 gateway, VXLAN L3 stitching	Connects the fabric at Layer 3 to the WAN or a second site	Border
Access security	Storm control, ARP ACLs, dynamic ARP inspection, ACLs on IRB interfaces	Leaf
Visibility	gNMI streaming with OpenConfig models, SNMP VXLAN statistics, ERSPAN on VXLAN access ports	All
PFC and ECN over VXLAN	Carries lossless RoCEv2 traffic across the VXLAN fabric	Leaf

Support varies by switch model and license. Check each platform in the OcNOS Feature Matrix.

Configure a leaf VTEP

OcNOS-DC 7.0

```
nvo vxlan enable
evpn vxlan multihoming enable
!
mac vrf tenant-a-vl100
  evpn-vlan-service vlan-based
  rd 10.0.0.11:100
  route-target both 65000:100
!
nvo vxlan vtep-ip-global 10.0.0.11
!
nvo vxlan id 10100 ingress-replication bridge-vlan 100
  vxlan host-reachability-protocol evpn-bgp tenant-a-vl100
!
router bgp 65000
  neighbor 10.0.0.1 remote-as 65000
  neighbor 10.0.0.1 update-source lo
  address-family 12vpn evpn
    neighbor 10.0.0.1 activate
  exit-address-family
```

Operate it

A new switch receives its configuration through ZTP over IPv4 or IPv6, without a console session. Ansible covers Day 0 through Day 2, and NETCONF with YANG models lets you push and verify EVPN and VXLAN state as code.

OcNOS-DC is preloaded and qualified per switch model and ASIC stepping. P1 response runs from 8 hours on Standard support to 30 minutes on Enterprise.

Modeled on a running OcNOS-DC 7.0 leaf, with example names and addresses. It maps VLAN 100 to VNI 10100, advertises it in EVPN and peers with a spine route reflector over loopbacks. Underlay, VLAN and access-port configuration are not shown. Routed tenants add an IP VRF with a Layer 3 VNI and IRB interfaces with the anycast gateway; see the OcNOS-DC VXLAN and EVPN configuration guide.