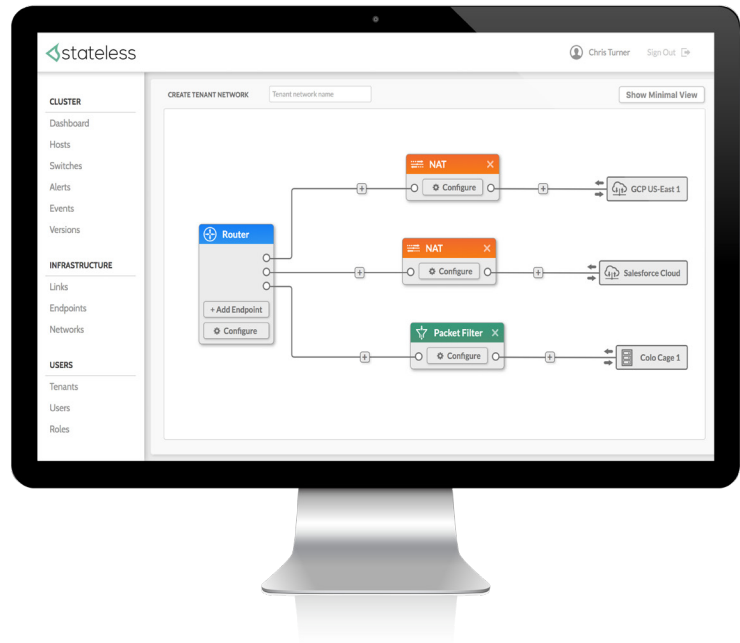


STATELESS LUXON

Data Sheet



The New Platform for Software-Defined Interconnect (SD-IX)

- Simplifies management and control of colocation provider network interconnection points so providers can build new network products with existing connectivity assets
- Enables revenue generation through effective monetization of multi-tenant Layer 3+ routing and security services that evolve with tenant use cases over time
- Dynamically enhances existing cloud links and data center wide area network (WAN) backbone through incremental intelligence, security and automation
- Consolidate sprawled network infrastructure and securely deploy thousands of networks on a unified cluster
- Open REST APIs provide complete automation, integration and visibility

Luxon Software-Defined Interconnect Platform

SCALE-OUT CLUSTER

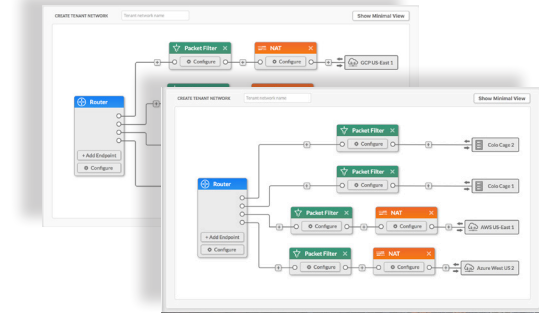
Multi-dimensional scalability reduces capital outlay and grows with provider utilization



← SCALE-OUT WITH GROWTH →

MULTI-TENANCY

Manage and build thousands of isolated and custom tenant networks



END-TO-END AUTOMATION



Design, configure and deploy tenant networks in seconds for a faster quote to cash



Dynamic auto-scaling of networks as throughput and capacity demands



Inherent resiliency through N+1 architecture mitigates downtime and disruption

CONTROL & VISIBILITY



Zero-disruption maintenance and software updates



API-driven visibility for rich system-wide diagnostics



Rich logging data supports required compliance requirements

EASILY INTEGRATED

Simple, API-driven, low-risk integration into existing network architectures

- VLAN / VXLAN / EVPN support
- SDN enabled switches for integration into top-of-rack distribution
- Open REST API simplifies integration with SDN and back-office systems

EVOLVABLE ARCHITECTURE

Deploy new functionality through software to meet changing user requirements without CAPEX investment



Luxon Software-Defined Interconnect Platform

Stateless Luxon is the new platform for software-defined interconnect (SD-IX), giving colocation providers the ability to deliver, control and monetize interconnect points through simple software.

This gives colocation providers the ability to extend connections outside the physical data center and seamlessly deliver connections to hyperscale cloud and other portfolio data centers.

Luxon delivers Layer 3+ network services like BGP routing, NAT and packet filtering through a consolidated scale-out cluster deployed in multitenant, multi-tiered, and high throughput environments.

With Luxon, providers can future-proof their infrastructure through an evolvable architecture that opens opportunities for monetizing new interconnection products and services.

Using principles from micro-services, monolithic network appliances are broken down into composable pieces that can be strung together in a custom chain for each tenant.

Luxon’s revolutionary architecture separates network state from underlying processing. The state is placed in a distributed data store allowing the system to operate at a level that is merely impossible with traditional appliances.

FEATURE	BENEFIT
Multitenancy	Reduce infrastructure sprawl by consolidating appliances into a single platform accommodating thousands of networks.
API-Driven Visibility	Fast, quality configuration and maintenance decisions through granular network visibility and diagnostics
Evolvable Architecture	Future-proof investments through the a platform with expanding feature set that evolves with application needs
Disruptionless Updates	Deploy new capabilities without waiting for full upgrade cycles. Updates occur without breaking a single tenant connection.
Scale-Out Cluster	Reduce CAPEX outlays and avoids the need for forklift upgrades and multi-year traffic forecasting
Efficient Resource Utilization	Eliminate inefficient virtual machine server utilization through automatic, dynamic resource scaling
Innate High-Availability	Reduce downtime risk and meet SLA guarantees without costly 2 x N CAPEX expenditure
Intuitive User Interface	Reduce tenant network setup and configuration time to minutes through a simple-to-use GUI
Network Function Library	BGP routing, NAT & Packet Filtering enable SD-IX applications such as multi-hybrid cloud connect and data center interconnect.

LUXON PLATFORM SPECIFICATIONS	
Feature	Specification
Min. Cluster Throughput (4 x Hosts)	≥ 250Gbps
Max. Cluster Throughput (12 x Hosts)	≥ 880Gbps
Maximum Packet Throughput	12.6 x 10E6 pps
Typical No. Tenants (12 Host cluster)	>1000
Max # concurrent network functions	up to >3000 per cluster
Encapsulation Support	VLAN, VxLAN
Supported Network Services	NAT 1:1&1:n, Packet Filter, BGP (EVPN, ECMP support)
Resiliency (4 x Host cluster)	Single Host fault HA
Resiliency (5+ x Host cluster)	Dual Host fault HA
Scalability	Transparent scale in/out
Upgrades	Interruption Free - no breaks in tenant connection
Front-end	Componentized UI
OPEN SOURCE SPECIFICATIONS	
Feature	Specification
API	JSON REST API using OpenAPI spec
SDK	Open Source java SDK (v1.8+)
HOST HARDWARE SPECIFICATIONS	
Feature	Specification
Luxon Product Format	Distributed scale-out cluster
Host Size	1U
Min Cluster size	4 x 1U Hosts + 2 x SDN switches
Max Cluster size	12 x 1U Hosts + 2 x SDN switches
Network Interface Cards per Host	2 x Dual 100Gbps ConnectX-5 cards
Host Memory	4x 32GiB PC4-21300 2666MHz DDR4 ECC DIMM
Host CPU	2x Intel Xeon Silver 4114
Host Storage	512GB SSD
Power Supply	2 x 750W Multi-Output redundant power supplies
Fans	6 Counter-rotating 4cm PWM fans
SWITCH HARDWARE SPECIFICATIONS	
Feature	Specification
No. Switches per Cluster	2
Switch Size	1U
No. Ports per switch	32
Port Type	100GbE QSFP28
Max Throughput	3.2Tbps
SDN Protocol	Openflow v1.4 and above

ABOUT STATELESS

At Stateless, we are reinventing network connectivity. Dedicated to relentlessly solving the network challenges others deem impossible, Stateless delivers an industry-first SD-IX platform that gives network providers the power to monetize their connectivity assets while streamlining network operations and minimizing capital outlays. The revolutionary Stateless platform gives users the power to optimize existing network assets to control and connect every endpoint, including portfolio data centers, tenant sites and hyperscale clouds. Stateless is proudly based in Boulder, Colorado. Learn more at www.bestateless.com.