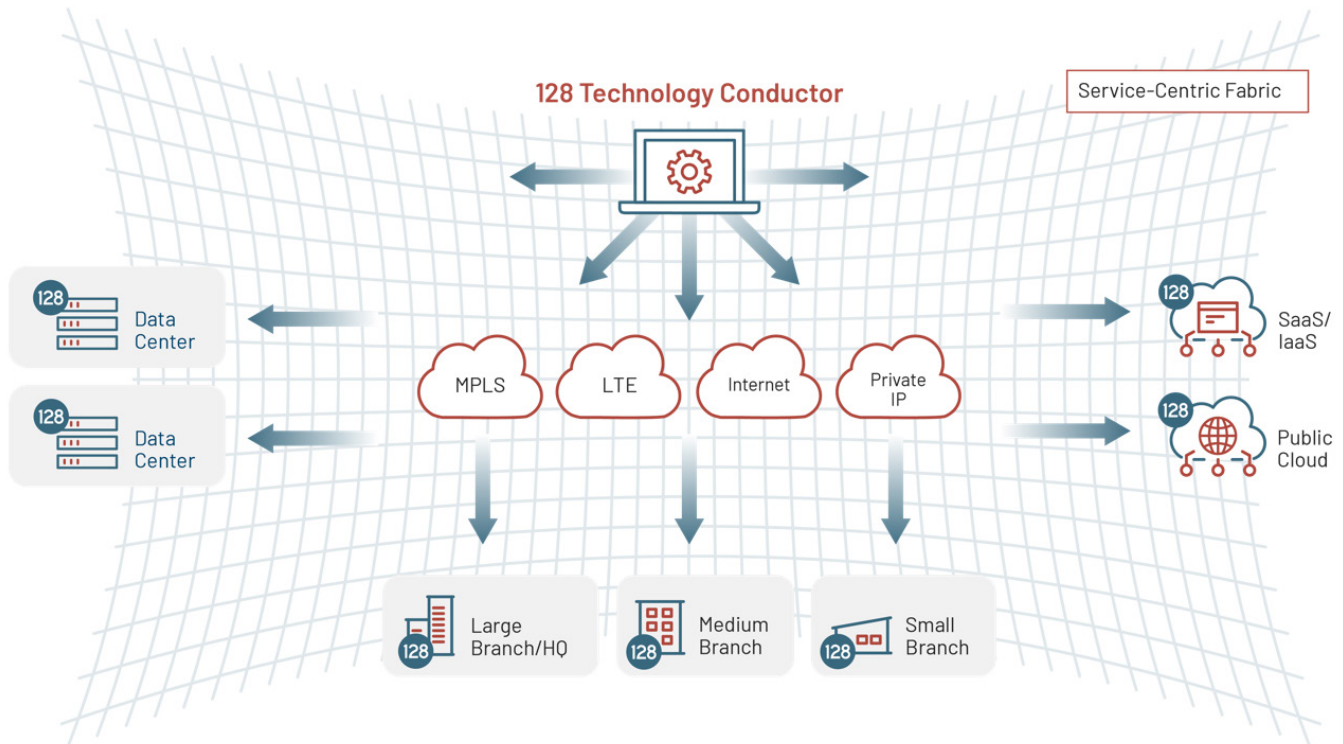


SET YOUR NETWORK FREE WITH SESSION SMART™ NETWORKING: The 128T Networking Platform enables enterprises and service providers to build service-centric fabrics that deliver breakthroughs in simplicity, virtualization, security, performance, and savings.

The 128T Networking Platform can be used to deliver software-defined wide-area networks (SD-WAN), campus networks, core networks, software-defined data center, and multi-access edge computing (MEC).



The 128 Technology solution is a new breed of software-based networking infrastructure. The solution is comprised of two primary components: the 128T Session Smart™ Router and the 128T Conductor.

The 128T Session Smart™ Router combines a service-centric control plane and a session-aware data plane to offer IP routing, feature-rich policy management, improved visibility, and proactive analytics.

The 128T Conductor is a centralized management and policy engine for all the 128T Session Smart Routers in the network. It provides orchestration, administration, zero-touch provisioning, monitoring, and analytics for 128T Session Smart Routers – while maintaining a network-wide, multi-tenant service and policy data model.

CATEGORY	FEATURES
System and Network Services	IPv4, SNAT/DNAT, Destination NAT, Dynamic NAT Change Handling, Shared NAT Pool, Unknown/wildcard Addresses, SSH, High Availability, Inter-Node Redundancy, Overlapping IP Addresses, Multiple IP Addresses per Network Interface, Multipoint SVR, IPv6 SVR
Routing	Secure Vector Routing, Location Independent Routing via Waypoints, BGPv4, BGP Multi-Path, BGP Route Reflector, BGP Graceful Restart, BGP over SVR, BGP Route Map, BGP Prefix List, Inter-SLICE BFD, Policy based Routing, ICMP Ping and Blackhole, Ping over SVR, DHCP Client, DHCP Relay, DHCP Server per Interface, DHCP Server Extended Config, DHCPv6 PD, DNS Client, PPPoE, Vector based Path Selection, OSPFv2
Forwarding and QoS	IPv4/IPv6, Per Flow Policing and Shaping, Packet Marking, Path MTU Discovery, LTE Support, T1 Support
Security	Distributed and Automated Access Control by Service, Finegrained Segmentation/Tenancy, Distributed Stateful Firewall, Per Session Payload Encryption (AES-256, AES-128), Per Session/Route Authentication (HMAC-SHA1, HMAC-SHA256, HMAC-SHA-256-128), Adaptive Encryption, Rekeying, ICSA Network Firewall Certified , FIPS 140-2 Validated , ICSA PCI DSS Compliance , Enhanced Replay Attack Protection, IPsec, IKEv2
Classification	Per Session Classification by Application Type, QoS and Security Policy Enforcement, HTTPS Identification, O365 Classification and Rollup, SIP ALG
Session	Load Balancing using Proportional and Hunt, Multi-homing, Transit Mode, Session Migration, Session Duplication, Session Duplication for non-SVR, Session Duplication for Inter-Node Links, MOS for VoIP, Path of Last Resort, Session Optimization, Session Reliability
Analytics	Per Session IPFIX Records, Ability to Access Rich Set of Analytics, Monitoring and Alarms from GUI, REST and NetConf/Yang, Time Sync, Customizable Charts, Out-of-Path Monitoring, SNMPv2 Standard Traps, SNMP 128T Traps
Cloud Platforms	OpenStack, vCloudDirector, AWS , Azure , Google Cloud
Platform Environments	Bare Metal, Virtual Machine, Linux User-Space
Hypervisors	KVM, VMWare ESXi
Operating Systems	CentOS 7, Red Hat Enterprise Linux 7
AAA	Multi-User Support, LDAP
Configuration	Conductor, GUI, CLI, NetConf/Yang, REST, Dynamic Reconfiguration, Edit/Verify, Import/Export/Merge, Upgrade Rollback, Patch Availability, Maintenance Mode
Faults and Alarms	Conductor, GUI, CLI, NetConf/Yang, REST, Sampled Data, Alarm History, Alarm Topology Filtering, Path Alarm Hierarchy

HARDWARE RECOMMENTION

The 128T Networking Platform supports a wide range of deployment models including scaling from a small branch office to a high capacity edge router to a hyper-scale, software-defined data center.




128T SESSION SMART™ ROUTER

Data Chart 2.0

Throughput (IMIX)	Hardware Recommendation
1-2 Gbps	4C ATOM/8GB RAM
4 Gbps	8C ATOM/16GB RAM
10 Gbps	8C ATOM/32GB RAM
20 Gbps	12C ATOM/128GB RAM
80 Gbps	22C ATOM/256GB RAM

128T CONDUCTOR

Data Chart 3.0

Deployment	Number of managed routers	Hardware recommendations
Bare Metal	1-10	2C XEON/8GB RAM
	10-25	4C XEON/8GB RAM
	25-100	8C XEON/16GB RAM
	100-500	12C XEON/32GB RAM
	500-1000	16C XEON/64GB RAM
 AWS	1-10	c5.xlarge
	10-25	c5.2xlarge
	25-250	c5.4xlarge
	250-1000	c5.9xlarge
 Azure	1-10	F4s v2
	10-25	F8s v2
	25-250	F16s v2
	250-1000	F32s v2
 Google	1-10	Gen: First, Custom: 4 vCPU/8GB RAM
	10-25	n1-highcpu-8
	25-250	Gen: First, Custom: 16 vCPU/32GB RAM
	250-1000	Gen: First, Custom: 32 vCPU/64GB RAM

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ABOUT 128 TECHNOLOGY

At 128 Technology we help our customers radically reinvent their digital futures based on a new model for virtual networking called Session Smart™. Session-smart networking enables enterprise customers and service providers to create a service-centric fabric that's more simple, agile, and secure, delivering better performance at a lower cost. Whether your enterprise is moving your business to the cloud, modernizing the WAN edge, seeking more reliable unified communications or pursuing an industrial internet of things (IIoT) initiative, session smart networking re-aligns networks with digital transformation initiatives.