ARBOR NETWORKS SP

See your network. Solve your problems. Grow your business.

The dual forces of rapid growth in network data and costs and the loss of revenues to over-the-top (OTT) applications are squeezing traditional Service Providers, while Enterprises with large networks are evolving into operations that resemble Service Providers. For all network operators, solving key business problems starts with proper visibility. Deploy Arbor Networks® SP how you want it — Virtual Machines or dedicated appliances — and achieve pervasive network visibility with ease. Built for owners of large and complex networks and proven to scale cost-effectively across your entire global network, Arbor SP analyzes NetFlow, SNMP and BGP routes from across the network to transform raw data into business insights. This enables you to act on these insights to solve your business problems from network planning and engineering to service availability and enablement.
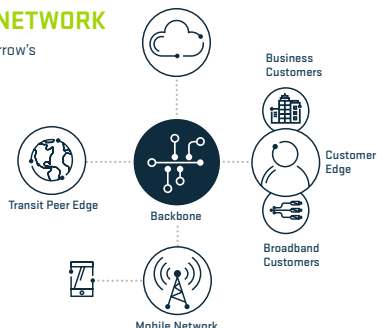
The Solution That Evolves With Your Business Needs

As network operators, you demand a solution that evolves with your business needs. Arbor SP has been evolving with operators over the last decade and continues to be the de facto platform for understanding how traffic is flowing through your network. Arbor SP addresses the following key business objectives:

Gain Business Insights, Not Just Data.

The network is the business. Operators must optimize resources and thus save money, and Arbor SP provides robust capabilities from network-wide capacity planning to managing overlay BGP/MPLS VPNs. This pervasive network data can also be leveraged to make routing and peering design decisions, lower transit costs and provide marketing insights.

Keep the Network and Services Running.

Time is money. Operators must quickly detect and resolve problems before they impact the business. Arbor SP can detect potential outages from network hotspots, BGP hijacks, DDoS attack traffic or even network misconfiguration. Then, Arbor SP provides root cause analysis tools to quickly diagnose and resolve the issue.

Launch Revenue Generating Services.

Growth is crucial. Operators must support and drive top-line growth. With Arbor SP, operators can propose new service offerings such as DDoS protection, customer or ASN specific traffic analytics, Quality of Service (QoS) and MPLS VPN services. Current investments and infrastructure can be utilized to quickly launch new services or enhance existing ones. The built-in portal, multi-tenant customer scoping and RESTful API help operationalize these new revenue-generating services quickly and efficiently.

Key Benefits

Optimize Network Resources
Use comprehensive traffic, customer and geographic reports for smarter traffic engineering. Reduce transit costs, improve utilization and intelligently plan for the growth of your network.

Serve the Business
Provide insights to the business leveraging built-in and ad hoc traffic and market reports. Uncover trends to help the business grow.

Minimize Outage Time
Through proactive detection of network or service availability threats, quickly diagnose and prevent misconfigurations, flash crowds or malicious threats such as DDoS attacks from impacting availability.

Launch Services
Leverage the same Arbor SP platform used for network visibility and threat detection to easily provision, deliver and maintain new services from traffic intelligence, market breakdowns, Quality of Service (QoS) and MPLS/BGP VPNs.

Flexible Cloud-Based Licensing
Quickly and easily expand visibility coverage while lowering total cost of ownership with pooled licensing capacity and scalability.

Control Your Data
Arbor SP puts you in control of your data. You decide which routers send it data, where that data is stored and who has access to it. No need to worry about where your data is or the country that it resides in.

Automate Processes
A RESTful API enables full integration with other operational systems so you can automate processes and drive more value from your network. The API can also access SP Insight's big data lake.

SEE YOUR NETWORK
Scalable to Tomorrow's Networks

Business Customers

Customer Edge

Broadband Customers

Transit Peer Edge

Backbone

Mobile Network

SOLVE YOUR PROBLEMS
Turn Insights into Action

GROW YOUR BUSINESS
Generate New Service Revenues

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Arbor Networks SP Deployment Scaling

BGP Routes (Unique)	3,750,000,000	**Collection Appliances**	150	
Flows Per Second (Non-sampled)	30,000,000	**Arbor Networks APS Appliances (Cloud Signaling)**	200	
Monitored Routers	5,000	**Arbor TMS Appliances (Managed)**	100	
Monitored Interfaces	200,000	**Data Handling Rules (Managed Objects)**	20,000	
Total Interfaces	550,000			

Arbor Networks SP Roles

Role	Benefits (per instance)
Traffic, Routing, & Analysis	· Collects flows from up to 32 core routers or 100 edge routers in an Arbor SP deployment
User Interface	· Dedicated user interface for SP deployment management and reporting · Supports up to 100 concurrent users or 700 per deployment · Supports up to 200 Arbor Networks APS appliances to receive Cloud Signaling™ from and is used for managed services, supporting multi-tenant customer portals, portal API and more concurrent users
Data Storage	· Dedicated management platform for creating monitored and protected managed objects (customers, networks, resources) · Each supports up to 1000 Managed Objects (MOs)

Arbor Networks SP Virtual Machine Requirements

	VMware	Xen	VM
Hypervisor	VMware vSphere v5.0, 5.1 and 5.5	Xen Cloud Platform v1.6.10-61809	KVM QEMU v1.4.2
vCPUs	8 to 32	8 to 15	8 to 32
Network Interfaces	1 to 10	1 to 10	1 to 10
Memory	16, 24 or 32 GB	16, 24 or 32 GB	16, 24 or 32 GB
Storage	100 GB min.	100 GB min.	100 GB min.

Note: Consult the product documentation for specific recommendations.

Arbor Networks SP-7000 Appliance Specifications

Features	Description
Power Requirements	Redundant, load sharing and auto-sensing 850W dual power supples; **AC:** 100-240 VAC, 50/60 Hz, 12/6 A; **DC:** -40 to -72 V, 28/14 A max
Physical Dimensions	Chassis: 2U rack height; **Weight:** 36.95 lbs (17.7 kg); **Height:** 3.45 inches (8.76 cm); **Width:** 17.14 inches (43.54 cm); **Depth:** 20 inches (50.8 cm); Standard 19 inches and 23 inches rack mountable
Hard Drives	Six 480 GB solid state drives configured for RAID 5
Network Interfaces	2 x 1 GigE (SFP for copper, GigE SX, or GigE LX); or 8 x 1 GigE (SFP for copper, GigE SX, or GigE LX); or 2 x 10 GigE (SFP+ for SR or LR) and 4 x 1 GigE (SFP for copper, GigE SX, or GigE LX)
Environmental	**Operating temperature:** 41° to 104°F (5° to 44°C); **Humidity (operating):** 95%, non-condensing at temperatures of 73° to 104° F (23° to 40° C)
Operating System	ArbOS is Arbor's proprietary, embedded operating system, based on Linux.
Regulatory Compliance	UL60950-1/CSA 60950-1; EN60950-1; IEC60950-1; CB Certificate & Report including all international deviations; SONCAP; EAC Mark; CE—Low Voltage Directive 2014/35/EU; KCC Mark, RoHS 2011/65/EU; Telcordia GR-63; ETSI EN 300 019; NEBS; ETSI EN 300 753; cULus mark; IC ICES-003 Class A; CE mark to EMC Directive, 2014/30/EU; EN55022, Class A; EN55024; EN61000-3-2; EN61000-3-3; CISPR 22, Class A, CISPR 24 Immunity; FCC 47 CFR Parts 15, Class A

Enables collection of up to 240,000 flows per second.

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