Arbor Sightline

See Your Network. Solve Your Problems. Grow Your Business.

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 and provide reporting to your management.

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 Sightline 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.

Global Analytics and Visibility

The new AIF subscription for Arbor Sightline and Sightline with Insight combines your local traffic analytics and visibility to a global experience with ATLAS Intelligence Feed.

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 Sightline with Insight's big data lake.

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. Built for owners of small to large and complex networks and proven to scale cost-effectively across your entire global network, Arbor Sightline analyzes various forms of network telemetry from across the network to transform raw data into business intelligence. 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 Sightline 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 Sightline 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, but also mine traffic data to better understand the value of network connectivity. Arbor Sightline provides robust capabilities from network-wide capacity planning and managing overlay networks to comprehensive customer analytics. This pervasive network intelligence can also be leveraged to make routing and peering design decisions, lower transit costs and provide marketing insights.

Keep the Network and Services Running

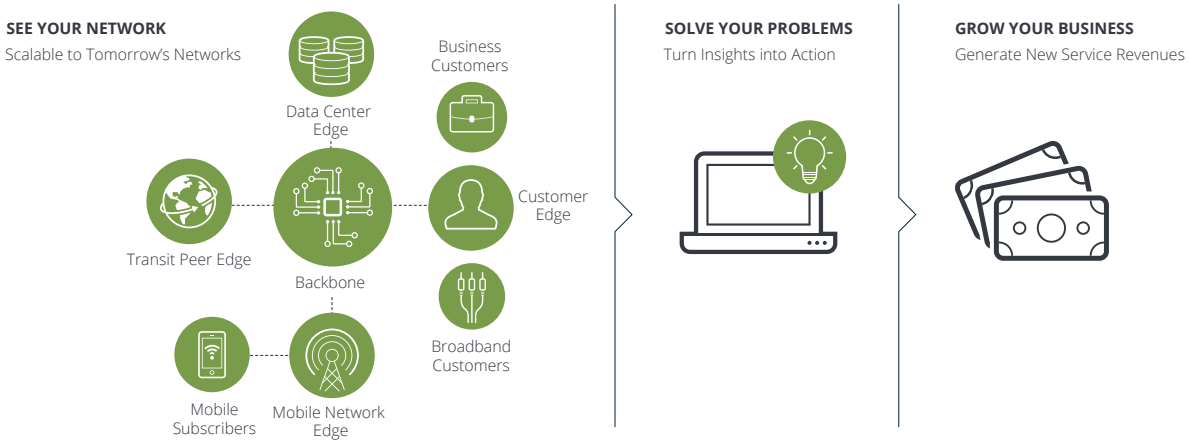
Time is money. Operators must quickly detect and resolve problems before they impact the business. Arbor Sightline can detect potential outages from network hotspots, BGP hijacks, DDoS attack traffic or even network misconfiguration. Then, Arbor Sightline contributes to root cause analysis tools to quickly identify and resolve issues, including DDoS attacks with its mitigation capabilities of BGP Flowspec, Blackhole, and Access Control Lists (ACL).

Launch Revenue Generating Services

Growth is crucial. Operators must support and drive top-line growth. With Arbor Sightline, 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.

Sightline with Sentinel

Leveraging NETSCOUT Smart Data, Sightline with Sentinel provides deep insight into the application layer, delivering over-the-top (OTT) traffic analysis across complex networks. Today, network optimization is not just about the total volume of network traffic, it is about delivering desired content most efficiently while minimizing peering and transit costs. Sentinel allows network operators to understand where and how major content services are traversing the network in order to optimize both user experience and peering and transit relationships.



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Sightline with Sentinel also uses Smart data to identify advanced cyber threats, such as infected hosts or IOT devices, throughout the network at Tbps scale. It can detect botnet hosts and other malware infestations, enabling the network operator to pro-actively clean up the network and prevent future botnet attacks from impacting network services. It also adds additional value to managed security services at extremely low cost, greatly expanding the opportunity to grow security service revenue.

Sightline with Sentinel also provides a unique, fully integrated inter-network signaling mechanism also allows networks to share attack data and coordinate defense against DDoS attacks, enabling services that span network boundaries and helping network operators to cooperate at an unprecedented level to collectively stop DDoS attacks nearer to their source.

Arbor Sightline Deployment Scaling

BGP Routes (Unique)	25,000,000
Flows Per Second (Non-Sampled)	48,000,000
Monitored Routers	5,000
Monitored Interfaces	200,000
Total Interfaces	550,000
Appliances/Virtual Machines	150
Arbor APS Appliances (Cloud Signaling)	200
Arbor TMS Appliances (Managed)	100
Data Handling Rules (Managed Objects)	20,000

ARBOR SIGHTLINE FLEX LICENSING OPTIONS

Purchase

Purchase perpetual Arbor Sightline Flex Licenses as and when needed, then only pay annual Maintenance & Support going forward. Ideal for high-growth and CAPEX-centric network operators.

Site License

Purchase a one-time perpetual Arbor Sightline Flex License covering the entire deployment (current or projected needs), then only pay annual Maintenance & Support going forward. Ideal for larger, high-growth and CAPEX-centric network operators.

Subscription

Pay an annual license subscription that includes Maintenance & Support. Great for OPEX-centric organizations adapting to rapidly changing market conditions and unpredictable growth needs.

Arbor Sightline Roles

Role	Benefits (Per Instance)
Traffic, Routing, & Analysis	• Collects flows from up to 32 core routers or 100 edge routers in an Arbor Sightline deployment
User Interface	• Dedicated user interface for Sightline deployment management and reporting • Supports up to 100 concurrent users or 700 per deployment • Supports up to 200 Arbor 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 1,000 Managed Objects (MOs)

Arbor Sightline Virtual Machine Requirements

	VMware	Xen	KVM
Hypervisor	VMware Sphere v5.5, 6.0 and 6.5	Xen Cloud Platform v1.6.10–61809	KVM QEMU v2.11
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 32GB	16, 24 or 32GB	16, 24 or 32GB
Storage	100GB min	100GB min	100GB min

Note: Consult the product documentation for specific recommendations.

Arbor Sightline-7000 Appliances Specifications

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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