Arbor Sightline


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.
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 Roles

<table>
<thead>
<tr>
<th>Role</th>
<th>Benefits (Per Instance)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traffic, Routing, &amp; Analysis</td>
<td>• Collects flows from up to 32 core routers or 100 edge routers in an Arbor Sightline deployment</td>
</tr>
<tr>
<td>User Interface</td>
<td>• Dedicated user interface for Sightline deployment management and reporting</td>
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<td></td>
<td>• Supports up to 100 concurrent users or 700 per deployment</td>
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<td></td>
<td>• 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</td>
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<tr>
<td>Data Storage</td>
<td>• Dedicated management platform for creating monitored and protected managed objects (customers, networks, resources)</td>
</tr>
<tr>
<td></td>
<td>• Each supports up to 1,000 Managed Objects (MOs)</td>
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</table>

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 Virtual Machine Requirements

<table>
<thead>
<tr>
<th>Hypervisor</th>
<th>VMware</th>
<th>Xen Cloud Platform</th>
<th>KVM QEMU v2.11</th>
</tr>
</thead>
<tbody>
<tr>
<td>vCPUs</td>
<td>8 to 32</td>
<td>8 to 15</td>
<td>8 to 32</td>
</tr>
<tr>
<td>Network Interfaces</td>
<td>1 to 10</td>
<td>1 to 10</td>
<td>1 to 10</td>
</tr>
<tr>
<td>Memory</td>
<td>16, 24 or 32GB</td>
<td>16, 24 or 32GB</td>
<td>16, 24 or 32GB</td>
</tr>
<tr>
<td>Storage</td>
<td>100GB min</td>
<td>100GB min</td>
<td>100GB min</td>
</tr>
</tbody>
</table>

Note: Consult the product documentation for specific recommendations.

Arbor Sightline-7000 Appliances Specifications

Power Requirements
Redundant, load sharing and auto-sensing 850W dual power supplies; 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; 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.