

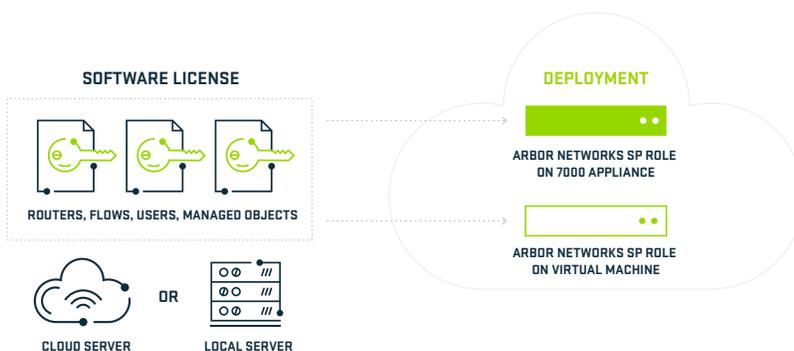
ARBOR NETWORKS SP FLEXIBLE LICENSING

Optimize your Arbor SP network monitoring with flexible licensing.

For years, the Arbor Networks® SP solution has been providing pervasive network visibility and threat protection to Internet Service Providers, cloud/hosting providers and large Enterprises. The rapid growth and ever-changing nature of modern-day networks puts financial and performance pressure upon our customers' ability to maximize their network monitoring using SP. In response, Arbor offers SP Flexible Licensing (Flex Licensing). Flex Licensing is a software licensing model that pools SP and SP Insight entitlements so they can be moved and reused as needed. This combined with new ways of purchasing Flex Licensing make it affordable to obtain all of the benefits from deploying SP and SP Insight monitoring of your entire network.

Flex Licensing Options

Flex Licensing is available as Flex Site License and Flex Purchase, both CapEx models with annual M&S payments, and as Flex Subscription, which is an annually renewed OpEx model. These three models can be combined in different ways to offer the most economical way of maximizing SP coverage as well as making it easy to expand SP as your needs grow. Additionally, Flex Licensing enables the add-on, SP Insight. Consisting of raw network flows, with Arbor Networks SP annotations and metadata, SP Insight provides a photographic memory of network traffic. SP Insight's powerful UI offers agile, multi-dimensional queries, empowering users to conduct big data analytics at the speed of thought-ultimately enabling faster insights and more intelligent business decisions.



Licensing includes the following entitlements types:

- **Core Router:** Designed for large/medium routers with a smaller number of interfaces at higher flows per second rates, and includes greater included flows. Includes peering analysis features.
- **Edge Router:** Designed for smaller, customer edge routers with many interfaces at smaller flows per second rates, and includes fewer included flows. Does not include peering analysis features.
- **Additional Flows:** Adds Core or Edge flows if the amount include with router licenses isn't sufficient.
- **User:** Number of concurrent users who can use the SP portal.
- **Managed Object:** Number of managed objects.

Key Features & Benefits

Greater Performance and Scalability
Flex Licensing is a software only licensing model that allows entitlements to be moved and used where most beneficial, allowing you to cost-effectively expand your SP deployment and support your future network growth.

Flexible, More Optimized Deployment
Core/Edge Routers, Users and Managed Object licenses can be installed in a dynamic and flexible manner to support your ever changing network and business environment.

Virtual Machine Support
In addition to Arbor SP 7000 appliances, SP with Flex Licensing supports virtual machines, thus enabling customers to use their choice of hardware. Existing SP deployments can easily convert to Flex Licensing.

Independent Software and Hardware Platforms

With Flex Licensing, the SP software is sold and licensed separately from the hardware platform. The platform can be Arbor SP6000, SP7000 and/or Virtual Machines. Existing xx6000 licensed appliances easily convert for reuse in Flex Licensed SP deployments.

With Flex Licensing, Core Router, Edge Router, Flow, User and Managed Object entitlements are managed from a central local or cloud-based licensing server and are applied onto the other platforms in the deployment whether these are Arbor appliances or Virtual Machine based SP instances.

Cost-Effective Expansion

Flex Licensing makes it easy and cost-effective to expand Arbor SP's monitoring coverage to:

- Expand peering and transit analysis to all contact points.
- Expand traffic analysis to the customer edges of your network.
- Launch profitable managed services such as: traffic analysis and reporting; DDoS attack detection, mitigation and reporting; or a hybrid DDoS protection service with on-premise protection (APS) up to layer 7 with signalling to your cloud mitigation (SP and TMS).

Easy Migration

Upgrading to Flex Licensing from the previous licensing model is easy. The designated Arbor SP "leader" appliance or node needs access to a licensing server either by pointing the leader to a cloud licensing server or by installing a local licensing server. This enables the leader to manage entitlement requests from all other appliances and roles in the deployment. For added flexibility, existing SP deployments can gradually move to Flex Licensing once the "leader" has been configured for Flex Licensing.

SP Roles

Licenses enable the capacity of the SP deployment. Each deployment consists of SP being installed upon either Arbor appliances or Virtual Machines. Each installation is identified as a role which contributes to provide capacity up to the licensed limits of the deployment. The roles are:

- **Traffic Routing and Analysis:** Collects Flow and Routing information from routers (core and edge) and Arbor Networks TMS appliances.
- **User Interface:** Provides the multi-tenant interface for various users to analyze threats and traffic, review alerts, mitigate attacks in Arbor Networks TMS appliances, and retrieve reports for the entire SP deployment.
- **Data Storage:** Enables longer term historical views for any managed object.
- **Leader:** Manages licensing entitlements of an SP deployment. It can be a nominated Traffic Routing and Analysis device or a dedicated device.

Arbor Networks SP Virtual Machine Requirements

	VMware vSphere v5.0, 5.1 and 5.5	Xen Cloud Platform v1.6.10-61809c	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.

Improvements in Performance and Scalability

Existing Arbor xx6000 appliances can be easily converted to SP with Flex Licensing and unlock improvements in performance and scalability.

SP-6000/SP-7000

SP with Flex
Routers:* 100
FPS: 200,000 / 240,000

*With SP and Flex Licensing a single Traffic Routing and Analysis node can support both Core and Edge routers.



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