

ARBOR NETWORKS SP INSIGHT

Big data analytics at the speed of thought for faster network insights and smarter business decisions.

Arbor Networks® SP Insight builds on the industry-leading Arbor Networks SP network visibility platform, adding powerful new big data capabilities that create a photographic memory of network traffic data plus new visual analytics for exploring it at the speed of thought. Leverage Arbor SP's unique flow annotations and enrichment to create context by matching this memory to your network topology, customers and traffic patterns — enabling you to conduct agile, multi-dimensional searches of raw and enriched data with unlimited filtering, the ability to maintain granularity over time, detailed retrospective drill-downs and effortless pivots from graphical to tabular visualizations — all while maintaining state on the event and period of interest.



The majority of the world's Internet Service Providers (ISPs), data center operators and large network operators rely on the Arbor Networks SP platform for network-wide visibility, DDoS detection, traffic engineering and advanced peering/transit analysis. Arbor SP helps them maintain peak service performance and availability, intelligently expand their network capacity, understand their operational costs and uncover new service opportunities. Now, operators can take advantage of Arbor SP Insight to further enhance their network visibility and make more informed operational, security and business decisions faster than ever before.

Arbor SP Insight Enhances Network Performance and DDoS Forensic Use Cases

Arbor SP Insight uses a modern, intuitive UI tightly integrated with Arbor SP and leverages the existing Arbor SP deployment, ensuring familiar, unified workflows, a near-zero learning curve and no additional network configuration is required.

Key Features & Benefits

Extends and Enhances Existing Arbor Networks SP Deployments

Arbor SP's value is extended and enhanced to retain high-fidelity, long-term storage of your annotated raw flow data and to allow multi-dimensional, visual analysis.

Big Data Lake Provides Photographic Memory of Network Traffic

Store all raw network flows, with your customized annotations and metadata for as long as your organization needs to retain them for real-time or historical, unstructured analysis.

Single Pane of Glass for Agile Analysis

Visualize complex queries and casual explorations in graphical and tabular formats from a single UI.



The Security Division of NETSCOUT

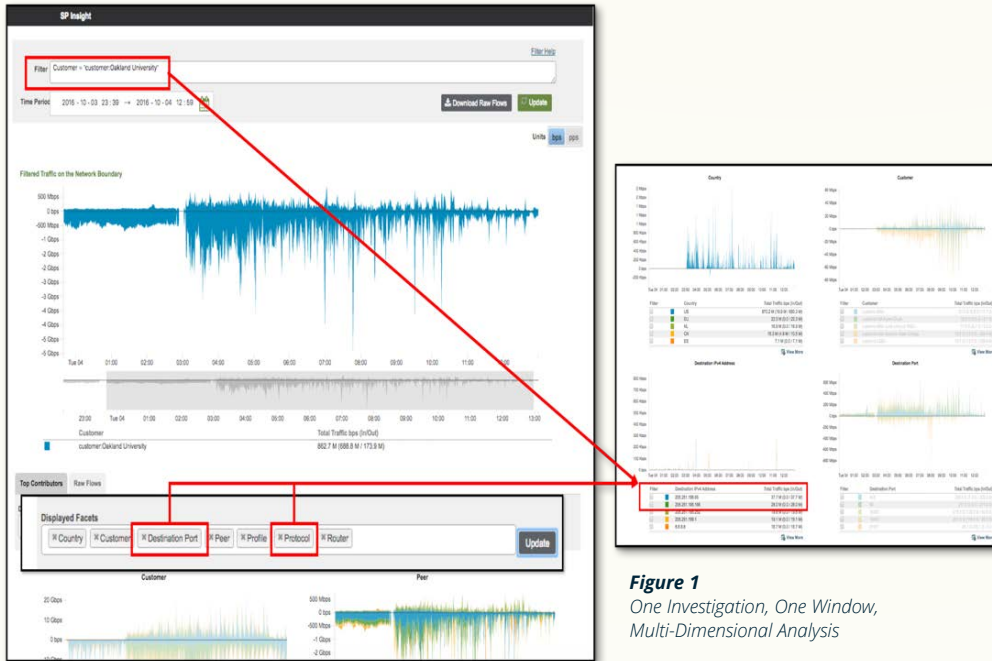


Figure 1
*One Investigation, One Window,
 Multi-Dimensional Analysis*

“Arbor SP Insight lets users efficiently examine multi-dimensional traffic data and conduct fine-grained root cause analysis while investigating reports of impaired performance, reducing time to resolution.”

Use Case: Customer Reports Slow Network Performance

With Arbor SP Insight, the user conducts their analysis from a single screen using agile, multi-dimensional queries and graphical visualizations. For example, from the Arbor Networks SP Customer Summary Report, the user clicks the “Explore with SP Insight” button to enter the Arbor SP Insight view.

Automatically, a single Arbor SP Insight view is loaded with a large main graph of all of the data based upon the defined filters and time period listed above it and additional sub-graphs are below displaying each “facet” (defined under “Top Contributors”) view of the above filtered data.

From the Arbor SP Insight view, the user can apply an unlimited number of multi-dimensional filters to get to a data set that can be further broken down in multiple views to intuitively mine those raw flows.

Arbor SP Insight lets users efficiently examine multi-dimensional traffic data and conduct fine-grained root cause analysis while investigating reports of impaired performance, reducing time to resolution. ‘What if’ analysis of peering and transit links can drive proactive network capacity planning and backbone engineering decisions that reduce costs and increase revenues.

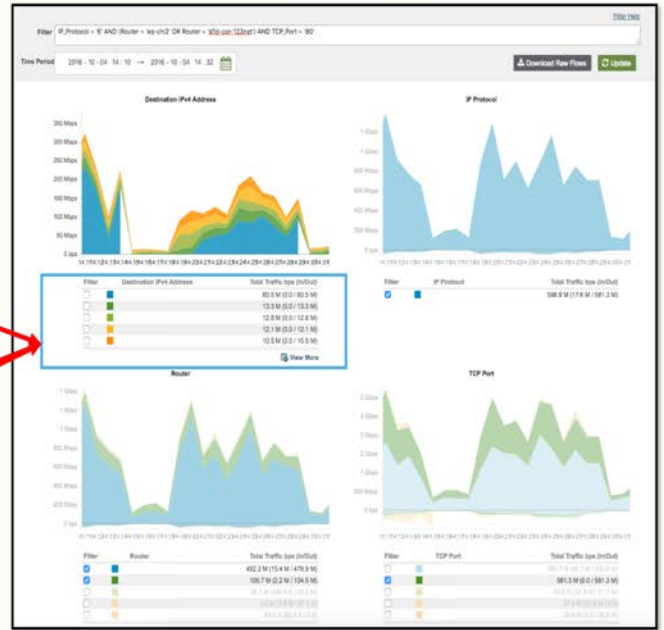
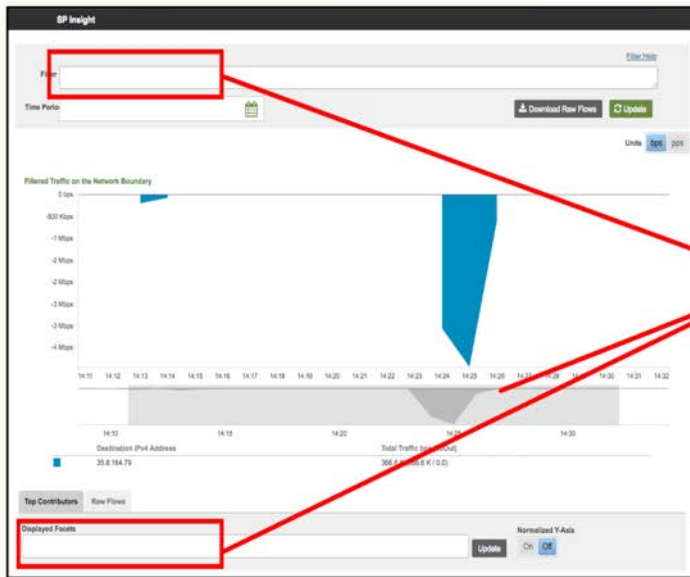


Figure 2 One Investigation, Unlimited Options

Use Case: DDoS Attack Forensics

Arbor SP is unparalleled in detecting DDoS attacks. Using pre-configured reports, an Arbor SP user could start researching a DDoS attack from a DDoS Host Alert with a high volume of suspicious traffic. As valuable as this is, if the user does not know which sub-components to search, limited to two filters per report, this effort can easily become a multi-screen/multi-report process.

With Arbor SP Insight, the user can go from the DDoS Host Alert in Arbor SP to the Arbor SP Insight workflow by simply clicking the “Explore with SP Insight” button. Then, the user can add more filters to drill down or modify a filter to move quickly and intuitively laterally through the data to determine more about the attack, such as:

- Attacks Destination IPs
- Expanded time range (did this happen more than once?)
- TCP and UDP Ports (to see extent of the attack)
- IP Protocols and Routers (to see how “targeted” the attack was)

Arbor SP Insight enables users to perform much faster and more thorough DDoS attack forensics. Users can pivot effortlessly between visual and tabular views to investigate an SP alert and period of interest, uncover the underlying traffic patterns and any contributing factors and even expose the individual flow records correlated with the event. This seamless workflow, combined with Arbor SP Insight’s network context and high fidelity data, enables users to learn more about past attacks, targets and indicators in less time and become better prepared for future events.

Arbor SP Insight is designed to enhance the capabilities and workflows of Arbor SP. Together, they enable network operators to gain even more pervasive network visibility and conduct agile, multi-dimensional, visual analysis against a combination of binned and annotated raw flows.



Figure 3 Investigate details of DDoS attacks deeper and faster from a single window

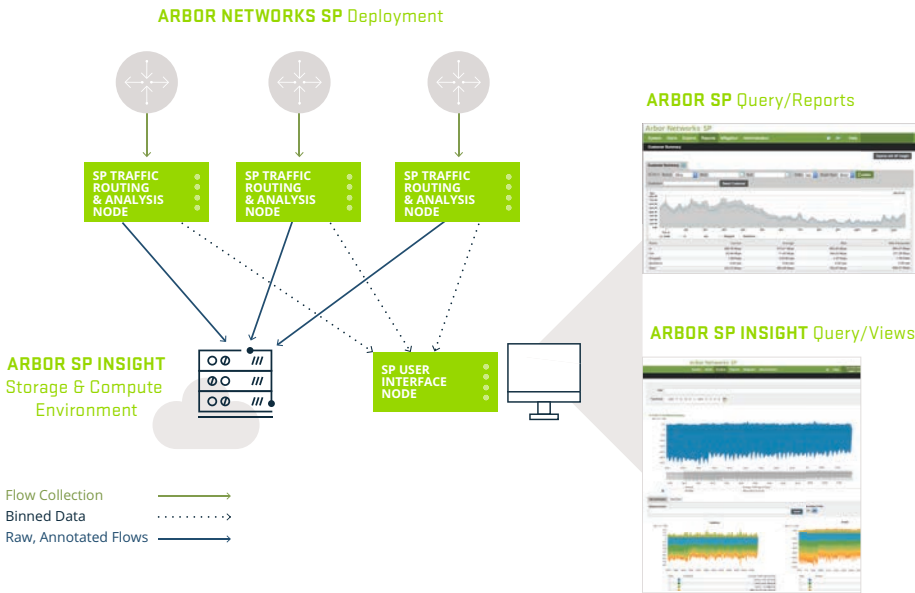
Arbor SP + Arbor SP Insight Comparison

Arbor SP Insight is designed to enhance the capabilities and workflows of Arbor SP. Together, they enable network operators to gain even more pervasive network visibility and conduct agile, multi-dimensional, visual analysis against a combination of binned and annotated raw flows.

	REPORTING	FILTERING	ACCESSING DATA
ARBOR SP	Structured Workflow Pre-Configured 2-Filter Combinations	Max = 2 Report Format Dictates Combination Structured Investigations	MO-Dependent Binned Fast Queries, Fast Detection
ARBOR SP INSIGHT	Ad-Hoc, Interactive Unlimited Filter Combinations	Unlimited Filter View Unlimited Time Range View Allows Intuitive Combinations	Determined by User's Storage Needs Detailed Queries Raw Flows

Arbor SP Insight Transforms Arbor SP into a Big Data Lake

Arbor SP Insight is an add-on to an Arbor SP deployment. All raw network flows, with annotations and metadata from Arbor SP are sent to customer supplied storage for real-time or historical, unstructured highly visual analysis.



Requirements

- Arbor SP v8.1 with Flex Licensing
- Arbor SP Insight is an optional software extension to Arbor SP and requires an external database compute and storage infrastructure which is supplied by customer.
- The scale of the required compute/storage hardware environment is a function of:
 - Network flow rates
 - Desired historical flow storage
 - Desired query times and volumes

What You Need To Know

1. Arbor SP Insight uses Big Data techniques to create a photographic memory of your network traffic activity – allowing deep and wide analytics.
2. Arbor SP's unique flow annotations and enrichment (Managed Objects) create context in Arbor SP Insight by matching this photographic memory to your network topology, customer and traffic patterns.
3. Arbor SP Insight enhances network visibility and DDoS attack forensic uses cases – assuring service availability, reduced operational costs and exposure of new service opportunities.

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