

Datacenter **SMARTFLOW**

Overview

During the last decade, business evolution and technology advancements have driven huge change in the way data centers are founded, organized, and managed. Enterprises are now focusing on a profound digital transformation, a continuous technology adjustment of management resources to deliver greater business value, guided by rapid analysis of desired outcomes related to end clients, resources, and budget constraints.

Datacenter Smart Flow is designed to give IT managers, architects, and technical staff deeper insights into traffic, applications or infrastructure changes. Providing real-time, granular visibility to quickly investigate, detect issues, define migration and transformation steps that will become competitive differentiators, enabling bottom line growth.

Product Description

Organizations must collectively strike a balance between striving for the agility, flexibility, and scale provided by new Datacenters, while maintaining control. As new applications are introducing, network complexity grows exponentially until service delivery is hampered and the user experience degrades—unless technical staff is fully retrained and remodeled, and the network has evolved alongside all data center requirements. Avoiding impacting the organization's ability to keep up with the pace of business.

Datacenter Smart Flow is a Comprehensive analytics solution that monitor and predict application traffic flows, which offers architects and technical staff key insights to make relevant operations decisions to meet and exceed their service performance expectations.

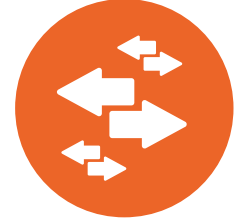
Through the following use case modules, the solution transforms traffic data stream into fully interactive and enhanced visualizations based on real-time information (Datacenter Smart Discovery), provides the best plan information to understand the behavior of a migration model strategy in different Datacenters scenarios (Datacenter Legacy Migration) and verify Service's behavior based on traffic, to detect anomalies or unexpected behaviors (Datacenter Footprint Behavior) Multiple datacenter switching architectures are supported by Datacenter Smart Flow (From traditional Datacenter to EVPN, VXLAN Datacenter architectures).



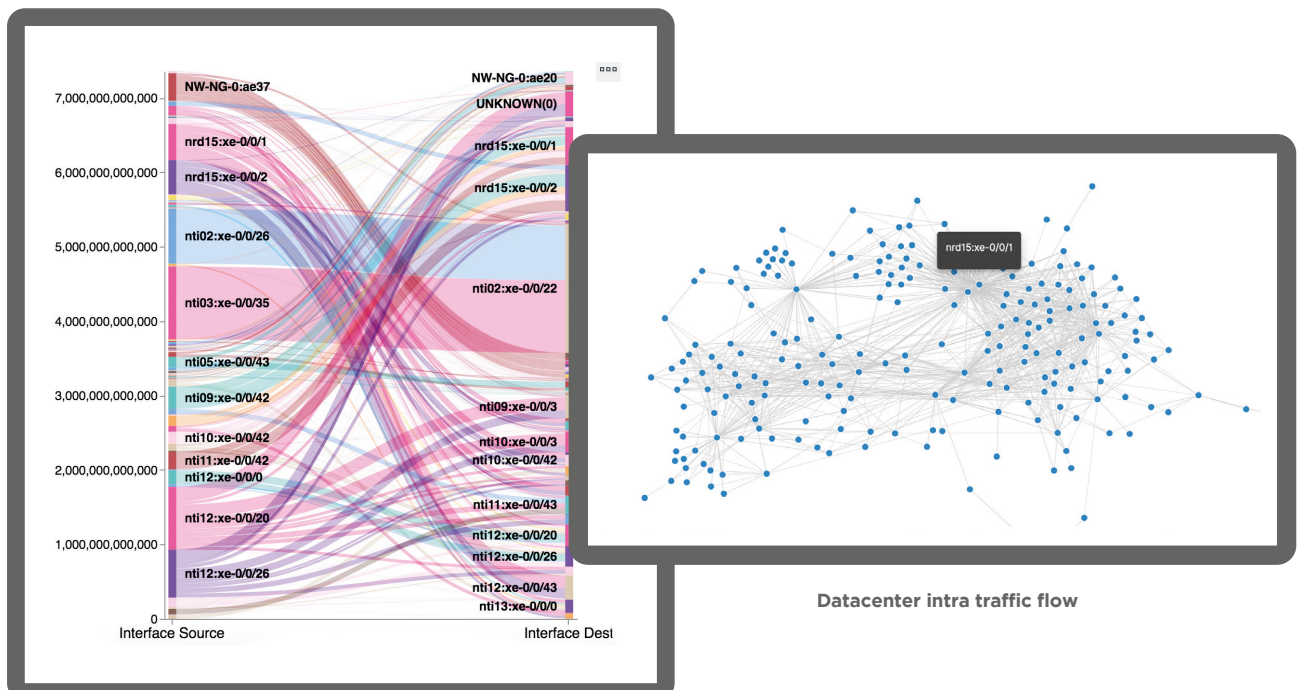
Datacenter
Smart Discovery



Datacenter
Footprint Behavior



Datacenter
Legacy Migration



Datacenter Smart Discovery

Datacenter Smart Discovery Module is powered by Data Analytics, to discover the current deployed services in the Datacenter with the highest level of detail.

The layout for the graphical design is enhanced to improve the readability of the applications, creating an approximation of the overall structure while reducing the complexity to make it easier to comprehend. Also, implements a visual interactivity so the user can manipulate the representation to match their requirements.



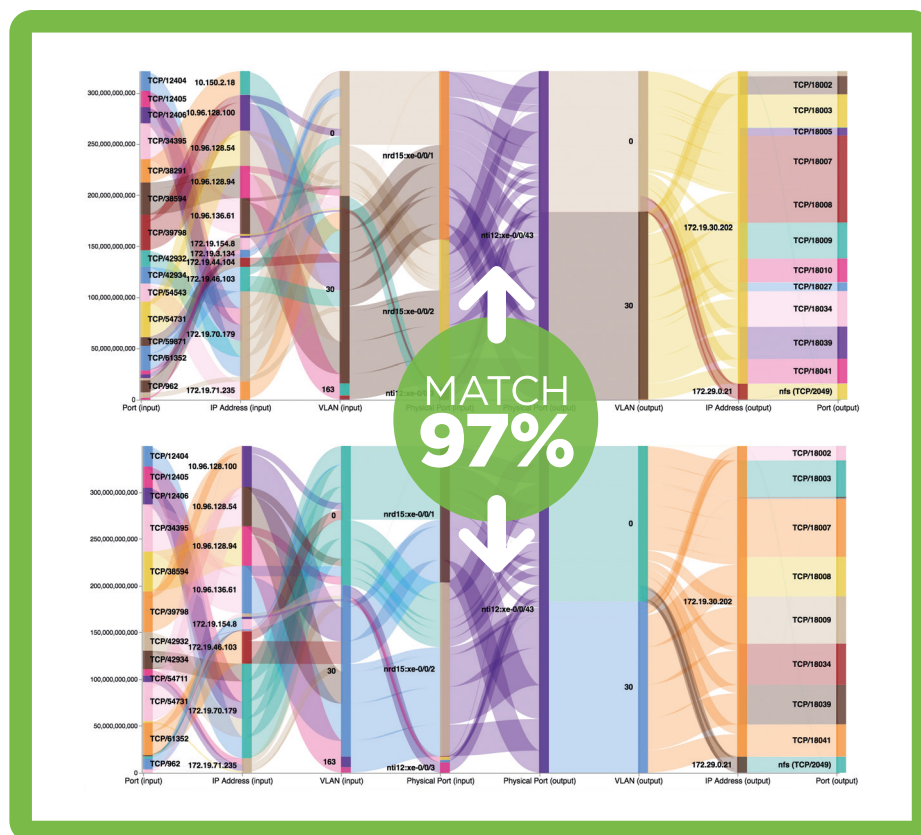
Datacenter Smart Discovery

Datacenter Footprint Behavior

Nowadays, new features testing and deployment takes a long time, impacting time to market for new technologies, products, and service.

Datacenter Footprint Behavior module enables customers to verify services 's behavior based on traffic, to detect anomalies or unexpected behaviors.

To do this, DFBA compares the traffic footprint before and after the change, and establishes the deviation degree between the two states. This product allows to quickly detect any inconsistency, which could affect current services as well as the deployment of new services.

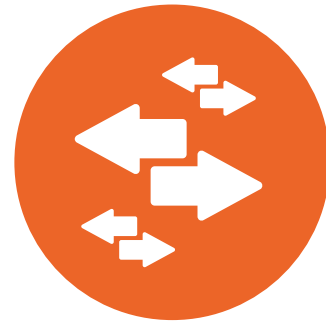


Datacenter Footprint Behaviour

Datacenter Legacy Migration

The type of data center network transformation requirements can be very different based on several dependencies, such as the size of the data center, service-level agreement (SLA) requirements, or high availability (HA) needs and capabilities. The choice of implementation of data center transformation will have a major impact on the overall planning for the network transformation. Every customer has different requirements, resulting in different transformation plans. Making each one unique.

Datacenter Legacy Migration module has built-in advanced algorithms and machine learning techniques to process multiple data sources, identifying critical network nodes and analyzing best scenarios to migrate a datacenter. By predicting the network links traffic load it can effectively recommend resource-allocation strategies to early address a datacenter migration. Machine Learning (ML) represents nowadays the state-of-the-art methodology for discovering complex relations among data sources. The module applies graph-based ML algorithms to forecast traffic load on the datacenter links, providing the user alternative migration scenarios.



Key Components

Flows:

Statistical flows using the industry standard for packet export at Layer 2. A standard supported by multiple network device manufacturers. Datacenter Smart Flow implementation enables the modules to address high speed networks requirements in a highly scalable solution.

Machine Learning:

Advanced algorithms leveraging machine learning capabilities, correlates multiple data sources, and performs historical and predictive analytics for alternative scenarios.

Centralized Dashboards:

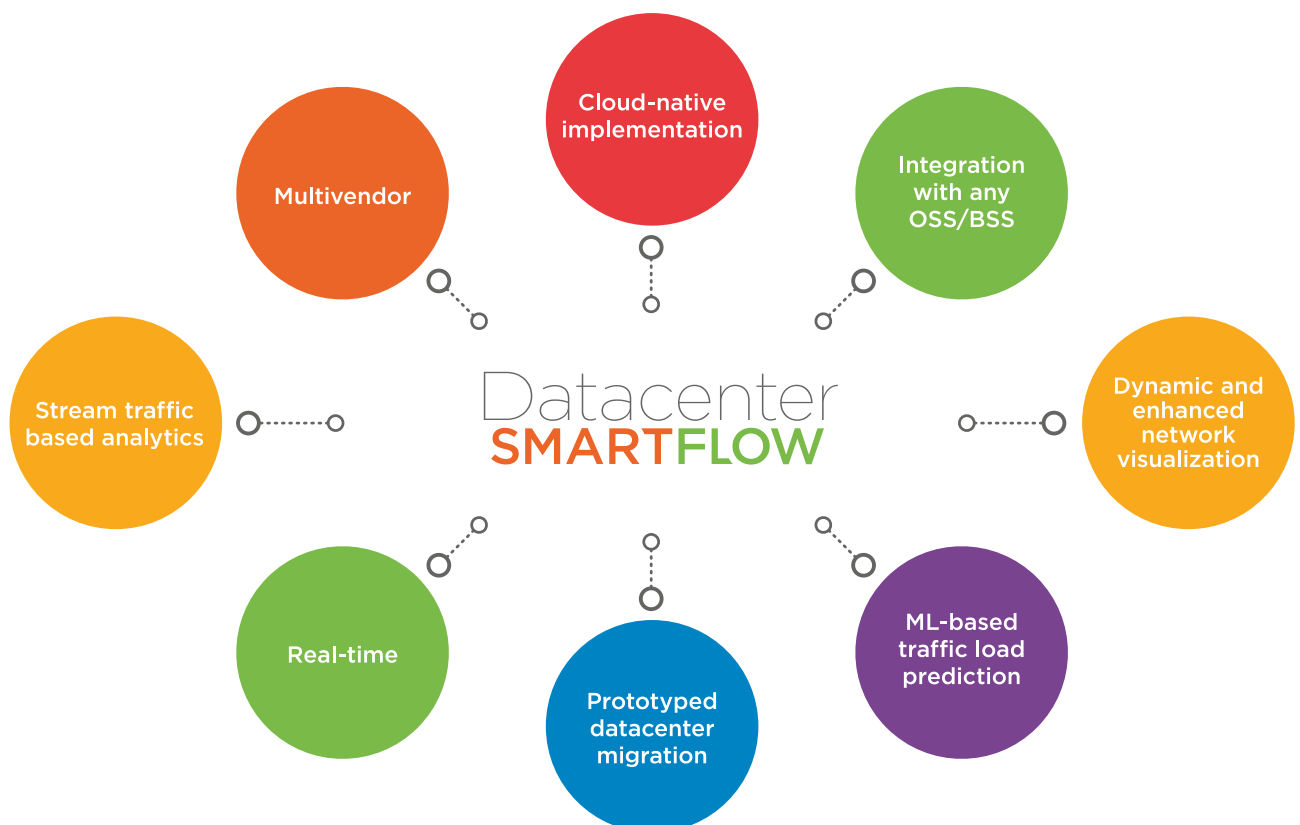
Open-source tools to provide new dashboards that visually display information about network insights.

Open stack technologies:

Provides a solution that supports multiple open-source data pipelines and collectors, for data ingestion, data filtering and analytics.

Features and Benefits

- Cloud-native implementation.
- Multivendor.
- Stream traffic based analytics, which provides deep insights information of the Datacenter infrastructure.
- Real-time, accurate network state view of physical, logical, and service topologies.
- Prototyped datacenter migration.
- ML-based traffic load prediction.
- Dynamic and enhanced network visualization.
- Capable of integrating with any OSS/BSS platform to improve overall network asset management.
- Brings data integrity to multiple OSS/BSS, simultaneously.



Auben Services & Solutions

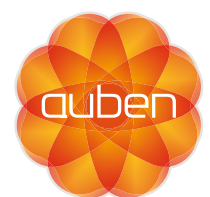
An international company which offers advanced telecommunication network services and products. We use our experience, creativity and innovation ability to create high quality solutions, guiding our clients to reach their greatest technological potential.

About Auben Networks

In the depths of our being, in our essence, printed in our DNA, lies the desire for communication. Like neurons getting hit by the indestructible momentum of ideas and spreading to reach each other with the larger goal of growing, this is how Auben is born. A group of people for whom ideas and communication are the drive for growth. We are the union of this inner force, and the knowledge and deep understanding of advanced technologies for network construction, which we want to share, aiming at creating bridges to make people's lives better.

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