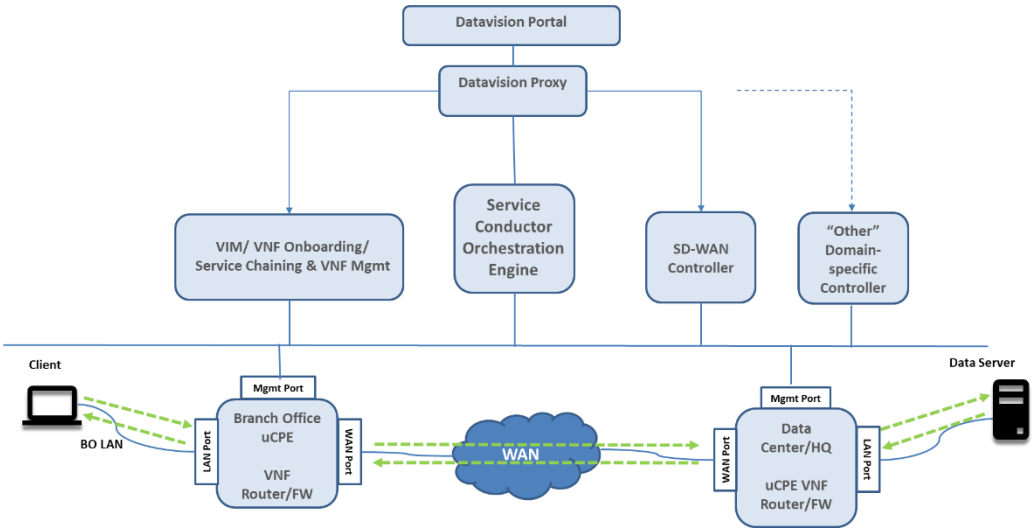
SERVICE CONDUCTOR™ ORCHESTRATION SYSTEM

datavision
Future-Proofed Networking Solutions

Recently, SD-WAN has matured to the point where there are widespread deployments among branch offices, HQ and Cloud Infrastructure to help organizations reduce telecom costs, as well as provide application aware routing to optimize performance and operational costs. Among the issues that have arisen from these deployments are security, service provisioning and activation, integration into existing systems (telecom or enterprise), management and orchestration of the SD-WAN underlay, and costs of end-point hardware and software.

Service Conductor™ was developed to address these concerns. With a renewed emphasis on Work-From-Home and remote worker programs, as well as the existing secure branch office need, Service Conductor™ helps organizations of all types deploy SD-WAN quickly, securely, and inexpensively.

Service Conductor™ from Datavision is an orchestration and automation system to help you deploy SD-WAN and underlying infrastructure more quickly, efficiently and securely. Service Conductor™ consists of a self-service User Portal, System orchestrator for end-end service provisioning, ZTP configuration management engine, with SASE-"compliant" routing and security architecture. With additional extensions, Service Conductor™ can also be used to orchestrate the underlay network as well. The Virtual Network Functions (VNF's) reside on an x86-based white box platform for the least cost hardware alternative.



Service Conductor™ is an agile vendor-agnostic solution for use by telecom companies, managed service providers and large enterprises to improve customer/user experience and lower costs by accelerating service fulfillment and eliminating manual operations that are error prone. With the different options delineated below, Service Conductor™ also integrates with your existing OSS/BSS platforms using model-based service abstracts and standard, open APIs. (MEF, TMF)

- Consolidate your SD-WAN overlay and network underlay - control other network element silos to achieve end-end service orchestration and service activation.
- Vendor-independent support – onboard the VNF's you need.

Delivering SASE: True SASE requires that the network devices closest to the user and devices are able to dynamically provide security services by discovering end points, their privileges, and securing the traffic. 128 Technology Session Smart™ routers have built-in capabilities to provide these security services at every router in the network.

128 Technology routers are **session based** and operate on sessions rather than individual packets just like firewalls. They have inherent directionality built-in which allows them to understand who is allowed to initiate sessions and in which direction. An administrator can specify which sessions to allow based on a given authentication criteria. Once the router confirms that the source is valid, the session is placed in a tenant that allows it access to certain destinations based on privileges. Any policies associated with the session related to security, encryption, authentication, QoS, loads, or other criteria are also individually decided per session. This allows for fine grained hyper segmentation. Ultimately this ensures secure access as any unauthorized session will be dropped as soon as they traverse the first router in the network. The 128 Technology Session Smart™ routers can also identify sessions automatically and place them in different categories or tenants giving them different treatment as desired by the administrator.

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Service Conductor™ is available in three major configurations, to match your budgetary and performance needs:

Service Conductor™ - Core: Core provides you with a Portal and Security proxy to create configurations and activate service for per-site single router/firewall instance based on the Open-Source DANOS router recently released. The SC implementation is accomplished for a fixed price and give an enterprise customer basic configuration management Basic Portal, Configuration of Open Source Routers. Minimal customizations, integrations

Service Conductor™ - Plus: SC Plus is a step up in functionality and performance, providing the Configuration Portal, customizations for your specific workflow, and **single silo integration** for routers, SD-WAN VNF's (128T, Fortigate, IPI), full end-end service orchestration, and northbound integration for your existing BSS/OSS systems. This option does not include underlay orchestration

Service Conductor™ - Professional – SC Professional provides Portal and workflow customizations, Multi-VNF support, **multi silo support** for underlay and other network element orchestration, integration N/B, and E-W for BSS/OSS integrations. SC-Pro delivers full end-end service orchestration and integration with best of class VNF's and service chaining.

Why Use Service Conductor™?

- Price competitive versus existing Orchestration/ Automation, SD-WAN and security offers.
- Technical feature sets and enhancements using Datavision-vetted uCPE.
- Pre-tested Pre-engineered SD-WAN Edge solution
- Complete functioning SD-WAN edge system – ready to deploy.
- Enables the "programmable network".

Service Conductor™ Features and Functionality:

- Portal for:
  - Viewing of management and performance stats
  - Application policy development and implementation
  - Provisioning
- Zero Trust Security model designed to SASE requirements
- MEF compatible solutions to meet carrier requirements
- Session Smart Routing, Application-Specific routing
- Hyper segmentation
- Multi-path routing with session failover
- Zero-touch provisioning and installation
- Global policy delivery and enforcement
- Sub-second failover
- Enhanced visibility and dynamic optimization
- Integrated security and routing
- Software-based SDWAN VNF on flexible uCPE platform (Virtual Network Function/appliance agnostic)
- Ability to automatically provision, connect and manage connectivity to IaaS services such as AWS, Azure, Google, etc.

Improves performance: The network can be configured to prioritize business-critical traffic and real-time services and then steer it over the most efficient route. By facilitating critical applications through reliable, high performance connections, IT teams can help reduce packet loss and latency issues, thereby improving productivity.

Boosts security: SASE, or Secure Access Service Edge, SD-WAN features will be tested with the Datavision uCPE for compliance and MEF 3.0 readiness for use.

Lowers complexity: The Datavision Service Conductor™ uCPE solution provides a single platform for SD-WAN use that replaces multiple boxes used in last generation network architectures today. Pre-Engineered uCPE lowers the complexity of using SD-WAN in many ways, software works with hardware, service chaining works between VNF based applications, and the complete system is ready for deployment.

Enables cloud connectivity: Enables direct cloud access at the remote branch, thereby eliminating backhauling traffic – routing all cloud and branch office traffic through the data center – meaning that workers can directly access cloud applications regardless of location without burdening the core network with additional traffic to manage and secure. What's more, SD-WAN improves cloud application performance by prioritizing business critical applications and enabling branches to directly communicate to the Internet.

Reduces costs: Costs are reduced when Networks are simplified using SD-WAN. Applications are more secure and more available. Networks running SD-WAN are more reliable due to diversity and proactive self-healing networking benefits. Additionally, when properly selected and deployed, SDWAN functionality can be extended deep into the local branch LAN to ensure that security and network functionality can protect locally deployed devices and secure direct connections to SaaS applications and other online resources. Eliminating network sprawl, security risks, and inconsistent performance are among the advantages of migrating to SDWAN.

In addition to the software and integration offered by Datavision to deploy Service Conductor™ as a system, we can also provide our client with full life-cycle services to help integrate the solution into your business operations. Below are the areas in which we can also assist our clients in standing up an automated and orchestrated solution:

Technical Readiness

- All technical aspects of product design and architecture completed (Including network interconnects and inter-carrier ordering, billing and reconciliation
- Technical testing completed (including performance testing, load testing)
- All technical documentation finalized (product technical guide)
- All technical training finalized and delivered
- All technical support in place for product infrastructure (maintenance contracts)
- Technical integration completed for all solution components and OSS/BSS
- Beta testing (fault scenarios, redundancy working, escalation working)

Commercial Readiness

- All product internal (sales guides, FAQ, proposals) documentation ready
- All product external documentation ready (order forms, brochures, value proposition, contracts)
- All product OSS/BSS systems ready and end-to-end trial order completed successfully
- All product training completed (for sales and solution architects)
- All commercial components approved for release (pricing, SLAs)
- Business process documentation completed (how to order)
- Product launch prepared

Operational Readiness

- Operational staff fully briefed and trained
- Operation end-to-end testing of trial customer order (from order receipt, implementation to support)
- All operational work instructions completed (implementation, troubleshooting)
- All OSS/BSS systems tested and integrated
- All customer billing working as per specification