Avaya delivers the industry’s first holistic software-defined networking architecture, addressing the end-to-end relationship between applications, business logic, and networking services.

The Avaya Fabric Orchestrator is a scalable, integrated and ready to deploy management solution that simplifies and automates orchestration of a hybrid network comprising of both Legacy Infrastructure and SDN infrastructure.

As networks become more complex, and span data centers through to the edge, there is an increased need for more comprehensive and scalable management applications. Software-Defined Networking (SDN) offered a promise of clear and easy management of complex workflows in large scale networks. Even though this resulted in a paradigm shift in network and service management, existing work to leverage SDN assumes a full deployment of SDN enabled network switches and in most cases, addresses only the Data Center network.

This poses a challenge – to take full advantage of paradigm shift, a network must be upgraded to be fully-SDN enabled. However, most network upgrades follow a staged process for a variety of reasons (risk, time and cost constraints) – and only parts of network are upgraded at any given time.

This leaves IT administrators with a multitude of tools to manage the hybrid network consisting of legacy and SDN infrastructure.

Avaya Fabric Orchestrator

Avaya Fabric Orchestrator is a next generation management solution from Avaya. It is a comprehensive, highly available, yet modular platform providing a
The Avaya Fabric Orchestrator is a core component that enables programmability and automation of overall Avaya SDN Fx Architecture. It is a unified solution from which all Avaya infrastructure elements – wired, wireless, physical and virtual resources – can be monitored and managed. Fabric Orchestrator is extensible and provides an ability to plug-in value added services from Avaya. This not only helps protect investments but also increases customer value.

Avaya Fabric Orchestrator also provides the following benefits:

- **Easy Deployment** – A stand-alone solution with all functionality pre-installed and integrated
- **Comprehensive Security** – Single sign-on, Role-based access control and Trust Management
- **Unified management** – All of Avaya’s wired, wireless, physical and virtual resources monitored and managed with a single solution
- **Single Pane of Glass** – Rich and easy to use interface to simplify tasks
- **Fabric Support** – Including Fabric Attach to automate Avaya experience with Fabric Connect

**SDN Fx™ Programmability**

As a core component of Avaya SDN Fx Architecture, Fabric Orchestrator enables orchestration, automation and programmability of the network using the following features:

- **Fabric Attach** for “zero touch” provisioning, monitoring and policy management services
- **The Avaya SDN Controller** integrated with OpenDaylight to enable SDN edge programmability
- **OpenStack ML2 drivers** to integrate with OpenStack to control specific fabric functions
- **Northbound APIs** to enable integration with 3rd party cloud management, manager of manager applications

**FCAPS Functionality**

As a traditional Management platform, Fabric Orchestrator offers best-in-class monitoring, provisioning and troubleshooting for Avaya devices. It helps reduce the administration, complexity and related costs of managing the network through a single unified framework. This allows businesses to centralize and
streamline their management workflows, while reducing installation, configuration and maintenance time.

Fabric Orchestrator comes with the following base functionality:

**Discovery & Visualization** – provides rich discovery and visualization capabilities of all devices and nodes attached to the network, including servers, storage servers, switches, routers, IP phones, Avaya Aura® applications, VM hosts, and more.

**Fault & Diagnostics Management** – performs status monitoring and collects the information that is needed to do event correlation, event handling and root-cause analysis (RCA)

**Configuration and Orchestration** – provides GUI-driven, network-wide configuration and (template-based) provisioning of new or existing network devices. Includes change management and regular backups of device configurations.

**Performance Management** – provides basic performance management features to help two key activities in a customer environment: capacity planning and change monitoring. It can monitor thresholds on any instance and report if thresholds reach or exceed.

**Application Performance** – monitors, analyzes and reports application behaviors and their bandwidth utilization trends

**Conclusion**

The Avaya Fabric Orchestrator is a leap forward from solutions available today in market. With a full range of management capabilities ranging from traditional management features like Fault and Performance Monitoring, Configuration, Security combined with SDN programmability features, Fabric Orchestrator provides the single-point solution with ease of use and extensibility required in today’s IT environments.
About Avaya

Avaya is a leading, global provider of customer and team engagement solutions and services available in a variety of flexible on-premise and cloud deployment options. Avaya’s fabric-based networking solutions help simplify and accelerate the deployment of business critical applications and services. For more information, please visit www.avaya.com.