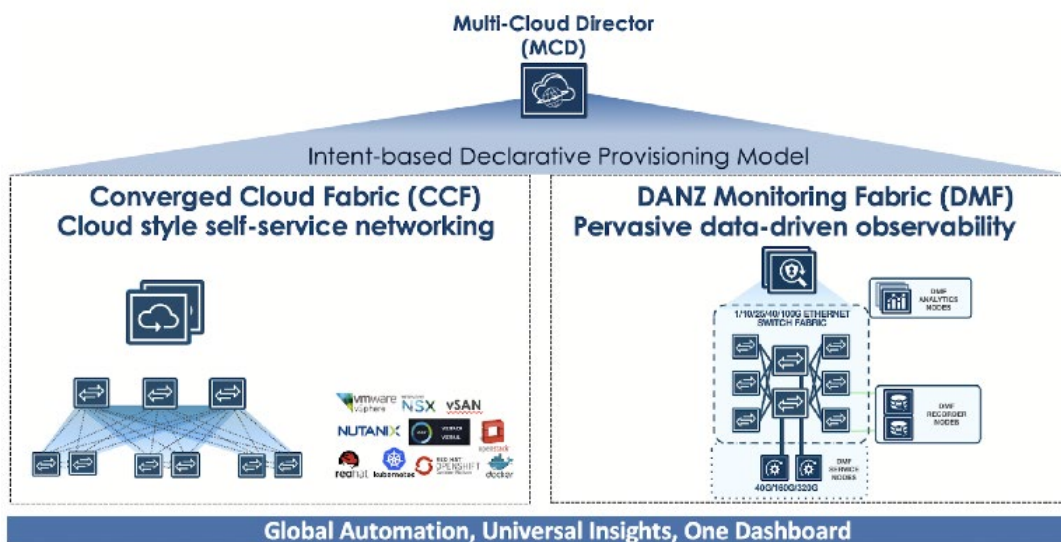


Multi-Cloud Director™

Unified Multi-Controller Management For DMF and CCF

Multi-Cloud Director - Overview

Arista Networks® Multi-Cloud Director™(MCD) offers multi-controller federated management for Arista DANZ Monitoring Fabric™ (DMF) and Converged Cloud Fabric™ (CCF) deployments. MCD provides a one-dashboard experience for DMF and CCF in multi-pod, multi-site environments. Multi-Cloud Director (MCD) not only consolidates repetitive administration tasks to simplify the management of multiple networks, but also provides global visibility across your data centers. Organizations realize tremendous operational savings compared to the cost of operating the massive complexity of a box-by-box network. Multi-Cloud Director provides an intuitive dashboard that displays real-time data from DMF and CCF controllers. Operations teams can select a specific controller to see a detailed view of a particular DMF or CCF deployment.



Multi-Cloud Director Benefits

MCD Provides the following benefits to IT organizations deploying multiple instances of DMFs and CCFs across multiple sites.

- Global Configurations:** MCD provides global configurations that are commonly and consistently applied across all DMF and CCF deployments, such as sFlow, AAA, NTP, and syslog etc. Template-based workflow is provided so that configurations can be easily applied across a subset of DMF and CCF deployments. MCD also performs compliance checks on these configurations to ensure consistency across all the deployments.
- Global Visibility:** IT organizations can quickly and intuitively search the MCD database to visualize various parameters of DMF and CCF deployments. For example, network admin can easily identify any endpoint across global deployment of dozens of controller domains and hundreds of switches. IT-wide policy compliance can be rapidly audited across switch and appliance hardware, software and firmware versions, switch ASICs etc. and exported for reporting purposes.
- Global Operations:** MCD provides ability to perform common and repeated operations across DMF and CCF instances, such as software upgrades and controller snapshots. These operations are applied simultaneously across multiple DMF and CCF controllers, thus speeding up Day1/Day2 operations, ensuring consistency and accelerating IT compliance globally.
- Global Programmability:** MCD provides north-bound APIs that can be used to program all the DMF and CCF controllers added to the MCD database thus providing a centralized way to programmatically manage all your deployments.

Multi-Cloud Director - Global Dashboard Capabilities

Feature	Description/Benefit
Integration	MCD is integrated with: <ul style="list-style-type: none"> DANZ Monitoring Fabric (DMF) Converged Cloud Fabric (CCF) Analytics Node (AN)
Visibility	<ul style="list-style-type: none"> Enables Global visibility to check software revisions, IP addresses, MAC addresses, major alerts, fabric-specific information, endpoint addresses, and myriad other data objects.
Centralized API	MCD provides a centralized, full-featured North-Bound API access for programmability and automation with IT tool chain.
Global Configuration Templates	MCD can rapidly apply common configurations across multiple DMF,CCF and AN instances, specifically NTP, SNMP , Syslog, sFlow, AAA.
Configuration Snapshots	<ul style="list-style-type: none"> Controller instance(s): MCD allows administrators to take scheduled and on-demand configuration snapshots of multiple DMF and CCF controllers and AN instances. These snapshots can then be used to restore the respective controller's configuration to its previous state. MCD instance: MCD also supports configuration snapshot of the MCD instance itself for easy backup and restore
Inventory	Displays all switch and controller data for each fabric, including hardware addresses, hardware types, Dell Service Tags, hardware model numbers, switch firmware, ONIE, and CPLD.
Centralized Health Dashboard	MCD's health dashboard provides a centralized view to monitor the health parameters such as fabric errors and warnings, redundancy status, switch status, etc for all your DMF and CCF deployments.
Compliance Reporting	MCD can generate compliance reports based on hardware revisions and software versions.
Centralized Capacity Planning	MCD's capacity planning dashboard displays resource utilization for parameters such as Enterprise Virtual Private Clouds (E-VPCs) , endpoints, routes, segments, ACLs to help administrators with capacity planning.
Multi-team Operations	Beyond NetOps, other IT teams can leverage MCD to locate applications or workloads, run compliance checks, or check security settings within an E-VPC.
Single Sign-on Access	With MCDs single sign-on, administrators can access any DMF or CCF controller or AN cluster without additional login steps.
Centralized SW Upgrades	<ul style="list-style-type: none"> Controller instance(s): MCD provides administrators a built-in workflow to upgrade multiple DMF or CCF controllers. Analytics Node(s): MCD provides administrators a built-in workflow to upgrade multiple Analytics Node instances. MCD instance: MCD provides an inbuilt workflow for easy upgrade of the MCD VM instance

Multi-Cloud Director - Global Dashboard Capabilities Contd.

Feature	Description/Benefit
E-VPC Tenant Information	MCD can display all of the E-VPC attributes configured within each CCF POD, such as the E-VPC name, E-VPC segments, pods, and endpoints associated with each E-VPC. This offers a consolidated view of all E-VPCs configured across multiple CCF deployments.
Role Based Access Control (RBAC)	MCD supports both Radius and TACACS authentication for Role Based Access Control
Scale	Max CCF instances: 50 Max DMF instances: 50 Max AN Clusters: 25 Max Total (DMF, CCF & AN): 65

Multi-Cloud Director is Available For a Virtual Machine Appliance

Environment	MCD VM
Hypervisor	VMware ESXi - 6.5 or higher KVM - RedHat 7.5, CentOS 7.6 Nutanix AHV - 5.18.1.2
vCPU	4
vMemory	6GB
vHDD	400GB (thin provisioned)
vNIC	1

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