

SD-WAN Cloud OnRamp for CoLocation

Q What is the Cisco SD-WAN Cloud OnRamp for CoLocation solution?

A The Cisco SD-WAN Cloud OnRamp for CoLocation solution aggregates your branch office Software-Defined WAN (SD-WAN) or traditional routing infrastructure network services to key regional locations or colocations and allows you to deploy multicloud connected services at the network edge for; better quality of service, simplified management and increased security.

Q What are the key capabilities of the Cisco SD-WAN Cloud OnRamp for CoLocation solution?

A With the Cisco SD-WAN Cloud OnRamp for CoLocation solution you can:

- Deploy secure virtualized network services automatically on demand with centralized policy management – **deployed in minutes with software instead of weeks.**
- Aggregation of your regional branch offices provides better security control and assures secure user connectivity to branch/remote sites.
- Help to maintain Service Level Agreements (SLAs) and provide a better user experience with proximity to multiple clouds.

- Connect to multiple clouds and colocation centers and significantly reduce transport costs.
- Decrease the need for trained IT professionals at each branch site without sacrificing security.

Q What are the key use cases for the Cisco SD-WAN Cloud OnRamp for CoLocation solution?

A The primary use cases for the Cisco SD-WAN Cloud OnRamp for CoLocation solution are, but not limited to:

- **Multicloud connectivity;** Connect Cloud/IaaS/SaaS applications to branch offices with operational ease. WAN aggregation at geographic/network hub site(s) improves user experience due to proximity of hub site to clouds.
- **Internet hand-off;** Apply consistent security policies and connect different types of users to the internet and between different services providers.
- **Secure gateway;** Maintain secure branch to internet connectivity and securely connect all my branches to the internet.

Q **What are the benefits of the Cisco SD-WAN Cloud OnRamp for CoLocation solution?**

- A** Cisco SD-WAN Cloud OnRamp for CoLocation benefits include:
- Simplified branch office network services management and aggregation for SD-WAN or traditional routing across geographies and multiple service providers.
 - Streamlined security, control and visibility to better protect the entire WAN.
 - Better multicloud user experience with lower latency and decreased circuit costs due to proximity to clouds.

Q **What type of customers may want to deploy the Cisco SD-WAN Cloud OnRamp for CoLocation solution and why?**

A If business or compliance policy forbids internet access at the branch, creating network hubs for internet access can help to simplify managing security policy between partners, customers and employees who connect remotely.

By consolidating distributed branch egress points into virtual hubs with Cisco SD-WAN Cloud OnRamp for CoLocation, IT management can reduce network management costs, complexity, and even their attack surface to better protect against threats. And reducing the geographic distance to cloud applications can improve overall performance.

Q **What Cisco products are a part of the Cisco SD-WAN Cloud OnRamp for CoLocation solution?**

- A** The Cisco SD-WAN Cloud OnRamp for CoLocation solution is made up of the following Cisco products:
- Cisco CSP 5444 Series Cloud Services Platform
 - Cisco Catalyst C9500-40X-A Switching Platform
 - Cisco vManage

When ordering each item may be purchased individually/a-la-carte or as a pre-bundled package depending on network size/number of users.

Q **What is the Cisco CSP 5000 series?**

A The Cisco® CSP 5000 series platforms are x86 software and hardware platforms designed to host and manage any VNF based on the Cisco NFVIS hypervisor. It provides basic lifecycle management by enabling its users to create, modify, upgrade, and shut down virtual machines at a moment's notice through an easy-to-use GUI, CLI, REST API, and/or NetConf/Yang interface. For more info see: www.cisco.com/go/sd-wan.

Q **What is the Cisco Cat 9000 series?**

A The Cisco® Catalyst® 9000 family of switches is the next generation of enterprise-class switches built for security, Internet of Things (IoT), mobility, and cloud. For more info see: www.cisco.com/go/cat9k.

Q **What is Cisco vManage?**

A Cisco vManage is a fully manageable, centralized portal to run and operate Cisco SD-WAN infrastructure with real-time analytics. With vManage you are able to orchestrate secure connectivity between Cisco SD-WAN endpoints with a single pane of glass for day 0, day 1 and day n operations. For more info see: www.cisco.com/go/sd-wan.

Q **What Cisco and third party Virtual Network Functions (VNFs) does the CSP 5000 and the Cisco SD-WAN Cloud OnRamp for CoLocation solution support?**

- A** The solutions support a wide variety of Cisco and third-party Virtual Network Functions (VNFs), including firewalls, load balancers, and other value-added services. Supported VNFs include:
- [Cisco Cloud Services Router \(CSR\) 1000V virtual router](#)
 - [Cisco IOS® XRv 9000 Router](#)
 - [Cisco Adaptive Security Virtual Appliance \(ASA v\)](#)
 - [Cisco Firepower™ NGFW Virtual](#)

- [Cisco Prime® Virtual Network Analysis Module \(vNAM\)](#)
- [Cisco Virtual Wide Area Application Services \(vWAAS\)](#)
- [Cisco Web Security Virtual Appliance \(WSAv\)](#)
- [Cisco Virtual Security Gateway \(VSG\) for Cisco Nexus® 1000V Series Switch deployments](#)
- [Cisco Virtual Supervisor Module \(VSM\) for Cisco Nexus 1000V Series Switch deployments](#)
- [Cisco Data Center Network Manager \(DCNM\)](#)

The hypervisor layer is KVM based and can run any third-party VNFs. However, for the best experience customers should deploy VNFs that are certified as a part of the Cisco Third Party VNF Ecosystem. See [here](#), for information on the Cisco Third Party VNF Ecosystem and which VNFs are certified.

<https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/enterprise-network-functions-virtualization-nfv/nfv-open-ecosystem-qualified-vnf-vendors.pdf>



Why is the Cisco SD-WAN Cloud OnRamp for CoLocation solution unique?

A

Cisco is the worldwide leader in networking and with Cisco SD-WAN Cloud OnRamp for CoLocation you get:

- Purpose built hardware and software solution for regional/geographic aggregation hub sites, data centers, campuses or colocation centers.
- Proven Cisco software and virtualized on-demand services. Network services are becoming virtualized and software based. Services such as SD-WAN, routing, security, firewalls, third party apps, etc. can be deployed on-demand in mere minutes, not weeks or months.
- Orchestration and automated services provisioning with Cisco vManage provides quick and easy provisioning of virtualized services to branches.



Where can I find more information on the Cisco SD-WAN Cloud OnRamp for CoLocation solution?

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For more info see: www.cisco.com/go/sd-wan.