



Oracle SD-WAN Orchestration Cloud Service



Cloud hosted, multitenant WAN traffic management

July 16th, 2020 | Version 1.03
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OVERVIEW

As businesses migrate applications, data, and services to the cloud, the expectation is the tools used to support the IT infrastructure also to be delivered in the cloud. Cloud computing has many benefits including lowering OPEX, universal access, and ease of operations. The Oracle SD-WAN Orchestration Cloud Service delivers a cloud-based platform to perform the life-cycle management and monitoring of an Oracle SD-WAN deployment. It mitigates customer pains by delivering a centralized, easy and fast to deploy suite of provisioning and monitoring SD-WAN tools that are running in the industry-leading Oracle Cloud Infrastructure (OCI).

Oracle SD-WAN Orchestration Cloud is a multitenant, secure OCI SaaS application that manages devices that run the Oracle SD-WAN Edge software. As a SaaS solution, once access to Oracle SD-WAN Orchestration Cloud is granted, a customer can then leverage the service to centrally provision and monitor their SD-WAN devices regardless of where the devices and administrators are physically deployed.

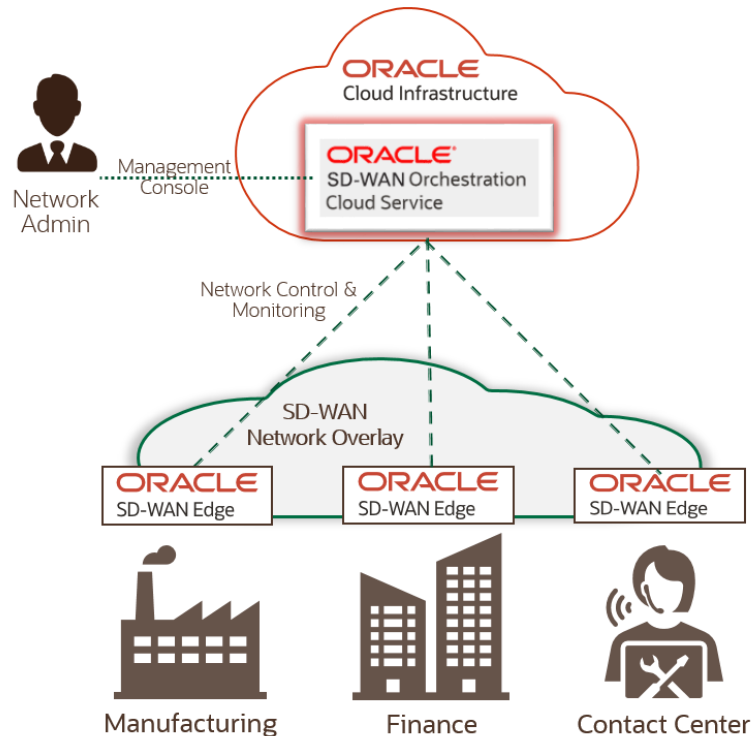


Image #1. Oracle SD-WAN Orchestration Cloud Service Architectural Overview

KEY FEATURES

Life-cycle management

Oracle SD-WAN Orchestration Cloud is a feature rich orchestration tool that allows users to:

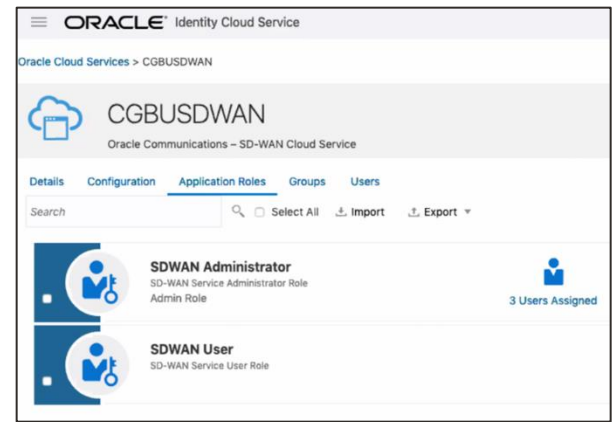
- access a centralized Oracle SD-WAN Orchestration Cloud service from any location
- initialize the SD-WAN configuration
- perform ongoing WAN administration
- define and enforce consistent application policies
- configure and enforce security and firewall requirements
- perform optional on-prem SD-WAN Edge software upgrades

For visibility and monitoring, SD-WAN status is displayed on Oracle SD-WAN Orchestration Cloud management console (see image #1) to determine the health of the SD-WAN as well as troubleshoot any network issues.

Security

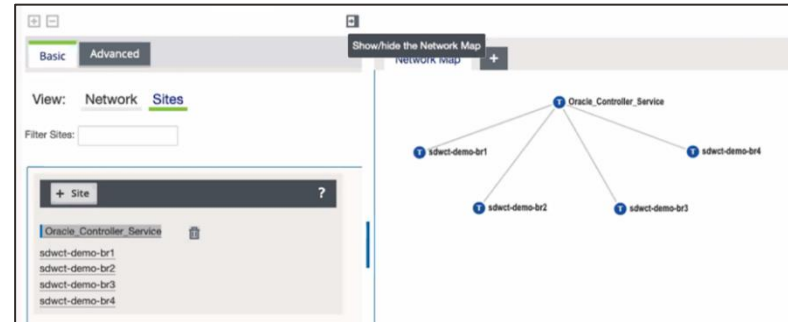
Oracle SD-WAN Orchestration Cloud provides a secure, administrative access to the orchestration services with role-based control. Oracle SD-WAN Orchestration Cloud utilizes OCI Identity Cloud Services to deliver all the core identity and access management capabilities to a multi-tenant cloud platform, which enables organizations to have granular control of who can access a specific Oracle SD-WAN Orchestration Cloud instance and what they can view and modify.

As a SaaS application, Oracle SD-WAN Orchestration Cloud administrators can securely access the service from any location that has Internet access, which allows for a high degree of flexibility when it comes to scaling support for the SD-WAN environment. Also, managed service providers can benefit from this capability by allowing certain client individuals from multiple companies to have access to their Oracle SD-WAN Orchestration Cloud instance.



Zero Touch Provisioning (ZTP)

ZTP facilitates the rapid deployment of new Oracle Edge locations by allowing administrators to automatically download the configuration to a new factory-shipped appliance with minimal effort. This capability reduced the time and onsite technical skills required to bring a site into the SD-WAN. The key requirement for this service to function is the new device must have access to the internet once it is initially started.



Multitenancy

This service uses the cloud-native operating model and can support unlimited clients by deploying multiple instances of the network control node service on a shared cluster. This allows for a provider to easily and cost-effectively deploy a managed instance per customer.

Multi-cloud Onramp

As organizations incorporate cloud and SaaS services from leading vendors, such as Oracle and Microsoft, the Oracle SD-WAN Orchestration Cloud can easily manage the SD-WAN Edge devices essential to deliver failsafe access to these cloud-based resources. Oracle SD-WAN Orchestration Cloud integrates these cloud-deployed Edge devices into the corporate SD-WAN, which allows a common set of policies to support how traffic is handled when going to the cloud.

ADMINISTRATIVE OPTIONS

The Oracle SD-WAN Orchestration Cloud is a flexible solution that can support a variety of administrative deployment models that focus on implementations that are exclusively enterprise, exclusively partner-managed or a hybrid that includes a co-managed (enterprise plus partner) option. In each of these scenarios, the common tasks of designing, implement, operating, and supporting an SD-WAN are distributed between the various organizations that may be involved in SD-WAN administration. An important point to note is that Oracle is responsible for hosting the Oracle SD-WAN Orchestration Cloud service and ensuring it is available for clients to configure.

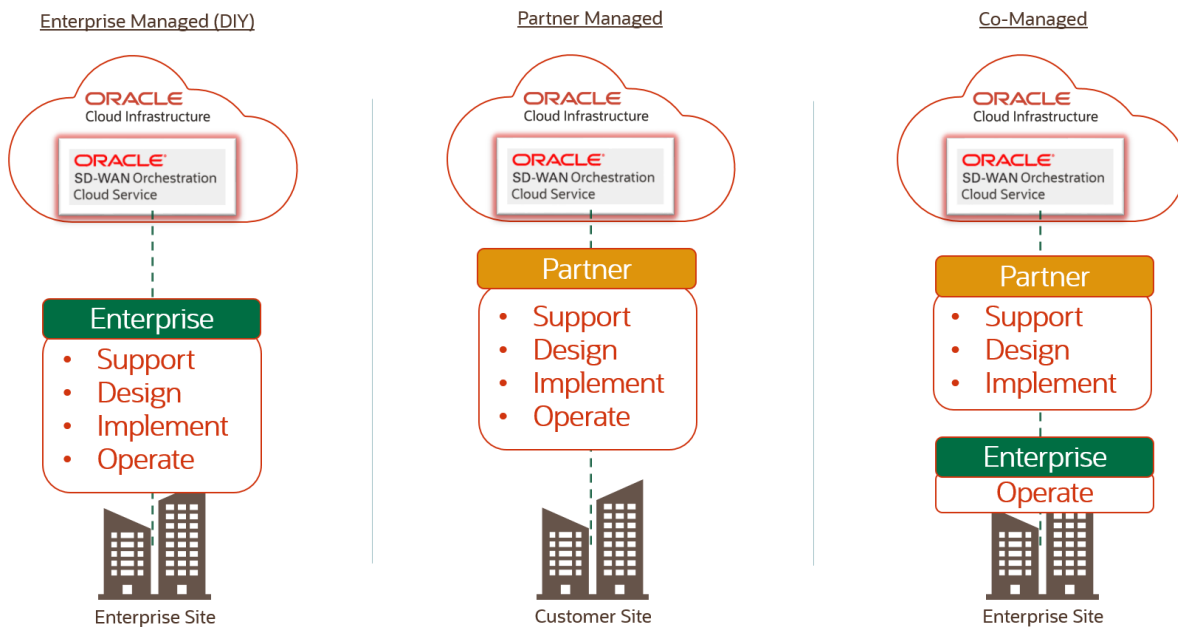


Image #2. Oracle SD-WAN Orchestration Cloud deployment Models

BENEFITS

Reduced Costs

The Oracle SD-WAN Orchestration Cloud can reduce cost from a variety of areas including:

- Faster time to deploy services and SD-WAN devices accelerates the ability to realize the ROI of a customer's SD-WAN investment.
- By eliminating the upfront need for the deployment of a costly on-premises hardware-based controller device, clients can save on CAPEX.

Multi-tenant Administration

With scaling to support a large number of customers, Oracle SD-WAN Orchestration Cloud is able to meet the requirements of Managed Service Providers or large enterprises that desire multiple SD-WAN implementations with the following capabilities:

- Isolated tenant specific configuration and policies
- Centralized visibility and management statistics of each tenants SD-WAN
- Zero Touch Provisioning to support the rapid deployment of unlimited locations across multiple tenants

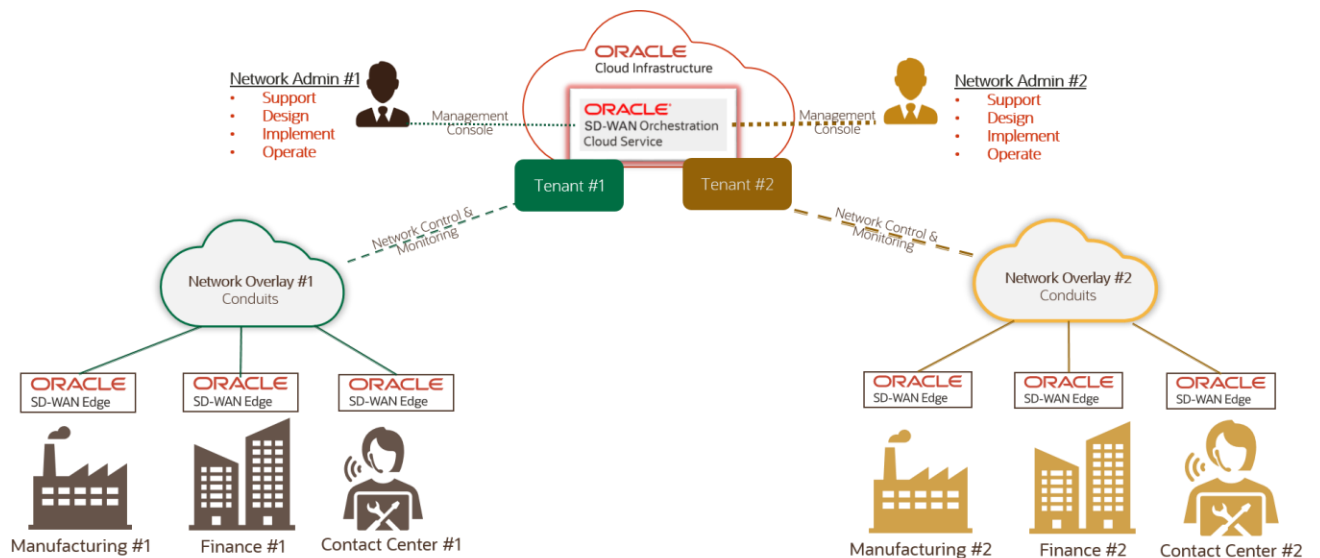


Image #3. Oracle SD-WAN Orchestration Cloud Multitenant Models

Simplified and Accelerated Management

By offering life-cycle management and monitoring of an Oracle SD-WAN deployment, Oracle SD-WAN Orchestration Cloud mitigates customer pains by delivering a centralized, easy and fast to deploy suite of provisioning and monitoring SD-WAN tools that are running in industry leading Oracle Cloud Infrastructure. Also, incorporating zero touch provisioning makes new site deployment dramatically reduces support and resources, reducing OPEX.

PRE-REQUISITES AND LICENSING

While Oracle SD-WAN Orchestration Cloud manages devices that run the Oracle SD-WAN Edge software, Oracle SD-WAN Orchestration Cloud is licensed separately from the Oracle SD-WAN Edge software. To deploy a complete Oracle SD-WAN solution including Oracle SD-WAN Orchestration Cloud, new customers will have to

1. Acquire a license for Oracle SD-WAN Orchestration Cloud
2. Acquire a license for Oracle SD-WAN Edge software
3. License or acquire the appropriate platform, either a physical, virtual, or cloud appliances compatible with the SD-WAN Edge software.

Existing SD-WAN customers can leverage their Oracle SD-WAN Edge licenses and will only need to deprecate the use of the on-premises controller when licensing Oracle SD-WAN Orchestration Cloud.

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