Release Notes for Cisco DNA Center on ESXi, Release 2.3.7.0 and 2.3.7.3

First Published: 2023-08-21

Last Modified: 2023-11-30

Release Notes for Cisco DNA Center on ESXi, Release 2.3.7.0 and 2.3.7.3

Cisco DNA Center on ESXi is a new form factor that supports Cisco DNA Center in a virtual environment. The virtual form factor helps customers rapidly deploy and operate Cisco DNA Center. For customers who are running Cisco Prime Infrastructure on a virtual machine (VM), Cisco DNA Center on ESXi provides a migration path to take advantage of Cisco DNA Center features.

Note Cisco DNA Center on ESXi is available in a phased rollout. Until the software becomes generally available, contact your Cisco sales representative to request this release. Upon completion of the phased rollout, Cisco DNA Center on ESXi will be made generally available to all customers.

This document describes the features, limitations, and bugs for Cisco DNA Center on ESXi, Release 2.3.7.0 and 2.3.7.3.

For links to all of the guides in this release, see Related Documentation, on page 8.

Change History

The following table lists changes to this document since its initial release.

Table 1: Document Change History

Date	Change	Location
2023-11-30	United States' Federal Information Processing Standard (FIPS) support added.	New and Changed Features in Cisco DNA Center 2.3.7.3 on ESXi , on page 3
2023-11-30	The following changes were made: • Removed VMWare 8.x from the VA requirements as only VMWare 7.x has been tested. • Removed information about concurrent sessions from the VM requirements as this is scale information, not requirements.	VA Requirements, on page 4
2023-11-17	Cisco DNA Center on ESXi, Release 2.3.7.3.	—

Date	Change	Location
2023-08-21	Initial release.	—

Overview

Cisco DNA Center offers centralized, intuitive management that makes it fast and easy to design, provision, and apply policies across your network environment. The Cisco DNA Center user interface provides end-to-end network visibility and uses network insights to optimize network performance and deliver the best user and application experience.

Cisco DNA Center on ESXi offers the same centralized and intuitive management as the Cisco DNA Center platform. The main difference is that Cisco DNA Center on ESXi delivers this functionality in a virtual appliance (VA) form-factor.

Package Versions in Cisco DNA Center on ESXi, Release 2.3.7.0 and 2.3.7.3

Package Name	Release 2.3.7.3	Release 2.3.7.0
Release Build Version		
Release Version	2.3.7.3.75176	2.3.7.0.75530
System Updates		
System	2.3.125	2.3.119
System Commons	2.713.65350	2.710.65515
Package Updates		
Access Control Application	2.713.65350	2.710.65515
AI Endpoint Analytics	1.11.524	1.11.214
AI Network Analytics	3.1.23	3.1.20
Application Hosting	2.3.123072406	2.3.123062006
Application Visibility and Policy	2.713.1175027	2.710.117277
Assurance	2.370.1152	2.370.270
Automation - Intelligent Capture	2.713.65350	2.710.65515
Cisco DNA Center Global Search	6.3.8	6.3.7
Cisco DNA Center Platform	6.3.118	6.3.91
Cisco DNA Center UI	3.1.28	3.1.8
Cisco Identity Services Engine Bridge	2.713.90102	2.710.80885

Package Name	Release 2.3.7.3	Release 2.3.7.0
Cloud Connectivity	6.1.43	6.1.40
Cloud Connectivity - Contextual Content	6.2.12	6.2.11
Cloud Connectivity - Digestor	6.2.8	6.2.2
Core Platform	0.5.186	0.5.162
DxHub Cloud Connectivity	6.3.11	6.3.6
Identity and Access Management	4.0.32	4.0.30
Identity and Access Management - UI	3.1.11	3.1.9
Multiple Cisco DNA Center	2.713.65350	2.710.65515
Network Controller Platform	2.713.65350	2.710.65515
Network Data Platform - Base Analytic	2.370.10091	2.370.312
Network Data Platform - Caching Infra	6.2.7	6.2.7
Network Data Platform - Core	6.2.33	6.2.27
Network Data Platform - Ingestion Infra	6.2.16	6.2.16
Network Data Platform - Manager	6.2.13	6.2.13
Network Data Platform - Pipeline Infra	6.2.24	6.2.24
Network Data Platform - Storage Management	6.2.53	6.2.47
RCA-Scripts Package	0.1.11	0.1.11
Rogue and aWIPS	2.9.39	2.9.29
SD Access	2.713.65350	2.710.65515
System Management Operations	1.1.1101	1.1.1090
Telemetry	3.2.14	3.2.11

Features

New and Changed Features in Cisco DNA Center 2.3.7.3 on ESXi

Table 2: New and Changed Features for Cisco DNA Center 2.3.7.3 on ESXi

Feature	Description
IPv6	IPv6 is now supported.

Feature	Description
IP ACL	IP ACL is now supported.
Backup and Restore	You can use the backup and restore functions to create the backup files and to restore to the same or different virtual appliance. For information, see the Cisco DNA Center 2.3.7.3 on ESXi Administrator Guide.
Custom Role-Based Access Control (RBAC)	You can create custom roles that permit or restrict user access to certain Cisco DNA Center functions.
Prime Data Migration Tool (PDMT)	You can use this tool to migrate Cisco Prime Infrastructure Data to Cisco DNA Center.
United States' Federal Information Processing Standard (FIPS)	Added support for FIPS, which is an optional mode that can be enabled when installing the Cisco DNA Center image. By default, FIPS mode is disabled.

Unsupported Features

Cisco DNA Center on ESXi supports all of the features that the Cisco DNA Center supports, except for the following features:

Unsupported Features

- **Automation**: Cisco Wide Area Bonjour application, Cisco vManage for SD-WAN, Cisco DNA Traffic Telemetry Appliance, Cisco Secure Network Analytics.

- **Wireless**: Cisco User Defined Network (UDN), Cisco Umbrella.

- **Assurance**: Sensor.

- **System Workflows**: Backup and Restore using VMware vSphere Client snapshot function, Backup and Restore from Cisco DNA Center hardware appliance to Cisco DNA Center on ESXi virtual appliance.

- **Diagnostics Center**: Validation Tool under **System** > **System Health** > **Tools**.

- **Setting Page**: Authentication API Encryption.

- **Security Policy Access (SPA)**: Security Sensor in Endpoint Analytics and Group Based Policy Analytics (GBPA).

- **Telemetry**: VM- and host-level telemetry.

VA Requirements

The Cisco DNA Center on ESXi is intended for enterprise environments, such as manufacturing or education, where a large-scale requirement is present within a single physical environment.

See the following tables for the minimum Cisco DNA Center on ESXi virtual machine requirements. For performance tips that cover the most performance-critical areas of VMware vSphere Client 7.0, see *Performance Best Practices for VMware vSphere 7.0* (PDF).

Table 3: Virtual Machine Minimum Requirements

Feature	Description
Virtualization platform and hypervisor	VMware vSphere (which includes ESXi and vCenter Server) 7.0.x, including all patches
Processors	Intel 2.1-GHz and above CPU 32 vCPUs with 64-GHz reservation must be dedicated to the VM
Memory	256-GB DRAM with 256-GB reservation must be dedicated to the VM
Storage	3-TB solid-state drive (SSD) If you plan to create backups of your virtual appliance, also reserve additional datastore space. For information, see "Backup Server Requirements" in the *Cisco DNA Center on ESXi Administrator Guide*.
IO Bandwidth	180 MB/sec
IOPS	2000-2500
Latency	Cisco DNA Center on ESXi to network device connectivity: 200 ms

Limitations and Restrictions

Cisco DNA Center on ESXi has the following limitations and restrictions:

- Unlike the Cisco DNA Center platform, you cannot connect VMs to create three-node clusters. To achieve high availability, you need to use VMware vSphere. For more information, see the "High Availability" section in the *Cisco DNA Center on ESXi Administrator Guide*, "Configure System Settings" chapter.

- Cisco DNA Center on ESXi does not support the following VMware vSphere features:

  - Fault tolerance

  - Suspending and resuming VMs

  - Cloning VMs

  - Snapshot (as backup)

- With Cisco DNA Center on ESXi, application telemetry is not supported for Cisco Catalyst 9500 Series Switches.

- To configure the Management interface and the Enterprise interface, manually create a virtual machine using the VMware vSphere UI and then configure both interfaces using either the Maglev Configuration wizard or the Install Configuration wizard. For more information, see the "Deploy a Virtual Appliance" section in the *Cisco DNA Center on ESXi Deployment Guide*.

Multiple Cisco DNA Center—Limited Availability

Multiple Cisco DNA Center allows you to define a single global set of virtual networks for software-defined access across multiple Cisco DNA Center clusters integrated with a single Cisco ISE system. This Multiple Cisco DNA Center functionality is a Limited Availability offering in Cisco DNA Center on ESXi.

To facilitate global administration of Cisco SD-Access across multiple Cisco DNA Center clusters with a consistent set of virtual networks, the Multiple Cisco DNA Center feature leverages the existing secure connection with Cisco ISE to propagate virtual networks, Security Group Tags (SGTs), access contracts, and Group-Based Access Control (GBAC) Policy from one cluster to another cluster, all integrated with the same Cisco ISE deployment. Cisco ISE takes the information learned from one cluster (the Author node) and propagates it to the other clusters (Reader nodes).

Because there are significant caveats for the Multiple Cisco DNA Center functionality, the Cisco SD-Access Design Council reviews the requests and provides guidance for use of the Multiple Cisco DNA Center to participants in the Limited Availability program.

Contact your account team to submit a request to the Cisco SD-Access Design Council to participate in the Limited Availability program.

Customers who are using Cisco ISE Version 3.1 or earlier must request and install the Limited Availability package before enabling Multiple Cisco DNA Center.

Note After this functionality is enabled, it can be disabled only by deleting Cisco ISE. In addition, if this functionality is enabled, because pxGrid is a required component of the solution, pxGrid cannot be disabled subsequently.

Deployment Overview

For information about how to deploy Cisco DNA Center Virtual Appliance in a VMware vSphere environment, see the *Cisco DNA Center on ESXi Deployment Guide*. The guide also covers configurations we recommend you make before you use the product.

Bugs

Open Bugs

The following table lists the open bugs in Cisco DNA Center on ESXi, Release 2.3.7.0 and 2.3.7.3.

Bug Identifier	Headline
CSCwf30781	No client data and AP health displayed in the Assurance Custom Dashboard Library.
CSCwh20543	Under scale conditions, the Cisco DNA Center on ESXi UI is not accessible for several hours while restoring data.
CSCwh29540	When we restore managed service, restore mongo db in the end.
CSCwh30610	An RBAC issue occurs when the promotion or demotion of local user roles is not enforced.
CSCwi02622	During ova installation, Cisco DNA Center on ESXi reports, "A required disk image is missing."

Resolved Bugs

The following table lists the resolved bugs in Cisco DNA Center on ESXi, Release 2.3.7.3.

Table 4: Resolved Bugs in Release 2.3.7.3

Bug Identifier	Headline
CSCwd95767	UI displays an error while fetching policies under Group Based Access Control.
CSCwf24930	Unable to discover or provision devices after enabling IP ACL.
CSCwf54789	Cisco DNA Center doesn't display a child mesh AP (in Root role) that is associated to its RAP in the topology diagram on the 360 page.
CSCwf57536	Need to save the mongo data into a temporary database before back up. Otherwise, you cannot log in to the UI if the restore fails.
CSCwf88543	Client location drop-down list on the Intelligent Capture window is not showing Packet rate as an option.
CSCwf94473	Upcoming links in the Access Control Application (ACA) window do not redirect to upcoming Group Based Policy tasks.
CSCwf89999	L3 VN creation failure (Error NCSP11000) due to missing ACA package installation.
CSCwh03364	Diff counts are mismatched, and ignored CLI doesn't contain the pattern.
CSCwh05919	Telemetry connections are down on Polaris switches and wireless controllers after performing a backup and restore on Cisco DNA Center on ESXi.
CSCwh11989	Network device interface detail information window hangs while loading and doesn't show any data.
CSCwh13369	The heatmap on the Client iCAP 360 window isn't displayed. However, it displays correctly on the Map Design window.
CSCwh20543	Under scale conditions, the Cisco DNA Center on ESXi UI is not accessible for several hours while restoring data.
CSCwh28304	Adding a new port assignment to a switch removes the existing port assignments from the switch.

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.

- To get the business impact you're looking for with the technologies that matter, visit Cisco Services.

- To submit a service request, visit Cisco Support.

- To discover and browse secure, validated enterprise-class apps, products, solutions, and services, visit Cisco DevNet.

- To obtain general networking, training, and certification titles, visit Cisco Press.

- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a gateway to the Cisco bug-tracking system, which maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. The BST provides you with detailed defect information about your products and software.

Documentation Feedback

To provide feedback about Cisco technical documentation, use the feedback form available in the right pane of every online document.

Related Documentation

We recommend that you read the following documents relating to Cisco DNA Center on ESXi.

For This Type of Information...	See This Document...
Cisco DNA Center on ESXi release information, including new features, limitations, and open and resolved bugs.	*Release Notes for Cisco DNA Center on ESXi, Release 2.3.7.0 and 2.3.7.3*
Installation and configuration of Cisco DNA Center on ESXi, including postinstallation tasks.	*Cisco DNA Center 2.3.7.0 Deployment Guide*
	Cisco DNA Center 2.3.7.3 on ESXi Deployment Guide
Configuration of system settings, user accounts, licensing and high availability. Procedures for configuring and performing backup and restore.	*Cisco DNA Center 2.3.7.0 on ESXi Administrator Guide*
	Cisco DNA Center 2.3.7.3 on ESXi Administrator Guide
Use of the Cisco DNA Center GUI and its applications.	*Cisco DNA Center User Guide*
Security features, hardening, and best practices to ensure a secure deployment.	*Cisco DNA Center Security Best Practices Guide*
Supported devices, such as routers, switches, wireless access points, NFVIS platforms, and software releases.	*Cisco DNA Center Compatibility Matrix*
Hardware and software support for Cisco SD-Access.	*Cisco SD-Access Compatibility Matrix*
Use of the Cisco DNA Assurance GUI.	*Cisco DNA Assurance User Guide*
Use of the Cisco DNA Center platform GUI and its applications.	*Cisco DNA Center Platform User Guide*
Use of Rogue Management functionality as a dashboard within Cisco DNA Assurance in the Cisco DNA Center GUI.	*Cisco DNA Center Rogue Management Application Quick Start Guide*