



# Cisco UCS Director Release Notes, Release 5.5

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## Cisco UCS Director

Cisco UCS Director delivers unified, highly secure management for supported compute, network, storage, and virtualization platforms and for the industry's leading converged infrastructure solutions, which are based on the Cisco Unified Computing System (Cisco UCS) and Cisco Nexus platforms. Cisco UCS Director extends the unification of computing and network layers through Cisco UCS to provide data center administrators with comprehensive visibility and management capabilities for compute, network, storage, and virtualization. For more information, see [Cisco UCS Director on Cisco.com](#).

## Revision History

Release	Date	Description
5.5	June 14, 2016	Published release notes for Cisco UCS Director, Release 5.5
5.5	June 17, 2016	Added information about CSCva11002. Added information about the compression of the OVF and VHD zip files and recommendation for uncompressing them.
5.5(0.1)	August 30, 2016	Updated for Cisco UCS Director, patch release 5.5(0.1).
5.5(0.2)	August 21, 2017	Updated the following for Cisco UCS Director, patch release 5.5(0.2): <ul style="list-style-type: none"><li>• Supported upgrade paths</li><li>• Open and resolved bugs in this release</li></ul>

## System Requirements

The system requirements for this release are available in the [Cisco UCS Director installation and upgrade guides](#) for the following:

- VMware vSphere
- Microsoft Hyper-V

### Supported Browser Versions

Cisco UCS Director supports the following browsers:

For HTML-5

- Internet Explorer 8 or higher
- Firefox 12 or higher (PC and Apple MAC)
- Safari 6 or higher
- Google Chrome 18 or higher
- Opera 12 or higher (PC and Apple MAC)

For Classic View - all browsers must have Adobe Flash Player 11 plug-in or higher

- Internet Explorer 8 or higher
- Google Chrome 4.1 or higher
- Firefox 3.5 or higher
- Safari 4.0 or higher (for Apple Mac)

## Installation and Upgrade Notes

Cisco UCS Director uses a standard virtual machine that is delivered in OVF format for VMware, and in VHD format for Microsoft Hyper-V. It can be hosted on VMware vSphere or vCenter, or on Microsoft Hyper-V Manager. For installation instructions, see the appropriate [Cisco UCS Director installation guide](#).

Cisco UCS Director, Release 6.5 is installed on two disks in the virtual machine (VM). The primary disk (Hard Disk 1) hosts the operating system and the Cisco UCS Director application. The secondary disk (Hard Disk 2) hosts the Cisco UCS Director database. For information on the system requirements for both these disks, see the [Cisco UCS Director installation guide](#) or the *Cisco UCS Director Upgrade Guide*.



### Note

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Cisco UCS Director OVF and VHD zip files are created using zip 3.x in CentOS 6.x. For Linux systems, you can extract the zip files with unzip 6.x or higher or with the latest version of the 7-Zip archiving tool. For Windows systems, you can extract the zip files with the native Extract All in Windows Explorer for Windows 10 and Windows Server 2012 or with the latest versions of archiving tools such as 7-Zip or WinRAR.

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**Note**

After you apply the upgrade patch and complete that installation, choose the Start Services option of ShellAdmin to start/restart the Cisco UCS Director services and complete the patch process. The patch process is not complete or successful until the services have started, Cisco UCS Director is available, the login screen is displayed, and the admin user can log in.

All Cisco UCS Director services must be stopped before you perform other ShellAdmin procedures, such as apply additional patches, take a database backup, or restore a database from a backup.

## Supported Upgrade Paths to Cisco UCS Director, Release 5.5

The following are the supported upgrade paths for Cisco UCS Director, Release 5.5:

### Upgrade Paths from Release 5.4(x.x) Platform

- From Release 5.4 to Release 5.5
- From Release 5.4(0.1) to Release 5.5
- From Release 5.4(0.2) to Release 5.5
- From Release 5.4(0.3) to Release 5.5
- From Release 5.4(0.4) to Release 5.5

**Important**

Upgrading Cisco UCS Director to release 5.5 from versions prior to release 5.4 is not supported.

## Supported Upgrade Paths to Cisco UCS Director, Release 5.5 (0.1)

The following are the supported upgrade paths for Cisco UCS Director, Release 5.5 (0.1):

**Important**

Upgrading Cisco UCS Director to release 5.5(x.x) from versions prior to Release 5.4 is not supported.

### Upgrade Paths from Release 5.5(x.x) Platform

From Release 5.5 to Release 5.5(0.1)

### Upgrade Paths from Release 5.4(x.x) Platform

- From Release 5.4 to Release 5.5(0.1)
- From Release 5.4(0.1) to Release 5.5(0.1)
- From Release 5.4(0.2) to Release 5.5(0.1)
- From Release 5.4(0.3) to Release 5.5(0.1)
- From Release 5.4(0.4) to Release 5.5(0.1)

## Supported Upgrade Paths to Cisco UCS Director, Release 5.5 (0.2)

The following are the supported upgrade paths for Cisco UCS Director, Release 5.5 (0.2):

**Important**

Upgrading Cisco UCS Director to release 5.5(x.x) from versions prior to Release 5.4 is not supported. You must first upgrade to the most recent Release 5.4 patch.

### Upgrade Paths from Release 5.5(x.x) Platform

- From Release 5.5 to Release 5.5(0.2)
- From Release 5.5(0.1) to Release 5.5(0.2)

### Upgrade Paths from Release 5.4(x.x) Platform

- From Release 5.4 to Release 5.5(0.2)
- From Release 5.4(0.1) to Release 5.5(0.2)
- From Release 5.4(0.2) to Release 5.5(0.2)
- From Release 5.4(0.3) to Release 5.5(0.2)
- From Release 5.4(0.4) to Release 5.5(0.2)

**Important**

When you upgrade from Cisco UCS Director version 5.3 or a prior version to version 5.5 or later, all tasks that previously took input from the **VMware Provision Inputs** task will fail. The failure occurs because the **VMware Provision Inputs** task has been deprecated and replaced by the **VMware VM Provision Inputs** task. This change also affects the **VMware VM Provision** task, which previously worked in conjunction with the **VMware Provision Inputs** task. To avoid this failure, you must use the **VMware VM Provision Inputs** tasks as input after the upgrade.

Although the **VMware Provision Inputs** task is deprecated, it is available in the `Obsolete Tasks` folder in the user interface.

## New and Changed Features

This section provides an overview of the significant new and changed features in this release. This section does not provide an exhaustive list of all enhancements included in this release.

**Note**

For information about the physical and virtual devices and software supported by Cisco UCS Director in this release, see the [Compatibility Matrix for this release](#).

## New and Changed Features in Release 5.5

### Enhancements to Cisco UCS Manager Support

The following changes were added to Cisco UCS Manager support in this release:

- New tasks included in this release:
  - Add vNIC Template
  - Delete vNIC Template
- Support for up to 10 vNICs and 10 vHBAs for Create UCS Service Profile, Create UCS Service Profile from Template and Select UCS Service Profile task outputs.

Documented in the *Cisco UCS Director Management Guide for Cisco UCS Manager, Release 5.5*.

### Enhancements to Cisco UCS Central Support

The following changes were added to Cisco UCS Central support in this release:

- New tasks included in this release:
  - Add VLAN to Global Service profile
  - Delete VLAN from Global Service profile
  - Add vHBA to Global Service profile
  - Delete vHBA from Global Service profile
  - Modify VLAN Org permissions
  - Delete VLAN from Global vNIC Template
  - Add vNIC to Global Service Profile
  - Bind Global Service Profile vNIC to Template
  - UnBind Global Service Profile vNIC from Template
- Support for up to 10 vNICs and 10 vHBAs for global service profile.

Documented in the *Cisco UCS Director Management Guide for Cisco UCS Central Release 5.5*.

### Enhancements to VMAX Management

The enhancements to VMAX management include support for the following:

- Support for Striped Meta Expansion

### Support for EMC XtremIO Connector

The XtremIO connector allows you to monitor and manage the XtremIO volumes, initiator groups, LUN mappings, snapshots, and basic network configurations. It connects through the HTTPS protocol. In order to manage XtremIO in Cisco UCS Director, the XMS Host IP is used when adding a physical account.

Documented in the *Cisco UCS Director EMC XtremIO Management Guide, Release 5.5*.

### Enhancements to NetApp Management

The enhancements to managing NetApp accounts in Cisco UCS Director include support for the following:

- Managing SnapVault Relationships

SnapVault is a backup solution that is exclusively used to archive data. Cisco UCS Director allows you to manage the SnapVault relationships for both cluster-mode and ONTAP accounts.

Documented in the *Cisco UCS Director NetApp Management Guide, Release 5.5*.

### Enhancements to VMware Management

The enhancements to VMware management in Cisco UCS Director include support for the following:

- Support for multiple datacenter and clusters when adding a VMware vCenter—You can discover and add multiple VMware vCenter datacenter and associated clusters when adding a VMware vCenter account. Cisco UCS Director does not support the creation of clouds that use the same vCenter account. If there are duplicate accounts, you cannot create a VMware Cloud. In addition, if there are duplicate accounts, VM provisioning fails and an error appears in the status for the virtual account. The Test Connectivity function also fails with the error message. This error also occurs if the same server with the same combination of clusters is used in different clouds.
- ISO Image Inventory Report—Cisco UCS Director provides the ability to view collective information about ISO image inventory through the ISO image inventory report.
- USB device support through VMRC console—Cisco UCS Director provides the ability to connect and disconnect a USB device through the VMRC console.
- Support for standalone VMRC plug-in—System administrators can launch a VMRC enabled web browser from a standalone VMRC plug-in.
- Ability to unconfigure the VNC console—Cisco UCS Director provides the ability to unconfigure the VNC console on a VM. This action disables VNC on the selected VM and releases the assigned port.
- Ability to enable DRS and HA on a Virtual SAN Cluster—Cisco UCS Director provides the ability to enable HA and VMware Distributed Resource Scheduler on a new or existing Virtual SAN Cluster
- Support for expanding Virtual SAN Clusters from Baremetal inherits RAID Mode and MTU size from the initial cluster configuration—By default, the RAID mode and MTU size values are automatically populated from the values selected during the initial cluster configuration.
- Virtual SAN VDC creation wizard supports selection of existing or creation of new policies —In the Virtual SAN VDC creation wizard, you can now select an existing or create a new system, computing, and networking policy for the Virtual SAN cluster.
- Changes to the UCS Service Profile Template Compliance Report—The Create Virtual SAN Cluster dialog provides a compliance report in the summary to verify if all UCS service profile template pre-requisites are configured properly.
- Support for Virtual SAN UCS Service Profile Template Reports—Cisco UCS Director provides the ability to view Virtual SAN UCS Service Profile Template information, as well as local disk configuration policy, boot policy, vNIC, scrub policy and BIOS policy details.

Documented in the *Cisco UCS Director Administration Guide, Release 5.5* and the *Cisco UCS Director VMware vSphere Management Guide, Release 5.5*

### Enhancements to Microsoft Virtualization Support

The enhancements to Microsoft virtualization support in Cisco UCS Director include support for the following:

- Application Profile and Application Container Support for Hyper-V—You can provision an application container in an Hyper-V or ACI environment.
- Resource group support for Hyper-V account—Choose a Hyper-V account and set the environment variable, capabilities, and capacities according to the chosen Hyper-V account.
- Clone VM action—You can use the Cisco UCS Director application to clone a VM to make a new VM with similar qualities.
- Addition of the HyperV Basic VM Provision task—You can use this task to provision a VM in a container environment.
- Adding and Editing a vNIC for a Hyper-V VM—You can add or edit a vNIC for a VM.
- Hyper-V deployment policy provides the option to use previously provisioned VM names and host names—When adding a Hyper-V deployment policy, you can choose to recycle VM names and host names. By default the check boxes are selected and Cisco UCS Director reuses previously used VN names and host names if the VM has been decommissioned.

### Enhancements to RedHat KVM Virtualization Support

The enhancements to RedHat KVM management in Cisco UCS Director include support for the following:

- KVM deployment policy reuses previously provisioned VM names—When adding a KVM deployment policy, you can choose to recycle VM names. By default the check box is selected and Cisco UCS Director reuses previously used VM names if the VM has been decommissioned

### Enhancements to F5 Load Balancer Support

The enhancements to F5 Load Balancer management in Cisco UCS Director include support for the following:

- Support for F5 BIG-IP load balancer traffic groups and enhanced device reports—Cisco UCS Director provides the ability to view F5 BIG-IP load balancer device group, device information, traffic group, virtual address, and HA group reports. You can create, modify, and delete device groups and traffic groups. You can also force a traffic group into a standby state. You can update the traffic group for an existing virtual address by selecting the traffic group, or inheriting the traffic group from the current partition or path. When creating or modifying application services, you can specify the device group and traffic group.

Documented in *Cisco UCS Director F5 Management Guide, Release 5.5*.

### Enhancements to Orchestration Capabilities

The following changes were made to the orchestration capabilities:

- Rollback can be disabled for a task in a workflow—When creating or editing a workflow, you can disable rollback of any or all tasks in the workflow.

- A cancelled service request can be resubmitted—You can now resubmit a service request that was cancelled in the same manner that you can resubmit a failed service request.
- Define default values for task user inputs— While editing or creating a workflow, when defining a user input you can supply a default value. The user chooses at runtime whether to override or accept the default.
- Delete multiple user inputs— While you are editing or cloning a workflow, more than one user input can be deleted at a time.
- You can view deleted service requests.

Documented in *Cisco UCS Director Orchestration Guide, Release 5.5*.

### **Support for Cisco UCS Director Express for Big Data in Cisco UCS Director**

The enhancements to Cisco UCS Director Express for Big Data in Cisco UCS Director include the following:

- Updated menus and options for navigation.
- Changes to configuring and deploying a Hadoop cluster deployment template.
- Support for adding a Splunk account
- Changes to configuring Cisco UCS Service Profile Templates for Big Data
- Changes to the Hadoop Cluster configuration settings

Documented in the *Cisco UCS Director Express for Big Data Management Guide, Release 2.1*.

### **Enhancements to APIC Management**

The following changes were introduced to APIC management in this release:

- Addition of the Hyper-V related object in the Tenant Resource Allocation task—helps with populating a vPOD.
- Support for generic tenant onboarding—You can create your own tenant onboarding workflow based on the topology configuration by adding the mandatory tasks - Create UCSD Tenant, Tenant Resource Allocation, and Tenant Container Association.
- Resource group support for Hyper-V account—Choose a Hyper-V account and set the environment variable, capabilities, and capacities according to the chosen Hyper-V account.
- Shared Layer 3 Outside (L3Out) support—Configure shared L3Out support. Shared L3Out can be configured with both VMware and Hyper-V generic tenants. This includes support for unique IP pools.
- Custom environment variable support—Define an environment variable that can be used in resource groups and workflows.
- Support for multiple context Cisco ASA device—Add multiple context Cisco ASA device.
- Support for choosing multiple tag values while adding datastore tags in the virtual storage service class level.
- Update private tenant—Update the vPOD information with multiple data stores and multiple data store clusters for a tenant using the Update Tenant vPOD with Existing Resources workflow.
- Overlapping IP address support—Enable the IP address overlapping for the tiers.



- Automatic data store selection in the tenant onboarding with private networks workflow—Choose data stores and data store clusters based on the generic VMware cluster.

Documented in the *Cisco UCS Director APIC Management Guide, Release 5.5*.

### Enhancements to Application Containers

The enhancements to application containers in Cisco UCS Director include support for the following:

- Support for Hyper-V—You can perform container provisioning in the Hyper-V environment.
- Loadbalancer vServer Support—The application container has the ability to view, add, or delete the load balancer L4-L7 services. The newly created VMs are added as real servers to the L4-L7 service. This support is available for VMware and Hyper-V application containers.
- Introduction of VM names—Specific naming convention is followed for VM names when an application is provisioned for a private network or when adding VMs to an APIC container.
- Support for Multi-Context Configuration—Layer 4 to Layer 7 policy accommodates multiple contexts configurations on the ASA devices.
- Support for advanced load balancer parameters—Network device system parameter policy sets the NTP and SNMP parameters that are needed to be configured on a load balancer device.
- Dynamic Subnet Size per Tier—The maximum number of VM instances per tier allows you to determine the subnet size for each tier.
- Support for Tags in Datastore—You can choose tag values for each tier. During container provisioning, resources are selected based on the tag associated with the tier.
- Shared L3Out Feature—To integrate the ACI fabric with shared external Layer 3 network. The network must be tagged and updated on Tenant vPOD in advance and the same tag must be selected for the external network in case of shared L3Out. Shared L3Out can be configured with both VMware and Hyper-V generic tenants.
- Support for viewing and adding contracts between different containers—You can view and add the contract between tiers of different containers in Cisco UCS Director. You need to drill down each contract to view all the security rules created for each application container in Cisco UCS Director.
- Adding a vNIC to a Container VM—You can add a vNIC to the container VM for private network communication between VMs belonging to same network zone.
- Container shows the Virtual Routing and Forwarding instance—Added the Virtual Routing and Forwarding (VRF) instance in the Tier summary of the Container report.

Documented in the *Cisco UCS Director Application Container Guide, Release 5.5*.

### Enhancements to Network Devices Support

The following changes were introduced to network devices management in this release:

- Support for Smart Zoning—Allows you to enable smart zoning for network devices that run Cisco NX-OS. You can tag the device type that serves as labels for smart zoning.
- Support for Device Aliases in the Add SAN zone task.
- Addition of the FCNS database into inventory report.

- New workflow tasks

Documented in the *Cisco UCS Director Network Devices Management Guide, Release 5.5*.

### Enhancements to REST APIs

The following changes were introduced to REST APIs in this release:

- Capability to download the REST API SDK bundle from Cisco UCS Director.
- Support for retrieving VDC resource limits with the addition of the userAPIGetVDCResourceLimits API.
- Support for retrieving the cost model with the addition of the userAPIGetCostModel API.
- Support for managing virtual infrastructure policy with the following APIs:
  - userAPICreateServiceContainerVirtualInfraPolicy
  - userAPIGetServiceContainerVirtualInfraPolicy
  - userAPIUpdateServiceContainerVirtualInfraPolicy
  - userAPIDeleteServiceContainerVirtualInfraPolicy
- Support for managing APIC virtual infrastructure policy with the following APIs:
  - userAPICreateServiceContainerVirtualInfraPolicy
  - userAPIGetAllServiceContainerVirtualInfraPolicies
  - userAPIGetServiceContainerVirtualInfraPolicy
  - userAPIUpdateServiceContainerVirtualInfraPolicy
  - userAPIDeleteServiceContainerVirtualInfraPolicy
- Support for adding a Virtual Network Interface Card (vNIC) to a VM with the userAPIAddVMNICs API.
- Support for managing VMware system policy with the following APIs:
  - userAPICreateVMwareSystemPolicy
  - userAPIGetVMwareSystemPolicy
  - userAPIGetVMwareSystemPolicy
  - userAPIDeleteVMwareSystemPolicy
- Support for retrieving output of a service request with the userAPIGetServiceRequestOutputDetails API.
- Support for managing service containers with the following APIs:
  - userAPIGetAllServiceContainers
  - userAPIAddTierToContainerVM
  - userAPIAddvNICToContainerVM
- Support for managing contracts with the following APIs:

- userAPICreateContract
- userAPIDeleteContract
- Support for retrieving the input and output fields of a workflow with the following APIs:
  - userAPIGetCatalogInputDefinition
  - userAPIGetCatalogOutputDefinition
  - userAPIGetWorkflowInputs
  - userAPIGetWorkflowOutputDefinition
- Support for toggling the MSP mode with the userAPIToggleMspMode API.
- Support for viewing resource usage report with the userAPIGetResourceUsageCostSummary API.
- Support for viewing tabular reports with the userAPIFilterTabularReport API.

Documented in the *Cisco UCS Director REST API Getting Started Guide, Release 5.5* and the *Cisco UCS Director REST API Cookbook, Release 5.5*.

### Enhancements to Open Automation

The following changes were introduced to Open Automation in this release:

- Support for downloading the open automation SDK bundle from Cisco UCS Director.
- Support for importing the open automation SDK bundle into Eclipse from the Git repository.

Documented in the *Cisco UCS Director Open Automation Getting Started Guide, Release 5.5*.

### Support for Cisco IMC Supervisor

For C-Series standalone servers, native support is now available for Cisco IMC Supervisor 2.0 features.

Documented in the *Cisco UCS Director Management Guide for Rack Servers, Release 5.5*.

### Changes to Bare Metal Agent Installation and Configuration

The changes to the Bare Metal Agent (BMA) installation and configuration includes the following:

- The Additional Parameters text box has now been changed to specify tabular inputs for the parameter name and its corresponding single-line value. You now have the option to add multiple parameters for a PXE task. You also have the options to edit, modify, or delete the parameters.
- The Network Configuration field has been removed from the PXE boot tasks, as the network configurations can now be added using the Additional Parameters field.

Documented in the *Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 5.5*.

### Enhancements to NetApp Support

The following change was made to NetApp support:

- You can now configure SnapVault relationships in the clustered mode and 7-mode ONTAP versions.

Documented in the *Cisco UCS Director NetApp Management Guide, Release 5.5*.

### **Changes to Multi-Node Configuration Options**

The changes to the multi-node configuration includes the following:

- The multi-node configuration shelladmin options now include the deployment type option as well. You can directly chose the deployment type: small, medium, or large. This eliminates the need for administrators to manually configure the system settings whenever small, medium, or large multi-node deployments are added.

Documented in the *Cisco UCS Director Multi-Node Installation and Configuration Guide, Release 5.5*.

### **Additional Enhancements to Cisco UCS Director**

Other enhancements to Cisco UCS Director include the following:

- Support for setting language preference for users
- Introduction of the Create Service Request option for users
- Support for viewing user role information
- Support for full-length and half-length physical servers in resource limits
- Support for multiple profiles for LDAP users
- Introduction of a tree view that depicts hierarchical structure of organizational units, groups and users.
- New navigation to access LDAP information in user interface
- Support for generating API logs
- Support for overlapping IP addresses in pool policies
- Addition of the following fields in the VM Management policy:
  - Additional grace period for deleting expired VMs
  - Action to be taken when a service request (SR) rollback task fails for VMs provisioned through Cisco UCS Director
- Changes while assigning an application category to multiple VDCs
- Support for cloning a VM from a selected image.
- Ability to control service end users from configuring lease time and VM provisioning.
- Ability to conduct an assessment before creating a service request with a standard catalog.
- Support for specifying the number of physical disks to be created during VM provisioning while creating a storage policy
- Support for unconfiguring the VNC Console on a VM. This action disables VNC on the selected VM and releases the assigned VNC port.

Documented in the *Cisco UCS Director Administration Guide, Release 5.5*.

## New and Changed Features in Release 5.5(0.1)

### Enhancements to Cisco UCS Central Support

Support for Cisco UCS Central version 1.5(1a) has been introduced in this release.

## Updated Support in Release 5.5

This section provides a summary of the updated support in Release 5.5. For more information, see the Cisco UCS Director Compatibility Matrix, Release 5.5.

### VMware Virtualization Support

The following changes were added to VMware virtualization support in this release:

- VMware vSphere Hypervisor (ESX/ESXi): 6.0, including Update 1 and Update 2
- VMware vSphere vCenter Server: 6.0, including Update 1 and Update 2

### Microsoft Virtualization Support

The following changes were added to Microsoft virtualization support in this release:

- Microsoft System Center Virtual Machine Manager (SCVMM): 2012 R2, Rollup 8
- Microsoft System Center Virtual Machine Manager (SCVMM): 2012 R2, Rollup 9

### Baremetal Operating System Support

The following changes were added to baremetal operating system support in this release:

- CentOS 7.x
- Red Hat Enterprise Linux 7.x

### Cisco Server Support

The following changes were added to Cisco server support in this release:

- Cisco UCS Manager: 2.2(7\*)
- Cisco UCS C-Series Rack Servers (Standalone through Rack accounts): Cisco IMC Supervisor, Release 2.0
- Cisco UCS E-Series Servers (Standalone through Rack accounts): Cisco IMC Supervisor, Release 2.0

### HP Server Support

The following changes were added to HP server support in this release:

- HP Servers with HP Integrated Lights-Out 2 (iLO2): iLO 2.29

### Cisco Network and Fabric Support

The following changes were added to Cisco network and fabric support in this release:

- Cisco Nexus 1000V for VMware vSphere: NX-OS, Release 5.2(1)SV3(1.6), 5.2(1)SV3(1.10), and 5.2(1)SV3(1.15)
- Cisco Nexus 3172: NX-OS, Release 7.0(3)I2(2a)
- Cisco Nexus 5648Q: NX-OS, Release 5.2(1)N1(8b), 5.2(1)N1(9), and 7.2(1)N1(1)
- Cisco Nexus C5624Q, 5672UP and 5696Q: NX-OS, Release 7.2(1)N1(1)
- Cisco Nexus 7010 and Supervisor 1: NX-OS, Release 6.2(14)
- Cisco Nexus C9516, 9396PX, and 9504: NX-OS, Release 7.0(3)I2(2a)
- Cisco Nexus 93120: NX-OS, Release 7.0(3)I2(2)
- Cisco Nexus 93128: NX-OS, Release 7.0(3)I2(1a)
- Cisco MDS 9148 and 9148S: NX-OS, Release 6.2(13a)
- Cisco MDS 9706: NX-OS, Release 6.2(9a)

### Cisco Application Centric Infrastructure Support

The following changes were added to Cisco Application Centric Infrastructure support in this release:

- Cisco Application Centric Infrastructure: Release 1.3(1\*)
- Cisco AVS: NX-OS, Releases 5.2(1)SV3(1.5), 5.2(1)SV3(1.6), 5.2(1)SV3(1.10a), and 5.2(1)SV3(1.15)
- Cisco ASAv: 9.3(2) 9.4(2), 9.5(2.200)
- Cisco NetScaler SDX: 8015

### Brocade Network and Fabric Support

The following changes were added to Brocade network and fabric support in this release:

- Brocade DCX 8510-4 Backbone: Fabric OS v7.0.2c

### F5 Network and Load Balancer Support

The following changes were added to F5 network and load balancer support in this release:

- Big-IP LTM 2200: 12.0.0 (0.0.606)
- Big-IP VPR 2200: 12.0.0 (0.0.606)

### Cisco Security and Firewall Support

The following changes were added to Cisco security and firewall support in this release:

- Cisco ASA 5555: 9.5(2)
- Cisco ASA 5585: 9.1(2), 9.4(2), and 9.5(2)
- Cisco ASA 5515 9.1(2)

- Cisco ASAv: 9.#(2), 9.4(2), and 9.5(2)

### EMC Storage Support

The following changes were added to EMC storage support in this release:

- EMC Symmetrix VMAX: Symmetrix CLI (symcli) v8.0.2.0, Linux and Windows Solution Enabler 8.0
- EMC Symmetrix VMAX3: Symmetrix CLI (symcli) v8.1.0, Linux and Windows Solutions Enabler 8.1.0
- EMC VNXe: V3.1.5.6801782
- EMC VPLEX: V5.4
- EMC XtremIO: V4.0.1

### NetApp Storage Support

The following changes were added to NetApp storage support in this release:

- NetApp FAS (Data-ONTAP 7-Mode): 8.2. Data-ONTAP 8.2.2P2
- Virtual Storage Console: version 6.0

### Hyper-Converged Storage Support

The following changes were added to Cisco VSAN Ready Node support in this release:

- VMware VSAN 5.5, with VMware vSphere 6.0
- VMware VSAN 6.0 (backward compatibility with features of VSAN 5.5) , with VMware vSphere 6.0 Update1

## Deprecation Announcement

### Deprecation Announcement for Cisco UCS Invicta

The following Cisco UCS Invicta Series Storage accounts will be deprecated in the next major release:

- Cisco UCS Invicta Appliance
- Cisco UCS Invicta Scaling System

At that point, the *Cisco UCS Director Invicta Series Management Guide* will also no longer be updated.

## Workflow-Related Changes

### Workflow Task Changes in Release 5.5

The following describes the workflow task changes in this release and the impact they may have, if any, on your existing workflows.

Workflow Task	What Has Changed	Workaround to Resolve Issue
Identify Virtual Network Resources	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field
Identify Physical Network Resources	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field
Identify Virtual Compute Resources	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field
Identify Physical Compute Resources	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field
Identify Virtual Storage Resources	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field
ResourceGroupFieldLable Constants. RG_RESOURCE_ALLOCATION_TO_TENANT	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field
Identify Physical Storage Resources	For this workflow task, the user-input identity type has been modified from <b>Generic-text-input</b> to <b>Resource Group Service Offering</b> .	Open the task and change the input field



Workflow Task	What Has Changed	Workaround to Resolve Issue
ResourceGroupFieldLabelConstants. RG_TENANT_CREATION	In release 5.4, this workflow task was named as <b>Mapping Tenant with Tenant Profile</b> . After upgrading to this release, this workflow task is no longer available. In release 5.5, this workflow task is renamed as <b>Create UCSD Tenant</b> .	No workaround
Get Free IP Subnet From Subnet Pool Policy	This task is deprecated in this release.	No workaround
VMware Provision Inputs	This task is deprecated in this release.	Use the VMware VM Provision Inputs task

## Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.



### Note

You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [register for an account](#).

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#).

## Open and Resolved Bugs in Release 5.5

### Open Bugs in Release 5.5

You can find detailed information about all open bugs in Release 5.5 through the [open bug search for Release 5.5](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose <b>Series/Model</b> and enter Cisco UCS Director 5.5.
Releases drop-down list	Choose <b>Affecting or Fixed in these Releases</b> and enter 5.5.
Filter	Choose <b>Open</b> from the Status drop-down list.

## CSCva11002 - Restriction on Success Link of a Workflow Task

CSCva11002 is an open bug in Cisco UCS Director, Release 5.5 that is caused by a new restriction in orchestration, as follows:

### New Restriction Added

In Release 5.5, a new restriction/limitation has been introduced that impacts orchestration workflows. In the Workflow Designer, you cannot map the Success link of a workflow task to Completed(Failure).

### Issues Caused by this Restriction

This restriction causes the following issues with workflows:

- After an upgrade, workflows show as invalid if they include one or more tasks with the Success link of a workflow task mapped to Completed(Failure).
- Imported workflows show as invalid if they include one or more tasks with the Success link of a workflow task mapped to Completed(Failure).
- In new workflows, you cannot map the Success link of a workflow task to Completed(Failure).

### Impact

This restriction has the following impact on workflows:

- You will see the following validation error: OnSuccess link cannot be connected to Completed (Failed)
- There is no functionality impact. Although you see this validation error, you can still execute the workflows.
- Due to this validation error, if you delete these links, you cannot restore them in Release 5.5.



#### Note

Even though you see this validation error when you open the workflow in Workflow Designer, the link from Success to Completed(Failure) still exists. Please **DO NOT** remove that link to make the workflow valid.

### Workaround

If you delete the links to fix the validation issue, you can add a custom task that will always result in a failure and place it after the task that was pointing to the Completed(Failure) and caused the validation error. You can map this custom task according to the current behavior of pointing it to Completed(Success) for the success link and Completed(Failure) for the failure link.

## Resolved Bugs in Release 5.5

You can find detailed information about all resolved bugs in Release 5.5 through the [resolved bug search for Release 5.5](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose <b>Series/Model</b> and enter Cisco UCS Director 5.5.

Field	Parameter
Releases drop-down list	Choose <b>Affecting or Fixed in these Releases</b> and enter 5.5.
Filter	Choose <b>Fixed</b> from the Status drop-down list.

## Open and Resolved Bugs in Patch Release 5.5(0.1)

### Open Bugs in Release 5.5(0.1)

You can find detailed information about all open bugs in Release 5.5(0.1) through the [open bug search for Release 5.5\(0.1\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose <b>Series/Model</b> and enter Cisco UCS Director 5.5.
Releases drop-down list	Choose <b>Affecting or Fixed in these Releases</b> and enter 5.5(0.1).
Filter	Choose <b>Open</b> from the Status drop-down list.

### Resolved Bugs in Release 5.5(0.1)

You can find detailed information about all resolved bugs in Release 5.5(0.1) through the [resolved bug search for Release 5.5\(0.1\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose <b>Series/Model</b> and enter Cisco UCS Director 5.5.
Releases drop-down list	Choose <b>Affecting or Fixed in these Releases</b> and enter 5.5(0.1).
Filter	Choose <b>Fixed</b> from the Status drop-down list.

## Open and Resolved Bugs in Patch Release 5.5(0.2)

### Open Bugs in Release 5.5(0.2)

You can find detailed information about all open bugs in Release 5.5(0.2) through the [open bug search for Release 5.5\(0.2\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose <b>Series/Model</b> and enter Cisco UCS Director 5.5.
Releases drop-down list	Choose <b>Affecting or Fixed in these Releases</b> and enter 5.5(0.2).
Filter	Choose <b>Open</b> from the Status drop-down list.

### Resolved Bugs in Release 5.5(0.2)

You can find detailed information about all resolved bugs in Release 5.5(0.2) through the [resolved bug search for Release 5.5\(0.2\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose <b>Series/Model</b> and enter Cisco UCS Director 5.5.
Releases drop-down list	Choose <b>Affecting or Fixed in these Releases</b> and enter 5.5(0.2).
Filter	Choose <b>Fixed</b> from the Status drop-down list.

## Related Documentation

In addition to these release notes, you can find documentation for Cisco UCS Director in the following locations on Cisco.com:

- [Cisco UCS Director Documentation Roadmap](#)
- [Cisco UCS Director Product Overview Pages](#)
- [Cisco UCS Director on Cisco DevNet](#)

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). RSS feeds are a free service.

