



# Cisco UCS Director Release Notes, Release 5.1

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**Last Updated: December 22, 2014**

This document describes the features and known issues for Cisco UCS Director, Release 5.1 software.

[Table 1](#) shows the online change history for this document.

**Table 1**      **Online History Change**

Release Number	Date	Description
Release 5.1	September 29, 2014	Created release notes for Release 5.1.
	October 7, 2014	Added CSCur02877 to Resolved Caveats.
Release 5.1.0.1	November 19, 2014	Updated for Patch Release 5.1.0.1
Release 5.1.0.1A	December 18, 2014	Updated for Hotfix Patch Release 5.1.0.1A
	December 22, 2014	Added CSCus13939 for Hotfix Patch Release 5.1.0.1A

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# Introduction

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 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.

## System Requirements

Information about the system requirements for Cisco UCS Director, Release 5.1 is available in the installation and upgrade guides for the following:

- VMware vSphere
- Microsoft Hyper-V

## Supported Browser Versions

Cisco UCS Director supports the following browsers:

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

Browsers require the Adobe Flash Player plug-in version 11 or higher.

## Installation Notes

Cisco UCS Director is a 64-bit appliance that 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 and Microsoft Hyper-V Manager.

For installation instructions, see the following [Cisco UCS Director installation guides](#):

- *Cisco UCS Director Installation and Upgrade on Microsoft Hyper-V Manager, Release 5.1*
- *Cisco UCS Director Installation and Upgrade on VMware vSphere, Release 5.1*

**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 Cisco UCS Director services have started, the Cisco UCS Director appliance GUI is available, the login screen is displayed, and the admin user can log in to Cisco UCS Director.

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.

# New and Changed Features

## New Features in Cisco UCS Director Release 5.1.0.1

### New REST API

REST API provides the `userAPIExecuteVIXScript` API to execute commands in a guest operating system (OS) for configuring parameters in a guest OS through script commands. The `userAPIExecuteVIXScript` API returns a service request ID (SR ID).

## Features in Cisco UCS Director Release 5.1

The following features are available in Cisco UCS Director, Release 5.1:

- [Introduction of Guided Setup Wizards, page 3](#)
- [WhipTail/Invicta Account Related Changes, page 4](#)
- [Support for Cisco Application Centric Infrastructure, page 4](#)
- [Support for Resource Groups, page 4](#)
- [Tag Library, page 4](#)
- [Support for Application Policy Infrastructure Controller \(APIC\) Application Containers, page 4](#)
- [REST API Changes, page 5](#)
- [Support for VCE Vision Intelligent Operations \(IO\), page 5](#)
- [Support for Cisco UCS Director Express for Big Data, page 6](#)

**Note**

More information about supported software versions and hardware devices is available in the [Compatibility Matrix for Cisco UCS Director, Release 5.1](#).

### Introduction of Guided Setup Wizards

Cisco UCS Director includes a set of wizards that guide you through configuring a few features. The following are the available wizards:

- **Device Discovery**—This wizard enables you to discover devices and assign them to a pod.
- **Initial System Configuration**—This wizard helps you complete initial tasks to set up Cisco UCS Director, such as uploading license, setting up SMTP, NTP and DNS servers.
- **vDC Creation**—This wizard helps you to configure the policies required to successfully provision a VM in a vCenter cloud.
- **FlexPod Configuration**—This wizard helps you set up a FlexPod account.

## WhipTail/Invicta Account Related Changes

All WhipTail accounts are now renamed to Invicta accounts. As a result, after you upgrade to Cisco UCS Director Release 5.1, you must delete all existing WhipTail accounts and add them again as new Invicta accounts. Also, you must delete all existing workflows and create new workflows for the account.

In addition, there is significant performance improvement in the time taken to retrieve inventory details and for generating reports.

## Support for Cisco Application Centric Infrastructure

Cisco Application Centric Infrastructure (ACI) allows application requirements to define the network. This architecture simplifies, optimizes, and accelerates the entire application deployment cycle. The combination of Cisco UCS Director and Cisco ACI enables automatic provisioning and delivery of application-centric infrastructure. For more information on configuring and managing ACI accounts, see the *Cisco UCS Director APIC Management Guide, Release 5.1*.

## Support for Resource Groups

A resource group is a combination of physical and virtual infrastructure resources. Resource groups enables you to get tenants onboard faster into Cisco UCS Director. As an infrastructure administrator or system administrator, you can add an infrastructure or virtual account to a resource group one at a time. Also, you can assign a pod to a resource group where all the accounts in the pod are added to the resource group.

When an account is added to a resource group, by default, the resource group announces all the capabilities and capacities for objects for that account as resource group entity capacities and capabilities. With Cisco UCS Director, you can selectively disable certain capacities or capabilities from the resource group.

A service offering is defined by the resource capability and the resource capacity that is required. You must define a service offering that defines the class of service. You can specify a service offering with multiple service classes that describe the capability of the resource requirement.

## Tag Library

Tagging enables you to assign a label to an object. As an administrator, you can decide to tag objects such as resource groups and user groups in Cisco UCS Director. You can assign tags to a category such as Compute, Storage, Network, and Virtual. You can also apply a tag to a specific type of account in the selected category.

For more information on managing tags, see the *Cisco UCS Director Administration Guide, Release 5.1*. For information on adding a tag to a resource group, see *Cisco UCS Director APIC Management Guide, Release 5.1*.

## Support for Application Policy Infrastructure Controller (APIC) Application Containers

This release introduces support for Application Policy Infrastructure Controller (APIC) application containers. The APIC is the unified point of automation, management, monitoring, and programmability for the Cisco Application Centric Infrastructure (ACI). APIC application containers let you perform the following:

- Establish networks in a VMware environment

- Provision multiple VMs from a network
- Provides a way to fence those networks in using gateways (for example, Linux, ASA or ASAv)
- Utilize a Cisco Application Policy Infrastructure Controller (APIC) - not available on Linux with ACI
- Provides the ability to provision a baremetal appliance in addition to VMs

## REST API Changes

The following changes have been made to the REST APIs in this release:

- The `UserAPIProvisionRequestWithPortGroup` API is deprecated. To provision a VM, use the `userAPIVMWareProvisionRequest` API.
- The service container APIs provide support for both fenced container and APIC container
- The `userAPICreateAPICContainer` API is introduced to create an APIC container.

REST APIs offer support for the following operations:

- Account
- Service Category
- Activity
- Tag
- Resource Group
- Application Profile
- Tenant Profile
- Tenant Onboarding

## Support for VCE Vision Intelligent Operations (IO)

With the introduction of support for VCE Vision Intelligent Operations (IO), this release of Cisco UCS Director automates release certification compliance in the Vblock converged infrastructure environment and validates the health or operating status of the Vblock pod.

The VCE Vision Intelligent Operations (IO) software suite is used for managing a Vblock pod in a converged infrastructure environment to enable and simplify Vblock operations in the following ways:

- Identifies Vblock pod locations and their components.
- Reports on the health or operating status of the Vblock pod.
- Verifies if the Vblock pod is compliant with the VCE release certification matrix.
- Acts as a mediation layer between your pod and its existing management tools by dynamically infusing intelligence into the existing Vblock management system.
- Provides a continuous, real-time perspective of your compute, network, storage, and virtualization resources as a single object to ensure that your management tools reflect the most current state of your Vblock pod.
- Gives the Vblock system information natively through VMware vCenter and vCenter Operations Manager.

For more information on this feature, see the *Cisco UCS Director Vblock Management Guide, Release 5.1*.

## Support for Cisco UCS Director Express for Big Data

Cisco UCS Director, Release 5.1 supports two personalities: Cisco UCS Director and Cisco UCS Director Express for Big Data. You choose the product that you want during installation. For more information, see the [Cisco UCS Director Installation Guides](#).

For more information about Cisco UCS Director Express for Big Data, see the [Cisco UCS Director Express for Big Data Documentation Roadmap](#).

## New and Changed Documentation

In addition to these Release Notes, the following Cisco UCS Director documentation was created for Release 5.1.



### Note

You can access all Cisco UCS Director documentation through the [Cisco UCS Director Documentation Roadmap](#).

- [Cisco UCS Director Compatibility Matrix, Release 5.1](#)
- [Cisco UCS Director Installation and Upgrade on Microsoft Hyper-V Manager, Release 5.1](#)
- [Cisco UCS Director Installation and Upgrade on VMware vSphere, Release 5.1](#)
- [Cisco UCS Director APIC Management Guide, Release 5.1](#)
- [Cisco UCS Director REST Developer Guide, Release 5.1](#)
- [Cisco UCS Director Open Automation Developer Guide, Release 5.1](#)
- [Cisco UCS Director NetApp Management Guide, Release 5.1](#)
- [Cisco UCS Director Administration Guide, Release 5.1](#)
- [Cisco UCS Director Orchestration Guide, Release 5.1](#)
- [Cisco UCS Director Application Container Guide, Release 5.1](#)
- [Cisco UCS Director Vblock Management Guide, Release 5.1](#)

## Caveats

This section includes the following topics:

- [Open Caveats in Release 5.1, page 7](#)
- [Open Caveats in Release 5.1.0.1, page 9](#)
- [Resolved Caveats in Release 5.1, page 10](#)
- [Resolved Caveats in Patch Release 5.1.0.1, page 10](#)
- [Resolved Caveats in Hotfix Patch Release 5.1.0.1A, page 11](#)



### Tip

Release note information is sometimes updated after these Release Notes are published. Use the [Cisco Bug Search Tool](#) to see the most up-to-date release note information for any caveat listed here.

## Open Caveats in Release 5.1

Table 2 lists the open issues that may impact your testing of the features and enhancements in Cisco UCS Director, Release 5.1.

**Table 2** Open Caveats in Release 5.1

Defect ID	Symptom	Workaround
CSCup77482	Issues in failover when CG contains more than one non-prod copies.	<ol style="list-style-type: none"> <li>1. Create a CG with more than one non-production copies. For example, use A-&gt;prod (Role: Active), and B and C as Copies (Role: Replica)</li> <li>2. Failover CG to B (or C)</li> <li>3. After the failover, in Cisco UCS Director, the roles are shown as A&amp;C-&gt;Replica and B-&gt;Active</li> <li>4. Now, again run the failover task and use A (currently shown as replica).</li> </ol> <p>The following error message appears: “Illegal action: Cannot perform action on production copy” and one image is shown as enabled with A.</p>
CSCuq97937	In the Invicta LUN report, it shows the deleted Datastore name. It removes the name of the deleted datastore after a couple of full inventories.	To determine the valid datastore information, login under Virtual- Storage - Datastore Capacity Report.
CSCuq03429	When you try to deploy ASAv via Fenced Container Setup-ASA gateway, the ASAv device is added to Cisco UCS Director as expected. But the inventory is not collected immediately after the device is added. It remains in the “Yet to perform Inventory” state for a long time.  Currently, the inventory is scheduled based on the system task inventory next schedule time.	Collect inventory details manually for immediate effect.
CSCuq04489	VM Clone with VSC task is failing for ONTAP Cluster Mode when Storage Efficiency option is enabled.	There is no known workaround for this issue.
CSCuq98965	In the Discovery Wizard, for an HPOA Account, the vendor is shows as “unknown” in discovered devices table.	After assigning the Account, the vendor information can be seen in Physical- Compute.
CSCuq88091	In the Discovery Wizard, the port numbers for the F5 balancer is not displayed by default.	Manually select the related protocol and port number.
CSCum87361	When the Configure trunk rollback command is run, the port retains the trunk native vlan, but the port mode is changed to Access.  For the feature configure private vlan port, when a port is configured, and a roll back is performed, the port remains in the Private vlan mode.	The native vlan and the private vlan port type can be changed by passing respective commands using the execute cli commands task.

Table 2 Open Caveats in Release 5.1

Defect ID	Symptom	Workaround
CSCuq55427	In BMA when used multiple interfaces, ks.cfg may be pointing to Management interface for notify.html by default. If the notification is not received by Cisco UCS Director, change this to point to the PXE server IP address.	Replace the following line in the ks.cfg template: <pre>wget http://\$PXE_WEBSERVER_MGMT_VLAN_IP/\$PXEID/notify.html -O /tmp/notify.html</pre> with <pre>wget http://\$PXE_WEBSERVER/\$PXEID/notify.html -O /tmp/notify.html</pre>
CSCuq99046	In the Discovery wizard, some devices such as HPOA, CIMC, ASA and Cisco UCS Manager, may require more time based on the environment and setup.	In the Discovery Wizard, change the time out value based on the environment limitations.
CSCuq99633	In the Discovery wizard, sometimes for some of the discovered devices, the checkbox (next to discovered device) shown as grayed out.	Check the checkbox to select the grayed out device to perform discovery. Doing the above step helps to discover the device which was grayed out.
CSCuq42907	Custom Approval task does not support 'cuic_multiuser_Id' mappable type. You cannot map this mappable type to User Input.	Use Task Input for executing custom approval task
CSCuq54026	After you enable Service Provider, Cisco UCS Director shows two MSP admin option under user roles.	There is no known workaround for this issue.
CSCur03123	A newly deployed VM fails at the Config L4 L7 Container Services task for Cisco ASAv.	Delete the deployed ASAv and resubmit the workflow.
CSCur04051	An APIC account configured to use HTTP protocol does not work as APIC does not support HTTP.	Add an APIC account that is configured to use HTTPS protocol.
CSCur04185	When deploying Netscaler (without using a function profile), we are seeing a fault on the deployed device cluster and the status of the load balancer displays as Down for Netscaler.	There is no known workaround for this issue.
CSCur01901	Virtual Compute should be Mandatory when creating a VM entry.	When you create a VM entry in the Application profile, choose the Virtual Compute service class.
CSCur01345	You cannot add a VNX Block Account with a Credentials policy.	Add the account directly through the Add Account dialog box. Do not check the Use Credentials Policy check box.
CSCuq91589	Hyper-V: Native uplink port profile creation failing and report is blank when the Logical Network Definition field contains more than 256 characters.	Ensure that the Logical Network Definition field does not contain more than 256 characters.



**Table 2** *Open Caveats in Release 5.1*

Defect ID	Symptom	Workaround
CSCuq99612	Devices added through the Discovery wizard do not retain the credentials policy. When using the Discovery wizard, the credentials policy is retained only for the following devices: <ul style="list-style-type: none"> <li>• Isilon</li> <li>• VNX</li> <li>• Vision Intelligent Operations</li> </ul>	There is no known workaround for this issue.
CSCur01491	Deleted account is discovered again when using the Discovery wizard.	Restart infrmgr services and try to perform discovery.
CSCur01381	You cannot add a VNX Block Account with a Credentials policy.	Add the account directly through the Add Account dialog box. Do not check the Use Credentials Policy check box.
CSCur07646	When more than one vCenter is added to a resource group, the tenant onboarding wrapper does not pick the right host based on tags and/or capacity.	Add only one vCenter to a resource group.
CSCur07658	When executing deployment of more than one BM as part of a container, all the executions except the first one fail since the same vServer is being used for all deployments and the iSCSI service on the vServer is already started.	Delete the failure link for the Create iSCSI Service task and resubmit the Service Request.

## Open Caveats in Release 5.1.0.1

Table 3 lists the open caveats in Cisco UCS Director, Release 5.1.0.1:

**Table 3** *Open Caveats in Release 5.1.0.1*

Defect ID	Symptom	Workaround
CSCur69712	Configuring NTP with the wizard appends the numeral 0 to the IP address/FQDN in the /etc/ntp.conf file.	Complete the following steps: <ol style="list-style-type: none"> <li>1) Manually edit the /etc/ntp.conf file.</li> <li>2) Remove the number prefixes for all the NTP server entries.</li> <li>3) Save the /etc/ntp.conf file.</li> <li>4) Restart the NTPD service. (service ntpd restart)</li> </ol>
CSCur73317	Resize VM Memory and CPU workflow task shows maximum supported vCPU Value as 32.	Specified VM can be resized to 64 vCPUs using the VM Resize action button.

## Resolved Caveats in Release 5.1

Table 4 lists the resolved caveats in Cisco UCS Director, Release 5.1.

**Table 4** *Resolved Caveats in Release 5.1*

Defect ID	Symptom
CSCuq75437	Add BMA Appliance - if the BMA name has spaces, then the communication between BMA and Cisco UCS Director is broken.
CSCuq84691	Outputs not listed for Compound Task having custom task [post-infra restart].
CSCuq85221	Cisco UCS Director 5.0: vLAN name limitation for 32 characters
CSCuq87181	Cisco UCS Director 5.0: Computing Policy-Permitted memory values limit is broken.
CSCur02877	<p>The following Cisco products:</p> <ul style="list-style-type: none"> <li>• Cisco UCS Director</li> <li>• Cisco UCS Director Baremetal Agent</li> </ul> <p>include a version of Bash that is affected by the vulnerabilities identified by the Common Vulnerability and Exposures (CVE) IDs:</p> <ul style="list-style-type: none"> <li>• CVE-2014-6271</li> <li>• CVE-2014-6277</li> <li>• CVE-2014-6278</li> <li>• CVE-2014-7169</li> <li>• CVE-2014-7186</li> <li>• CVE-2014-7187</li> </ul> <p>This bug has been opened to address the potential impact on this product. Exposure is not configuration dependent. Authentication is required to exploit this vulnerability.</p>

## Resolved Caveats in Patch Release 5.1.0.1

Table 5 lists the resolved caveats in Cisco UCS Director, Patch Release 5.1.0.1.

**Table 5** *Resolved Caveats in Patch Release 5.1.0.1*

Defect ID	Symptom
CSCur16686	Upgrade from Cisco UCS Director 4.1 to 5.x—Guest OS customization for VM is not working.
CSCur06707	Cisco UCS Director 4.1.0.5—Service Request to provision a VM is stuck in 'In-Progress' state.
CSCur17699	VIX action UI script text field size limitation in Cisco UCS Director.
CSCur18644	Binding error on workflow validations with custom input mapping.

**Table 5** *Resolved Caveats in Patch Release 5.1.0.1*

<b>Defect ID</b>	<b>Symptom</b>
CSCur18947	Cisco UCS Director 5.0—Post provisioning workflow is executing in the wrong order.
CSCur20703	Compute Policy—Permitted vCPU and Memory value limitation.
CSCur22864	Cisco UCS Director 5.1—Issue with templates with same name across two vCenters.
CSCur22879	Cisco UCS Director 5.1—Issue with VM provisioning when a datastore is selected in a Service Request.
CSCur28698	Cisco UCS Director 5.1—Cloupia Script to deploy multiple VMs is not working.
CSCur35058	Permitted disk size needs to be increased to 62TB for vCenter 5.5.
CSCur45381	VM provisioning performed with obsoleted VMware workflow tasks is failing.
CSCur48073	The MSP Admin can see details related to other MSP organizations.
CSCup66227	Workflows lose their mappings when an input parameter is edited.
CSCur58067	Compute Policy—VM provisioning failed when a cluster is selected.
CSCuq58896	Cisco UCS Director 5.0—CIMC boot order is missing.
CSCuq73783	Computing Policy—Permitted vCPU values limit need to be increased.
CSCur69510	Cisco UCS Director 5.1—Need to create NTP user and start NTPD.
CSCur00093	Create UCS Service Profile From Template task has to provide the server identity.
CSCur02136	Input/Output tab in Service Request is not populating.
CSCur34772	Cisco UCS Central—A change in the account credentials breaks some workflows.

## Resolved Caveats in Hotfix Patch Release 5.1.0.1A

[Table 6](#) lists the resolved caveats in Cisco UCS Director, Hotfix Patch Release 5.1.0.1A.

**Table 6** *Resolved Caveats in Hotfix Patch Release 5.1.0.1A*

<b>Defect ID</b>	<b>Symptom</b>
CSCus14135	userAPISubmitServiceRequestCustom is not working.
CSCur58067	VM provisioning failed when cluster is selected in computing policy.
CSCus14145	Edit/Clone Catalog does not show the Images tabular pop-up.
CSCus11801	Snapshots for a VM are lost when a new snapshot is created on another VM.
CSCus13939	HYPERV_ADD_VM_DISK orphans WSMAN sessions on SCVMM host.

# Workflow Task Input/Output Changes

There are no workflow task input/output changes in this release of Cisco UCS Director.

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to [ucs-director-docfeedback@cisco.com](mailto:ucs-director-docfeedback@cisco.com). We appreciate your feedback.

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