Cisco UCS Director Release Notes, Release 4.1

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This document describes the features, caveats, and limitations for Cisco UCS Director software. Use this document in combination with documents listed in Related Documentation, page 22.

Note Release notes are sometimes updated with new information about restrictions and caveats. See the following website for the most recent version of the *Cisco UCS Director Release Notes, Release 4.1*: http://www.cisco.com/en/US/products/ps13050/tsd_products_support_general_information.html

Table 1 shows the online change history for this document.

Table 1 Online History Change

Part Number	Revision	Date	Description
OL-30266-01	A0	December 16, 2013	Created release notes for Release 4.1.
	B0	December 19, 2013	Added new open caveats: CSCum16900, CSCum16890, and CSCum16842. Updated support for storage devices and description of orchestration enhancements.
	C0	December 20, 2013	Added one new caveat: CSCum17896 Updated description and/or workaround for the following caveats: CSCui66016 and CSCul24274
	D0	January 21, 2014	Resolved caveats for patch release 4.1.0.1: CSCul29609, CSCum11020, CSCum13683, CSCum16842,CSCum44683, CSCum58108,and CSCum58766.
	E0	February 7, 2014	Updated for patch release 4.1.0.2.

Contents

This document includes the following sections:

Introduction

Cisco UCS Director delivers unified, highly secure management 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 capability. It supports NetApp FlexPod and ExpressPOD, EMC VSPEX, and Virtual Computing Environment (VCE) Vblock systems, based on the Cisco UCS and Cisco Nexus platforms.

Cisco UCS Director was formerly known as Cloupia Unified Infrastructure Controller and as Cisco Cloupia.

System Requirements

Table 2 lists the system requirements for Cisco UCS Director Release 4.1.

Table 2 System Requirements

vSphere Minimum System Requirements	
Component	**Requirement**
VMware	ESX or ESXi 4.x or 5.x
vCPU	4
Memory	Minimum = 4GB High Loads and Scalability = 8 GB
Hard disk	100 GB

Hyper-V Minimum System Requirements	
Hyper-V 2.0 or 3.0	Windows 2008 R2, Windows 2012, or Windows 2012 R2
vCPU	4

Table 2 System Requirements

vSphere Minimum System Requirements	
Memory	Minimum = 4GB High Loads and Scalability = 8 GB
Hard disk	100 GB

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 11 plug-in.

New and Changed Information

This section includes the following topics:

New Features in Release 4.1

The following features are available in Cisco UCS Director, Release 4.1:

New Scalability Feature

For Cisco UCS Director, Release 4.1, the distributed architecture of a multi-node setup enables you to scale Cisco UCS Director to support a larger number of virtual machines (VMs) than is supported by a single installation of Cisco UCS Director. The multi-node setup is supported for Cisco UCS Director on 64-bit operating systems only.

This setup includes the following nodes:

- One primary node that acts as the master controller.
- One or more service nodes that act as stateless execution engines.
- One monitoring database that contains data for users, groups, VMs, virtual data centers, and configuration.
- One inventory database that contains monitoring and inventory data.

The multi-node setup improves scalability by offloading the processing of system tasks, such as inventory data collection, from the primary node to one or more service nodes. You can assign certain system tasks to one or more service nodes. The number of nodes determines how the processing of system tasks is scaled.

You can enable and disable system tasks or assign service node pools to system tasks for load balancing.

New API/SDK Features

Cisco UCS Director REST API—The northbound REST (Representational State Transfer) API enables you to perform operations on Cisco UCS Director resources and to integrate those operations into applications so that they can provide API-supported functionality and features. This API includes the following:

- Protocols—HTTP and HTTPS
- Data format—Combination of JSON and XML
- Operations—Create, read, update, and delete for most operations in Cisco UCS Director
- SDK—Java SDK

Cisco UCS Director Open Automation API—The southbound Open Automation API is part of a development platform architecture that includes the Cisco UCS Director Platform Runtime, a set of modules, and an SDK. This API enables you to develop and deploy a module that can be executed on Cisco UCS Director platform runtime, adding and integrating that functionality into Cisco UCS Director, including the following:

- Adding new connectors for devices
- Adding new workflow tasks
- Creating new tabular reports
- Creating new forms
- Creating new scheduled tasks
- Creating new inventory collection tasks

New Performance Monitoring Feature for VMware Accounts

For VMware virtual accounts, Cisco UCS Director no longer monitors all parameters collected from VMware vCenter by default.

A new data collection policy now handles monitoring of all VMware vCenter parameters. By default, the data collection policy is only configured to monitor the following parameters:

You can also enable one or more of the following parameters if you want to monitor them:

For information about which parameters are enabled by default, and which reports are populated by which parameters, see the *Cisco UCS Director Administration Guide, Release 4.1*.

New Compute Features

Cisco UCS Central, Release1.1—Support includes the following features:

- Creation of pools and policies
- Assignment of domains to pods
- Register and unregister of Cisco UCS Manager accounts
- Global and local policies, service profiles, and service profile templates

Cisco UCS Manager, Release 2.1(3a)—Support includes the following features:

- Local disk configuration policies
- Maintenance policies
- Time zones
- Assignment of blade servers and server pools to groups
- Association of service profile templates to server pools
- New workflow tasks for VLANs, server pools, service profiles, and service profile templates

C-Series Cisco Integrated Management Controller, Release 1.5—Support includes the following features:

- Enhanced inventory collection
- New reports for storage adapter, VIC adapter, and network adapter
- Launch of KVM console from Cisco UCS Director
- Baremetal provisioning with local boot and SAN boot

New Networking Features

Networking Devices

Table 3 lists the network devices for which support has been added in Cisco UCS Director, Release 4.1.

Table 3 Updated Network Device Support

Device	Supported Models	Supported Software
Cisco Nexus 1100 Series Cloud Services Platform	Nexus 1110	NX-OS Software Release 4.2(1)
Cisco Nexus 6000 Series Switches	Nexus 6001 Nexus 6004	NX-OS Software Release 6.0(2)

Table 3 Updated Network Device Support

Device	Supported Models	Supported Software
Cisco Nexus 9500 Series Switches	Nexus 9508	NX-OS Software Release 6.1(2)
Cisco MDS 9200 Series Multiservice Switches	MDS 9250i	NX-OS Software Release 6.2(3)

Networking Software Features

Cisco Nexus 1000V—Support includes the following features:

- HA inventory
- VXLAN Gateway

Cisco Nexus Virtual Security Gateway (VSG)—Support for VSG has been added through application containers. See New Application Container Features, page 9.

Cisco Prime Network Services Controller (PNSC)—Support includes the following features:

- PNSC accounts
- Inventory collection and inventory reports
- Actions and workflow tasks

SAN Zones—Support includes the following features:

- A separate task to create and delete a SAN zone
- A separate task to add and remove SAN zone members
- A new task to add and remove SAN zoneset members
- Add and remove a device alias
- The ability to provide device alias and zoneset names

SSH Tasks—Support includes the following features:

- Error scenarios
- Returning command output

New Storage Features

Storage Devices

Table 4 lists the storage devices for which support has been added in Cisco UCS Director, Release 4.1.

Table 4 Updated Storage Device Support

Device	Supported Models	Supported Software
EMC VNX	VNX 7600 VNX 8000	MCx OS, v8.1.0 and higher

Storage Software Features

EMC VNX—Support includes the following features:

- CIFS Server
- CIFS Share
- File System Quota
- SnapView

EMC VMAX—Support includes the following features:

- Fast policy operations, including storage group operations for those policies
- Storage tier operations, including disk group and thin pool operations for a storage tier
- Fast Controller including status, parameters and settings, and enabling and disabling
- Data Dev operations

NetApp—Support is available for OnTap 8.2 and Clustered OnTap. This support includes the following features:

- Create Datastore using VSC with select vserver name and vfiler name inputs
- Create ClusterFlexibleVolume with new, mandatory input of flexcache origin volume name for type DC
- Delete Export policy and rule
- Binding error improvements for associate LUN as datastore.

NetApp CMODE—Support includes the following features:

- Create, read, update, and delete operations on aggregates, CIFS servers, shares, ACLs, snapshot policies, and schedules
- Restoring files
- Licensing
- iSCSI initiators
- Quotas on volumes and Qtrees
- FCP
- iGroups
- Cloning LUNs
- Configuring DNS, NFS, LIF, and cluster nodes
- Provisioning VMs through VSC CMODE storage
- SIS
- SnapMirror
- vServer peering and cluster peering.

New Virtualization Features

VMware vSphere Enhancements

VMware vSphere Version—Support is available for VMware vSphere 5.5.

Data Store Monitoring Report Enhancements—Support includes the following features:

- Disk latency
- I/O throughput and IOPs
- Total, used, and overprovisioned capacity
- Overcommitment ratio
- VMs
- vmdk disk latency report

Virtual Data Centers (VDCs)—The ability to apply target VDC policies when moving a VM across VDCs.

VMware Policy Enhancements—Support includes the following features:

- VDC System Policy now includes a time zone options list and support for all regions
- VDC Storage policy for VMware now includes a thin provisioning option (Flexibility)
- A new IP Pool policy for defining static IP addresses
- A new flexible VDC network policy that allows for a different set of VM network requirements

VMware Tasks and Actions Enhancements—Support includes the following features:

- Create a VMKernel port group on a standard VMware vSwitch
- Remove an ESXi host from a Distributed vSwitch
- VM Cloning task and Guest OS Customization
- VM Select task
- Ability to hot add more CPU and Memory to VMs.

Microsoft Hyper-V Enhancements

Microsoft System Center Virtual Machine Manager (SCVMM) Version—Support is available for SCVMM 2012 R2.

Software Features—Support includes the following features:

- Orchestration capabilities extended to attached external storage in SCVMM (SMB/LUN<SMI-S proxy>) including allocation and configuration for SCVMM 2012SP1 and SCVMM 2012R2 base clusters/hosts
- Orchestration capabilities extended to VLAN base networking model with respect to SCVMM2012 SP1 and SCVMM 2012 R2
- Host management tasks
- VMM version support extended to SCVMM 2012 R2 in Inventory/Report/Provision/Configuration
- VM access—Web & RDP
- REST API Support
- Covered the Customer Onboarding workflow gaps (limited to VLAN base Network model only)

New Converged Infrastructure Features

- Vblock 700 Series
- EMC-based VSPEX 125 and 250

New Orchestration Features and Enhancements

Custom Tasks—You can use custom tasks to create new workflow tasks with well-defined inputs and outputs. In Cisco UCS Director, Release 4.1, the logic for these tasks are implemented through Cloupia script, which includes JavaScript and Cisco UCS Director libraries.

Custom tasks can be exported from one Cisco UCS Director deployment and imported into another. In Cisco UCS Director, they are managed in the same location as other orchestration tasks and workflows.

After you have created a custom task, there is no inherent difference between that custom task and the tasks that are provided with Cisco UCS Director.

Orchestration Enhancements—The enhancements to orchestration in Cisco UCS Director, Release 4.1, include the following:

- All users with administrator privileges can view and edit workflow inputs and outputs in service requests.
- Workflow user inputs can be configured as mandatory or optional.
- Workflow user inputs can be changed and resubmitted for a failed or cancelled service Request. Task inputs cannot be modified.
- When tasks are added or modified, workflow inputs can be created or cross-launched.

New Application Container Features

Cisco Nexus Virtual Security Gateway (VSG)—Support has been added to integrate VSG into application containers, including the following:

- Firewall policies, including zones, ACLs, and a VSG details template
- Virtual infrastructure policies, including VSG containers and an external gateway
- VSG application container

New Features in Release 4.1, Patch 4.1.0.1

The following features are available in Cisco UCS Director, Release 4.1, Patch 4.1.0.1:

- New Server-Based Licensing, page 9

New Server-Based Licensing

Cisco UCS Director, Release 4.1, Patch 4.1.0.1 includes server-based licensing, and you can order server-based PIDs.

Details:

- Customers are entitled to storage and network licenses with each physical server license (1:1 for Physical and 1:1/2 for Bare Metal).

- For each server quantity purchased, customers will be entitled to 50 VMs, one network and one storage.
- Existing storage, network, and other licenses will be converted to server licenses upon upgrade to Cisco UCS Director, Release 4.1, Patch 4.1.0.1.

New Features in Release 4.1, Patch 4.1.0.2

The following features are available in Cisco UCS Director, Release 4.1, Patch 4.1.0.2:

- Support for Associating VNX LUN as Datastore on Powerpath-enabled Hosts, page 10
- Support for Windows based Solution Enabler with VMAX, page 10

Support for Associating VNX LUN as Datastore on Powerpath-enabled Hosts

Cisco UCS Director now allows you to associate a VNX LUN as a data store on Powerpath-enabled hosts.

Support for Windows based Solution Enabler with VMAX

To communicate with VMAX, Cisco UCS Director now supports a Windows-hosted application to perform the installation of the EMC Solution Enabler.

Installation Notes

Cisco UCS Director is a 64-bit appliance that uses the standard VHD template, and can be hosted on VMware vSphere or vCenter and Microsoft Hyper-V Manager.

For installation instructions, see the following guides:

- *Cisco UCS Director Installation and Upgrade on Microsoft Hyper-V Manager, Release 4.1*
- *Cisco UCS Director Installation and Upgrade on VMware vSphere, Release 4.1*

The installation guides are available on Cisco.com here:
http://www.cisco.com/en/US/products/ps13050/prod_installation_guides_list.html

Caveats

This section includes the following topics:

- Open Caveats, page 11
- Resolved Caveats—Patch Release 4.1.0.1, page 14
- Resolved Caveats—Patch Release 4.1.0.2, page 15

Note Release note information is sometimes updated after the product Release Notes document is published. Use the Cisco Bug Search Tool to see the most up-to-date release note information for any caveat listed in this document.

Open Caveats

Table 5 lists the caveats that are open in Cisco UCS Director, Release 4.1.

Table 5 Open Caveats in Release 4.1

Defect ID	Symptom	Workaround
CSCul21096	Inserts, reads, updates and deletes on the Cisco UCS Director databases causes disk fragmentation.	Run an OPTIMIZE command on the VM. For more information, see the Cisco UCS Director installation guides for Release 4.1.
CSCul59462	After an upgrade from Cisco UCS Director, Release 4.0 to Release 4.1, the port group is not mapped in network policies that were edited or updated in Release 4.0.	In Cisco UCS Director, Release 4.1, do the following: 1. Open the network policy. 2. Map the appropriate port groups. 3. Save the network policy.
CSCul51752	After upgrading to Cisco UCS Director, Release 4.1, the new data collection policy for VMware results in some parameters not being monitored and some graphs being empty	This is by design. The policy controls which parameters are monitored. You must enable the parameters that you want to monitor. For more information, see *Cisco UCS Director Administration Guide, Release 4.1*.
CSCug91645	While trying to add VM disks to 4 SCSI adapters, intermittently observed that the VM disk could not be added. The following exception was seen during the attempt to add the VM disk: **Exception trace ************************ **java.lang.Exception: Disk could not be added for Win-XP-move** All connectivity from the server to PowerShell Agent and from the PowerShell Agent to the Microsoft HyperV hypervisor was fine.	Ensure that the VM is in an SCVMM-supported state before you add the VM disks. This issue happens intermittently if the VM is not in a state that supports the operation. This error is from SCVMM.
CSCui12211	Rollback (undo) is not available for the following Hyper-V orchestration tasks: • Mount iSCSI LUN • Bringing Disk online and formatting • Create VM placement path	Manually undo the changes made through those tasks.

Table 5 Open Caveats in Release 4.1

Defect ID	Symptom	Workaround
CSCui27399	When you add a vFiler or set up a vFiler with the action buttons available on the vFilers tab, there is no option to specify the vFiler root password.	To specify a root password for an existing vFiler, use the setup option available in the one of the following workflows to create vFilers: • Create vFiler using ONTAP workflow • Create vFiler setup workflow
CSCui19131	The memory size is displayed differently for the fabric interconnect and Cisco UCS Manager. In the Fabric Interconnects report, the available memory size displays in MB, but in Cisco UCS manager, the available memory size displays in GB. In addition, if the available memory is 13.927 GB, it should show the MB value as 14261.248 but instead displays the wrong value.	Use Cisco UCS Manager to obtain the available memory size for a fabric interconnect.
CSCui58095	When the a NetApp volume is offline and you apply a Dedupe On or Dedupe Off action, The storage controller intermittently generates a misleading error message stating that the volume does not exist even though the volume is only in the offline state.	There is no known workaround for this issue.
CSCui66016	Automation of baremetal provisioning fails with an HP custom image (iLO4) because the host shuts down immediately after ESXi deployment.	Do the following: 1. Manually power on the host. 2. Execute the task to change the boot order to local disk. 3. Execute the Register Host to vCenter task.
CSCul24274	Memory/CPU hot add feature fails on VMware VMs,when the Hot add property is not enabled on the VM.	Enable _the property (HOT add) on the VM using the VMware vCenter client.
CSCul26798	For NFS datastore, the Read IOP, Write IOP, and throughput reports are empty in Cisco UCS Director although values are present when seen in VMware vCenter for the same datastore.	There is no known workaround for this issue as the API for NFS datastores does not return any data.
CSCul34832	The REST API Read option for tasks in a VMAX device does not work.	There is no known workaround for this issue.
CSCul55929	In Cisco UCS Director, Release 4.1, the term Data Center was replaced with Pod. However, Cisco UCS Director still displays Data Center instead of Pod in some areas.	There is no known workaround for this issue.

Table 5 Open Caveats in Release 4.1

Defect ID	Symptom	Workaround
CSCul57170	Some errors in a workflow are not identified during workflow validation, such as non-existent or missing values. However, when you execute the workflow, the workflow fails and the error message identifies the incorrect or missing values.	After the workflow fails to execute, update the workflow with the correct values and re-execute the workflow.
CSCul91019	The previous tasks Add Cluster Volume NFS Export and Remove Cluster Volume NFS Export no longer work. These tasks have been replaced with Mount Cluster Volume and Unmount Cluster Volume.	Use the following new tasks instead: • Mount Cluster Volume • Unmount Cluster Volume
CSCum05246	No rollback (undo) is available for reserved IP address when the Resource Allocation task is executed.	Manually undo the IP reservations through one of the following: • From the Reservations tab • Through Global IP Pool usage
CSCum06481	After an upgrade to Cisco UCS Director, Release 4.1, some workflow tasks result in binding errors.	Remap the bindings for those workflow tasks. For more information, see Workflow Task Input/Output Changes, page 15.
CSCum01980	When a VM is provisioned after the VM metering task is completed in the second half of an hour, the charge for the VM does not begin until the following hour. In this scenario, the VM cost is not charged for the hour in which it is provisioned.	There is no known workaround for this issue.
CSCum09723	After a Windows VM is cloned, the password reset fails.	Use the “Guest Setup” task to reset the password.
CSCum06612	When the CIMC power on / off, boot order change tasks are executed, the MAC address is displayed as an output attribute. However, only the vNIC MAC address is displayed. The MAC address output is needed for the PXE setup task for baremetal provisioning.	Add the MAC address manually for the PXE setup task.
CSCze09420	Cisco UCS and CIMC events and faults fail to generate intermittently.	There is no known workaround for this issue.
CSCum07544	File systems and export paths are not filtered and displayed in the Mover drill-down according to the mover that is selected. In addition, the mover information is not displayed in the file system and export paths to show the mover to which they belong.	There is no known workaround for this issue.

Table 5 Open Caveats in Release 4.1

Defect ID	Symptom	Workaround
CSCum10733	The Export Path action fails to perform under any mover except “Mover-2”. For any other mover, the task fails with an invalid export path error.	Use the Create Export path task. This creates an export path under all active movers.
CSCum01236	For the Create Initiator Group task, if you select FCP type and do not create an initiator name, the task fails.	Provide an initiator name in the Create Initiator Group task.
CSCul40043	If multiple Symmetric devices are managed under one Solution Enabler, Cisco UCS Director displays only the first device.	Manage only one Symmetric device per Solution Enabler.
CSCum16900	If you give the zone name as an admin input for the Generic Configure SAN Zoning workflow task, the task fails.	Manually enter the zone name.
CSCum16890	When you use the Generic Configure SAN Zoning task to create a new zoneset, Cisco UCS Director creates the zoneset with the first active zoneset name.	There is no known workaround for this issue.
CSCum16842	Create VDC task succeeds but cloning of the network policy fails.	Create or update the network Policy in Cisco UCS Director from **Policies > Network > VMWare Network Policies**.
CSCum17896	Datadev creation fails for Cisco UCS Director on Microsoft Hyper-v due to the length of time it takes to perform the task and the slowness of the setup.	There is no known workaround for this issue.
CSCum92118	Patch upgrade fails if NFS mount is configured for Storage Appliance.	Disable any Appliance Storage that is used to configure external storage (NFS mount) before you apply the patch.

Resolved Caveats—Patch Release 4.1.0.1

Table 6 lists the caveats that are resolved in Cisco UCS Director, Patch Release 4.1.0.1.

Table 6 Resolved Caveats in Cisco UCS Director, Patch Release 4.1.0.1

Defect ID	Description
CSCul29609	The format of the name in the Name field is name_${sr_id}. The Service Request ID is used to provide a unique name.
CSCum11020	Task “Create VNX Block Storage Pool”, displaying RAID Type "unknown" in UCSD for Mixed Type
CSCum13683	Currently, UCSD can add only 7mode filers (FAS2220, FAS2240) to Express pod. Fixed the capability to add cmode filers as well.
CSCum16842	When execute the task "Create VDC”, it fails to clone NICs from Network Policy.

Table 6 Resolved Caveats in Cisco UCS Director, Patch Release 4.1.0.1 (continued)

Defect ID	Description
CSCum44683	Amazon account connectivity is not supporting proxy settings for DMZ.
CSCum58108	Task/Action:“Create VNX LUN” fails to create LUN with a size greater than 1023 GB.
CSCum 58766	User input reordering is not getting persisted for new workflows, existing workflows and imported workflows.

Resolved Caveats—Patch Release 4.1.0.2

Table 7 lists the caveats that are resolved in Cisco UCS Director, Patch Release 4.1.0.2.

Table 7 Resolved Caveats in Cisco UCS Director, Patch Release 4.1.0.2

Defect ID	Description
CSCum20951	Inframgr is unable to startup (expecting 1 object for modifySingleObject).
CSCum69964	Workflow user input password type not masked after cloning workflow.
CSCum72928	Shell Admin: option 25 is not working.
CSCum81199	Application Container: Not all VMs are showing up in Cisco UCS Director.
CSCum81793	Netapp 8.1.4 and 8.2.x 7-Mode: Clone LUN action gives an error.
CSCum96714	Cloudsense report: Customer billing report not working as expected.
CSCum37748	Application Container output is incorrect when powered on by end-users.
CSCum92411	To make 'subnet mask' as optional input in the Configure VLAN interface task.
CSCum97172	Licensing: Remove network and storage counts for server.
CSCug25640	Resize Windows 2008 Datacenter VM CPU & Memory.

Workflow Task Input/Output Changes

Table 8 displays the workflow task input/output changes found in Cisco UCS Director, Release 4.1.

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
UCS	Cisco UCS Task: Add vNIC to UCS Service Profile	Binding error issue reported for this task after upgrade. (CSCum08951) Workaround: Delete the task and re-add it to the workflow.
UCS	Cisco UCS Task: Add VLAN to Service Profile	Input/output mapping changes. New Entity vNIC can cause workflow to fail. Workaround: Add the required input value-based selection for the vNIC.

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
UCS	Cisco UCS Task: Rename UCS Service Profile	Additional inputs have been added to this task. Workaround: Add the required input value-based selection.
UCS	Cisco UCS Task: Add vNIC to Service Profile	Additional output, as follows: “OUTPUT_MAC_POOL_IDENTITY MACPOOL IDENTITY”
UCS	Cisco UCS Task: Modify UCS VLAN/VLAN Group Org Permissions	Input/output mapping changes. The mapped user input for the organization of ucsOrganizationIdentity has been changed to ucsMultiOrganizationIdentity to support the multiselect functionality. This change enables you to select multiple organizations at one time.
UCS	Cisco UCS Task: Create UCS Boot Policy	Mouseover help text and the task library text has been updated for the following inputs: • Add CD ROM in boot order • Add Floppy Disk in boot order • Add Local Disk in boot order • Add Primary LAN Boot in boot order • Add Primary SAN Boot in boot order
UCS	CIMC Tasks: Unconfigure Rack Server	Input/Output changes The “cimc_server” input/output type has changed to “cimcServerIdentity”. Workaround: Update workflows with the new “cimcServerIdentity” input/output type.
UCS	CIMC Task: Select CIMC Boot Device	Task output has been updated with the following for each Slot 1 and 2: OUTPUT_CIMC_SERVER_SLOT_<>_MAC_ADDRESS OUTPUT_RACK_SP_SLOT_<>_VHBA_1_VLAN OUTPUT_RACK_SP_SLOT_<>_VHBA_1_WWPN OUTPUT_RACK_SP_SLOT_<>_VHBA_2_VLAN OUTPUT_RACK_SP_SLOT_<>_VHBA_2_WWPN

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
UCS	CIMC Tasks: Power On/Off CIMC Server	The “cimc_server” input/output type has changed to “cimcServerIdentity”. Workaround: Update workflows with the new “cimcServerIdentity” input/output type. Task output updated with following for each Slot 1 and 2. OUTPUT_CIMC_SERVER_SLOT_<>_MAC_ADDRESS OUTPUT_RACK_SP_SLOT_<>_VHBA_1_VLAN OUTPUT_RACK_SP_SLOT_<>_VHBA_1_WWPN OUTPUT_RACK_SP_SLOT_<>_VHBA_2_VLAN OUTPUT_RACK_SP_SLOT_<>_VHBA_2_WWPN
UCS	CIMC Tasks: Configure Rack Server	The “cimc_server” input/output type has changed to “cimcServerIdentity”. Workaround: Update workflows with the new “cimcServerIdentity” input/output type. Task output updated with following for each Slot 1 and 2. OUTPUT_CIMC_SERVER_SLOT_<>_MAC_ADDRESS OUTPUT_RACK_SP_SLOT_<>_VHBA_1_VLAN OUTPUT_RACK_SP_SLOT_<>_VHBA_1_WWPN OUTPUT_RACK_SP_SLOT_<>_VHBA_2_VLAN OUTPUT_RACK_SP_SLOT_<>_VHBA_2_WWPN
Networking	Create VFC Interface	After upgrade, only the device selection was changed. Workaround: after reconfigure, the workflow can be successfully executed.

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
NetApp	Create Datastore using VSC – As Select	Upgrade: C-Mode binding errors Create Datastore using VSC – As Select vserver name and vfiler name inputs are new for this release. Workaround: Add the required input value-based selection.
NetApp	Create ClusterFlexibleVolume	Upgrade: C-Mode binding errors Create ClusterFlexibleVolume– As flexcache origin volume name for type DC is a new input. This input is mandatory for volume type DC. Workaround: Change the volume type from DC to RW and resubmit the task. However, if LUNS and QTREE are mapped in the same workflow, the vServer mappings are not saved.
NetApp	Delete Export Policy	Upgrade: C-Mode binding errors Delete Export Policy - As vserver input has been removed. Workaround: Provide the policy name and resubmit the task.
NetApp	Delete Export Rule	Upgrade: C-Mode binding errors Delete Export Rule – As vserver input has been removed. Workaround: Provide the rule name and resubmit the task.
NetApp	Associate LUN as datastore.	Upgrade: C-Mode binding errors a. Binding error while executing existing task on upgrade; even after revalidating all inputs b. Binding error in imported task; even after revalidating all inputs c. No binding error when a new task is created.
NetApp	NetApp clustered Data ONTAP Tasks: Create Cluster Initiator Group.	Upgrade: C-Mode binding errors The mapped type for the input “Initiator Group Name” has been changed from “netAppInitiatorGroupName” to “gen_text_input”. Workaround: For admin input user, add an input with type “gen_text_input” and map it to input “Initiator Group Name” in the existing workflows.

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
NetApp	NetApp clustered Data ONTAP Task removed: Add cluster volume NFS export' Remove cluster volume NFS export'	Workaround: User need to remove those tasks from workflows and replace them with the following tasks: Create cluster NFS service Destroy cluster NFS service
NetApp	NetApp ONTAP Tasks: Add vFiler NFS Volume Export	Upgrade 7mode: Task with Input/Output Mapping Changes: This task now also provides the following output: “OUTPUT_VFILER_IDENTITY” Workaround: Use this as mapped input for subsequent tasks. The “All Hosts” attribute has been removed. Workaround: If the ‘All Hosts’ attribute is selected after upgrade, provide values for “Read-Write Hosts and Root Hosts” and re-submit the task for execution.
NetApp	NetApp ONTAP Tasks: Create Initiator Group.	Upgrade 7mode: The mapped type for the input “Initiator Group Name” has been changed from “netAppInitiatorGroupName” to “gen_text_input”. Workaround: For admin input user, add an input with type “gen_text_input” and map it to input “Initiator Group Name” in the existing workflows.
General Tasks	Modify User	Task Fixed for mapping/binding errors: This task gives a Null Pointer exception when executed. Workaround: Revalidate the task and execute it.
General Tasks	Collect Inventory	The network device input type for this task has been changed from Generic Text to ‘Network device’ type. Workaround: Change the input type to “Network Device” and map the input as an admin input.
VMAX	Create Cascaded Storage Group	For parent and child storage groups, the select type has changed from EMCVMAXStorageGroupNameList to a type of EMCVMAXStorageGroupIdentity. Workaround: Change the mappable type to the new type.

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Scenario	Workflow Task	Input/Output Changes
VMAX	Create Cascaded Initiator Group	For parent and child initiator groups, the select type has been changed from EMCVMAXInitiatorGroupNameList to a type of EMCVMAXInitiatorGroupIdentity. Workaround: Change the mappable type to the new type.
VMAX	Create Masking View	To select a storage group, initiator group, and port group, you must use Identity type for these variables instead of NameList type.
VMAX	Create VMAX Port Group	The mappable type for selecting a multiport list has been changed from EmcVmaxDirectorMultiPortList to Gen_text_input. Workaround: Recreate the VMAX port group workflow.
VMAX	Associate Fast Policy to VMAX Storage Group	A new option for priority has been added. Workaround: Provide a priority input and change the Mappable type to EMCVMAXFastPolicyIdentity.
VMAX	Create VMAX Port Group	The mappable type to select ports has been changed from gen_text_input to emcvmaxalldirportlist. Workaround: Change the mappable type to the new type.
VMAX	Add Ports to VMAX Port Group	The mappable type to add ports to a port group has been changed from gen_text_input to EMCVMAXPortGroupUnboundedDirPortList. Workaround: Change the mappable type to the new type.
VMAX	Remove Port from VMAX Port Group	The mappable type to remove ports from a port group has been changed from gen_text_input to EMCVMAXPortGroupBoundedDirPortList. Workaround: Change the mappable type to the new type.
VMAX	Create VMAX Initiator Group	The mappable type to select the initiator type has been changed from gen_text_input to EMCVMAXInitiatorType. Workaround: Change the mappable type to the new type.

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
VMAX	Add Initiator to VMAX Initiator Group	The mappable type to select the initiator type has been changed from gen_text_input to EMCVMAXInitiatorType. Workaround: Change the mappable type to the new type.
VMAX	Remove Initiator from VMAX Initiator Group	The mappable types to select the initiator type and the initiator to remove have been changed from gen_text_input to EMCVMAXInitiatorType and EMCVMAXInitiatorsList respectively. Workaround: Change the mappable types to the new types.
VMAX	Replace Initiator from VMAX Initiator Group	The mappable types to select the initiator type and initiator to replace have been changed from gen_text_input to EMCVMAXInitiatorType and EMCVMAXInitiatorsList respectively. Workaround: Change the mappable types to the new types.
VMAX	Add Tdevs to VMAX Storage Group	The mappable type to select Tdevs has been changed from gen_text_input to EMCVMAXAllStorageThinDevices. Workaround: Change the mappable type to the new type.
VMAX	Remove Tdev from Storage Group	The mappable type to select the Tdev to remove has been changed from gen_text_input to EMCVMAXBoundedStorageGroupDevices. Workaround: Change the mappable type to the new type.
VMAX	Expand VMAX Thin Pool	The mappable type to select the Tdev to expand the thin pool has been changed from gen_text_input to EMCVMAXUnBoundedDataDevDevicesList. Workaround: Change the mappable type to the new type.
VMAX	Bind Thin Device to VMAX Thin Pool	The mappable type to select the Tdev to bind to the thin pool has been changed from gen_text_input to EMCVMAXUnBoundedThinDevDevicesList. Workaround: Change the mappable type to the new type.

Table 8 Input/Output Changes to Workflow Task

Scenario	Workflow Task	Input/Output Changes
VMAX	Create VMAX Thin Device	The mappable types to emulate a thin pool and to select a thing pool have been changed from gen_text_input to EMCVMAXDataDeviceEmulationTypeList and EMCVMAXThinPoolIdentity respectively. Workaround: Change the mappable types to the new types.
VMAX	Create VMAX Data Device	The mappable types to emulate a thin configuration and to select the configuration have been changed from gen_text_input to EMCVMAXDataDeviceEmulationTypeList and EMCVMAXDataDeviceConfigurationTypeList respectively. Workaround: Change the mappable types to the new types.
VMAX	Create VMAX Meta Device	The mappable type to select a member device has been changed from gen_text_input to EMCVMAXNonMetaUnBoundThinDevicesList. Workaround: Change the mappable type to the new type.
Hyperv	Add Virtual Port To Logical Switch	When included in the Network workflow, this task generates the following error even after you provide bindings: “Handler failed with error - Invalid logical switch ID : , selectedContext=<None>”

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Cisco UCS Director Documentation Roadmap

For a complete list of Cisco UCS Director documentation, see the *Cisco UCS Director Documentation Roadmap* available at the following URL: http://www.cisco.com/en/US/docs/unified_computing/ucs/ucs-director/doc-roadmap/b_UCSDirectorDocRoadmap.html

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