



Release Notes for Cisco UCS Manager PowerTool, Release 1.x

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Current Release: 1.x

This document describes the system requirements, new features, information about the images, resolved caveats, known caveats, and workarounds for Cisco UCS Manager PowerTool, Release 1.x. This document also includes current information that became available after the technical documentation was published.

Use these release notes as a supplement with the other documents listed in the documentation roadmap at <http://www.cisco.com/go/unifiedcomputing/b-series-doc>.

Make sure to review other available documentation on Cisco.com to obtain the most current information about Cisco UCS Manager PowerTool, Release 1.x

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Revision History

Table 1 shows the revision history:

Table 1 Online History Changes

Revision	Release	Date	Description
A0	1.0	January 2013	Created Release notes for Cisco UCS Manager PowerTool, Release 1.0
B0	1.0.1	August 2013	Updated Release notes for Cisco UCS Manager PowerTool, Release 1.0.1
C0	1.1.1	March 2014	Following changes were made in this revision: <ul style="list-style-type: none"> Updated the Cisco UCS Manager section. Updated the New Features section. Added the Known Issues section.
D0	1.1.2	May 2014	Following changes were made in this revision: <ul style="list-style-type: none"> Updated New Features section with information on Release 1.1.2.
E0	1.2.1	July 2014	Following changes were made in this revision: <ul style="list-style-type: none"> Updated New Features section with information on Release 1.2.1
F0	1.3.1	November 2014	Following changes were made in this revision: <ul style="list-style-type: none"> Updated New Features section with information on Release 1.3.1 Added Release 3.0 to the Cisco UCS Manager section. Added a new section Limitations of Using PowerTool With Cisco UCS Manager Release 3.0(1) for UCS Mini.
G0	1.4.1	April 2015	Following change is made in this revision: <ul style="list-style-type: none"> Updated New Features section with information on Release 1.4.1
H0	1.5.1	July 2015	Following changes is made in this revision: <ul style="list-style-type: none"> Updated New Features section with information on Release 1.5.1

Revision	Release	Date	Description
I0	1.5.2	November 2015	Following change is made in this revision: <ul style="list-style-type: none"> Updated New Features section with information on Release 1.5.2
J0	1.5.3	December 2015	Following changes are made in this revision: <ul style="list-style-type: none"> Updated Open Caveats and Resolved Caveats sections

Introduction

Cisco UCS Manager PowerTool is a PowerShell module that helps automate all aspects of Cisco UCS Manager including server, network, storage, and hypervisor management. Cisco UCS Manager PowerTool enables easy integration with existing IT management processes and tools. The PowerTool cmdlets work on the Cisco UCS Manager's Management Information Tree (MIT). This release contains more than 1800 cmdlets. These cmdlets can be used to execute read, create, modify, and delete operations on all the UCS Manager Managed Objects (MOs) in the MIT.

System Requirements

Before installing Cisco UCS Manager PowerTool, ensure that the system meets the following requirements:

- Windows PowerShell 2.0 or above must be installed on the system
- .NET Framework Version 2.0 SP1 (or later)

Cisco UCS Manager

Cisco UCS Manager PowerTool is compatible with the following Cisco UCS Manager releases:

- Release 3.0
- Release 2.5
- Release 2.2
- Release 2.1
- Release 2.0

Windows PowerShell Requirements

Cisco UCS Manager PowerTool supports Windows PowerShell 2.0 and later.

Installation Requirements

Before installing Cisco UCS Manager PowerTool, do the following:

- Close any instances of PowerShell running with the PowerTool module loaded.

New Features

New Features for Release 1.5.2

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.5.2. For detailed information about the features listed, see the documents listed in the [Related Documentation](#) section.

- [Key Features in Release 1.5.2](#)
- [New Cmdlets for Release 1.5.2](#)

Key Features in Release 1.5.2

- Support for new features in UCS Manager Release 2.2(6) and 2.5(2)
- Support for XML and Force flags in server operations cmdlets introduced in PowerTool 1.5.1

New Cmdlets for Release 1.5.2

Managed Object (MO)	PowerShell Nouns	Get	Add	Set	Remove
equipmentStorageSasExpander CapProvider	EquipmentStorageSasExpander CapProvider	x			
equipmentStorageSasExpander CapRef	EquipmentStorageSasExpander CapRef	x			

New Feature for Release 1.5.1

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.5.1. For detailed information about the features listed, see the documents listed in the [Related Documentation](#) section.

- [Key Features in Release 1.5.1](#)
- [New Cmdlets for Release 1.5.1](#)

Key Features in Release 1.5.1

- Added the following new simplified cmdlets to perform server operations. For more information on the cmdlets, see **Examples** section of the *Cisco UCS Manager PowerTool, User Guide*

Server Operations	Cmdlets
Acknowledge UCS Server	Confirm-UcsServer
Decommission UCS Server	Disable-UcsServer
Hard Reset UCS Server	Reset-UcsServer
Booting UCS Server	Start-UcsServer
Shutting down UCS Server	Stop-UcsServer
Power Cycling UCS Server	Restart-UcsServer
Resetting CMOS for a UCS Server	Reset-UcsServerCmos
Resetting BMC for a UCS Server	Reset-UcsServerBmc
Turn On Locator LED for a UCS Server	Enable-UcsLocatorLed
Turn Off Locator LED for a UCS Server	Disable-UcsLocatorLed

- Added new cmdlets for features in UCS Manager releases 2.2(4) and 2.2(5). For more information, see [New Cmdlets for Release 1.5.1](#).

New Cmdlets for Release 1.5.1

Managed Object (MO)	PowerShell Nouns	Get	Add	Set	Remove
adaptorMgmtVnicEthConfig	AdaptorMgmtVnicEthConfig				
adaptorRnicCapSpec	AdaptorRnicCapSpec	x			
biosVfConsistentDeviceNameControl	BiosVfConsistentDeviceNameControl	x	x		
biosVfIntelTrustedExecutionTechnology	BiosVfIntelTrustedExecutionTechnology	x	x		
biosVfPCILOMPortsConfiguration	BiosVfPCILOMPortsConfiguration	x	x		
biosVfTPMPendingOperation	BiosVfTPMPendingOperation	x	x		
biosVfTrustedPlatformModule	BiosVfTrustedPlatformModule	x	x		
equipmentBladeCapProviderTypeDef	EquipmentBladeCapProviderTypeDef	x			
equipmentLocalDiskControllerTypeDef	EquipmentLocalDiskControllerTypeDef	x			
lsIdentityInfo	LsIdentityInfo	x			
lsbootUEFIBootParam	LsbootUEFIBootParam	x	x	x	x
networkLldpNeighborEntry	NetworkLldpNeighborEntry	x			
networkLldpNeighbors	NetworkLldpNeighbors	x			
equipmentStorageControllerConfig	EquipmentStorageControllerConfig	x			

New Features for Release 1.4.1

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.4.1. For detailed information about the features listed, see the documents listed in the [Related Documentation](#) section.

- [Key Features in Release 1.4.1, page 6](#)
- [New Cmdlets for Release 1.4.1, page 6](#)

Key Features in Release 1.4.1

- Added new cmdlets for features in UCS Manager releases 2.5(1), 3.0(1), 3.0(2). For more information, see [New Cmdlets for Release 1.4.1](#).
- Support for new UCS M-Series Modular servers
- Added Update-UcsCatalogue cmdlet to update the capability catalog from a local file source
- Added Get-UcsServer cmdlet to get all the servers regardless of its form factor

New Cmdlets for Release 1.4.1

Managed Object (MO)	PowerShell Nouns	Get	Add	Set	Remove
adaptorHostScsiIf	AdaptorHostScsiIf	x			
adaptorHostScsiLunRef	AdaptorHostScsiLunRef	x			
adaptorUplinkPortStats	AdaptorUplinkPortStats	x			
biosVfASPMSupport	BiosVfASPMSupport	x		x	
biosVfCPUPowerManagement	BiosVfCPUPowerManagement	x			
biosVfDDR3VoltageSelection	BiosVfDDR3VoltageSelection	x		x	
biosVfEnhancedPowerCapping Support	BiosVfEnhancedPowerCapping Support	x		x	
biosVfPCHSATAMode	BiosVfPCHSATAMode	x		x	
biosVfQPISnoopMode	BiosVfQPISnoopMode	x		x	
computeCartridge	Cartridge	x		x	
computeInstanceIdQual	ComputeInstanceIdQual	x	x		x
computePooledEnclosureComputeSlot	ComputePooledEnclosureComputeSlot	x	x		x
computeServerUnit	ServerUnit	x		x	
equipmentPowerCapDef	EquipmentPowerCapDef	x			
equipmentServerUnitCapProvider	EquipmentServerUnitCapProvider	x			
equipmentSharedIOModule	SharedIom	x		x	
equipmentStorageLimitCap	EquipmentStorageLimitCap	x			
fabricCartridgePhEp	FabricCartridgePhEp	x		x	

fabricCartridgeSlotEp	FabricCartridgeSlotEp	x		x	
fabricComputeMSlotEp	FabricComputeMSlotEp	x		x	
fabricSubGroup	FabricSubGroup	x	x		
lsbootLocalDiskImage	LsbootLocalDiskImage	x	x	x	x
lsbootLocalDiskImagePath	LsbootLocalDiskImagePath	x	x	x	x
lsbootLocalLunImagePath	LsbootLocalLunImagePath	x	x	x	x
lstorageDasScsiLun	LogicalStorageDasScsiLun	x	x	x	x
lstorageDiskGroupConfigDef	LogicalStorageDiskGroupConfigDef	x			
lstorageDiskGroupConfigPolicy	LogicalStorageDiskGroupConfigPolicy	x	x	x	x
lstorageDiskGroupQualifier	LogicalStorageDiskGroupQualifier	x	x	x	x
lstorageLocalDiskConfigRef	LogicalStorageLocalDiskConfigRef	x	x	x	x
lstorageProfile	LogicalStorageProfile	x	x	x	x
lstorageProfileBinding	LogicalStorageProfileBinding	x	x	x	x
lstorageProfileDef	LogicalStorageProfileDef	x	x	x	x
lstorageVirtualDriveDef	LogicalStorageVirtualDriveDef	x		x	
powerProfiledPower	PowerProfiledPower	x			
storageVDMemberEp	StorageVDMemberEp	x			
storageVirtualDriveRef	StorageVirtualDriveRef	x			

New Features for Release 1.3.1

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.3.1. For detailed information about the features listed, see the documents listed in the [Related Documentation](#) section.

- [Key Features in Release 1.3.1, page 7](#)
- [New Cmdlets for Release 1.3.1, page 8](#)

Key Features in Release 1.3.1

This release contains the following changes:

- Added new cmdlets for features in UCS Manager release 2.2(3a). For more information, see [New Cmdlets for Release 1.3.1](#)
- Support for Cisco UCS Manager, Release 3.0(1) for UCS Mini.
- **Start-UcsGuiSession cmdlet** is modified to support the **-Credential** parameter. Using this parameter you can store the credential in a variable and pass it to a cmdlet.

New Cmdlets for Release 1.3.1

Managed Object (MO)	PowerShell Nouns	Get	Add	Set	Remove
adaptorEthNVGREProfile	AdaptorEthNVGREProfile	x		x	
adaptorEthRoCEProfile	AdaptorEthRoCEProfile	x		x	
adaptorEthVxLANProfile	AdaptorEthVxLANProfile	x		x	
adaptorHostPort	AdaptorHostPort	x			
adaptorHostPortCap	AdaptorHostPortCap	x			
biosVfAltitude	BiosVfAltitude	x		x	
biosVfTPMSupport	BiosVfTPMSupport	x		x	
biosVfUSBConfiguration	BiosVfUSBConfiguration	x		x	
equipmentUuidFeatureCap	EquipmentUuidFeatureCap	x			
etherNiErrStats	EtherNiErrStats	x			
etherNiErrStatsHist	EtherNiErrStatsHist	x			
firmwareImageLock	FirmwareImageLock	x			
mgmtCimcSecureBoot	MgmtCimcSecureBoot	x		x	
networkLanNeighborEntry	NetworkLanNeighborEntry	x			
networkLanNeighbors	NetworkLanNeighbors	x			
networkSanNeighborEntry	NetworkSanNeighborEntry	x			
networkSanNeighbors	NetworkSanNeighbors	x		x	
policyIdResolvePolicy	PolicyIdResolvePolicy	x		x	
topInfoPolicy	TopInfoPolicy	x			

New Features for Release 1.2.1

This section briefly describes the new features introduced in Cisco UCS Manager PowerToolUCS Manager PowerTool, Release 1.2.1. For detailed information about the features listed, see the documents listed in the “[Related Documentation](#)” section.

- [Key Features in Release 1.2.1, page 8](#)
- [New Cmdlets for Release 1.2.1, page 9](#)

Key Features in Release 1.2.1

This release contains the following changes:

- Added new cmdlets for features in UCS Manager release 2.2(2). For more information, see [New Cmdlets for Release 1.2.1](#).
- Installer enhancement, removes dependency on batch file. You can now use the shortcut file to launch a module. Title bar shows version of PowerTool and few sample cmdlets are displayed on launch screen for your ease.

- The cmdlet **Get-UcsPowerToolCommunity** launches the following Cisco UCS integrations community URL in a default web browser: <http://communities.cisco.com/ucsintegrations>
- The **ConvertTo-UcsCmdlet** is modified for pipeline support. You can pass a managed object through a pipe and the **ConvertTo-UcsCmdlet** generates corresponding cmdlets.

New Cmdlets for Release 1.2.1

Managed Object (MO)	PowerShell Nouns	Get	Add	Set	Remove
adaptorEthArfsProfile	AdaptorEthArfsProfile	x		x	
adaptorHostServiceEthIf	AdaptorHostServiceEthIf	x		x	
biosVfAllUSBDevices	BiosVfAllUSBDevices	x		x	
biosVfDRAMClockThrottling	BiosVfDRAMClockThrottling	x		x	
biosVfFRB2Timer	BiosVfFRB2Timer	x		x	
biosVfFrequencyFloorOverride	BiosVfFrequencyFloorOverride	x		x	
biosVfInterleaveConfiguration	BiosVfInterleaveConfiguration	x		x	
biosVfLLOMPortsConfiguration	BiosVfLLOMPortsConfiguration	x		x	
biosVfPCISlotLinkSpeed	BiosVfPCISlotLinkSpeed	x		x	
biosVfProcessorEnergyConfiguration	BiosVfProcessorEnergyConfiguration	x		x	
biosVfProcessorPrefetchConfig	BiosVfProcessorPrefetchConfig	x		x	
biosVfPSTATECoordination	BiosVfPSTATECoordination	x		x	
biosVfQPILinkFrequencySelect	BiosVfQPILinkFrequencySelect	x		x	
biosVfScrubPolicies	BiosVfScrubPolicies	x		x	
biosVfUSBPortConfiguration	BiosVfUSBPortConfiguration	x		x	
biosVfVGAPriority	BiosVfVGAPriority	x		x	
cimcvmediaActualMountEntry	CimcvmediaActualMountEntry	x			
cimcvmediaActualMountList	CimcvmediaActualMountList	x			
cimcvmediaConfigMountEntry	VmediaMountEntry	x	x	x	x
cimcvmediaExtMgmtRuleEntry	CimcvmediaExtMgmtRuleEntry	x			
cimcvmediaMountConfigDef	VmediaDefinition	x	x	x	x
cimcvmediaMountConfigPolicy	VmediaPolicy	x	x	x	x
computeBoardConnector	ComputeBoardConnector	x			
computeExtBoard	ComputeExtBoard	x			
computeKvmMgmtPolicy	ComputeKvmMgmtPolicy	x	x	x	x
dcxFcoeVifEp	DcxFcoeVifEp	x			
equipmentBladeAggregationCapRef	EquipmentBladeAggregationCapRef	x			

equipmentCimcVmedia	EquipmentCimcVmedia	x			
equipmentFlashLife	EquipmentFlashLife	x			
equipmentKvmMgmtCap	EquipmentKvmMgmtCap	x			
equipmentPhysDevicesPerBoard	EquipmentPhysDevicesPerBoard	x			
fabricLacpPolicy	FabricLacpPolicy	x	x	x	x
firmwareUcscInfo	FirmwareUcscInfo	x			
mgmtBackupExportExtPolicy	MgmtBackupExportExtPolicy	x		x	
mgmtBackupPolicyConfig	MgmtBackupPolicyConfig	x			
storageMezzFlashLife	StorageMezzFlashLife	x			
sysdebugLogExportPolicy	SysdebugLogExportPolicy	x		x	
sysdebugLogExportStatus	SysdebugLogExportStatus	x			

New Features for Release 1.1.2

This release contains the following changes:

- No confirmation message when all cmdlets within transaction has a force flag
- Convertto-UcsCmdlet does not generate empty parameter values in -XtraProperty, empty values are generated as regular parameter or value
- The **Get-Module -Name CiscoUcsPs** cmdlet now shows the correct PowerTool version.
- No prompt appears for generic set or remove cmdlets if they are in a transaction.
- Convertto-UcsCmdlet generates Dn for generic Add cmdlet as it is a mandatory parameter
- Support for the following cmdlets:
 - **Get-UcsFabricEthLinkProfile**
 - **Set-UcsVnicIscsiBootParams**
 - **Add-UcsAaaEpUser/Remove-UcsAaaEpUser**
 - **Set-UcsIom**
- No need to pass the UcsHandle for Import-UcsMoXml cmdlet
- Compare-UcsManagedObject cmdlet skips auto created MO's
- Convertto-UcsCmdlet validates property having empty value before generation

New Features for Release 1.1.1

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.1.1. For detailed information about the features listed, see the documents listed in the [“Related Documentation”](#) section.

- [Key Features in Release 1.1.1, page 11](#)
- [New Cmdlets for Release 1.1.1, page 11](#)

Key Features in Release 1.1.1

Cisco UCS Manager PowerTool, Release 1.1.1, includes the following new key features:

- Added new cmdlets for Cisco UCS Manager release 2.2. For more information, see [New Cmdlets for Release 1.1.1](#).
- Support for IPv6:
 - Allows connectivity to UCS Manager using IPv6 addresses.
 - Allows access to external facing client applications, such as scp, ftp, tftp, ntp, dns, and so on. Also, allow access to external facing services, such as sshd, httpd, snmpd, and so on, over IPv6 addresses.
- **Start-UcsGuiSession** can now handle **UcsHandle/UcsStatus** as pipeline inputs. If there is no connection to the UCS, start the GUI by providing the UCS Manager IP or name as a parameter to the **Start-UCSGuiSession** cmdlet. If there is a connection to the UCS, no credentials are required. The cmdlet generates a token and uses it.
- Some auto generated Managed Objects (MO) executed with errors while performing a compare or Sync on UCS MOs. The cmdlet is modified to resolve these issues in this release.
- When multiple Set or Remove cmdlets were being used in a transaction, prompting for individual cmdlets failed to occur. This issue has been fixed and now you get prompts for each cmdlet.

New Cmdlets for Release 1.1.1

Managed Object (MO)	PowerShell Nouns	Get	Add	Set	Remove
equipmentAdvancedBootOrder	UcsEquipmentAdvancedBootOrder	x			
equipmentSecureBoot	UcsEquipmentSecureBoot	x			
equipmentTpm	UcsEquipmentTpm	x			
equipmentTpmCapProvider	UcsEquipmentTpmCapProvider	x			
mgmtIPv6IfConfig	UcsMgmtIPv6IfConfig	x			
mgmtProfDerivedInterface	UcsMgmtProfDerivedInterface	x			
storageFlexFlashCard	UcsStorageFlexFlashCard	x			
storageFlexFlashController	UcsStorageFlexFlashController	x			
storageFlexFlashDrive	UcsStorageFlexFlashDrive	x			
storageFlexFlashVirtualDrive	UcsStorageFlexFlashVirtualDrive	x			
extvmmFNDRReference	UcsNetworkSiteReference	x			
extvmmVMNDRef	UcsNetworkSegmentReference	x	x		x
ippoolIpV6Block	UcsIppoolIpV6Block	x	x		x
vnicUsnicConPolicyRef	UcsVnicUsnicConPolicyRef	x	x		x
vnicVmqConPolicyRef	UcsVnicVmqConPolicyRef	x	x		x
computeFwSyncAck	UcsComputeFwSyncAck	x		x	
computeMemoryConfigPolicy	UcsComputeMemoryConfigPolicy	x		x	
computeMemoryConfiguration	UcsComputeMemoryConfiguratio n	x		x	

extmgmtNdiscTargets	UcsExtmgmtNdiscTargets	x		x	
firmwareAutoSyncPolicy	UcsFirmwareAutoSyncPolicy	x		x	
mgmtIPv6IfAddr	UcsMgmtIPv6IfAddr	x		x	
mgmtInbandProfile	UcsMgmtInbandProfile	x		x	
extvmmFabricNetwork	UcsFabricNetwork	x	x	x	x
extvmmFabricNetworkDefinition	UcsNetworkSite	x	x	x	x
extvmmUpLinkPP	UcsUpLinkPortProfile	x	x	x	x
extvmmVMNetwork	UcsVmNetwork	x	x	x	x
extvmmVMNetworkDefinition	UcsNetworkSegment	x	x	x	x
fabricUlldLinkPolicy	UcsFabricUlldLinkPolicy	x	x	x	x
ipDnsSuffix	UcsIpDnsSuffix	x	x	x	x
ipIPv4WinsServer	UcsIpIPv4WinsServer	x	x	x	x
lsbootBootSecurity	UcsLsbootBootSecurity	x	x	x	x
lsbootDefaultLocalImage	UcsLsbootDefaultLocalImage	x	x	x	x
lsbootLocalHddImage	UcsLsbootLocalHddImage	x	x	x	x
lsbootSan	UcsLsbootSan	x	x	x	x
lsbootSanCatSanImage	UcsLsbootSanCatSanImage	x	x	x	x
lsbootSanCatSanImagePath	UcsLsbootSanCatSanImagePath	x	x	x	x
lsbootUsbExternalImage	UcsLsbootUsbExternalImage	x	x	x	x
lsbootUsbFlashStorageImage	UcsLsbootUsbFlashStorageImage	x	x	x	x
lsbootUsbInternalImage	UcsLsbootUsbInternalImage	x	x	x	x
mgmtInterface	UcsMgmtInterface	x	x	x	x
mgmtVnet	UcsMgmtVnet	x	x	x	x
vnicIpV6MgmtPooledAddr	UcsVnicIpV6MgmtPooledAddr	x	x	x	x
vnicIpV6StaticAddr	UcsVnicIpV6StaticAddr	x	x	x	x
vnicUsnicConPolicy	UcsVnicUsnicConPolicy	x	x	x	x
vnicVmqConPolicy	UcsVnicVmqConPolicy	x	x	x	x
vnicIpV4MgmtPooledAddr	UcsVnicIpV4MgmtPooledAddr	x	x	x	x

New Features for Release for 1.0.1

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.0.1. For detailed information about the features listed, see the documents listed in the “[Related Documentation](#)” section.

- [Key Features in Release 1.0.1, page 13](#)
- [Related Documentation, page 17](#)

Key Features in Release 1.0.1

Cisco UCS Manager PowerTool, Release 1.0.1, includes the following new key features:

- Support for generating PowerTool cmdlets for the configuration present in the UCS *Backup.xml* file. For example, **ConvertTo-UcsCmdlet -UcsBackup -Path C:\backup.xml -OutputPath C:\PowerToolScript.txt**.
- Support for storing jnlp file and enable logging when using Start-UcsGuiSession cmdlets. For example, **Start-UcsGuiSession -LogAllXml**.

New Features for Release 1.0

This section briefly describes the new features introduced in Cisco UCS Manager PowerTool, Release 1.0. For detailed information about the features listed, see the documents listed in the “[Related Documentation](#)” section.

- [Key Features in Release 1.0, page 13](#)
- [PowerShell Functionality, page 14](#)
- [New Cmdlets, page 14](#)
- [New Generated Cmdlets, page 14](#)
- [New Functionality for Release 1.0, page 14](#)

Key Features in Release 1.0

Cisco UCS Manager PowerTool, Release 1.0, includes the following new key features:

- Stateful connection management to multiple Cisco UCS Manager systems in parallel
- Firmware upgrade support
- Support for creating and downloading technical support information
- Support for backing up Cisco UCS Manager configuration
- Support for importing Cisco UCS Manager configuration
- Support for launching a GUI session of Cisco UCS Manager from PowerTool
- Support for launching a KVM session of a server from PowerTool
- Support for monitoring an event stream of Cisco UCS Manager
- Support for comparing and synchronizing configurations within or between Cisco UCS Manager sessions
- Support for generating PowerTool cmdlets automatically when performing the equivalent operation on Cisco UCS Manager GUI (ConvertTo-UcsCmdlet)
- Support for transactions
- Support for registration of Cisco UCS Manager with Cisco UCS Central
- Service profile management (create/modify/delete/associate)
- Log viewing and management
- Server power management
- Full inventory management

- Raw XML input and output capability

PowerShell Functionality

Cisco UCS Manager PowerTool, Release 1.0 includes the following PowerShell functionality:

- Fully object based
- Command pipelining support
- Inline help (get-help) support
- Standard verb implementation

New Cmdlets

Cisco UCS Manager PowerTool, Release 1.0, includes the following new cmdlets:

- Register-UcsCentral—Registers a Cisco UCS domain with Cisco UCS Central.
- Unregister-UcsCentral—Unregisters a Cisco UCS domain with Cisco UCS Central.
- Rename-UcsServiceProfile—Renames a service profile.
- Export-UcsMoXml—Exports Managed Object XML.
- Import-UcsMoXml—Imports XML and converts into objects.

New Generated Cmdlets

Cisco UCS Manager PowerTool, Release 1.0, includes 184 new cmdlets from Cisco UCS Manager, Release 2.1 Schema.

New Functionality for Release 1.0

Cisco UCS Manager PowerTool, Release 1.0 includes the following enhancements:

- Added support for configConfRename in ConvertTo-UcsCmdlet.
- Ability to fetch all naming property values from RN in case they are not available in XML in ConvertTo-UcsCmdlet.
- Modified ConvertTo-UcsCmdlet to put properties having value null in -XtraProperties.
- Added support for input parameter regex validation.
- Added a missing verb set for VnicIPv4PooledIscsiAddr.

Known Limitations

This section lists the known limitation for Cisco UCS Manager PowerTool

- On launching UCS Manager HTML 5 GUI, no logs are created. Therefore, **Convertto** cmdlet does not work.
- Limitations of Using PowerTool, Release 1.3(1) With Cisco UCS Manager Release 3.0(1) for UCS Mini

Cisco UCS Manager PowerTool release 1.3.1 can be used to automate tasks for managing the Cisco UCS Mini platform. However, it does not have cmdlets for the following Managed Objects introduced for Cisco UCS Fabric Interconnect 6324 in Cisco UCS Manager, Release 3.0(1) for UCS Mini:

- equipmentBladeSwitchConnDef
- equipmentPortCap
- equipmentPowerCapDef
- equipmentSwitchIOCard
- equipmentSwitchIOCardCapProvider
- equipmentSwitchTypeDef
- fabricSubGroup
- fabricSwSubGroup
- featureContextEp
- featureDefinition
- featureDefinitionInstance
- featureDefinitionRef
- featureFruCapProviderInstance
- featureFruCapProviderRef
- featureProvider
- featureProviderInstance
- firmwareImageLock
- firmwarePlatformBundleTypeCapProvider
- firmwareUcscInfo
- iqnpoolTransportBlock
- portSubGroup
- powerProfiledPower
- swSubGroup

You can use generic cmdlets: *Get-UcsManagedObject* and *Set-UcsManagedObject* to manage these objects.

Resolved Caveats

This section lists the resolved caveats for UCS Manager PowerTool.

Table 2 Resolved Caveats

Bug ID	Description	First Release Affected	Resolved in Release
CSCux41733	The ConvertTo-UcsCmdlet does not work on Windows 10 when the parameters are set to default	1.5(2) and before	1.5(3)
CSCuq76318	Fixed issues with the Get-UcsCcoImageList cmdlet. The value was either too large or too small for a UInt32.	1.2(1)	1.3(1)
CSCun01525	Fix for the Java 7 Update 45 issue with UCS Manager GUI results in breaking the cmdlet generation while using the ConvertTo-UcsCmdlet .	1.1(1)	1.2(1)
CSCuh42325	PowerTool Notes - links to middle of User Guide (and not top)	1.0(1)	1.2(1)
CSCuh26843	Add missing verb for generated cmdlet (Set for ExtmgmtMiiStatus, Get or Set for FabricFcoeVsanPc, Add for lsVConAssign)	1.0(1)	1.1(1)
CSCuh42317	User Guide does not mention Start-UcsGuiSession	1.0	1.0(1)

Open Caveats

Open caveat is provided in the following release-specific table:

Open caveats may be listed in association with the release in which they were first noticed or in the release identified as the first affected. We recommend to review open caveats in all releases to avoid overlooking a defect that may impact their release.

The following caveat is open in Release 1.5(3):

Table 3 Open Caveat in Release 1.5(3)

Defect ID	Symptom	Workaround	First Bundle Affected
CSCux63129	On some operating systems Cisco UCS Manager PowerTool fails to launch and throws the following error: "The Module '%PowerToolInstallPath\CiscoUcsPS%' could not be loaded"	Reboot or Log-off after installing Cisco UCS Manager PowerTool to update the environment variables.	1.5(3) and before

The following caveat is open in Release 1.4(1):

Table 4 Open Caveat in Release 1.4(1)

Defect ID	Symptom	Workaround	First Bundle Affected
CSCut84285	Get-UcsCcoImageList cmdlet does not display the list of all the images for Cisco UCS M-Series servers	Download the required images manually from Cisco.com for Cisco UCS M-Series servers.	1.4(1)

Related Documentation

For more information, you can access related documents from the following links:

- [Cisco UCS Manager PowerTool, User Guide](#)
- [Cisco UCS Documentation Roadmap](#)

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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