



Lenovo XClarity Integrator for VMware vCenter Release Notes

Version 4.0



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Note

Before using this information and the product it supports, read the information in "Notices" on page 9.

Edition notice

This edition applies to version 4.0 of the Lenovo XClarity Integrator for VMware vCenter and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this publication

These Release Notes® provide the latest information for the IBM® XClarity Integrator for VMware vCenter, version 4.0. Lenovo XClarity Integrator is used to acquire system information, update firmware, monitor power usage, manage predicted failures, and change advanced system settings in a VMware vCenter management environment.

Conventions and terminology

This topic provides information about conventions and terminology used in these release notes.

Note: These notices provide important tips, guidance, or advice.

Important: These notices provide information or advice that might help you avoid inconvenient or difficult situations.

Attention: These notices indicate possible damage to programs, devices, or data. An attention notice appears before the instruction or situation in which damage can occur.

The following table describes some of the terms, acronyms, and abbreviations used in this document.

Table 1. Frequently used terms and acronyms

Term/Acronym	Definition
ASU	Advanced Settings Utility
DSA	Lenovo Dynamic System Analysis
IMM	Integrated Management Module
PFA	Predictive Failure Alert
UXSP	UpdateXpress System Packs
UXSPi	UpdateXpress System Package Installer
LXCA	Lenovo XClarity Administrator
LXCI	Lenovo XClarity Integrator

Information resources

This topic provides additional information about Lenovo XClarity Integrator for VMware vSphere, version 4.0 that is available on the World Wide Web.

You can find additional information about Lenovo XClarity Integrator for VMware vCenter, version 4.0 in the product documentation and on the World Wide Web.

World Wide Web resources

The following web pages provide resources for understanding, using, and troubleshooting IBM System x, Flex System, Lenovo BladeCenter servers, and systems-management tools.

Lenovo XClarity Integrator for VMware vCenter site

Lenovo XClarity Integrator for VMware vCenter site

Locate the latest downloads for the Lenovo XClarity Integrator for VMware vSphere.

IBM Systems Technical support site

IBM Systems Technical support site

Locate support for IBM hardware and systems-management software.

IBM Systems Management Software: Download Software Registration site

IBM Systems Management Software: Download/Registration site

Download IBM systems-management software, including IBM Systems Director.

System Management with Lenovo XClarity Solution

System Management with Lenovo XClarity Solution site

This website provides an overview of Lenovo XClarity solution which integrates into System x M5 and M6, as well as Flex System to provide system management capability.

IBM System x[®] ServerProven[®], Flex System ServerProven, and BladeCenter[®] ServerProven sites

System x ServerProven site

BladeCenter ServerProven site

Flex System ServerProven site

Obtain information about hardware compatibility with IBM System x, Flex system, Lenovo BladeCenter, and IBM IntelliStation[®] hardware.

VMware vCenter Product Family site

VMware vCenter Product Family site

Lenovo Custom image for EXSi site

[https://my.vmware.com/web/vmware/info/slug/
datacenter_cloud_infrastructure/vmware_vsphere/5_1#custom_iso](https://my.vmware.com/web/vmware/info/slug/datacenter_cloud_infrastructure/vmware_vsphere/5_1#custom_iso)

Chapter 1. About this release

The topics in this section provide information about Version 4.0 of the Lenovo XClarity Integrator for VMware vCenter.

What is new in this release

This topic provides information about new and enhanced features of Lenovo XClarity Integrator for VMware vCenter version 4.0.

Access Control

This function provides role based access control to all Lenovo XClarity Integrator features.

Integrate with Lenovo LXCA

This function provides support manage your servers align with LXCA, conveniently configuration your server via configuration pattern, view your hardware hierarchy in Lenovo infrastructure, Chassis Map, launch to IMM remote console.

Multiple language support

This function provides English (US), Chinese (Simplified), French (France), German, Japanese, and Korean language support.

Predictive Failure management

This function provides support for flexible control on actions in response to Predictive failures and extends Predictive failure management support to legacy IBM System x servers in a new user interface.

Support for VMware vCenter Server Appliance

Lenovo XClarity Integrator for VMware vCenter version 4.0 adds support for VMware vCenter Server Appliance.

Support for additional Lenovo System x servers

Lenovo XClarity Integrator for VMware vCenter version 4.0 adds support for new Lenovo servers. For complete support list, see the *Lenovo XClarity Integrator for VMware vCenter Installation and User's Guide*.

Premium features

The following features are fee-based functions that are enabled if you purchase an activation license. You can purchase an activation license by contacting your Lenovo representative or an Lenovo Business Partner.

Dashboard

The Dashboard provides an overview of the host status, including a system information summary and system health messages.

The Dashboard provides an overview of the selected host or cluster. The summary information displayed includes overall resource utilization, hosts health messages and connection status. It also displays IMM information for each host and allows you to launch the IMM console directly.

Dynamic System Analysis

The Dynamic System Analysis (DSA) collects and analyzes system information to help diagnose system problems.

Firmware update

The Firmware update function acquires and applies Lenovo UpdateXpress System Packs (UXSPs) and individual updates to your ESXi system. The Rolling System Update function provides the non-disruptive system update with zero downtime, it automates the update process of the hosts in a cluster environment without any workload interruption, it supports updating multiple hosts concurrently to save your time.

Power Metric

Power Metric monitors and provides a summary of power usage, thermal history, and fan speed, in addition to a trend chart of the managed host. The Power Metric function is either manually enabled or disabled on a host. You can also set the power capping for a power-capping capable host to limit the server power usage. The power throttling function is supported and provides notification if the server power usage exceeds the value you set.

Advanced Settings

The Advanced Settings Utility manages the current system settings on the host, including IMM, uEFI, and boot order settings for the host.

Predictive failure management

Predictive failure management monitors the server hardware status and receives predictive failure alerts. You can set a management policy for a server based on a predictive failure alert. Based on the policy you set, Lenovo XClarity Integrator for VMware vCenter will either evacuate VMs from the host or notify you. Predictive failure management is manually enabled or disabled on a host.

Rolling System Update function

The Rolling System Update (RSU) function updates the firmware in a single batch while the system continues running without interruption to application services on a server host. The Rolling System Update (RSU) provides an approach of non-disruptive firmware updates. It fully manages firmware by orchestrating "rolling" updates leveraging dynamic virtual machine movement within a defined VMware cluster, and completing the whole update process including host reboot automatically without any workload interruption.

Rolling System Reboot

Rolling System Reboot (RSR) provides a task manager that helps you manage rolling reboot tasks. A task contains all of the information and options for a rolling reboot.

LXCA Integration

LXCA Integration provides a convenient method of utilizing the features of LCXA, such as Lenovo Infrastructure hierarchy view, the deployment configuration pattern, the graphic view of Chassis Map, the OS remote present, and the IMM remote console.

Chapter 2. Known limitations, problems, and workarounds

The following limitations, problems, and workarounds are applicable to the Lenovo XClarity Integrator for VMware vCenter, version 4.0.

Limitations

The following limitations are applicable to the Lenovo XClarity Integrator for VMware vCenter, version 4.0.

Launching Remote Control feature in Chassis Map that pops up the login page of Lenovo XClarity Administrator in new window

Symptom

If you launch the Remote Control feature in Chassis Map without logging in to Lenovo XClarity Administrator, the login page of Lenovo XClarity Administrator displays in new window.

Description

If you are not logged in to Lenovo XClarity Administrator before launching Remote Control in Chassis Map, the login page of Lenovo XClarity Administrator displays in a new window. However, the new window will not automatically skip to the Remote Control window after you enter your account and login.

Action

After logging in to Lenovo XClarity Administrator, return to the Chassis Map and click **Launch Remote Control** again.

Lenovo XClarity Integrator for VMware vCenter fails to get configuration settings

Symptom

If you are working with a server and try to view the Configuration Tab, there might be a message box to tell that the operation failed.

Description

A server needs several minutes to prepare the configuration data, therefore when you just start your server, the Lenovo XClarity Integrator for VMware vCenter would fail to get them.

Action

Wait several minutes after starting a server, then refresh this page.

Lenovo XClarity Integrator for VMware vCenter might not work correctly if your ESXi is started from a USB device which is installed on another server

Symptom

ESXi can be started from a USB device; however, if your USB device is moved to another system, and you start your server from this USB device, the server may not work correctly with Lenovo XClarity Integrator.

Description

This issue occurs when the EXSI recorded information is not consistent with its Integrate Management Module.

Action

Reset your System Configuration or reinstall ESXi on your server.

Predictive failure management does not work on some Lenovo servers with management policy set.

Symptom

Predictive failure management is enabled and management policy is set, however some Predictive Failure Alert (PFA) indications never appear, and the management policy cannot be launched.

Description

This issue is a limitation of some Lenovo servers. Because predictive failure management relies on hardware PFA capability, when the server does not have the capability to generate PFA indications, then the user defined management policy cannot be triggered.

Lenovo XClarity Integrator for VMware vCenter does not display the fan speed and thermal information for blade servers.

Symptom:

If you are working with a blade server and try to view the power metric, the fan speed and thermal information entries are blank.

Description:

A blade server does not have a fan or thermal sensor, therefore the fan speed and thermal information entries are blank.

Lenovo XClarity Integrator for VMware vCenter allows you to enter some of the IMM/uEFI settings, although these settings are not supported.

Symptom:

Some of the IMM/uEFI settings are not supported. However, the input controls are not disabled, and you can still enter text.

Description:

Lenovo XClarity Integrator for VMware vCenter uses a symbol to indicate which settings are currently not supported on the host. The text that is entered is not saved.

The lists of unsupported IMM/uEFI settings are disabled until you hover over them with a mouse.

Symptom:

Some of the IMM/uEFI settings are not supported on the host. By default, the lists of these settings are not disabled until you hover over them with a mouse.

Description:

Lenovo XClarity Integrator for VMware vCenter uses a symbol to indicate which settings are currently not supported on the host. You cannot select the lists for these settings.

Lenovo XClarity Integrator for VMware vCenter displays a warning stating there is a "script error" when you switch between pages too quickly.

Symptom:

If the page you are viewing has not completely loaded and you try to open another page, Lenovo XClarity Integrator for VMware vCenter displays a warning stating there is a "script error."

Description:

The page-loading operation on the current page is not complete. Trying to access another page interrupts this operation and may

cause this error. It is best to complete the current operation and allow the page to load completely before accessing another page.

Lenovo XClarity Integrator for VMware vCenter displays a warning stating "an error has occurred in a script on this page" when initially loading Lenovo XClarity Integrator for VMware vCenter with vSphere Client.

Symptom:

If this is the first time you access Lenovo XClarity Integrator tab with vSphere Client, Lenovo XClarity Integrator for VMware vSphere might display a warning stating an error has occurred in a script on this page.

Description:

The error displays, Permission denied. Select **Yes** to continue running script on this page, and then click **Lenovo XClarity Integrator** again to load this page. The page will display normally.

Lenovo XClarity Integrator for VMware vCenter cannot be accessed by blind and visually impaired computer users.

Symptom:

Buttons on the Lenovo XClarity Integrator for VMware vCenter graphical user interface cannot be read correctly by the screen reading program used by blind and visually impaired computer users.

Description:

This issue is a limitation of DOJO that used to develop the Lenovo XClarity Integrator for VMware vSphere user interface. The DOJO button cannot be read correctly by the screen reading program.

The installation program cannot roll back when you cancel the uninstallation process.

Symptom:

If you cancel the uninstallation process after it begins, Lenovo XClarity Integrator for VMware vSphere cannot roll back uninstalled components.

Description:

This issue is a limitation of the Lenovo XClarity Integrator for VMware vCenter installation program.

Action:

Start the Lenovo XClarity Integrator for VMware vCenter installation program and completely uninstall the software. Then, install Lenovo XClarity Integrator for VMware vCenter again.

Lenovo XClarity Integrator for VMware vCenter keeps three years of Power® and Cooling history data

Symptom

Lenovo XClarity Integrator for VMware vCenter keeps three years of power and cooling history data and automatically removes the old data from the database.

Description

Lenovo XClarity Integrator for VMware vCenter collects power and cooling data for all of the hosts with Host Monitoring enabled. In order to improve the performance of vCenter, Lenovo XClarity

Integrator for VMware vCenter keeps three years of the history data and automatically removes the old data.

Lenovo XClarity Integrator for VMware vCenter may download a greater number of update packages from the IBM website than you initiated.

Symptom

When you download updates from an IBM website, the number of update packages that are downloaded may be greater than the number you specified.

Description

Each update package may have prerequisite packages, and Lenovo XClarity Integrator for VMware vSphere downloads those as well. The package number that is downloading is displayed on the download page and might display more than the number of updates that you initiated.

Known problems and workarounds

The following known problems and workarounds are applicable to the Lenovo XClarity Integrator for VMware vCenter, version 4.0.

Lenovo XClarity Integrator for VMware vCenter can't manage Lenovo Servers running Lenovo customized ESXi 5.x

Description

For new Lenovo System x servers (or legacy Lenovo and IBM System x servers that upgraded to the latest Lenovo firmware) running Lenovo customized ESXi 5.x, user can not use Lenovo XClarity Integrator for VMware vCenter to collect inventory, update firmware and configure settings etc.

Workaround

Install the latest patches for Lenovo customized ESXi5.x from IBM FixCentral.

Setting the boot order failed

If you change the boot order and click Save button in Configuration tab, it may fail to save your changes with error log:

The requested object could not be found. The CIM Class does exist, but the requested CIM Instance does not exist in the specified namespace.

Workaround

To correct this error, do the following:

1. Disable brcm provider

```
~ # esxcli system settings advanced list | grep brcm
Path: /UserVars/CIMvmw_brcmProviderEnabled
Description: Enable or disable the CIM vmw_brcm provider
~ # esxcli system settings advanced set -o /UserVars/CIMvmw_brcmProviderEnabled -i 0
```

2. Restart sfcdb

```
~ # /etc/init.d/sfcdb-watchdog restart
```

3. Change your boot order and save

4. Enable brcm provider

```
~ # esxcli system settings advanced set -o /UserVars/CIMvmw_brcmProviderEnabled -i 1
```

5. Restart sfcdb

```
~ # /etc/init.d/sfcdb-watchdog restart
```

Lenovo XClarity Integrator for VMware vCenter failed to request a ticket from the vCenter server for the target host.

Sometimes the error message

Failed to request ticket from vCenter server

is displayed when you are working with Lenovo XClarity Integrator for VMware vCenter.

Workaround

Check the target ESXi host status and make sure that the connection between the ESXi host and vCenter is not lost. Then, restart the vSphere client.

Changing the Installation path when upgrading Lenovo XClarity Integrator for VMware vCenter causes history data loss.

Description

If you change the installation path during a Lenovo XClarity Integrator for VMware vCenter upgrade, Lenovo XClarity Integrator for VMware vSphere is unable to use some historical data, such as diagnostic history and the history firmware update repository.

Workaround

Copy the contents of the webroot\bin\data directory from the previous installation path to the new installation path.

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Important notes

Processor speed indicates the internal clock speed of the microprocessor; other factors also affect application performance.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1 024 bytes, MB stands for 1 048 576 bytes, and GB stands for 1 073 741 824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1 000 000 bytes, and GB stands for 1 000 000 000 bytes. Total user-accessible capacity can vary depending on operating environments.

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