



# Lenovo Upward Integration for VMware vSphere Release Notes

*Version 3.6*





# Lenovo Upward Integration for VMware vSphere Release Notes

*Version 3.6*

**Note**

Before using this information and the product it supports, read the information in "Notices" on page 7.

**Edition notice**

This edition applies to version 3.6 of the Lenovo Upward Integration for VMware vSphere and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this publication

These Release Notes<sup>®</sup> provide the latest information for the IBM<sup>®</sup> Upward Integration for VMware vSphere, version 3.6. Lenovo Upward Integration 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.

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## 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





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## Information resources

This topic provides additional information about Lenovo Upward Integration for VMware vSphere, version 3.6 that is available on the World Wide Web.

You can find additional information about Lenovo Upward Integration for VMware vSphere, version 3.6 in the product documentation and on the World Wide Web.

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## 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 Upward Integration for VMware vSphere site**

Lenovo Upward Integration for VMware vSphere site

Locate the latest downloads for the Lenovo Upward Integration 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.

### **IBM Systems Management site**

IBM System x<sup>®</sup> Systems Management site

This page provides an overview of IBM Systems Management using IBM Director Agent or IBM Director Core Services.

### **IBM System x ServerProven<sup>®</sup>, Flex System ServerProven, and BladeCenter<sup>®</sup> 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<sup>®</sup> hardware.

## **VMware vCenter Product Family site**

VMware vCenter Product Family site

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## Chapter 1. About this release

The topics in this section provide information about Version 3.6 of the Lenovo Upward Integration for VMware vSphere.

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### What is new in this release

This topic provides information about new and enhanced features of Lenovo Upward Integration for VMware vSphere version 3.6.

#### **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.

#### **Support for VMware vCenter Server Appliance**

Lenovo Upward Integration for VMware vSphere version 3.6 adds support for VMware vCenter Server Appliance.

#### **Support for additional Lenovo System x servers**

Lenovo Upward Integration for VMware vSphere version 3.6 adds support for new Lenovo servers. For complete support list, see the *Lenovo Upward Integration for VMware vSphere Installation and User's Guide*.

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### 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 Upward Integration for VMware vSphere will either evacuate VMs from the host or notify you. Predictive failure management is manually enabled or disabled on a host.

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## Chapter 2. Known limitations, problems, and workarounds

The following limitations, problems, and workarounds are applicable to the Lenovo Upward Integration for VMware vSphere, version 3.6.

### Limitations

The following limitations are applicable to the Lenovo Upward Integration for VMware vSphere, version 3.6.

**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 Upward Integration for VMware vSphere 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 Upward Integration for VMware vSphere 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 Upward Integration for VMware vSphere 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 Upward Integration for VMware vSphere uses a symbol to

indicate which settings are currently not supported on the host.  
You cannot select the lists for these settings.

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

**Symptom:**

If this is the first time you access Lenovo Upward Integration tab with vSphere Client, Lenovo Upward Integration 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 Upward Integration** again to load this page. The page will display normally.

**Lenovo Upward Integration for VMware vSphere cannot be accessed by blind and visually impaired computer users.**

**Symptom:**

Buttons on the Lenovo Upward Integration for VMware vSphere 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 Upward Integration 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 Upward Integration for VMware vSphere cannot roll back uninstalled components.

**Description:**

This issue is a limitation of the Lenovo Upward Integration for VMware vSphere installation program.

**Action:**

Start the Lenovo Upward Integration for VMware vSphere

installation program and completely uninstall the software. Then, install Lenovo Upward Integration for VMware vSphere again.

### **Lenovo Upward Integration for VMware vSphere keeps three years of Power® and Cooling history data**

#### **Symptom**

Lenovo Upward Integration for VMware vSphere keeps three years of power and cooling history data and automatically removes the old data from the database.

#### **Description**

Lenovo Upward Integration for VMware vSphere collects power and cooling data for all of the hosts with Host Monitoring enabled. In order to improve the performance of vCenter, Lenovo Upward Integration for VMware vSphere keeps three years of the history data and automatically removes the old data.

### **Lenovo Upward Integration for VMware vSphere 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 Upward Integration 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 Upward Integration for VMware vSphere, version 3.6.

### **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 Upward Integration for VMware vSphere 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 Upward Integration for VMware vSphere.

**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 Upward Integration for VMware vSphere causes history data loss.**

**Description**

If you change the installation path during a Lenovo Upward Integration for VMware vSphere upgrade, Lenovo Upward Integration 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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