

Flash Management Console 3.15.0

Release Notes

Table of Contents

Table of Contents	ii
Overview	1
Introduction	1
What's new in this release	1
System Requirements	2
Flash Management Console Application Server	2
Flash Management Console Application Agent	2
Supported Browsers	2
Display for Flash Management Console Application Browser User Interface	2
Adobe Flash Player	2
Windows Operating Systems	2
Linux Distributions	3
VMware Support	3
Change Log	4
Known Issues	5

Overview

Introduction

These release notes describe the details concerning the Flash Management Console 3.15.0 release, including known issues that may be encountered while using this product.

What's new in this release

New features and functionality in this release include:

- Support for SLES 12
- Bug Fixes

System Requirements

The following levels of software and hardware are required to run Flash Management Console.

Flash Management Console Application Server

- A single instance of the Flash Management Console server runs on a centralized server
- RAM: 4GB plus 64MB of free RAM for each High IOPS and io3 Flash Adapters module managed
- Storage: Up to 200MB minimum hard drive space plus up to 60MB additional space for each High IOPS and io3 Flash Adapters module

Flash Management Console Application Agent

- The Flash Management Console Application agent can be installed on multiple servers and connect to the centralized Flash Management Console Application server.
- RAM: Minimum of 64MB of free RAM on the agent host.

Supported Browsers

The Flash Management Console Application user interface runs in one of the following supported web browsers:

- Mozilla Firefox 30 and later
- Microsoft Internet Explorer 10, 11
- Google Chrome 36 and later

Display for Flash Management Console Application Browser User Interface

1024 x 768 or greater

Adobe Flash Player

For an optimal viewing experience, we recommend that you install the latest version of Adobe Flash Player 11 or above.

Windows Operating Systems

The Flash Management Console Agent and Server run on the following Windows distributions:

- Microsoft Windows Server 2008 R2 64-Bit, all versions (with SP1 or higher)
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012 R2

Linux Distributions

The Flash Management Console Agent and Server support the following Linux distributions:

- Red Hat Enterprise Linux 5, 6, 7
- SUSE Linux Enterprise Server (SLES) 10, 11, 12

VMware Support

There is no agent that runs on vCenter or ESX/ESXi servers. Flash Management Console support for vCenter and ESXi is provided through the IBM FlashCache Storage Accelerator. Download and deploy IBM_FCSA_Virtual-2.2.3.***.ova from your vCenter to install the plug-in for the VMware environment.

The Flash Management Console OVA is available for all VMware supported versions of vCenter 5.0, 5.1, 5.5.

Attention!

Use of the vSphere Web Client is only supported with vCenter 5.5.







The Flash Management Console plug-in is supported on ESXi 5.0, 5.0 U1, 5.0 U2, 5.0 U3, 5.1, 5.1 U1, 5.1 U2, 5.5, 5.5 U1.

Attention!

IBM's ESXi 5.0 U2 Custom Image is not supported.












Change Log















This section describes several changes from the previous release of Flash Management Console.

Platform	Issue
	Fixed a problem with changing the host name of the Flash Management Console.
	Fixed a problem where the hostname was not displaying on the caches alert grid.
	Added additional diagnostic support to Flash Management Console.
	Fixed memory leak issues in the agent.
	Fixed a problem with the display of the tab bar in the Flash Management Console GUI.
	Fixed an issue where, on firmware upgrades, all devices were listed as busy or unavailable.

Known Issues

This section describes several issues you may encounter when using the Flash Management Console 3.15.0 release.

Platform	Issue
	Labels applied to devices do not filter devices correctly.
	Microsoft driver certifications are no longer provided for Windows Server 2008. Flash Management Console Application will still run correctly on Windows Server 2008, but Microsoft certificates will not be installed on the machine.
	With the upgrade in live graph functionality, some live graph renderings will appear to be erratic; the bar graphs displaying real-time data will jump around rapidly as the system attempts to render the data in real time. Where we used to display these bar graphs as running averages that settled quickly down to a more or less constant value, now the constantly changing nature of the incoming data causes the bar graph to appear more dynamic in nature.
	Changing a VM's network adapter can cause VMs configured for guest caching to be displayed as not configured for caching. To fix this issue, restart the vme2 service on the management server.
	Attempting to run the Flash Management Console Application in multiple browsers on the same host may cause unstable behavior.
	With a very large vCenter installation, some attempts to manage caching will fail due to a scalability issue. If you are affected by these issues, manage caching using command line tools as documented in the CLI guides.
	Making changes to plugin registration requires a restart of vSphere client. With the Windows client, simply restart the application on your host. The vSphere web client runs as a web service on your VMware vCenter server. Restart the vSphere web client by opening a root ssh window and enter service vsphere-client restart from the command line.
	Note that the offload rate bar value may not be accurate.
	If the Manage Caching link is not functioning correctly, refresh the page in your browser.
	Proper communication between a VM in guest caching mode and the Flash Management Console Application requires that the VM have a valid IP address assigned to it. Networking should be configured properly on the VM.
	When performing the Attach operation, an error message may indicate "Device not found." However, the Attach operation has been successfully completed.

Platform	Issue
	Do not detach a cache device. If you must detach the device, deselect it as a caching device, then detach it.
	When formatting a device to factory capacity, the interface indicates that the attach operation is at 10%. The display is incorrect. The attach operation actually does complete, but the task status does not indicate so.
	When switching a VM from guest-based caching to no caching, the cache status will continue to reflect guest-based caching in the VM grid (at the bottom of the host page) until the VM has been rebooted manually.
	The Caching Status displayed on the Configuration Host page may display a different status than the same cache on the Cache grid.
	If you reset stats via CLI, the graphs may show negative numbers for Average IOPS. These values are incorrect.
	When using guest-based caching on a Linux VM, the Paravirtual SCSI controller causes a failure to assign capacity shares to the VM. To resolve this, replace the virtual adapter.
	Certain errors in the management logs are expected and normal during host install when the CIM provider is installed but not fully initialized, or during a reboot of a host when the connection to the CIM_provider is lost. For more information, refer to the Support Knowledge Base article.
	VMware may occasionally create an issue when attaching or detaching a device that causes system failures. You may be able to resolve this through the CLI, which bypasses the VMware issue.
	Anytime you need to restart the fio-msrv process, you may need to run the command twice.
	Volumes may still be visible in Flash Management Console after deleting them from the Windows disk manager.
	If you manually remove software from a host, that removal may not be reflected in the UI.
	While viewing the Configuration tab, if a Warning or Error link in the Status column of the table is clicked, Navigation proceeds to the Alerts tab. If the Alerts button is clicked at this point, the Alert table is replaced by a Configuration table.
	The Flash Management Console Application does not load in IE10 when remote access is enabled.
	The PCI address may not display correctly in the Info tab.



Part Number:D0003388-008_5
Printed in the USA

© Copyright Lenovo 2015. Lenovo and the Lenovo logo are trademarks of Lenovo in the United States, other countries, or both.

© Copyright International Business Machines 2015. All rights reserved.

Copyright © 2015 SanDisk Corporation. All rights reserved. SanDisk is a trademark of SanDisk Corporation, registered in the United States and other countries. Fusion ioMemory, VSL and others are trademarks of SanDisk Enterprise IP LLC. Other brand names that may be mentioned herein are for identification purposes only and may be the trademarks of their respective holder(s).