Dell EMC OpenManage Integration Version 1.1.1 with Microsoft Windows Admin Center

Release Notes

January 2021
Rev. A01

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Contents

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Release summary

Dell EMC OpenManage Integration with Microsoft Windows Admin Center (OMIMSWAC) enables IT administrators to manage the Dell EMC PowerEdge servers as hosts, Microsoft Failover Clusters created with PowerEdge servers, and Hyper-Converged Infrastructure (HCI) created by using the Dell EMC Solutions for Microsoft Azure Stack HCI. OMIMSWAC simplifies the tasks of IT administrators by remotely managing the PowerEdge servers and clusters throughout their life cycle. For more information about the features and benefits of OMIMSWAC, see the documentation at Dell.com/OpenManageManuals.

Topics:

Version

1.1.1

Previous version

1.1.0

Release date

August 2020

Priority and recommendations

Recommended: Dell EMC recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).

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Compatibility

Table 1. Compatibility matrix

Supported software and hardware	Version
Microsoft Windows Admin Center	1910.2 GA, 2007 GA, and 2009 GA release. For more information, see the Microsoft Windows Admin Center documentation at https://www.microsoft.com/en-us/cloud-platform/windows-admin-center.
Operating systems	For more information about the supported OSs for installing Microsoft Windows Admin Center and different modes of installation, see the Microsoft Windows Admin Center documentation at https://www.microsoft.com/en-us/cloud-platform/windows-admin-center. **NOTE:** To view the update compliance details of the devices by using OpenManage Integration with Windows Admin Center, the supported OSs are Microsoft Windows 2012 R2 and later.
Browsers	For more information about the supported browsers by Microsoft Windows Admin Center, see the Microsoft Windows Admin Center documentation at https://www.microsoft.com/en-us/cloud-platform/windows-admin-center.
Dell EMC System Update Utility (DSU)	1.8.1 The **Systems-Management_Application_DVHNP_WN64_1.8.1_A00.EXE** DSU file can be downloaded from here.
Dell EMC Inventory Collector (IC)	The supported version of IC can be downloaded from here.
Dell EMC Repository Manager (DRM)	3.3.1 The supported version of DRM can be downloaded from here.
PowerEdge servers as target nodes. For more information on the generic naming convention of PowerEdge servers, see Identifying the generation of your Dell EMC PowerEdge server on page 15.	YX2X and YX3X models of PowerEdge servers with iDRAC7 and iDRAC8 respectively (Recommended firmware version of 2.60.60.60 or later). **NOTE:** • For PowerEdge servers with firmware versions lesser than 2.60.60.60, information of hardware inventory and health status of few components might not be available. For more information about the components for which the information is not available, see *Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide*. • In YX2X and YX3X models of PowerEdge servers, following features are not available: ○ Cluster-Aware Updating ○ Health and Inventory information of Accelerators
	YX4X models of PowerEdge servers with iDRAC9 (Recommended firmware version of 3.30.30.30 or later).
	YX5X models of PowerEdge servers with iDRAC9 (Recommended firmware version of 3.40.40.40 or later).
	PowerEdge XE2420 Edge server (Recommended firmware version is 4.00.129.00 or later).
Azure Stack HCI as target nodes	AX-640, AX-6515, and AX-740xd Dell EMC Solutions for Microsoft Azure Stack HCI.

Table 1. Compatibility matrix (continued)

Supported software and hardware	Version
Supported Storage Spaces Direct Ready Nodes as target nodes	R440, R640, R740xd, and R740xd2 Dell EMC Solutions for Microsoft Azure Stack HCI.

NOTE: Target nodes running Windows Server Core operating system are not supported by Dell EMC OpenManage Integration.

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Key features

- OMIMSWAC provides a simplified solution to IT administrators to efficiently manage the following:
  - Dell EMC PowerEdge servers running on supported Windows Operating Systems.
  - Azure Stack HCI clusters based on AX nodes or Storage Spaces Direct Ready Nodes from Dell EMC.
  - Microsoft failover clusters created with Dell EMC PowerEdge servers.
- View overall Health, Hardware inventory, and iDRAC inventory of nodes including component-level information of all supported Dell EMC platforms.
- Provides Update Compliance reports against Dell EMC verified update catalogs and notifications for new catalog versions.
- Support for different baselines in OMIMSWAC when connected to the Internet:
  - Dell EMC Enterprise Catalog for PowerEdge Servers and clusters containing PowerEdge servers.
  - Dell EMC Azure Stack HCI Solution Catalog for Dell EMC Solutions for Microsoft Azure Stack HCI.
  - Dell EMC MX Solution Catalog for PowerEdge MX Modular.
- Support for local baselines created using Dell EMC Repository Manager (DRM).
- Update PowerEdge Servers against baseline – BIOS, driver, firmware, and/or system management applications.
- Cluster-Aware Updating against validated baseline (BIOS, driver, firmware, and/or system management applications) for PowerEdge server-based Failover cluster and Dell EMC Solutions for Microsoft Azure Stack HCI.
- View iDRAC information of PowerEdge servers. For out-of-band management, you can directly launch the iDRAC console from Windows Admin Center.
- Availability of OMIMSWAC extension and documentation localized in English, French, German, Spanish, Simplified Chinese, and Japanese languages.

Topics:

Revision history

Date	Document revision	Description of changes
August 2020	A00	Initial release for OMIMSWAC 1.1.1
January 2021	A01	• Added support for Windows Admin Center 2009 GA. • Target nodes running Windows Server Core OS are not supported.

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New in this release

Release 1.1.1

- Support for Microsoft Windows Admin Center version 2007 GA and 2009 GA.
- Support for PowerEdge XE2420 Edge server with iDRAC firmware 4.00.129.00 or later.
- Fixes:
  - Issue with accessing OMIMSWAC using WAC gateway user credentials.
  - Issue with retrieving inventory information for clusters connected using Single-Sign-on.
  - Issue with generating compliance report for target nodes or clusters connected using a password that contains certain special characters.

  More information on the bug fixes is available in the 'Fixed issues' section of this Release Note.
- Reset of `CauClusterRole` parameter to allow the self-updating functionality of the specified cluster after the Cluster-Aware Updating (CAU) operation is complete.

Release 1.1.0

- Added support for Dell EMC Online Catalogs:
  - Dell EMC Enterprise Catalog for PowerEdge Servers and clusters containing PowerEdge servers.
  - Dell EMC Azure Stack HCI Solution Catalog for Dell EMC Solutions for Microsoft Azure Stack HCI.
  - Dell EMC MX Solution Catalog for PowerEdge MX Modular.
- Ability to perform Server update including selective component updates.
- Ability to perform Cluster-Aware Updating against validated baseline (BIOS, driver, firmware, and system management applications) on the following.
  - PowerEdge server-based Failover cluster
  - Dell EMC Solutions for Microsoft Azure Stack HCI

  NOTE: For the Cluster-Aware Updating feature, a premium license must be installed on each node in a cluster.
- To locate physical disks or to identify failed physical disks, provision to blink and unblink the physical disks Light Emitting Diodes (LEDs) is provided.
- Support for newer platforms:
  - Platforms based on AX nodes—Dell EMC Solutions for Microsoft Azure Stack HCI nodes: AX-640, AX-6515, and AX-740xd.
  - Platforms based on Storage Spaces Direct Ready Nodes from Dell EMC—Dell EMC Solutions for Microsoft Azure Stack HCI: R440, R640, R740xd, and R740xd2.
- Support for Microsoft Windows Admin Center version 1910.2.
- Ability to monitor health and inventory of Accelerators (GPU) with latest iDRAC9 based PowerEdge Servers.
- User interface enhancements for Intel Persistent Memory Health monitoring and Inventory.
- Improvements in Update Compliance performance.
- Correlation between Storage Controllers and Physical Disks to view the associated disks.
- Ability to refresh the health, inventory, and iDRAC information of the managed target nodes to ensure that displayed inventory information is the latest.
- Usability enhancement by downloading DSU and IC automatically required for components update.
- Ability to download catalog, DSU, and IC utilities from the Internet using proxy settings to generate compliance report.
- Displays Dell EMC Solutions badge **Azure Stack HCI Certified** for Dell EMC Solutions for Microsoft Azure Stack HCI cluster consisting of AX nodes or Storage Spaces Direct Ready Nodes.

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Fixed issues

Release 1.1.1

Issue 1

Description

When you log in to Windows Admin Center (WAC) using gateway user credentials without admin privileges and try to launch OpenManage Integration from the WAC console, access denied error may appear.

Issue 2

Description

When a cluster is connected by using Single Sign-on authentication, OMIMSWAC is unable to retrieve the inventory information and the Windows Admin Center might be unresponsive.

Issue 3

Description

When you connect to a server or cluster using a password that contains any of the following special characters, and attempt to generate a compliance report using OMIMSWAC, the compliance generation may fail. The special characters are: double-quote ("), grave accent (`), and semi-colon (;).

Release 1.1.0

Issue 4

Description

The update compliance may intermittently and partially succeed for server and cluster nodes.

Issue 5

Description

For a Failover cluster connection, if you navigate out of the OMIMSWAC extension to access other Windows Admin Center tools, Windows Admin Center turns into a blank page.

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Known issues

Issue 1

Description

Unable to retrieve the health and hardware inventory from the target iDRAC.

Workaround

Ensure that the following are enabled or available on the target node:

- The Redfish service is enabled.
- An iDRAC user slot is available.
- The SMB port 445 is open.
- For management of PowerEdge servers, ensure that OMIMSWAC uses an internal OS to iDRAC Pass-through interface. By default, iDRAC will be reachable using the IP address 169.254.0.1/<Subnet> or 169.254.1.1/<Subnet>. However, if the host has another network interface in the same subnet (For example, when tool like VMFleet is installed), OMIMSWAC might not be able to communicate to the iDRAC from the host OS.

  To resolve the conflict, log in to iDRAC and change the USB NIC IP address under the OS to iDRAC passthrough section. For more information about assigning this IP address, see the iDRAC documentation on the Dell EMC support site.
- Ensure that the target node is not booted to Lifecycle Controller.
- Target node is not in the reboot state, or is powered-off.
- The USB NIC adapter is not disabled on the target node operating system.

Issue 2

Description

For YX3X and YX2X models of PowerEdge servers with firmware versions lesser than 2.60.60.60, and YX4X model of PowerEdge Servers with firmware versions lesser than 3.30.30.30, information of the following components are not displayed:

- Health status: memory, storage controllers, storage enclosures, and physical disks.
- Hardware inventory: memory, storage controllers, storage enclosures, physical disks, network devices, and firmware.

Workaround

- Ensure that the YX3X and YX2X models of PowerEdge servers are updated with latest iDRAC version of 2.60.60.60 or later.
- Ensure that the YX4X model of PowerEdge Servers are updated with latest iDRAC version of 3.30.30.30 or later.

Issue 3

Description

The overall health status of the PowerEdge servers, failover cluster and HCI cluster might be displayed as critical or warning even if the components of the nodes displayed on the Windows Admin Center are healthy.The health status of physical disks attached to embedded SATA controller may be displayed as Unknown because iDRAC is unable to get the health information for these disks.

Workaround

For more details on the components in critical health state, go to the respective iDRAC console.

Issue 4

Description

While installing OMIMSWAC by using local path or network path, multiple instances of OMIMSWAC extension may be listed under Available and Installed Extensions when more than one .nupkg package is available in the specified folder path, or the .nupkg packages are available in root or subfolders in addition to the folder path provided under **Feeds** > **Add package source**.

Workaround

Ensure that a single .nupkg package is available in the root or subfolders under **Feeds** > **Add package source**.

Issue 5

Description

If the lockdown mode is enabled on YX4X model of PowerEdge Servers and above, inventory of health, hardware, and iDRAC fails with the error: “Unable to create users on target iDRAC device.”

Workaround

Disable the lockdown mode on the target node managed by Dell EMC OpenManage Integration.

Issue 6

Description

The update compliance report might not be generated for the cluster nodes.

Workaround

- Ensure that the cluster service is running on the cluster node by using the `Get -ClusterService` PowerShell command.
- Ensure that the cluster node is not rebooting or powered-off.

Issue 7

Description

The hardware inventory attribute values of storage enclosure components might be empty because the information is not available on the target iDRAC.

Issue 8

Description

Retrieving inventory from servers and cluster nodes fails with the error: Unable to initialize the OMIMSWAC extension.

Workaround

Ensure IPMI driver is installed and IPMI service is running on the target node. For more information on the requirement and solution, see https://kb.dell.com/infocenter/index?page=content&id=SLN318718

Issue 9

Description

If NICs are disabled in BIOS settings, there will be a delay in displaying the health and hardware inventory information for certain iDRAC firmware versions.

Workaround

Ensure all the NICs are enabled in BIOS settings.

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Instructions for installing Dell EMC OpenManage Integration with Microsoft Windows Admin Center

Topics:

Installation process

OMIMSWAC can be installed in one of the following ways:

- By using the NuGet feed
- By using local path or network file share with the downloaded `Dell_EMC_OpenManage_Integration_MS_WAC_<Version><Build_Number>zip` file from the Dell EMC Support Site. For more information about downloading the .zip file, see the *Download Dell EMC OpenManage Integration with Microsoft Windows Admin Center* section.

For more information about installing OMIMSWAC, see the *Dell EMC OpenManage Integration with Microsoft Windows Admin Center Installation Guide* at Dell.com/OpenManageManuals.

NOTE: If you are installing Dell EMC OpenManage Integration with Windows Admin Center extension by using the Custom Feed option, see the Microsoft documentation to set up a custom feed or share.

After installing OMIMSWAC, ensure the following are enabled or available on the target node:

- The Redfish service is enabled.
- An iDRAC user slot is available.
- SMB port 445 is open. For more information, see https://go.microsoft.com/fwlink/?linkid=2101556.
- For management of PowerEdge servers, OMIMSWAC uses an internal OS to iDRAC Pass-through interface. By default, iDRAC is reachable by using the IP address 169.254.0.1/<Subnet> or 169.254.1.1/<Subnet>. However, if the host has another network interface in the same subnet (For example, when tool like VMFleet is installed), OMIMSWAC might not be able to communicate to the iDRAC from the host OS. To resolve the conflict, log in to iDRAC and change the USB NIC IP address under the OS to iDRAC passthrough section. For more information about assigning this IP address, see the iDRAC documentation on the Dell EMC support site.
- Ensure that the target node is not booted to Lifecycle Controller.
- Target node is not in the reboot state, or is powered-off.
- The USB NIC adapter is not disabled on the target node OS.
- Set the PowerShell execution policy to RemoteSigned on the system with Windows Admin Center installed and on the target node OS. For more information, see https://www.dell.com/support/article/sln318718/dell-emc-openmanage-integration-with-microsoft-windows-admin-center-omimswac-fails-to-query-host-information.

Download Dell EMC OpenManage Integration with Microsoft Windows Admin Center

1. Go to Dell.com/support.
2. Perform one of the following actions:
   a. Enter the Service Tag of your PowerEdge server, and then select **Search**.
   b. Select **Browse all products** > **Servers** > **PowerEdge**, and then select the appropriate model of your PowerEdge server.

3. On the support page of your server, select **DRIVERS & DOWNLOADS**.
4. From the **Category** list, select **Systems Management**.
5. Select the supported version of OpenManage Integration with Microsoft Windows Admin Center, and then click **Download**.

The downloaded `Dell_EMC_OpenManage_Integration_MS_WAC_<Version>.<Build_Number>.zip` file contains the .nupkg file which is used to install OMIMSWAC integrator in Windows Admin Center by using a local path or network share.

NOTE: Do not rename the .nupkg file while installing the OMIMSWAC extension.

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Instructions for upgrading Dell EMC OpenManage Integration with Microsoft Windows Admin Center

OMIMSWAC can be upgraded in one of the following ways:

- By using the NuGet feed
- By using local path or network file share with the downloaded `Dell_EMC_OpenManage_Integration_MS_WAC_<Version>.<Build_Number>.zip` file from the Dell EMC Support Site. For more information about downloading the .zip file, see the *Download Dell EMC OpenManage Integration with Microsoft Windows Admin Center* section.

NOTE: OMIMSWAC version 1.1.1 can be upgraded from version 1.0.1 and 1.1.0.

For more information about upgrading OMIMSWAC, see the *Dell EMC OpenManage Integration with Microsoft Windows Admin Center Installation Guide* at Dell.com/OpenManageManuals.

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Identifying the generation of your Dell EMC PowerEdge server

To cover a range of server models, the PowerEdge servers are now be referred to using the generic naming convention and not their generation.

This topic explains how to identify the generation of a PowerEdge server that are referred to using the generic naming convention.

Example:

The R740 server model is a rack, two processor system from the 14th generation of servers with Intel processors. In the documentation, to refer to R740, generic naming convention **YX4X** server is used, where:

- The letter **Y** (alphabet) denotes the type (form factor: Cloud (C), Flexible(F), Modular (M or MX), Rack(R), Tower(T)) of the server.
- The letter **X** (digit) denotes the class (number of processors) of the server.
- The digit **4** denotes the generation of the server.
- The letter **X** (digit) denotes the make of the processor.

Table 2. PowerEdge servers naming convention and examples

YX5X servers	YX4X servers	YX3X servers
PowerEdge R7515	PowerEdge M640	PowerEdge M630
PowerEdge R6515	PowerEdge R440	PowerEdge M830
	PowerEdge R540	PowerEdge T130

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Contacting Dell EMC

Dell EMC provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell EMC product catalog.

To contact Dell EMC for sales, technical support, or customer service issues:

1. Go to Dell.com/support.
2. Select preferred country or region from the list at the bottom right of the page.
3. Click **Contact Us** and select the appropriate support link.

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