

Dell EMC Repository Manager Integration with

Manager integration with Dell EMC OpenManage Enterprise

**Dell EMC OpenManage Enterprise** Firmware-update lifecycle and baseline management with custom repositories created using Dell EMC Repository

#### Abstract

This technical whitepaper provides information about assessing and achieving firmware compliance by using custom repositories. The custom repositories are created by using a seamless integration between Dell EMC Repository Manager and Dell EMC OpenManage Enterprise. The integration not just helps in reducing the manual effort of setting up the repositories, but also enables establishment of enterprise-wide group or device-based firmware baselines

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#### **Executive summary**

Firmware update is one of the critical activities in device monitoring and management that helps you keep the environment up-to-date and compliant. It also protects the devices against vulnerabilities and fixes bugs. Dell EMC OpenManage Enterprise enables you to regularly check the compliance of devices and upgrade or roll back, as necessary. With the integration of Dell EMC OpenManage Enterprise into Dell EMC Repository Manager, firmware update becomes even more simpler and seamless.

Dell EMC Repository Manager (DRM) allows you to create customized bundles and repositories based on certain specified criteria and update specific software components on Dell devices.

Using DRM with Dell EMC OpenManage Enterprise ensures that your Dell device managed through OpenManage Enterprise is equipped with the latest BIOS, driver, and firmware updates. Primary use case for this feature is to have different custom repositories generated by DRM, filtered for specific use cases, and then use them against the custom device groups.

### 1 Introduction

Dell EMC Repository Manager (DRM) is an application that allows you to create customized bundles and repositories on systems running the Microsoft Windows operating system and the Linux Operating system.

The customized bundles and repositories are made up of Dell Update Packages (DUPs) based on certain specified criteria. DUPs are software utilities provided by Dell to update specific software components on Dell devices.

Using DRM ensures that your Dell device is equipped with the latest BIOS, driver, and firmware updates by providing searchable interface used to create custom software collections.

#### 2 Purpose and Scope

This technical whitepaper provides information about assessing and achieving firmware compliance using custom repositories.

The custom repositories are created using a seamless integration between Dell EMC Repository Manager and Dell EMC OpenManage Enterprise. This integration not only helps in reducing the manual effort of setting up the repositories, but also enables establishment of enterprise-wide group or device-based firmware baselines

## 3 Terminology

The following terms will be used throughout this document

Dell Update Catalog	A metadata file to define all elements of a Dell update repository. The catalog file is in XML format or a .cab file containing a catalog XML file. For Dell EMC server platforms, the Dell online catalog file is Catalog.cab while for Dell business client systems, it is CatalogPC.cab. DRM can save a catalog in XML or CAB formats.
Dell Update Package	A self-contained installation package for BIOS, firmware, drivers, and system application software.
Bundle	A virtual concept in a Dell update catalog. A bundle defines a container that contains a group of correlated Dell update packages. The common bundle is system bundle which includes all update packages for one Dell platform. All update packages of a bundle must be defined in the same catalog.
Component	A Dell update package. A component may or may not be contained within one or multiple bundles.
Source (Repository)	A source (repository) refers to a repository which a local repository can inherit bundles and/or components from. A source repository can be assigned by a user. By default, it refers to the Dell online repository which is hosted on ftp.dell.com. A source will be opened as a read-only repository in DRM.
Local Repository	A local repository is created by a DRM user. A local repository data is saved in a local database. The owner of a local repository has full permissions on a local repository.

## 4 Configuring Dell EMC OpenManage Enterprise repository using Dell EMC Repository Manager

Here we discuss about the detailed procedure of configuring the Dell EMC OpenManage repository using DRM.

Assuming that you already have Dell EMC OpenManage Enterprise application installed and your Dell devices discovered and managed through the application, the procedure would walk you through installation, configuration and then integration of DRM.

#### 4.1 Install Dell EMC Repository Manager

Dell EMC OpenManage Enterprise can be easily integrated with DRM from DRM 3.0 onwards. However, the way the integration happens is a little different post DRM 3.2. We would recommend using the latest available version of DRM from <a href="https://support.dell.com">https://support.dell.com</a> and searching for "Dell EMC Repository Manager"

Also, from DRM 3.0 onwards there is an option to install DRM on both Windows and Linux systems.

After you have identified the required DRM version, you can proceed with the below steps to install DRM on your choice of system.

- 1. Click Download Now link to download the.EXE or .BIN file.
- 2. The File Download window is displayed, click Save to save the file to the hard drive.
- 3. Browse to the folder where the files are saved
- 4. Provide executable permission for the file on Linux.
- 5. Execute the file and follow the instructions

Note: Upgrade from DRM 2.x is not supported for DRM 3.2.0. The existing configuration and repositories can be migrated from existing DRM 2.x installation on Windows by using the installation wizard page for migration.

#### 4.2 How does Dell EMC Repository Manager Work?

DRM allows you to either:

- Manually create a repository of updates or
- Automate creation of a custom repository of updates

The automated creation of a custom repository is possible by integrating DRM with other Dell EMC tools like:

- OpenManage Enterprise
- OpenManage Essentials
- OpenManage Integration with VMware vCenter
- OpenManage Integration with Microsoft System Center
- Chassis Management Controller
- iDRAC

Once a repository is created, you can schedule searches for new updates, saving time otherwise spent manually searching through the Dell support site. You can also create custom deployment tools such as custom catalogs that are used by Dell EMC Tools, a custom server update utility, scripted deployment packs, and/or bootable ISOs.

DRM connects to Dell's online catalog of updates that contains information on the available Dell Update Packages (DUPs). Once updates have been selected by you, Dell EMC Repository Manager downloads the specific, requested files.

Dell EMC Repository Manager will also automate the refresh of repositories with the latest version of update packages or run a comparison and lets you select which new updates to include in the repository. DRM can then be used to create deployment tools from the contents of a repository.

#### 4.3 Configure DRM integration with Dell EMC OpenManage Enterprise

DRM has built in integration with the Dell EMC OpenManage Enterprise. Using your Dell EMC OpenManage Enterprise credentials, DRM pulls Dell device inventory and automatically creates a custom local firmware update repository that matches your environment.

DRM also lets you create diff reports between online repository from Dell and your local repository, so you can move new updates into your local repository as you need them.

With Dell EMC OpenManage Enterprise configured to consume that local repository, once new updates are made available in your local repository with DRM, Dell EMC OpenManage Enterprise matches device in your environment against your custom baselines and deploys updates directly from the DRM repository.

With DRM version 3.2 there is an enhancement in the user experience for Dell EMC OpenManage Enterprise repository creation. So, the options for DRM integration into Dell EMC OpenManage Enterprise has some dissimilarities pre- and post- DRM version 3.2.

**Note**: For ease of use, we would recommend to use DRM version 3.2 or above for your integration with Dell EMC OpenManage Enterprise

- 4.3.1 Integration of OpenManage Enterprise with DRM when DRM version is less than 3.2
  - On the Home page, click **Add New Repository**. Add Repository window is displayed.

DELLEMC Repos													
ADD REPOSITORY	TO DELETE COMP	ARE BOOPY	CREFRESH	ADD BUNDLES	i •• CLONE 🛃 DOWN	LOAD IMPORT							
0	Name			Version	Size	Date Modified		Label	Descripti	on	Property		EDIT
					관 Add Repository				×				
					Repository Name *	Enter repository name							
					Description	Description							
					Base Catalog	Enterprise Server Catalog-1	9.06.02		1				
					Repository Type								
					Manual Inventory	ny you want to add.							
					Select Systems								
					Specify the system	ns whose components are to	be included in this repos	itory.					
					Custom	CHOOSE SYSTEM	1						
								CANCEL	2				

Figure 1: Adding Repository

• On the **Integration** tab, enter the **Repository Name** and **Description**.

Add Repository		e ×
Repository Name *	OpenManage Enterprise	
Description	Repository for OpenManage Enterprise	
Base Catalog	Enterprise Server Catalog-19.06.02	•
Repository Type Choose the type of reposito	ry you want to add.	
Manual Inventory	Integration	
DUP format	Linux Windows-32 Windows-64 OS-Independent	
Integration Type *	Select Type	-
Integration Type:		
System	Model	
	CANCEL	ADD

Figure 2: Entering repository details

- From the **DUP Format** check-boxes, select the formats that you want to include in the repository.
- From the Integration Type drop-down menu, select the product option, Dell Console Integration, with which you want to integrate.

Add Repository		0	×
Repository Name *	OpenManage Enterprise		
Description	Repository for OpenManage Enterprise		
Base Catalog	Enterprise Server Catalog-19.07.00	•	
Repository Type Choose the type of reposito	ry you want to add.		
Manual Inventory	Integration		
DUP format	Linux Windows-32 Windows-64 OS-Independent		
Integration Type *	Select Type	-	•
Integration Type:	Dell OpenManage Essentials		
System	Dell OpenManage Integration for VMware vCenter Dell OpenManage Integration for Microsoft System Center		
	Dell Console Integration		
	CANCEL	ADD	

Fig 3: Integration Type

- Based on the "Dell Console Integration" product selection the following options are displayed.
  - $\circ$   $\;$  URL, Username, Password, and Proxy server  $\;$

괃	Add Repository				0	×
	Repository Name *	OpenManage Enterprise				
	Description	Repository for OpenManage Ent	erprise			
ſ	Dell Console Integr	ration		0	×	1
F	URL *	https://100.100.14.123/api/				
C	Username *	admin	]			
	Password *		]			
	Proxy Server					
h			CANCEL	CONNECT		
ľ	System	Model	_			
					_	
				CANCEL	00	

Fig 4: Console Integration details

- In the URL specify the integration URL
  - https://<IP Address>/api/DRMInventoryService
  - where IP Address is the IP Address of the OpenManage Enterprise application
- Specify the OpenManage Enterprise username and password along with proxy settings if required.
- After selecting the required option click **Connect**.

Add Repository		0	×
Repository Prefix *	OpenManage Enterprise		
Description	Repository for OpenManage Enterprise		
Base Catalog	Enterprise Server Catalog-19.06.02	•	
Repository Type Choose the type of reposito	ry you want to add.		
Manual Inventory	Integration		
DUP format	☑ Linux		
Integration Type: Dell Open	Manage Enterprise		
Console Name: OM Enter	prise		_
Group Name			
All Devices			
Servers			
Dell iDRAC Servers			
	CANCEL	ADD	

Fig 5: Repository creation by selecting specific group

- DRM would connect to the OpenManage Enterprise application and collect information about all the devices currently managed by that instance of OpenManage Enterprise.
- After DRM has gathered the device information, in the **Integration Type** section it would list all the group that are currently configured in OpenManage Enterprise.
- You can selectively create repositories for specific groups, or select all the groups for creating repositories for all of the OpenManage Enterprise device groups.
- After you have selected specific groups click on **Add** to create the repository.



Fig 6: Repository creation in progress for devices from selected group

The repository would be populated for the devices part of the selected group/s and once complete this
repository would be displayed in the repository dashboard available on the home page.

📴 Dell EMC Repository M	anager											-	٥	$\times$
	ory Manager 🐱												8	
➡ ADD REPOSITORY	🗊 DELETE 🛹 COMPARE	COPY CREFRESH	ADD BUNDLES	++ CLONE	🛓 DOWNLOAD		7.							
=	Name		Version	Size		Date Modified		Label	Description	Property				
•  OpenManage Enterpris	se-Servers		1.00	1.29 GB		7/5/19			Repository for OpenManage Enterpr	Name	BIOS TRVX9 I N 2.9 1 BIN			
<ul> <li>PowerEdge FC430</li> </ul>	(Linux)		703	314.89 MB		6/16/19			System Bundle (Linux)PEFC430 v703					
PowerEdge FC630	(Linux)		703	309.13 MB		6/16/19			System Bundle (Linux)PEFC630 v703	Version	2.9.1			
PowerEdge FC640	(Linux)		703	353.40 MB		6/16/19			System Bundle (Linux)PEFC640 v703	Category	BIOS			
PowerEdge FC830	(Linux)		703	305.91 MB		6/16/19			System Bundle (Linux)PEFC830 v703	Criticality	Recommended			
PowerEdge M620	(Linux)		703	343.67 MB		6/16/19			System Bundle (Linux)PEM620 v703				0	
▼	(Linux)		703	271.12 MB		6/16/19			System Bundle (Linux)PER630 v703	Description	Family Processor Microcode 8	inhancemen	essor Sca it to addre	13016
DRAC-with-Life	cycle-Controller_Firmware_40T1C_LN	2.63.60.61_A00.BIN	2.63.60.61	105.56 MB		4/26/19	Reco	mmended	Dell iDRAC with Lifecycle Controller		security vulnerability CVE-201	8-3639 and (	CVE-2018-	-3640.
BIOS_T9YX9_LN	L2.9.1.BIN		2.9.1	14.41 MB		12/5/18	Reco	mmended	This release contains new Intel Xeo		PowerEdge R630/R730/R730	D	011 2. 9. 1 14	n Den
Network_Firmwa	are_YHF9V_LN_18.8.9_A00.BIN		18.8.9	11.36 MB		1/30/19	Reco	mmended	This software bundle includes the D	System	PowerEdge R630			
Drivers-for-OS-D	eployment_Application_WP3PH_LN_1	8.12.04_A00.BIN	18.12.04	125.10 MB		1/30/19	0	ptional	OS Driver Pack for PowerEdge 13G		PowerEdge R730xd			
Diagnostics_App	plication_NNPW9_LN_4239A36_4239.	44.BIN	4239A36	2.37 MB		1/25/17	0	ptional	Dell Diagnostics are designed to ver		Powerzoge R730			
Diagnostics_App	plication_JCCH7_LN64_4.0_A00_01.Bl	IN	4.0	12.31 MB		5/31/19	Reco	mmended	OS COLLECTOR 4.0 is an integral co	Devices	PowerEdge Server BIOS			
PowerEdge R720 (	(Linux)		703	316.96 MB		6/16/19			System Bundle (Linux)PER720 v703	Date	12/5/18			
										Size	14.41 MB			

Fig 7: Repository created for every device component

# 4.3.2 Integration of OpenManage Enterprise with DRM when DRM version is 3.2 or Higher

On the Home page, click Add New Repository. Add Repository window is displayed.
 Del EMC Repository Manager

								<b>9</b> 6
PADD REPOSITORY	BELETE & COMPARE CO	PY OREFRESH HADD	IUNDLES ++ CLONE ADDV	VNLOAD EIMPORT ZEXPORT	7.			
0	Name	Version	1 Sice	Date Modified	Label	Description	Property	EDIT
			관 Add Repository		e ×			
			Repository Name *	Enter repository name				
			Description	Description				
			Base Catalog	Enterprise Server Catalog-19.06.02	•			
			Repository Type Choose the type of repos	iltory you want to add.				
			Manual Invento	ory Integration				
			Select Systems Specify the syst	tems whose components are to be included in t	sis repository.			
			Custom	CHOOSE SYSTEMS				
			0.444					
					CANCEL ADD			

Figure 8: Adding Repository

• On the Integration tab, enter the **Repository Name** and **Description**.

Add Repository		0	×
Repository Name *	OpenManage Enterprise		
Description	Repository for OpenManage Enterprise		
Base Catalog	Enterprise Server Catalog-19.06.02	•	
Repository Type Choose the type of reposito	ry you want to add.		
Manual Inventory	Integration		
DUP format	Linux Windows-32 Windows-64 OS-Independent		
Integration Type *	Select Type	,	•
Integration Type:			
System	Model		
	CANCEL	ADD	

Figure 9: Entering repository details

• From the **DUP Format** check-boxes, select the formats that you want to include in the repository.

 From the Integration Type drop-down menu, select the product option, Dell OpenManage Enterprise, with which you want to integrate.

Add Repository		0	×
Repository Name *	OpenManage Enterprise		
Description	Repository for OpenManage Enterprise		
Base Catalog	Enterprise Server Catalog-19.06.02	•	
Repository Type Choose the type of reposito Manual Inventory	ry you want to add. Integration		
DUP format	✓ Linux 🗌 Windows-32 🗌 Windows-64 🗹 OS-Independent		_
Integration Type *	Select Type		•
Integration Type:	IDRAC		
System	Dell OpenManage Enterprise		4
	Dell OpenManage Integration for VMware vCenter		١.
			1
	CANCEL	ADD	

Fig 10: Integration Type

Based on the "Dell OpenManage Enterprise" product selection the following options are displayed.
 o Host name or IP address and port number, Username, Password, and Proxy server

3	Add Repository				0	×
	Repository Name *	OpenManage Enterprise				
	Description	Repository for OpenManage Ent	erprise			
	🛢 Dell OpenManage	Enterprise		0	×	1
	Hostname or IP *	100.100.14.123				I
F	Port Number	443				l
	Username *	admin				l
	Password *		]			
	Proxy Server					
			CANCEL	CONNECT		
					1	1
				CANCEL A	DD	

Fig 11: DRM integration with OpenManage Enterprise details

• After selecting the required option click **Connect**.

Add Repository		0	×
Repository Prefix *	OpenManage Enterprise		
Description	Repository for OpenManage Enterprise		
Base Catalog	Enterprise Server Catalog-19.06.02	•	
Repository Type Choose the type of reposito	ry you want to add.		
Manual Inventory	Integration		
DUP format	✓ Linux 🗌 Windows-32 🗌 Windows-64 🗹 OS-Independent		
Integration Type: Dell Open	Manage Enterprise		
Console Name: OM Enter	prise		
Group Name			
All Devices			
Servers			
Dell iDRAC Servers			
	CANCEL	ADD	

Fig 12: Repository creation by selecting specific group

- DRM would connect to the OpenManage Enterprise application and collect information about all the devices currently managed by that instance of OpenManage Enterprise.
- After DRM has gathered the device information, in the Integration Type section it would list all the group that are currently configured in OpenManage Enterprise
- You can selectively create repositories for specific groups, or select all the groups for creating repositories for all of the OpenManage Enterprise device groups
- After you have selected specific groups click on **Add** to create the repository.



Fig 13: Repository creation in progress for devices from selected group

 The repository would be populated for the devices part of the selected group/s and once complete this repository would be displayed in the repository dashboard available on the home page.

Dell ENIC Repository	manager							- 0 ^
	iitory Manager 🐱							
ADD REPOSITORY	💼 delete 🧳 compare 🖲 copy	CREFRESH ADD BUNDLES	++ CLONE	🛃 DOWNLOAD 🔄 IMPORT 🛛 A EXPORT	■ 7.			
=	Name	Version	Size	Date Modified	Label	Description	Property	
•  OpenManage Enter;	arise-Servers	1.00	1.29 GB	7/5/19		Repository for OpenManage Enterpr	Name	BIOS T9YX9 LN 2.9.1.BIN
PowerEdge FC4	30 (Linux)	703	314.89 MB	6/16/19		System Bundle (Linux)PEFC430 v703		
PowerEdge FC6	30 (Linux)	703	309.13 MB	6/16/19		System Bundle (Linux)PEFC630 v703	Version	2.9.1
PowerEdge FC6	40 (Linux)	703	353.40 MB	6/16/19		System Bundle (Linux)PEFC640 v703	Category	BIOS
PowerEdge FC8	30 (Linux)	703	305.91 MB	6/16/19		System Bundle (Linux)PEFC830 v703	Criticality	Recommended
<ul> <li>PowerEdge M62</li> </ul>	20 (Linux)	703	343.67 MB	6/16/19		System Bundle (Linux)PEM620 v703	B	
<ul> <li>PowerEdge R63</li> </ul>	0 (Linux)	703	271.12 MB	6/16/19		System Bundle (Linux)PER630 v703	Description	Family Processor Microcode Enhancement to address
DRAC-with-Li	fecycle-Controller_Firmware_40T1C_LN_2.63.60.61	A00.BIN 2.63.60.61	105.56 MB	4/26/19	Recommended	Dell iDRAC with Lifecycle Controller		security vulnerability CVE-2018-3639 and CVE-2018-3640. This release contains BIOS firmware version 2.9.1 for Dell
BIOS_T9YX9_	LN_2.9.1.BIN		14.41 MB	12/5/18	Recommended	This release contains new Intel Xeo		PowerEdge R630/R730/R730XD
Network_Firm	ware_YHF9V_LN_18.8.9_A00.BIN	18.8.9	11.36 MB	1/30/19	Recommended	This software bundle includes the D	System	PowerEdge R630
Drivers-for-OS	Deployment_Application_WP3PH_LN_18.12.04_A0	0.BIN 18.12.04	125.10 MB	1/30/19	Optional	OS Driver Pack for PowerEdge 13G		PowerEdge R730xd PowerEdge R730
Diagnostics	Application_NNPW9_LN_4239A36_4239.44.BIN	4239A36	2.37 MB	1/25/17	Optional	Dell Diagnostics are designed to ver		
Diagnostics	Application_JCCH7_LN64_4.0_A00_01.BIN	4.0	12.31 MB	5/31/19	Recommended	OS COLLECTOR 4.0 is an integral co	Devices	PowerEdge Server BIOS
PowerEdge R72	0 (Linux)	703	316.96 MB	6/16/19		System Bundle (Linux)PER720 v703	Date	12/5/18

Fig 14: Repository created for every device component

#### 4.4 Export Repository

This section describes the process to export the custom repository that you created using the steps mentioned in the above sections.

- On the DRM home page, select the repositories or bundles which you want to export. A warning
  message is displayed if you do not select any repository.
- Click Export. The Export Deployment Tools window is displayed.

Bell EMC Repository Man	ager									-		×
	sitory Manag										P	0
ADD REPOSITORY	<u>û</u> delete	🗲 COMPARE	🗐 СОРУ		ADD BUNDLES	++ CLONE	🛃 DOWNLOAD		REXPORT	τQ		
<ul> <li>✓</li> <li>✓</li></ul>	Name age Enterprise-All	Devices	Export Dep Selected reposit     Dell EMC Op Deployment Too Choose the type Smart Bootab Choose Locatior     Export only	Ioyment Tools ories anManage Enterp I Type of the update depli le ISO SUU substantion Save I catalog	rise-All Devices oyment tool to be create ISO Smart Deplo	id yment Script	Share BROWSE CANCEL E	XPORT	Property			DIT

Fig 15: Export Repository

- The repositories that you select is displayed in the Selected Repositories section. Select option Share as the required Deployment Tool Type and click Create.
- Click **Browse** to select the location to download the DUPs and catalogs.

Browse Select a file or a folder	×
C:\	
<ul> <li>★ Recently Used</li> <li>&gt; Network</li> <li>→ New Folder</li> </ul>	<ul> <li>Documents and Settings</li> <li>Logs</li> <li>PerfLogs</li> <li>Program Files</li> <li>Program Files (x86)</li> <li>Users</li> <li>Windows</li> </ul>
	CANCEL

Fig 16: Catalog share location

- Optional: Select the Export only catalog checkbox if you would like to export only the catalog
- Click Export.
- An Export job is created in DRM for this operation.

• To check the status of the Export job, navigate to the **Jobs** page.

LEMC	C Repository Mai ime /iew positories s	nager  Manage Application Preferences Check for New Version	• Help and Support Online Help Save and Mail logs About	<b>X</b>	ext Execution Date/Time NA	Last Execution Date/Time NA	Affected Repositories ['Dell EMC OpenManage Enterp	Log
<ul> <li>Hot</li> <li>V</li> <li>Repo</li> <li>Jobs</li> </ul>	rme /iew ositories s	✓ Manage Application Preferences Check for New Version	Help and Support     Online Help     Save and Mail logs     About		ext Execution Date/Time NA	Last Execution Date/Time NA	Affected Repositories ['Dell EMC OpenManage Enterp	Log
● V Repo Jobs	/iew ositories s	Manage Application Preferences Check for New Version	Help and Support     Online Help     Save and Mail logs     About		ext Execution Date/Time NA	Last Execution Date/Time	Affected Repositories ['Dell EMC OpenManage Enterp	Log Show Log
Repo	ositories s	Application Preferences Check for New Version	Online Help Save and Mail logs About		ext Execution Date/Time NA	Last Execution Date/Time NA	Affected Repositories ['Dell EMC OpenManage Enterp	Log Show Log
Jobs	S	Check for New Version	Save and Mail logs About		NA	NA	['Dell EMC OpenManage Enterp	Show Loc
								2.1011 2.09

Fig 17: Navigation to Jobs page

• To check the job details, click on **Show log** for that specific Export job.

Dell EMC Repository Manager	- 0	×
DELLEMC Repository Manager 🗸	4	Ø
DOLLEMC Repository Manager          Jobs         EDIT       DELETE         Job Name       Otsport_10/25/2018_02:09         Downloaded:       C\ProgramData\Dell\drm\store\FOLDER04878923M\1\FM120_BIOS_VT4N5_LNL1.7.0.BIN         Downloaded:       C\ProgramData\Dell\drm\store\FOLDER04878921M\1\FM120_BIOS_VT4N5_LN_1.7.0.BIN.sign         Downloaded:       C\ProgramData\Dell\drm\store\FOLDER04835589M\1\BIOS_04FDV_LN_2.4.1.BIN         Downloaded:       C\ProgramData\Dell\drm\store\FOLDER04835589M\1\BIOS_04FDV_WN64_2.4.1.EXE	Log Show Log	0

Fig 18: Export job status

• A job success message would be displayed in the job log once the Export job is completed successfully and all the files are uploaded to the selected share location.

🐻 Dell EMC Repository Manager			- 0	×
DELLEMC Repository Manager	*		Q	8
Jobs EDIT DELETE Job Na Export_10/25/2018_02:09	Image: Constraint of the service logs.         Pailed Sign Check: 0         Failed Hash Check: 0         Close	Affected Repositories ['Dell EMC OpenManage Enterp	Log Show Log	

Fig 19: Export job completion

## 5 Conclusion

It is easy to configure the integration between Dell EMC Repository Manager and Dell EMC OpenManage Enterprise and create custom repositories for specific devices that are managed through your OpenManage Enterprise application.

Once a repository is created, you can schedule searches for new updates, saving time otherwise spent manually searching through the Dell support site and also define your baselines and let this integration take care of keeping your devices up-to-date with the latest updates available from Dell.

## 6 Additional resources

This section describes the process of launching the DRM page on support site for additional documentation.

To view the DRM manuals:

- Browse to <u>Dell.com/support</u>
- Click View Products to view the Dell EMC portfolio.
- Click Software.
- Click Enterprise Systems Management.
- Click Repository Manager.
- Select the relevant release and click Manuals & documents.