



# Dell EMC Enterprise Hybrid Cloud

**4.1.2**

## Simple Support Matrix

**November 2021**

**REV 28**

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## Hybrid Cloud Platform - EMC Simple Support Matrix Data Structure

EMC Simple Support Matrix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18th, 2017

### Tier 1 Native Components

Vendor	Product	Versions	Notes	Lifecycle Exception
<b>CI/HCI Platforms</b>				
Dell EMC	VxBlock 340, 350, 540, 740	RCM 6.0.5 thru 6.0.16	For specific versions of firmware and drivers, refer to <a href="http://support.vce.com">http://support.vce.com</a>	N/A
Dell EMC	VxRack Flex 1000	RCM 3.0.7 (Q) RCM 3.2.2 (D)	EHC on a VxRack requires a 4th server. Refer to your VCE counterpart for more details.	N/A
<b>Notes:</b> <ul style="list-style-type: none"> <li>• Please refer to the separate EHC on VxRail ESSM for remote end point and EHC running on a VxRail</li> <li>• Please check addendum versions of RCM as well for supported array versions listed below</li> <li>• <b>vSphere 6.5 Support is added in Appendix 6</b></li> </ul>				

Vendor	Product	Versions	Notes	Lifecycle Exception
<b>Storage Arrays</b>				
Dell EMC	EMC VMAX 40K, VMAX 20K, VMAX 10K xxx987xxxx	EMC Engenuity 5876.229 (min) 5876.309 (max)	Operating environment for a VMAX	NA
Dell EMC	VMAX 400K, 200K, 100K, 450F, 440FX, 850F 850FX	Engenuity 5977.691 (min) 5977.1125 (max)	Operating environment for VMAX3 <sup>a</sup>	NA
Dell EMC	EMC Unified VNX 5100, 5300 ,5500, 5700, 7500	FLARE: 32 Block: 5.32.x File: Compatible block version	Operating environment for VNX	NA
Dell EMC	EMC Unified VNX 5200, 5400, 5600, 7600, 8000	Flare: 33 Block: 05.33.x File: Compatible block version	Operating environment for VNX2	NA

Dell EMC	XtremIO <sup>b</sup>	4.0.15-x (XMS 4.2.1)	Operating environment for XtremIO	NA
Dell EMC	Unity HFA/AFA	4.2.0.9392909	Operating environment for Unity	N/A
Dell EMC	ScaleIO	1.32.5 2.0.0.2	Operating environment for ScaleIO	NA
<b>Footnotes:</b>				
a) VMAX3 is supported for disaster recovery with VPLEX Local. Both Source and Target must be VMAX3 arrays. b) XtremIO DR support with RecoverPoint (Source & Target=XtremIO)				
<b>Switches:</b>				
All FC SAN switches (2 Gb/s or greater) from EMC Connectrix®, Brocade, Cisco, QLogic for host and storage connectivity are supported. Refer to the Switched Fabric Topology Parameters table located on the E-Lab Navigator (ELN) at <a href="https://elabnavigator.emc.com">https://elabnavigator.emc.com</a> for supported switch fabric interoperability firmware and settings				

Vendor	Product	Versions	Notes	Lifecycle Exception
<b>Integration Software</b>				
Dell EMC	Connectrix Manager Converged Network Edition	12.4.1	CMCNE, management application	N/A
Dell EMC	PowerPath® / VE	6.1	Multipathing and load balancing for block access	N/A
Dell EMC	PowerPath Virtual Appliance	2.1	VM-based virtual appliance	N/A
Dell EMC	SE/SMI-S for VMAX3	SE: 8.4.0.8 SMI: 8.4.0.3	Required CLI software for VMAX for Windows storage management	N/A
Dell EMC	SE/SMI-S for VNX	SE: 7.6.2.102 SMI-S: 4.6.2.30	EMC SMI-S Provider for Windows x64	N/A
Dell EMC	EMC ViPR	3.6.0.2	Build 3.6.0.2-613   EMC ViPR software-defined storage	N/A

Dell EMC	ViPR SRM	3.7.2	EMC ViPR Storage Resource Management Suite	N/A
Dell EMC	EHC Foundation Module	4.1.2	EHC Package and workflows	N/A
<p><b>Notes:</b>  Continuous Availability and Disaster Recovery are two very different solutions for EMC Enterprise Hybrid Cloud.</p> <ul style="list-style-type: none"> <li>• Continuous Availability — Provided by EMC VPLEX and VMware High Availability.</li> <li>• Disaster Recovery — Provided by EMC RecoverPoint with VMware Site Recovery Manager. <ul style="list-style-type: none"> <li>○ VPLEX Local with RecoverPoint is supported for disaster recovery. Both the Source and Target arrays must be the same type.</li> </ul> </li> </ul>				

Vendor	Product	Versions	Notes	Lifecycle Exception
<b>Virtualization Software</b>				
VMware	vSphere ESXi VMware server hypervisor	6.0U3b Express Patch 7a	Build 5224934     All other platforms Older versions of ESXi that form part of the RCMs range listed in this ESSM are also supported.	
VMware	vCenter Server for Windows	6.0U3b	Build 5326177   Installer build vSphere management server	
VMware	vCenter Server Appliance	6.0U3b	Build 5326177   Installer build vSphere management server	
VMware	NSX for vSphere	6.2.7	Build 5343628   VMware Virtual Networking	2018/08/20
VMware	NSX Plug-in for vRealize Orchestrator	1.0.5	Build 5508763   VMware vRealize Orchestrator Plug-in for NSX	2018/08/20

VMware	vRealize Automation	7.3 <sup>c</sup>	Build 5610496   VMware cloud management and infrastructure	2019/12/17
VMware	vRealize Business for Cloud	7.3	Build 5675340   vRealize Business for Cloud	2019/03/15
VMware	vRealize Orchestrator Appliance	7.3	Build 5521409   vCenter orchestration engine	2018/12/17
VMware	vRealize Log Insight	4.3	Build 5084751 vCenter log analytics and management	2018/11/15
VMware	vRealize Operations Manager	6.5	Build 5097674   Appliance installation version	2018/08/23
Dell EMC	ViPR Plug-in for VMware vRealize Orchestrator	3.6	Build 3.6.0.0.69   EMC ViPR plug-in for VMware vCO	N/A
Microsoft	SQL Server	2014 SP2	Database server for VMware vCenter and vRealize Automation (vRA)	
Microsoft	Windows Server	2012 R2	Operating system for the server environment	
<p><b>Footnote:</b></p> <p>a) For a list of supported guest operating systems, refer to <a href="http://www.vmware.com/resources/compatibility/search.php?deviceCategory=software">http://www.vmware.com/resources/compatibility/search.php?deviceCategory=software</a>. For additional information, refer to the Guest Operating System Installation Guide at <a href="http://www.vmware.com/pdf/GuestOS_guide.pdf">http://www.vmware.com/pdf/GuestOS_guide.pdf</a>.</p> <p>b) Build Numbers for VMware products are identified in <a href="#">VMware KB 1014508</a>.</p> <p>c) The catalogue item hotfix must be applied as per the release notes (VMware Defect: 1911478 Build number: 6128543) - Artifacts: advanced-designer-service.war, forms-service.war and catalog-service.war</p>				

## Tier 2 Supported Components

Vendor	Product	Versions	Notes	Lifecycle Exception
<b>Disaster Recovery</b>				
<b>Array based Replication</b>				

Dell EMC	EHC Disaster Recovery Module	4.1.2	EHC Package and workflows	N/A
Dell EMC	RecoverPoint CL/EX	4.4 SP1 P1	Disaster Recovery solution	N/A
Dell EMC	RecoverPoint SRA	2.2.0.3	Storage Replication Adapter for VMware vCenter Site Recovery Manager	N/A
Dell EMC	ViPR SRA	5.0.5.163	EMC ViPR Storage Replication Adapter	N/A
VMware	SRM Plug-in for vRealize Orchestrator	6.1.2	Build 5958739   Site Recovery Manager plug-in for vRealize Orchestrator	
VMware	vCenter Site Recovery Manager	6.1.2	Build 5077693   VMware vCenter Site Recovery Manager (Used in the disaster recovery solution)	
VMware	PowerCLI	6.0.0	Build 3205540	N/A
Open Source	Python	2.7.12	Windows x86-64 MSI	N/A
Open Source	IPy Python Module	0.83	Python class and tools for handling of IPv4 and IPv6 addresses and networks	N/A
Open Source	Requests Python Module	2.10.0	Python Library to HTTP/1.1 requests	N/A
Footnotes:				
a) RecoverPoint SE is not currently supported				
b) Please log an SR with RP4VM support to request this engineering build, please also check technical notes for the latest deployment details via ASKEHC (internal only).				
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.0.SP1.P2(e.265)	N/A
Dell EMC	EMC Hybrid Cloud RP4VM Plug-in	Plug-in 4.1.2	EHC Plugin for RP4VM	N/A
<b>Continuous Availability</b>				
Dell EMC	EMC VPLEX <sub>(d)</sub>	6.0 P1	VPLEX Build 6.0.0.01.00.07	N/A
<b>Data Protection</b>				
Dell EMC	EHC Data Protection Module	4.1.2	EHC Package and workflows	N/A
Dell EMC	Avamar <sup>a</sup>	7.4.1-58	Build 58	N/A

Dell EMC	Data Domain Operating System	Compatible 6.0.x and 6.1.0.x. versions	Operating system for Data Domain appliance <sup>b</sup>	N/A
Dell EMC	Data Protection Advisor (DPA)	6.3.0.7	Data protection management software	N/A
VMware	OVF-Tool	4.2.0-4586971	Required for Avamar Proxy provisioning	

**Footnotes:**

- a) Avamar VE is not officially supported in production. Currently, it is only supported as proof of concept (PoC) for EHC.
- b) Data Domain version support is dictated by Avamar version support. If an Avamar release supports Data Domain then EHC supports this release:  
<http://compatibilityguide.emc.com:8080/CompGuideApp/>
- c) Hotfix 283346 and AvPlatformOsRollup\_SLES11SP3-2017-Q1-v9 OS update applied
- d) A newer version of VPLEX is available in the appendix.
- e) Recommended DDOS 6.0.2.x as a minimum.

**Encryption Services**

Dell EMC	CloudLink SecureVM	6.0 P1	Build 23945.6.23966.23956	N/A
Dell EMC	CloudLink plug-in for vRealize Orchestrator	6.0	Build 37	N/A
Dell EMC	EHC-Encryption Package	4.1.2	Build 118	N/A

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 03  
**Platform Appendix Posting Date: September 15, 2017**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 09/15/17 Version	Reason for change
<b>Storage Arrays</b>				
Dell EMC	ScaleIO	1.32.5 2.0.0.2	2.0.1.1	Security vulnerabilities present in 2.0.0.2. NOTE: this is for standalone ScaleIO implementations only, 2.0.1.1 is not supported in VxRack Flex RCM.
<b>Integration Software</b>				
Dell EMC	ViPR SRM	3.7.2	4.1	Required to support later microcode
<b>Continuous Availability</b>				
Dell EMC	EMC VPLEX	6.0 P1	6.0 SP1 P4 6.0.1.04.00.09	Addresses security vulnerabilities
<b>Data Protection</b>				
Dell EMC	Avamar	7.4.1-58	Addition of HF 283346	HF addresses security vulnerabilities in build 58.



EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 04

**Platform Appendix Posting Date: October 13, 2017**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 10/13/17 Version	Reason for change
<b>Storage Arrays</b>				
Dell EMC	XtremIO	4.0.15-x (XMS 4.2.1)	4.0.25-x (XMS 4.2.2)	Requires ViPR 3.6.0 as a minimum
<b>Integration Software</b>				
Dell EMC	EMC ViPR	3.6.0.2	3.6.1.0-193	Adds support for new platforms and features: Note vRO Plugin is the same as 3.6.0 SMI-S providers can be upgraded per the ViPR support matrix to align with this version also.
Dell EMC	PowerPath® / VE	6.1	6.2	Addresses bugs in previous version
<b>Virtualization Software</b>				
VMware	NSX for vSphere	6.2.7	6.2.8 Build: 5901733	Addresses bugs in previous version
VMware	vRealize Operations Manager	6.5	6.6.1 Build: 6163035	Addresses bugs in previous version and incorporates new features
<b>Disaster Recovery</b>				
<b>Array based Replication</b>				
Dell EMC	ViPR SRA	5.0.5.163	5.0.5.171	Configuration change for timeout value
<b>Data Protection</b>				
Dell EMC	Avamar	7.4.1-58	Addition of Security rollup Q22017 + HF283346	HF addresses security vulnerabilities in build 58.

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 05  
**Platform Appendix Posting Date: December 15, 2017**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 12/15/17 Version	Reason for change
<b>Integration Software</b>				
Dell EMC	ViPR SRM	3.7.2	4.1.1 with Apache Struts2 HF	Adds support for new platforms and features: Note vRO Plugin is the same as 3.6.0
<b>Virtualization Software</b>				
VMware	NSX for vSphere	6.2.7	6.2.9 Build: 6926419	Addresses bugs in previous version
<b>Disaster Recovery</b>				
<b>Array based Replication</b>				
Open Source	Python	2.7.12	2.7.13	Address vulnerability
<b>Data Protection</b>				
Dell EMC	Data Protection Advisor (DPA)	6.3.0.7	6.3.0.118	HF addresses security vulnerabilities

EMC Simple Support Matrix Appendix **(Introduces vSphere 6.5 Support)**

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 06

**Platform Appendix Posting Date: February 28, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 2/28/18 Version	Reason for change
<b>CI/HCI Platforms</b>				
Dell EMC	VxBlock 340, 350, 540, 740 <sup>c</sup>	RCM 6.0.5 thru 6.0.16	RCM 6.0.17 thru 6.0.19	Updated to include new versions from factory – note an IA may be required for certain EHC components on a higher revision.
Dell EMC	VxBlock 340, 350, 540, 740 <sup>c</sup>	Not applicable	RCM 6.5.3	Adds support for <b>vSphere 6.5</b> new install/upgrade. Note also requires the EHC Update 3 modules Foundation/Data Protection/SRM Disaster Recovery.
<b>Storage Arrays</b>				
Dell EMC	XtremIO	4.0.15-x (XMS 4.2.1)	6.0.0 (XMS 6.0.0)	XtremIO X 2 Support - requires ViPR 3.6.0 as a minimum
Dell EMC	Unity HFA/AFA	4.2.0.9392909	4.2.1.953	Requires ViPR 3.6.0 as a minimum
<b>Integration Software</b>				
Dell EMC	PowerPath Virtual Appliance	2.1	2.2 SP1	Updated to match PPVE 6.2 and latest version.
Dell EMC	Connectrix Manager Converged Network Edition	12.4.1	14.2.0	Requires ViPR 3.5.0 or later, recommended 3.6.1.x
<b>Virtualization Software (vSphere 6.0)</b>				
VMware	vSphere ESXi VMware server hypervisor	6.0U3b	6.0 Update 3 Patch 6: 6921384	Supported with RCM 6.0.19
VMware	vCenter Server for Windows & Appliance	6.0U3b	6.0 Update 3d: Build 7464194	Supported with RCM 6.0.19
<b>Virtualization Software (vSphere 6.5)</b>				

VMware	vSphere ESXi VMware server hypervisor	N/A	6.5U1 Patch 2 Build: 7388607	Supported with RCM 6.5.3 only (Manufacturing RCM)
VMware	vCenter Server for Windows & Appliance	N/A	6.5U1e Build: 7515524	Supported with RCM 6.5.3 only (Manufacturing RCM)
<b>Virtualization Software</b>				
VMware	NSX for vSphere	6.2.7	6.3.5 Build: 7119875	Requires CPSD IA if running on a Block with RCM 6.0.x or 6.5.x.
VMware	vRealize Business for Cloud	7.3	7.3.1 Build: 6400451	Adds bug fixes.
<b>Disaster Recovery</b>				
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.0.1.3	Bug and vulnerability fixes.
<b>Array based Replication</b>				
VMware	vCenter Site Recovery Manager	6.1.2	6.5.1 Build: 6014840	Note also requires the EHC Update 3 modules Foundation/Data Protection/SRM Disaster Recovery.
VMware	SRM Plug-in for vRealize Orchestrator	6.1.2	6.5.1 See note <sup>(b)</sup>	Note also requires the EHC Update 3 modules Foundation/Data Protection/SRM Disaster Recovery.
<b>Data Protection</b>				
Dell EMC	Avamar	7.4.1-58	7.5.0-183	Latest feature update and addresses bugs/vulnerabilities.
Dell EMC	Avamar <sup>a</sup>	7.4.1-58 or 7.5.0-183	ESA-2017-167	Avamar 2017 Q3 OS Security Roll Up: KB515202
Dell EMC	Avamar <sup>a</sup>	7.4.1-58 or 7.5.0-183	ESA-2018-001	Avamar 7.x Hotfix: KB515814
<b>Footnotes:</b>				
<p>a) Avamar vulnerabilities ESA-2017-167 &amp; ESA-2018-001 require security roll ups and hotfixes, see support.emc.com/kb/515202 &amp; support.emc.com/kb/515814 for details.</p> <p>b) Please contact Engineering or the CSE team directly or via ASKEHC for instructions on obtaining the SRM 6.5.1 vRO build: 7358040 required during upgrades to 4.1.2 with vSphere 6.5 and SRM 6.5.1.</p> <p>c) Please check addendum versions of RCM as well for supported array versions listed above</p> <p>d) All components are supported under either vSphere 6.5 or vSphere 6.0</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 07

**Platform Appendix Posting Date: April 13, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 4/13/18 Version	Reason for change
<b>CI/HCI Platforms</b>				
Dell EMC	VxBlock 340, 350, 540, 740 <sup>c</sup>	RCM 6.0.5 thru 6.0.16	RCM 6.0.20	Updated to include new versions from factory – note an IA may be required for certain EHC components on a higher revision. <b>VxBlock 350</b> requires an IA to use Unity code below.
Dell EMC	VxBlock 340, 350, 540, 740 <sup>c</sup>	Not applicable	RCM 6.5.4	Adds support for <b>vSphere 6.5</b> new install/upgrade. Note also requires the EHC Update 3 modules Foundation/Data Protection/SRM Disaster Recovery. <b>VxBlock 350</b> requires an IA to use Unity code below.
Dell EMC	VxRack Flex 1000	RCM 3.0.7 (Q) RCM 3.2.2 (D)	RCM 3.0.9 (Q) RCM 3.2.4 (D)	Add support for new vSphere 6.0 based versions.
<b>Storage Arrays</b>				
Dell EMC	Unity HFA/AFA	4.2.0.9392909	4.3.1.152	Requires an IA when used with latest RCMs above.
Dell EMC	ScaleIO	1.32.5 2.0.0.2	2.0.1.x	2.0.1.4 Requires an RCM upgrade to 3.2.4 as above. Note this will likely be the final release train with ViPR versions.
<b>Integration Software</b>				

Dell EMC	PowerPath Virtual Appliance	2.1	2.3	Updated to resolve issues
Dell EMC	EMC ViPR	3.6.0.2	3.6.1.4 (b212)	Updated to resolve issues
Dell EMC	ViPR SRM	3.7.2	4.2	New features and issues resolved.
<b>Continuous Availability</b>				
Dell EMC	EMC VPLEX	6.0 P1	6.0 SP1 P7 6.0.1.07.00.04	Addresses security vulnerabilities
<b>Virtualization Software</b>				
VMware	vCenter Server for Windows & Appliance	N/A	6.5U1f Build: 7801515	Supported with RCM 6.5.4 only (Manufacturing RCM)
VMware	NSX for vSphere	6.2.7	6.3.6 Build: 8085122	Requires CPSD IA if running on a Block with RCM 6.0.x or 6.5.x.
VMware	vRealize Automation	7.3	VMSA-2018-0006	Please refer to footnotes
VMware	vRealize Log Insight	4.3	4.5 Build: 5654101	Latest tested version.
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.0.1.3 B:5.0.SP1.P3.HF4_e.294	Hot fixes addresses issues discovered.
<b>Data Protection</b>				
Dell EMC	Avamar <sup>a</sup>	7.4.1-58 or 7.5.0-183	DSA-2018-047	Avamar 2018 Q1 Security roll up: Hotfix DSA-2018-047
Dell EMC	Data Protection Advisor (DPA)	6.3.0.7	6.5	Adds new features/address vulnerabilities
<b>Footnotes:</b>				
<p>a) In VMSA-2018-0006 VMware identifies a Critical issue that is fixed with a patch documented in:</p> <ol style="list-style-type: none"> <li>1. <a href="https://kb.vmware.com/s/article/52316">https://kb.vmware.com/s/article/52316</a></li> <li>2. <a href="https://kb.vmware.com/s/article/52326">https://kb.vmware.com/s/article/52326</a></li> <li>3. VMSA - <a href="https://www.vmware.com/us/security/advisories/VMSA-2018-0006.html">https://www.vmware.com/us/security/advisories/VMSA-2018-0006.html</a></li> </ol> <p>b) Note: latest firmware versions require the most recent version of ViPR listed in the ESSM, refer to the ViPR support matrix for further clarification.</p> <p>c) Please check addendum versions of RCM as well for supported array versions listed above</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 08

**Platform Appendix Posting Date: May 25, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 5/25/18 Version	Reason for change
<b>Integration Software</b>				
Dell EMC	ViPR SRM	3.7.2	4.2.1	New features and issues resolved, adds compatibility for DPA 6.5
<b>Virtualization Software (vSphere 6.0)</b>				
VMware	vSphere ESXi VMware server hypervisor	6.0 Express Patch 6 Express Patch 7	6.0 U3e Build: 7967664	Requires CPSD IA if running on a Block with RCM 6.0.x – Addresses VMSA-2018-0004
<b>Virtualization Software (vSphere 6.5)</b>				
VMware	vCenter Server for Windows & Appliance	6.5U1e Build: 7515524	6.5U1g Build: 8024368	Requires CPSD IA if running on a Block with RCM 6.5.x – Addresses VMSA-2018-0004
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.1.1.3 B: 5.1.SP1.P3_d.217	Hot fixes addresses issues discovered (requires U4 Packages)
<b>Footnotes:</b>				
<p>a) Please check addendum versions of RCM as well for supported array versions listed above</p> <p>b) All components are supported under either vSphere 6.5 or vSphere 6.0 with the exception of SRM DR (Site Recovery Manager based Disaster Recovery) – the EHC Update 3/Update modules are not compatible with vSphere 6.0 &amp; SRM 6.1.2 due to API changes made to support vSphere 6.5 – if you wish to use EHC Update 3/Update 4 code you MUST UPGRADE to vSphere 6.5/ SRM 6.5.1 (See revision 6 above).</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 09

**Platform Appendix Posting Date: July 13, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 7/13/18 Version	Reason for change
<b>CI/HCI Platforms</b>				
Dell EMC	VxBlock 340, 350, 540, 740 <sup>c</sup>	RCM 6.0.5 thru 6.0.16	RCM 6.0.21	Updated to include new versions from factory – note an IA may be required for certain EHC components on a higher revision. <b>VxBlock 350</b> requires an IA to use Unity code compatible with ViPR below (see ViPR SSM) if not using 6.0.21
Dell EMC	VxBlock 340, 350, 540, 740 <sup>c</sup>	Not applicable	RCM 6.5.5	Adds support for <b>vSphere 6.5</b> new install/upgrade. Note also requires the EHC Update 3 modules Foundation/Data Protection/SRM Disaster Recovery. <b>VxBlock 350</b> requires an IA to use Unity code compatible ViPR below (see ViPR SSM) if not using 6.5.5
<b>Storage Arrays</b>				
Dell EMC	Unity HFA/AFA	4.2.0.9392909	4.3.1.152	Support ViPR 3.6.0/3.6.1/3.6.2
<b>Integration Software</b>				
Dell EMC	ViPR	3.6.0.2	3.6.2	Vulnerability fixes / component support. <b>IMPORTANT</b> see note a) below
VMware	PowerCLI	6.0.0	6.5 (Build: 7155375)	For use with vSphere 6.5 – missing from previous vSphere 6.5 support.
<b>Virtualization Software (vSphere 6.0)</b>				
VMware	vCenter Server for Windows & Appliance	6.0U3b	6.0U3f Build: 8874690	Fixes VMSA-2018-0012.1 – requires an IA for any current RCM.
<b>Data Protection</b>				
Dell EMC	Avamar <sup>a</sup>	7.4.1-58 or 7.5.0-183	Q2 2018 Security Roll Up & DSA-2018-102	<a href="https://support.emc.com/kb/521726">https://support.emc.com/kb/521726</a> & <a href="https://support.emc.com/kb/521680">https://support.emc.com/kb/521680</a>



<b>Disaster Recovery - Array based Replication</b>				
Dell EMC	Recoverpoint Classic CL/EX	4.4 SP1 P1	5.0.1.3	Vulnerability fixes / component support (requires new SRA & ViPR 3.6.2.x). <b>IMPORTANT</b> see note a/b) below
Dell EMC	ViPR SRA	5.0.5.163	5.0.5.174	Vulnerability fixes / component support (requires RP 5.0 & ViPR 3.6.2.x). <b>IMPORTANT</b> see note a/b) below
<b>Footnotes:</b>				
<p>a) For SRM DR - Recoverpoint 5.0 support requires ViPR 3.6.2 and the updated SRA 5.0.5.174 to use with vSphere 6.0/SRM 6.1.2 please file an RPQ to evaluate support criteria. If not using SRM DR ViPR 3.6.2 can be used with any other configuration or EHC update release.</p> <p>b) All components are supported under either vSphere 6.5 or vSphere 6.0 with the exception of SRM DR (Site Recovery Manager based Disaster Recovery) – the EHC Update 3/Update 4 modules are not compatible with vSphere 6.0 &amp; SRM 6.1.2 due to API changes made to support vSphere 6.5/SRM 6.5.1 – if you wish to use EHC Update 3/Update 4 code you <b>MUST UPGRADE</b> to vSphere 6.5/SRM 6.5.1 (See revision 6 above).</p>				

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 10  
**Platform Appendix Posting Date: August 1st, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 08/01/18 Version	Reason for change
<b>Integration Software</b>				
Dell EMC	ViPR	3.6.0.2	3.6.2.1	Vulnerability fixes / component support. <b>IMPORTANT</b> see note a) below
<b>Virtualization Software (vSphere 6.5)</b>				
VMware	vCenter Server for Windows & Appliance	N/A	ESXi 6.5U2b Build: 8935087	Vulnerability mitigation: <a href="https://www.vmware.com/security/advisories/VMSA-2018-0012.html">https://www.vmware.com/security/advisories/VMSA-2018-0012.html</a>
VMware	vSphere ESXi VMware server hypervisor	N/A	vCenter 6.5 U2b Build: 8815520	Vulnerability mitigation: <a href="https://www.vmware.com/security/advisories/VMSA-2018-0012.html">https://www.vmware.com/security/advisories/VMSA-2018-0012.html</a>
VMware	VMware vRealize Automation	7.3	<del>7.3.1</del> Build: 8004225	<b>Support withdrawn</b> – issues discovered so EHC Engineering have withdrawn support until further notice.
VMware	VMware vRealize Orchestrator	7.3	<del>7.3.1</del> Build: 8002898	<b>Support withdrawn</b> - issues discovered so EHC Engineering have withdrawn support until further notice.
<b>Disaster Recovery - Array based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.1.1.5	Hot fixes addresses issues discovered (requires U4 Packages)
<b>Disaster Recovery - Array based Replication</b>				
Dell EMC	Recoverpoint Classic CL/EX	4.4 SP1 P1	5.1.2	Vulnerability fixes / component support (requires new SRA & ViPR 3.6.2.x). <b>IMPORTANT</b> see note a/b) below
Dell EMC	ViPR SRA	5.0.5.163	5.0.5.174	Vulnerability fixes / component support (requires RP 5.0 & ViPR 3.6.2.x). <b>IMPORTANT</b> see note a/b) below
<b>Footnotes:</b>				
<p>a) For SRM DR - Recoverpoint 5.1 support requires ViPR 3.6.2.x and the updated SRA 5.0.5.174 to use with vSphere 6.0/SRM 6.1.2 please file an RPQ to evaluate support criteria as there are certain caveats that should be observed.</p> <p>b) All components are supported under either vSphere 6.5 or vSphere 6.0 with the exception of SRM DR (Site Recovery Manager based Disaster Recovery) – the EHC Update 3/Update 4 modules are not compatible with vSphere 6.0 &amp; SRM 6.1.2 due to API changes made to support vSphere</p>				

6.5/SRM 6.5.1 – if you wish to use EHC Update 3/Update 4 code you MUST UPGRADE to vSphere 6.5/SRM 6.5.1 (See revision 6 above).

- c) In vRA 7.3.1 an issue was identified with certain catalogue item logic not working, a hotfix has been made available by VMware to remediate this issue. Please contact EHC engineering or the CSE team to obtain Hotfix 2154143 which contains instructions and a new catalogue-service.war file. SHA1#b08a5b1cb6defd5b376a9d3f3b02fd87c28d6f71 for vRA\_731\_HF\_2154143.zip

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 11

**Platform Appendix Posting Date: September 7th, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 09/07/18 Version	Reason for change
<b>Virtualization Software</b>				
VMware	vRealize Operations Manager	6.5	6.7	New product release / support with enhancements.
VMware	vRealize Log Insight	4.3	4.6.1	New product release / support with enhancements.
VMware	vRealize Business for Cloud	7.3	7.4.0	New product release / support with enhancements.
VMware	NSX Plug-in for vRealize Orchestrator	1.0.5	1.2.0	Supported when using NSX 6.3.x and above with vRA 7.3/vRO 7.3
Microsoft	SQL Server	2014 SP2	2016	New product support
Microsoft	Windows Server	2012 R2	2016	New product support
<b>Virtualization Software (vSphere 6.0)</b>				
VMware	vCenter Server for Windows & Appliance	6.0U3b	6.0U3h Build: 9448190	Vulnerability mitigation (L1TF): <a href="https://www.vmware.com/security/advisories/VMSA-2018-0020.html">https://www.vmware.com/security/advisories/VMSA-2018-0020.html</a> Note: May require an IA if using on a VxBlock – depending on the RCM being used.
VMware	vSphere ESXi VMware server hypervisor	6.0U3b	6.0U3f Build 8934903	Vulnerability mitigation: <a href="https://www.vmware.com/security/advisories/VMSA-2018-0012.html">https://www.vmware.com/security/advisories/VMSA-2018-0012.html</a> Note: May require an IA if using on a VxBlock – depending on the RCM being used.
VMware	vSphere ESXi VMware server hypervisor	6.0U3b	ESXi 6.0 Patch Release Build: 9313334	Vulnerability mitigation for CVE-2018-3646 (L1TF): <a href="https://kb.vmware.com/s/article/56548?lang=en_US">https://kb.vmware.com/s/article/56548?lang=en_US</a> Note: May require an IA if using on a VxBlock – depending on the RCM being used.
<b>Virtualization Software (vSphere 6.5)</b>				

VMware	vCenter Server for Windows & Appliance	6.5U2b	6.5U2c Build: 9451637	Vulnerability mitigation (L1TF): <a href="https://www.vmware.com/security/advisories/VMSA-2018-0020.html">https://www.vmware.com/security/advisories/VMSA-2018-0020.html</a> Note: May require an IA if using on a VxBlock – depending on the RCM being used.
VMware	vSphere ESXi VMware server hypervisor	6.5U2b	ESXi 6.5 Patch Release Build: 9298722	Vulnerability mitigation (L1TF):: <a href="https://www.vmware.com/security/advisories/VMSA-2018-0020.html">https://www.vmware.com/security/advisories/VMSA-2018-0020.html</a> Note: May require an IA if using on a VxBlock – depending on the RCM being used.
<p><b>Note:</b> It is recommended that you review your compute requirements when moving to vROps 6.7 and consult the following KB: <a href="https://kb.vmware.com/s/article/54973">https://kb.vmware.com/s/article/54973</a></p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 12

**Platform Appendix Posting Date: October 9th, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 10/09/18 Version	Reason for change
<b>CI/HCI Platforms</b>				
Dell EMC	VxRack Flex 1000	RCM 3.2.2	RCM 3.2.5 (6.0)	Add support for new vSphere 6.0 based versions.
Dell EMC	VxRack Flex 1000	N/A	RCM 3.3.2 (6.5)	Add support for new vSphere 6.5 based versions.
<b>Storage Arrays</b>				
Dell EMC	Unity HFA/AFA	4.2.0.9392909	Patch to 4.3.1.1525703027	Patch required relating to DSA-2018-101, see <a href="https://support.emc.com/kb/522032">https://support.emc.com/kb/522032</a>
Dell EMC	VMAX 400K, 200K, 100K, 450F, 440FX, 850F 850FX	Enginuity 5977.691 (min) 5977.1125 (max)	Enginuity 5977.691 (min) 5977.1131 (max)	Microcode version 5977.1125 and above would require SE8.4.0.0 (SMI-S 8.4.0.0) and above
<b>Integration Software</b>				
Dell EMC	ViPR	3.6.0.2	3.6.2.2	Supported due to vulnerability in <a href="https://support.emc.com/kb/525722">KB-525722</a>
<b>Data Protection</b>				
Dell EMC	Avamar <sup>a</sup>	7.4.1	Security Hotfix	Hotfix required, refer to <a href="https://support.emc.com/kb/525135">https://support.emc.com/kb/525135</a>
<b>IMPORTANT NOTE: Please refer to Revision 10 of the ESSM further back in this document to note EHC Engineering have removed support for vRA/vRO 7.3.1 – existing users have been contacted.</b>				

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 13  
**Platform Appendix Posting Date: October 15th, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 10/15/18 Version	Reason for change
<b>Disaster Recovery - Array based Replication</b>				
Dell EMC	Recoverpoint Classic CL/EX	4.4 SP1 P1	5.1.2	Vulnerability fixes / component support (requires new SRA & ViPR 3.6.2). <b>IMPORTANT</b> see note a/b) below
<p><b>IMPORTANT NOTE: Please refer to Revision 10 of the ESSM further back in this document to note EHC Engineering have removed support for vRA/vRO 7.3.1 – existing users have been contacted.</b></p> <p>a) For SRM DR - Recoverpoint 5.1 support requires ViPR 3.6.2 and the updated SRA 5.0.5.174 to use with vSphere 6.0/SRM 6.1.2 please file an RPQ to evaluate support criteria as there are certain caveats that should be observed.</p> <p>b) All components are supported under either vSphere 6.5 or vSphere 6.0 with the exception of SRM DR (Site Recovery Manager based Disaster Recovery) – the EHC Update 3/Update 4 modules are not compatible with vSphere 6.0 &amp; SRM 6.1.2 due to API changes made to support vSphere 6.5/SRM 6.5.1 – if you wish to use EHC Update 3/Update 4 code you <b>MUST UPGRADE</b> to vSphere 6.5/SRM 6.5.1 (See revision 6 above).</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 14

**Platform Appendix Posting Date: November 27th, 2018**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 11/27/18 Version	Reason for change
<b>Storage Arrays</b>				
Dell EMC	VMAX3 All Flash & PowerMax	Enginuity 5977.691 (min) 5977.1125 (max)	Enginuity 5977.691(min)12 5978.221(max)	Please check the ViPR Support Matrix to confirm versions of SMI-S provider supported.
<b>Virtualization Software</b>				
VMware	vSphere ESXi VMware server hypervisor	6.0U3b	Security Hotfix	Please refer to <a href="https://www.vmware.com/security/advories/VMSA-2018-0027.html">https://www.vmware.com/security/advories/VMSA-2018-0027.html</a> For hotfix details  Note only CVE-2018-6981 applies to 6.0, CVE-2018-6982 does not apply to 6.0.
VMware	vSphere ESXi VMware server hypervisor	6.5U2b	Security Hotfix	Please refer to <a href="https://www.vmware.com/security/advories/VMSA-2018-0027.html">https://www.vmware.com/security/advories/VMSA-2018-0027.html</a> For hotfix details
VMware	NSX for vSphere	6.2.7	6.4.3 Build: 9927516	Requires CPSD IA if running on a Block with RCM 6.0.x or 6.5.x. Requires Update 5 workflows and EHC RP4VM plugins
VMware	vRealize Log Insight	4.3	4.7.1 (vRA 7.3.1 and above) Build: 5084751  4.6.2 (vRA 7.3) Build: 10739230	Incorporates security update to address: <a href="https://www.vmware.com/security/advories/VMSA-2018-0028.html">https://www.vmware.com/security/advories/VMSA-2018-0028.html</a>
<b>Integration Software</b>				
Dell EMC	ViPR SRM	3.7.2	4.3 + Security Hotfix	ViPR SRM Security Update for Multiple Security Vulnerabilities. <a href="https://support.emc.com/kb/526360">https://support.emc.com/kb/526360</a>
<b>Data Protection</b>				
Dell EMC	Avamar <sup>a</sup>	7.4.1-58 or 7.5.0-183	7.5.1	New feature enhancements and bug fixes.



				Note: Avamar 7.5.1 <b>requires</b> Update 5 workflows and EHC RP4VM plugins
Dell EMC	Avamar <sup>a</sup>	7.4.1-58 7.5.0-183 7.5.1	Security Hotfixes	<p>The following security hotfixes should also be applied to all Avamar versions:</p> <p>Resolves CVE-2018-3620 and CVE-2018-3646 related to L1TF vulnerability. <a href="https://support.emc.com/kb/524646">https://support.emc.com/kb/524646</a></p> <p>Resolves a number of known vulnerabilities:  <a href="https://support.emc.com/kb/527872">https://support.emc.com/kb/527872</a> (DSA-2018-145) <a href="https://support.emc.com/kb/527870">https://support.emc.com/kb/527870</a> (DSA-2018-154) <a href="https://support.emc.com/kb/527868">https://support.emc.com/kb/527868</a> (DSA-2018-154)</p>
Dell EMC	Avamar	7.5.0-183	Security Hotfix	<p>Resolves CVE-2018-11776 – Apache Struts2 Remove Code Execution Vulnerability (DSA-2018-196). Refer to <a href="https://support.emc.com/kb/526176">https://support.emc.com/kb/526176</a> and <a href="https://download.emc.com/downloads/DL91263_Hotfix-301589-Avamar-7.5.0-Security-Update-for-Avamar-Client-Manager.avp?source=OLS">https://download.emc.com/downloads/DL91263_Hotfix-301589-Avamar-7.5.0-Security-Update-for-Avamar-Client-Manager.avp?source=OLS</a></p>
Dell EMC	Avamar	7.5.1	Security Hotfix	<p>CVE-2018-11776 – Apache Struts2 Remove Code Execution Vulnerability ( Refer to: <a href="https://support.emc.com/kb/524948">https://support.emc.com/kb/524948</a> (DSA-2018-196). and <a href="https://download.emc.com/downloads/DL91264_Hotfix-301494-Avamar-7.5.1-Security-Update-for-Avamar-Client-Manager.avp?source=OLS">https://download.emc.com/downloads/DL91264_Hotfix-301494-Avamar-7.5.1-Security-Update-for-Avamar-Client-Manager.avp?source=OLS</a></p>
Dell EMC	Data Protection Advisor (DPA)	6.3.0.7	6.4 & 6.5 Security Hotfix	<p>Addresses vulnerabilities in the Oracle JRE component, refer to: <a href="https://support.emc.com/kb/522361">https://support.emc.com/kb/522361</a> <a href="https://support.emc.com/kb/525860">https://support.emc.com/kb/525860</a></p>

<b>Disaster Recovery - Array based Replication</b>				
Dell EMC	Recoverpoint Classic CL/EX	4.4 SP1 P1	5.1.2.1	Multiple vulnerability fixes (requires new SRA & ViPR 3.6.2.x) Please refer to update 10 for more details.
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.0.2	Multiple vulnerability fixes. Requires Update 5 modules and RP4VM plugin.
<p>Note: Multiple Avamar vulnerabilities are resolved with the application of hotfixes, the specific DSA and hotfix for each Avamar version is listed, 3 DSA's however apply to all Avamar versions listed in the ESSM.</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 15

**Platform Appendix Posting Date: January 11th, 2019**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 1/11/19 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	RCM 6.0.5 thru 6.0.16	RCM 6.0.23	Updates VMware and array versions (XtremIO is pending a ViPR SSM update)
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.5.7	Updates VMware and array versions (XtremIO is pending a ViPR SSM update)
<b>Storage Arrays</b>				
Dell EMC	Unity HFA/AFA	4.2.0.9392909	4.4.0.153	Requires ViPR 3.6.2.x – please refer to ViPR support matrix.
<b>Virtualization Software</b>				
VMware	vCenter Server for Appliance	N/A	6.5 U2d Build: 10964411	Please refer to <a href="https://www.vmware.com/security/advories/VMSA-2018-0021.html">https://www.vmware.com/security/advories/VMSA-2018-0021.html</a>
VMware	vSphere ESXi VMware server hypervisor	6.5U2b	Security Hotfix	Please refer to <a href="https://www.vmware.com/security/advories/VMSA-2018-0026.html">https://www.vmware.com/security/advories/VMSA-2018-0026.html</a> For hotfix details ESXi 6.5: ESXi650-201808401-BG <a href="https://kb.vmware.com/s/article/56547">https://kb.vmware.com/s/article/56547</a>
VMware	vSphere ESXi VMware server hypervisor	6.5U2b	6.5u2c ep11	Approval to upgrade if required for security vulnerabilities are resolved in vSphere ESX. (DSA-2018-214)
VMware	vSphere ESXi VMware server hypervisor	6.5U2b	6.5u2c ep9	Approval to upgrade if required for security vulnerabilities are resolved in vSphere ESX. (DSA-2018-214)
VMware	vSphere ESXi VMware server hypervisor	6.0U3b EXP 7a	Security Hotfix	Please refer to <a href="https://www.vmware.com/security/advories/VMSA-2018-0026.html">https://www.vmware.com/security/advories/VMSA-2018-0026.html</a> For hotfix details

				ESXi 6.0: ESXi600-201808401-BG <a href="https://kb.vmware.com/s/article/56552">https://kb.vmware.com/s/article/56552</a>
VMware	NSX for vSphere	6.2.7	6.4.4 Build: 11197766	Requires CPSD IA if running on a Block with RCM 6.0.x or 6.5.x. Requires Update 5 workflows and EHC RP4VM plugins
VMware	vRealize Log Insight	4.3	4.7.1 (vRA 7.3.1 and above) Build: 5084751  4.6.2 (vRA 7.3) Build: 10739230	Incorporates security update to address: <a href="https://www.vmware.com/security/advisories/VMSA-2018-0028.html">https://www.vmware.com/security/advisories/VMSA-2018-0028.html</a>
VMware	vRealize Operations Manager	6.5	7.0	New features / versions
VMware	vRealize Operations Manager	6.6.1/6.7/7.0	Security Fix	vRealize Operations 7.0.0.11287810: <a href="https://my.vmware.com/web/vmware/details?downloadGroup=VROPS-700&amp;productId=788&amp;rPId=26497">https://my.vmware.com/web/vmware/details?downloadGroup=VROPS-700&amp;productId=788&amp;rPId=26497</a>  vRealize Operations 6.7.0.11286837: <a href="https://my.vmware.com/web/vmware/details?downloadGroup=VROPS-670&amp;productId=735&amp;rPId=22153">https://my.vmware.com/web/vmware/details?downloadGroup=VROPS-670&amp;productId=735&amp;rPId=22153</a>  vRealize Operations 6.6.1.11286876: <a href="https://my.vmware.com/web/vmware/details?downloadGroup=VROPS-661&amp;productId=656&amp;rPId=21231">https://my.vmware.com/web/vmware/details?downloadGroup=VROPS-661&amp;productId=656&amp;rPId=21231</a>  Reference: <a href="https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-6978">https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-6978</a>
<b>Integration Software</b>				
Dell EMC	PowerPath® / VE	6.1	6.3	Bug fixes RCM alignment
<b>Data Protection</b>				
Dell EMC	Avamar	7.2 thru 7.5.1	Security Fix	Avamar Platform OS Security Update 2018 R4 – (DSA-2018-228)
Dell EMC	Data Protection Advisor (DPA)	6.4 / 6.5	Security Fix	The Oracle JRE component within Dell EMC Data Protection Advisor requires a security update to address various vulnerabilities: <a href="https://www.oracle.com/technetwork/s">https://www.oracle.com/technetwork/s</a>

				<a href="https://www.emc.com/cisco/psirt/security-advisory/cpuoct2018-4428296.html#AppendixJAVA">security-advisory/cpuoct2018-4428296.html#AppendixJAVA</a>
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.0.3	Multiple vulnerability fixes. Requires Update 5 modules and RP4VM plugin. Replaces the withdrawn 5.2.0.2.
<p>Notes:</p> <p>Where components state they require a specific EHC Update version to work, this will be because API's have changed between component versions, so that Update and above is required for the component to work.</p> <p>Update 5 and above are required to use NSX 6.4.x and Avamar 7.5.1 due to API/behavior changes, prior updates do not work.</p>				

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 16  
**Platform Appendix Posting Date: March 25, 2019**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 3/25/19 Version	Reason for change
Dell EMC	<b>VxBlock 340, 740</b>	RCM 6.0.5 thru 6.0.16	RCM 6.0.24.0	Note: Excludes VxBlock 350 and 540
Dell EMC	VxBlock 340, 740	Not applicable	RCM 6.5.7	Note: Excludes VxBlock 350 and 540
Dell EMC	VxBlock 1000	N/A	RCM 6.5.8.0	Note: Support only applies to PowerMax initially – ViPR <u>does not</u> support XtremeIO or Unity code revisions.
Dell EMC	VxRack Flex 1000	RCM 3.2.2	RCM 3.2.7.1 (vSphere 6.0)	Add support for new vSphere 6.0 based versions.
Dell EMC	VxRack Flex 1000	N/A	RCM 3.3.4.1 (vSphere 6.5)	Add support for new vSphere 6.5 based versions.
<b>Storage Arrays</b>				
Dell EMC	ScaleIO / FlexOS	2.0.0.2	2.6.1.1	Requires ViPR 3.6.2.x – please refer to ViPR support matrix.
Dell EMC	VPLEX	6.0.0.01.00.07	6.1.0.01.100	Multiple components within Dell EMC VPLEX require a security update to address various vulnerabilities.
<b>Virtualization Software</b>				
VMware	vRealize Automation	7.3	7.5	<p>Requires Update 6 packages and supports vSphere 6.0 and 6.5 (Site Recovery Manager support is only on vSphere 6.5 when using Update 6).</p> <p>Requires cumulative HF8 and a WAR file from EHC Engineering.</p> <p>Cumulative HF can be obtained from: <a href="https://kb.vmware.com/s/article/60310?lang=en_US#q=umulative%20Update%20for%20vRealize%20Automation%207.5">https://kb.vmware.com/s/article/60310?lang=en_US#q=umulative%20Update%20for%20vRealize%20Automation%207.5</a></p> <p>WAR file PR references:            SR 18003465811 - PR 2245702            SR 19083006202 - PR 2292760</p>

VMWare	vRealize Orchestrator Appliance	7.3	7.5 B: 10110089	Requires Update 6 packages and supports vSphere 6.0 and 6.5 (Site Recovery Manager support is only on vSphere 6.5 when using Update 6).  Also apply cumulative update build: 12040663  Can be obtained from VMware support or EHC engineering.
VMware	vRealize Business for Cloud	7.3	7.5	Supported on all current vSphere versions.  Supported on NSX 6.3.5 to 6.3.7 & NSX 6.4.1 and above.  No integration with vROPs 6.6.1 and above.
<b>Data Protection</b>				
Dell EMC	Avamar	GEN 4S	Security Fix	Avamar HF 296482
Dell EMC	Avamar	GEN 4T	Security Fix	Avamar HF 305019 (to address Spectre/Meltdown/SpectreNG/L1TF)
Dell EMC	Avamar	7.5/7.5.1	Security Fix	2019 R1 OS Security Update 2019 R9 – (DSA-2019-048)
Dell EMC	Data Domain Operating System Hardware	DD3300	Security Fix	Refer to Dell EMC iDRAC Advisory for more information: <a href="https://www.dell.com/support/article/us/en/19/sln315190/dell-emc-idrac-multiple-vulnerabilities-cve-2018-15774-and-cve-2018-15776-/Resolution">https://www.dell.com/support/article/us/en/19/sln315190/dell-emc-idrac-multiple-vulnerabilities-cve-2018-15774-and-cve-2018-15776-/Resolution</a> Dell EMC recommends all impacted customers upgrade to Dell EMC iDRAC version 3.21.26.22 firmware at the earliest opportunity.
Dell EMC	Data Domain Operating System	Data Domain Operating System	Security Fix	Oracle JRE, which is an embedded component within Dell EMC Data Domain products, requires a security update to version 8u191 to address various vulnerabilities. Resolution: The following Dell EMC Data Domain releases address this vulnerability: <ul style="list-style-type: none"> <li>• DDOS 6.0.2.40</li> <li>• DDOS 6.1.2.30</li> <li>• DDOS 6.2.0.10</li> </ul>

				<ul style="list-style-type: none"> <li>• DDMC 6.1.2.30</li> <li>• DDMC 6.2.0.10</li> </ul>
<b>Integration Software</b>				
Dell EMC	ViPR	3.6.0.2	3.6.2.3	Updates and fixes
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.0.5	Multiple vulnerability fixes. Requires Update 5 modules and RP4VM plugin. Replaces the withdrawn 5.2.0.4.
<p>Notes:</p> <p>Refer to <a href="#"><b>DSA-2019-041</b></a> for details on the Dell EMC Enterprise Hybrid Cloud 2019 R01 Security Update for Multiple Components</p> <p>Where components state they require a specific EHC Update version to work, this will be because API's have changed between component versions, so that Update and above is required for the component to work.</p> <p>Update 5 and above are required to use NSX 6.4.x and Avamar 7.5.1 due to API/behavior changes, prior updates do not work.</p>				



EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 17

**Platform Appendix Posting Date: June 3, 2019**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 6/3/19 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	RCM 6.0.5 thru 6.0.16	RCM 6.0.24.1	Latest RCM release and compatible versions of array code. VxBlock 350 requires an IA to upgrade to Unity 4.5.1 – 4.4.1 is not supported by ViPR.
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.5.8.1	Latest RCM release and compatible versions of array code. Unity code needs to match ESSM version in this revision of 4.5.1.
Dell EMC	VxBlock 1000	N/A	RCM 6.5.8.1	Latest RCM release and compatible versions of array code. Unity code needs to match ESSM version in this revision of 4.5.1.
<b>Storage Arrays</b>				
Dell EMC	Unity HFA/AFA	4.2.0.9392909	<b><u>4.5.1.0.6.115</u></b>	Supported by ViPR for Block only (not listed on ViPR support matrix – but is supported for EHC Block).  Refer to:  <a href="https://support.emc.com/kb/532131">https://support.emc.com/kb/532131</a> <a href="https://support.emc.com/kb/533378">https://support.emc.com/kb/533378</a>  <b>Note:</b> the version 18 corrects the build number that was incorrect in version 17 when this version of Unity was supported.
Dell EMC	XtremIO	4.0.15-x (XMS 4.2.1)	4.0.2X (XMS 6.1.x XMS 6.2.x) 6.2.1x (XMS 6.2.1)	XtremIO X 2 Support - requires ViPR 3.6.2 as a minimum
<b>Integration Software</b>				
Dell EMC	PowerPath Virtual Appliance	2.1	2.4 / 2.5	Updated to resolve issues

<b>Virtualization Software</b>				
VMware	vSphere ESXi VMware server hypervisor	6.5U2b	6.5 EP14 Build: 13635690	Security rollup for MDS vulnerabilities – will require an IA for use with a VxBlock. <a href="https://kb.vmware.com/kb/52312">https://kb.vmware.com/kb/52312</a>
VMware	vSphere ESXi VMware server hypervisor	6.0U3b EXP 7a	6.0 EP21 Build: 13635687	Security rollup for MDS vulnerabilities – will require an IA for use with a VxBlock. <a href="https://kb.vmware.com/kb/52312">https://kb.vmware.com/kb/52312</a>
VMware	vCenter Server for Appliance	N/A	6.5 U2g Build: 13638625	Security rollup for MDS vulnerabilities – will require an IA for use with a VxBlock. <a href="https://kb.vmware.com/kb/52312">https://kb.vmware.com/kb/52312</a>
VMware	vCenter Server for Appliance	6.0U3b	6.0 U3i Build: 13638623	Security rollup for MDS vulnerabilities – will require an IA for use with a VxBlock. <a href="https://kb.vmware.com/kb/52312">https://kb.vmware.com/kb/52312</a>
VMware	vRealize Operations Manager	6.5	7.5 Build: 13165949	New features / versions  Note: Is only compatible with vRA 7.3.1/7.5
VMware	vRealize Log Insight	4.3	4.8.0 Build: 13036238	Requires vRealize Automation 7.5 and above and vROPs 6.6 and above.
VMware	NSX for vSphere	6.2.7	6.4.5 Build: 13282012	Requires CPSD IA if running on a Block with RCM 6.0.x or 6.5.x. Requires Update 5 workflows and EHC RP4VM plugins
<b>Data Protection</b>				
Dell EMC	Data Protection Advisor (DPA)	6.4 / 6.5	Security Fix- version 6.5 patch 136 or later	Summary: The Oracle JRE component within Dell EMC Data Protection Advisor requires a security update to address various vulnerabilities.  Resolution: The following Dell EMC Data Protection Advisor releases contain a resolution to these vulnerabilities:  <a href="https://support.emc.com/kb/531911">https://support.emc.com/kb/531911</a>
Dell EMC	ViPR SRM	3.7.2	4.3.1	Summary: Multiple components within Dell EMC SRM and SMR require a security update to address various vulnerabilities.

				<a href="https://support.emc.com/kb/532303">https://support.emc.com/kb/532303</a>
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.1 5.2.2	Multiple vulnerability fixes.
<p>Notes:</p> <p><a href="#">DSA-2019-081: Dell EMC Enterprise Hybrid Cloud 2019 Security Update R02 for Multiple Vulnerabilities</a></p> <p>Where components state they require a specific EHC Update version to work, this will be because API's have changed between component versions, so that Update and above is required for the component to work.</p> <p>Update 5 and above are required to use NSX 6.4.x and Avamar 7.5.1 due to API/behavior changes, prior updates do not work.</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 18

**Platform Appendix Posting Date: July 12, 2019**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 7/12/19 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.7.2.1	New vSphere 6.7 release and compatible versions of array code. Unity code needs to match ESSM version in revision 17 above.
Dell EMC	VxBlock 1000	Not applicable	RCM 6.7.2.1	New vSphere 6.7 release and compatible versions of array code. Unity code needs to match ESSM version in revision 17 above.
<b>Virtualization Software (vSphere 6.7)</b>				
VMware	vSphere ESXi VMware server hypervisor	Not applicable	6.7 Update 1 Express Patch 07 Build: 13004448	First release of vSphere 6.7 for EHC on VxBlock and BYO.
VMware	vCenter Server for Appliance	Not applicable	6.7 Update 1 Build@ 10244745	First release of vSphere 6.7 for EHC on VxBlock and BYO.
<b>Virtualization Software</b>				
VMware	vRealize Business for Cloud	7.3	7.6	Minimum supported versions.  vRealize Operations Manager 6.6.1 NSX-V 6.4.2 (6.3.4 – 6.4.1 unsupported)  Other EHC components or updates not listed have no dependencies and are supported.
Microsoft	SQL Server	2014 SP2	2016 SP2	Note: This is for EHC OMDB / vRA IaaS and not for windows based vCenter Server deployments.  CU2 & Security Update should be installed as well: <a href="https://support.microsoft.com/en-us/help/4458621">https://support.microsoft.com/en-us/help/4458621</a>
<b>Data Protection</b>				

Dell EMC	Avamar	7.4.1-58	19.1	New version support – requires Update 5 as a minimum supported version.
Dell EMC	Data Domain Operating System Hardware	DD3300	Security Fix	Upgrade to Dell EMC DDOS versions equal to or later than 6.1.2.40 and 6.2.0.30. This is at iDRAC version 3.30.30.30.  Details: <a href="https://www.dell.com/support/article/us/en/19/sln316930">https://www.dell.com/support/article/us/en/19/sln316930</a>
Dell EMC	Avamar	7.2 thru 7.5.1	Security Fix	HOTFIX 309443 updates the OpenSSL library in Ruby to address this Object Comparison vulnerability.  Refer to KB Article 513978 for instructions on applying the hotfix.
Dell EMC	Avamar	7.2 to 19.1	Security Fix	The 2019 R2 OS Security Update addresses multiple third-party components within the listed Dell EMC Avamar and NetWorker products.
Dell EMC	Avamar	Avamar Gen4S	Security Fix	Validate HF 305834 for Avamar Gen4S to address Spectre / Meltdown / SpectreNG / L1TF: <a href="#">DSA-2019-030: Dell EMC Avamar Security Update for Multiple Multiprocessor Side-Channel Vulnerabilities</a>
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.0.6	Multiple vulnerability fixes.
<p>Notes:</p> <p>Refer to <b>DSA-2019-111</b> for details on the Dell EMC Enterprise Hybrid Cloud 2019 R01 Security Update for Multiple Components</p> <p>Where components state they require a specific EHC Update version to work, this will be because API's have changed between component versions, so that Update and above is required for the component to work.</p> <p>Update 5 and above are required to use NSX 6.4.x and Avamar 7.5.1 due to API/behavior changes, prior updates do not work.</p>				

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 19

**Platform Appendix Posting Date: December 5, 2019 (vRA 7.6 notes updated January 2020)**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 12/05/19 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.5.10	New vSphere 6.5 release and compatible versions of array code. Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 1000	Not applicable	RCM 6.5.10	New vSphere 6.5 release and compatible versions of array code. Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.7.3.0	New vSphere 6.7 release and compatible versions of array code. Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 1000	Not applicable	RCM 6.7.3.0	New vSphere 6.7 release and compatible versions of array code. Requires ViPR 3.6.x for array firmware versions.
<b>Storage Arrays</b>				
Dell EMC	Unity HFA/AFA	4.2.0.9392909	5.0.0.0.5.116	Aligned to above RCM releases
Dell EMC	VMAX 3	EMC Enginuity 5876.229 (min) 5876.309 (max)	HyperMax OS 5977.1131 (max)	Please review the Solutions Enabler version required on the ViPR support Matrix covering this release.
Dell EMC	VMAX 3 (all Flash)	EMC Enginuity 5876.229 (min) 5876.309 (max)	HyperMax OS 5978.221 (max)	Please review the Solutions Enabler version required on the ViPR support Matrix covering this release.
Dell EMC	PowerMax	N/A	PowerMax OS 5978.221 (max)	Please review the Solutions Enabler version required on the ViPR support Matrix covering this release.
Dell EMC	VPLEX	6.0.0.01.00.07	6.1.0.2.x	Multiple components within Dell EMC VPLEX require a security update to address various vulnerabilities.
<b>Integration Software</b>				

Dell EMC	PowerPath® / VE	6.1	6.5	Or any HF written for it.
Dell EMC	PowerPath Management Virtual Appliance	2.1	2.6	Latest version support.
Dell EMC	ViPR	3.6.0.2	3.6.2.4	From ViPR 3.6.1.4 the TLS 1.0 protocol must be disabled for all requests coming into ViPR Controller, allowing only TLS 1.2 and TLS 1.1 (in that order).
<b>Virtualization Software (vSphere 6.5)</b>				
VMware	vSphere ESXi VMware server hypervisor	N/A	6.5 U2H Build: 13843380	Updated release of vSphere 6.5 for EHC on VxBlock and BYO.
VMware	vCenter Server for Appliance	N/A	6.5 U2C Build: 13635690	Updated release of vSphere 6.5 for EHC on VxBlock and BYO.
<b>Virtualization Software (vSphere 6.7)</b>				
VMware	vSphere ESXi VMware server hypervisor	Not applicable	6.7 Update 2 EXP10 Build: 143981272	Updated release of vSphere 6.7 for EHC on VxBlock and BYO.
VMware	vCenter Server for Appliance	Not applicable	6.7 Update 2b Build: 13843380	Updated release of vSphere 6.7 for EHC on VxBlock and BYO.
<b>Virtualization Software</b>				
VMware	vRealize Automation	7.3	7.6 (Updated)	<p>Requires vRA 7.6 <b>HF6</b> &amp; EHC 4.1.2 Update 7</p> <p><a href="https://kb.vmware.com/s/article/70911">https://kb.vmware.com/s/article/70911</a></p> <p>v1.3.3 of the DynamicTypes plugin needs to be updated. <a href="https://communities.vmware.com/docs/DOC-36813">https://communities.vmware.com/docs/DOC-36813</a></p> <p>vRO vCenter plugin for vSphere 6.5 needs to be updated to Version 6.5.0-15464295 (built 2020-01-15): <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p>

				<p>vRealize Automation Center Café plugin requires updating to:</p> <p>o11nplugin-vcacafe-7.6.0-13348097.vmoapp</p> <p>Also requires:  vRealize Operations s 7.0 or above  vRealize Business for Cloud 7.6 or above  vRealize Log Insight 4.6.1 or above  NSX for vSphere – not supported with 6.3.7  ESXi Hypervisor supported all versions above 6.0  vCSA – confirm compatibility with vCG.</p>
VMware	vRealize Orchestrator	7.3	7.6	Requires vRA 7.6 HF2 & EHC 4.1.2 Update 7 or above
<b>Data Protection</b>				
Dell EMC	Data Protection Advisor (DPA)	6.4 / 6.5	19.1	Aligned new release with latest Avamar and DDOS.
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.2.1	Requires EHC 4.1.2 Update 7 Packages
<p>Notes:</p> <p>Important: As of EHC Update 7 – Site Recovery Manager Disaster Recovery has been deprecated and is replaced by Recoverpoint for Virtual Machines Disaster Recovery. No further development or support is planned for Site Recovery Manager with Enterprise Hybrid Cloud.</p> <p>Refer to Dell EMC Enterprise Hybrid Cloud 2019 R01 Security Update for Multiple Components</p> <p>Where components state they require a specific EHC Update version to work, this will be because API's have changed between component versions, so that Update and above is required for the component to work.</p>				



EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 20  
**Platform Appendix Posting Date: January 31, 2020**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 01/31/20 Version	Reason for change
Dell EMC	VxBlock 340, 350*, 540, 740	Not applicable	RCM 6.5.11	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). If the RCM is to be used on a VxBlock 350 then an IA should be filed to keep the array on : Unity 5.0.0.0.5.116  Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 1000	Not applicable	RCM 6.5.11	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). If the RCM is to be used on a VxBlock 350 then an IA should be filed to keep the array on : Unity 5.0.0.0.5.116  Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 340, 350*, 540, 740	Not applicable	RCM 6.7.4.1	New vSphere 6.7 release and compatible versions of array code (apart from the Unity code). If the RCM is to be used on a VxBlock 350 then an IA should be filed to keep the array on : Unity 5.0.0.0.5.116  Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 1000	Not applicable	RCM 6.7.4.1	New vSphere 6.7 release and compatible versions of array code (apart from the Unity code). If the RCM is to be used on a VxBlock 350 then an IA should be filed to keep the array on : Unity 5.0.0.0.5.116  Requires ViPR 3.6.x for array firmware versions.

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 21

**Platform Appendix Posting Date: April,21 2020**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 04/21/20 Version	Reason for change
Dell EMC	VxBlock 340, 350*, 540, 740	Not applicable	RCM 6.5.12	<p>New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is not supported by ViPR and awaiting a new qualification, other platforms without an * are supported.</p> <p>Requires ViPR 3.6.x for array firmware versions.</p>
Dell EMC	VxBlock 1000 (Not Unity)*	Not applicable	RCM 6.5.12	<p>New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is not supported by ViPR and awaiting a new qualification, other platforms without an * are supported.</p> <p>Requires ViPR 3.6.x for array firmware versions.</p>
Dell EMC	VxBlock 340, 350*, 540, 740	Not applicable	RCM 6.7.5	<p>New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is not supported by ViPR and awaiting a new qualification, other platforms without an * are supported.</p> <p>Requires ViPR 3.6.x for array firmware versions.</p>
Dell EMC	VxBlock 1000 (Not Unity)*	Not applicable	RCM 6.7.5	<p>New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is not supported by ViPR and awaiting a new qualification, other platforms without an * are supported.</p>

				Requires ViPR 3.6.x for array firmware versions.
<b>Storage Arrays</b>				
Dell EMC	VPLEX	6.0.0.01.00.07	6.2.0.0	Requires ViPR 3.6.2.x and if used with a VxBlock requires an IA to be submitted for use.
<b>Virtualization Software (vSphere 6.5)</b>				
VMware	vSphere ESXi VMware server hypervisor	N/A	6.5 Update 2c Exp Patch 13 (Build 13635690)	Updated release of vSphere 6.5 for EHC on VxBlock and BYO.
VMware	vCenter Server for Appliance	N/A	6.5 Update 2h (Build: 13834586)	Updated release of vSphere 6.5 for EHC on VxBlock and BYO.
<b>Virtualization Software (vSphere 6.7)</b>				
VMware	vSphere ESXi VMware server hypervisor	Not applicable	6.7 Update 3 Patch 1 (Build: 15160138)	Updated release of vSphere 6.7 for EHC on VxBlock and BYO
VMware	vCenter Server for Appliance	Not applicable	6.7 Update 3 ( Build: 14367737)	Updated release of vSphere 6.7 for EHC on VxBlock and BYO  Due to <a href="#">DSA 104</a> the recommendation is to upgrade to 3f which requires an IA to be submitted for use.
VMware	vRealize Automation / Orchestrator	7.3	7.6 (Hotfixes)	Requires vRA 7.6 <b>HF6</b> & EHC 4.1.2 Update 7  <a href="https://kb.vmware.com/s/article/70911">https://kb.vmware.com/s/article/70911</a>  v1.3.5 of the DynamicTypes plugin needs to be updated. <a href="https://communities.vmware.com/docs/DOC-36813">https://communities.vmware.com/docs/DOC-36813</a>  vRO vCenter plugin for vSphere 6.5 needs to be updated to Version 6.5.0-15464295 (built 2020-01-15): <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a>  vRealize Automation Center Café plugin requires updating to:

				<p>o11nplugin-vcacafe-7.6.0-13348097.vmoapp this is a updated from:  <a href="https://kb.vmware.com/s/article/71090">https://kb.vmware.com/s/article/71090</a></p> <p>The vRealize Orchestrator Hotfix should also be applied:  <a href="https://kb.vmware.com/s/article/70629">https://kb.vmware.com/s/article/70629</a></p> <p>Also requires:  vRealize Operations s 7.0 or above  vRealize Business for Cloud 7.6 or above  vRealize Log Insight 4.6.1 or above  NSX for vSphere – not supported with 6.3.7  ESXi Hypervisor supported all versions above 6.0  vCSA – confirm compatibility with vCG.</p>
VMware	NSX for vSphere	6.2.7	6.4.6 Build: 14819921	Requires U5 or greater and vRealize Business 7.6 for compatibility.
<b>Data Protection</b>				
Dell EMC	Avamar	7.4.1-58	19.2	New version support – requires Update 5 as a minimum supported version.

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 22

**Platform Appendix Posting Date: June, 11 2020**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 06/11/20 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM RCM 6.5.12.2  Unity 5.0.2.0.5.009	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.2.0.5.009 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.  Doesn't cover VNX 05.33.021.5.256 has been tested (may require an IA for support)
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 6.5.12.2  Unity 5.0.2.0.5.009	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.2.0.5.009 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.7.5.2  Unity 5.0.2.0.5.009	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.2.0.5.009 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.  Doesn't cover VNX 05.33.021.5.256 - has been tested (may require an IA for support)

Dell EMC	VxBlock 1000	Not applicable	RCM 6.7.5.2 Unity 5.0.2.0.5.009	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.2.0.5.009 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.
<b>Storage Arrays</b>				
Dell EMC	Unity	4.2.0.9392909	5.0.2.0.5.009	Latest version supported by ViPR 3.6.x
<b>Virtualization Software</b>				
VMware	vRealize Automation / Orchestrator	7.3	7.6 (Hotfixes)	<p>v1.3.5 of the DynamicTypes plugin needs to be updated for vRO appliances lower than version #15624323.</p> <p>If the cumulative update #15624323 is applied, the DynamicTypes plug-in is already bumped to v1.3.5.</p> <p><i>The cumulative update build 15624323 already contains Dynamic Types plug-in 1.3.5.</i></p> <p><a href="https://kb.vmware.com/s/article/70629">https://kb.vmware.com/s/article/70629</a></p> <p><i>Dynamic Types plug-in is bumped to version 1.3.5 as part of the vRO 7.6 cumulative update</i></p> <p><i>External Orchestrator 7.6 build 15624323</i></p> <p>vRO vCenter plugin for vSphere 6.5 needs to be updated to Version 6.5.0-15464295 (built 2020-01-15): <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p> <p>vRealize Automation Center Café plugin requires updating to:</p>

				<p>o11nplugin-vcacafe-7.6.0-13348097.vmoapp this is a updated from:  <a href="https://kb.vmware.com/s/article/71090">https://kb.vmware.com/s/article/71090</a></p> <p>The vRealize Orchestrator Hotfix should also be applied:  <a href="https://kb.vmware.com/s/article/70629">https://kb.vmware.com/s/article/70629</a></p> <p>Also requires:  vRealize Operations s 7.0 or above  vRealize Business for Cloud 7.6 or above  vRealize Log Insight 4.6.1 or above  NSX for vSphere – not supported with 6.3.7  ESXi Hypervisor supported all versions above 6.0  vCSA – confirm compatibility with vCG.</p>
Microsoft	SQL Server	2014 SP2	SQL 2016 SP2 Cumulative Update 12 (For vRA and EHC OMDB)	Note: This is for EHC OMDB / vRA IaaS and not for windows based vCenter Server deployments.
<b>Data Protection</b>				
Dell EMC	Data Protection Advisor (DPA)	6.3	19.2	New version support – requires Update 5 as a minimum supported version.
<b>Integration Software</b>				
Dell EMC	Dell SRM	6.3.0.7	4.4.2	Latest supported version with vulnerability fixes
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.2.2	Multiple vulnerability fixes. Requires Update 5 modules and RP4VM plugin.

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 23

**Platform Appendix Posting Date: July, 7<sup>th</sup> 2020**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 07/21/20 Version	Reason for change
<b>Virtualization Software</b>				
VMware	vRealize Automation / Orchestrator	7.3	7.6 (Hotfixes)	<p>v1.3.5 of the DynamicTypes plugin needs to be updated for vRO appliances lower than version #15624323.</p> <p>If the cumulative update #15624323 is applied, the DynamicTypes plug-in is already bumped to v1.3.5.</p> <p><i>The cumulative update build 15624323 already contains Dynamic Types plug-in 1.3.5.</i></p> <p><a href="https://kb.vmware.com/s/article/70629">https://kb.vmware.com/s/article/70629</a></p> <p><i>Dynamic Types plug-in is bumped to version 1.3.5 as part of the vRO 7.6 cumulative update</i></p> <p><i>External Orchestrator 7.6 build 15624323</i></p> <p>vRO vCenter plugin for vSphere 6.5 needs to be updated to Version 6.5.0-15464295 (built 2020-01-15): <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p> <p>vRealize Automation Center Café plugin requires updating to:</p>



				<p>o11nplugin-vcacafe-7.6.0-13348097.vmoapp this is a updated from:  <a href="https://kb.vmware.com/s/article/71090">https://kb.vmware.com/s/article/71090</a></p> <p>The vRealize Automation Hotfix should also be applied:  <a href="https://kb.vmware.com/s/article/70911">https://kb.vmware.com/s/article/70911</a></p> <p>Also requires:  vRealize Operations s 7.0 or above  vRealize Business for Cloud 7.6 or above  vRealize Log Insight 4.6.1 or above  NSX for vSphere – not supported with 6.3.7  ESXi Hypervisor supported all versions above 6.0  vCSA – confirm compatibility with vCG.</p>
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.2.3	Multiple vulnerability fixes. Requires Update 5 modules and RP4VM plugin. + fix for PSOD
<b>Integration Software</b>				
Dell EMC	EMC ViPR	3.6.0.2	3.6.2.5   EMC ViPR software-defined storage	N/A

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 24  
**Platform Appendix Posting Date: September 10<sup>th</sup>, 2020**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 09/10/20 Version	Reason for change
<b>Virtualization Software</b>				
VMware	vRealize Automation / Orchestrator	7.3	7.5 (Hotfixes) 7.6 (Hotfixes)	vRealize Automation 7.6: <a href="https://kb.vmware.com/s/article/70911">https://kb.vmware.com/s/article/70911</a>  vRealize Automation 7.5: <a href="https://kb.vmware.com/s/article/60310">https://kb.vmware.com/s/article/60310</a>  vRealize Orchestrator 7.6: <a href="https://kb.vmware.com/s/article/70629">https://kb.vmware.com/s/article/70629</a>  vRealize Orchestrator 7.5: <a href="https://kb.vmware.com/s/article/59725">https://kb.vmware.com/s/article/59725</a>
VMWare	vRealize Log Insight	4.3	4.8 Security Patch Build (16237469)	Replacement build and update package to address a number of vulnerabilities since first release.
VMWare	NSX	6.2.7	6.4.8 Build: 16724220	Please refer to <a href="https://kb.vmware.com/s/article/80607">https://kb.vmware.com/s/article/80607</a>  VMs on an affected host lose network connectivity post host reboot or exiting maintenance mode in NSX-v 6.4.7 or 6.4.8  Requires U5 or greater and vRealize Business 7.6 for compatibility.
<b>Virtual Machine based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.2.2.4	Multiple vulnerability fixes. Requires Update 5 modules and RP4VM plugin.

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 25  
**Platform Appendix Posting Date: November 12<sup>th</sup>, 2020**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 11/12/20 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.5.14.0 Unity 5.0.3.0.5.014	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.3.0.5.014 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.  Doesn't cover VNX 05.33.021.5.256 has been tested (may require an IA for support)
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 6.5.14.0 Unity 5.0.3.0.5.014	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.3.0.5.014 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.7.7.0 Unity 5.0.3.0.5.014	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.3.0.5.014 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.  Doesn't cover VNX 05.33.021.5.256 - has been tested (may require an IA for support)

Dell EMC	VxBlock 1000	Not applicable	RCM 6.7.7.0 Unity 5.0.3.0.5.014	New vSphere 6.5 release and compatible versions of array code (apart from the Unity code). The current version of Unity code (VxBlock 350) is 5.0.3.0.5.014 (may require an IA for support).  Requires ViPR 3.6.x for array firmware versions.
<b>Storage Arrays</b>				
Dell EMC	Unity	4.2.0.9392909	5.0.3.0.5.014	Latest version supported by ViPR 3.6.x
<b>Data Protection</b>				
Dell EMC	Avamar	7.4.1-58	19.3	New version support – requires Update 5 as a minimum supported version.
EMC	Data Protection Advisor (DPA)	6.3	19.3	New version support – requires Update 5 as a minimum supported version.
<b>Integration software</b>				
Dell EMC	EMC ViPR	3.6.0.2	3.6.2.6	Updated version with bug fixes and new array firmware versions.
<b>Virtualization</b>				
VMware	vRealize Log Insight	4.3	8.1	New vRealize Stack version support which is compatible with vRealize Automation 7.6.
VMware	vRealize Operations Manager	6.5	8.2	New vRealize Stack version support which is compatible with vRealize Automation 7.6.
<b>Virtual Machine Based Replication</b>				
VMware	RecoverPoint for Virtual Machines	5.0.1.2	5.3	New version support with HTML client that replaces Adobe Flash Support for a subset of features. Please log an RPQ to obtain guidance and understanding of issues that could be encountered during the upgrade.

EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 26  
**Platform Appendix Posting Date: March 26<sup>th</sup>, 2021**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 03/26/21 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.5.16.0	Depending on VxBlock model: IA needed for: Unity 5.0.7.0.5.008  ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)  Requires ViPR-C 3.6.2.6 for array firmware versions.
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 6.5.16.0	ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)  Requires ViPR-C 3.6.2.6 for array firmware versions.
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 6.7.9.0	Depending on VxBlock model: IA needed for: Unity 5.0.6.0.5.008  ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)  Requires ViPR-C 3.6.2.6 for array firmware versions.  Only compatible with RP4VM 5.3.1.1 with HTML5 plug-in.
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 6.7.9.0	ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)

				<p>Requires ViPR-C 3.6.2.6 for array firmware versions.</p> <p>Only compatible with RP4VM 5.3.1.1 with HTML5 plug-in.</p>
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	RCM 7.0.3.0	<p>Depending on VxBlock model: IA needed for: Unity 5.0.6.0.5.008</p> <p>ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)</p> <p>Requires ViPR-C 3.6.2.6 for array firmware versions.</p> <p>Only compatible with RP4VM 5.3.1.1 with HTML5 plug-in.</p> <p>vRO vCenter plug-in for vSphere needs to be updated to version 6.5.0-16904859 (built 2020-09-16) <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p>
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 7.0.3.0	<p>ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)</p> <p>Requires ViPR-C 3.6.2.6 for array firmware versions.</p> <p>Only compatible with RP4VM 5.3.1.1 with HTML5 plug-in.</p> <p>vRO vCenter plug-in for vSphere needs to be updated to version 6.5.0-16904859 (built 2020-09-16) <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p>
<b>Storage Arrays</b>				
Dell EMC	Unity	4.2.0.9392909	5.0.6.0.5.008	<p>IA required.</p> <p>Latest version supported by ViPR-C 3.6.2.6</p>
Dell EMC	VPLEX	6.0.0.01.00.07	6.2 P3 (6.2.0.03.00.02)	Requires ViPR-C 3.6.2.6.

Data Protection				
Dell EMC	Data Domain Operating System Hardware	DD3300	6.2.0.35 (6.2.0.35-635767)	Details: <a href="https://dl.dell.com/content/docu95563_data-domain-operating-system-and-data-domain-management-center-6-2-0-35-and-dd-ve-4-0-release-notes.pdf?language=en_US">https://dl.dell.com/content/docu95563_data-domain-operating-system-and-data-domain-management-center-6-2-0-35-and-dd-ve-4-0-release-notes.pdf?language=en_US</a>
Integration software				
Dell EMC	EMC ViPR Controller	3.6.0.2	3.6.2.6	Updated version with bug fixes and new array firmware versions.
Virtualization				
VMware	NSX-V	6.2.7	6.4.10 Build: 17626462	IA required.  Note: Please check the upgrade path <a href="https://interopmatrix.vmware.com/#/Upgrade?productId=783">https://interopmatrix.vmware.com/#/Upgrade?productId=783</a>  Requires U5 or greater and vRealize Business 7.6 or later for compatibility.
VMware	vRealize Automation / Orchestrator	7.3	7.5 (Hotfixes) 7.6 (Hotfixes)	vRealize Automation 7.6: <a href="https://kb.vmware.com/s/article/70911">https://kb.vmware.com/s/article/70911</a>  vRealize Automation 7.5: <a href="https://kb.vmware.com/s/article/60310">https://kb.vmware.com/s/article/60310</a>  vRealize Orchestrator 7.6: <a href="https://kb.vmware.com/s/article/70629">https://kb.vmware.com/s/article/70629</a>  vRealize Orchestrator 7.5: <a href="https://kb.vmware.com/s/article/59725">https://kb.vmware.com/s/article/59725</a>  vRealize Automation/Orchestrator Security update <a href="https://kb.vmware.com/s/article/80044">https://kb.vmware.com/s/article/80044</a>
Microsoft	SQL Server	2014 SP2	SQL 2016 SP2 Cumulative Update 15	Note: This is for EHC OMDB / vRA IaaS

				<p>Note: See, section 5c  <a href="https://docs.vmware.com/en/VMware-Validated-Design/5.1/sddc-deployment-of-region-a/GUID-6556D26F-857D-49B7-A1A8-14DF57074A4D.html">https://docs.vmware.com/en/VMware-Validated-Design/5.1/sddc-deployment-of-region-a/GUID-6556D26F-857D-49B7-A1A8-14DF57074A4D.html</a></p>
<b>Virtual Machine Based Replication</b>				
Dell EMC	RecoverPoint for Virtual Machines	5.0.1.2	5.3.1.1	<p>HTML5 plug-in requires at least vCenter 6.7U1 or later.</p> <p><b>Important note for RP4VM:</b>  RecoverPoint for VMs: Flash/Flex plugin removed from vSphere following a VC upgrade to 6.7 U3L (Build 17137327)  <a href="https://www.dell.com/support/kbdoc/000180750">https://www.dell.com/support/kbdoc/000180750</a></p>



EMC Simple Support Matrix Appendix  
 Enterprise Hybrid Cloud 4.1.2  
 Platform GA Date: August 18, 2017  
 Platform Appendix Revision: 27  
**Platform Appendix Posting Date: June 10th, 2021**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 6/10/21 Version	Reason for change
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	VxBlock 340 (RCM 6.5.16.2) VxBlock 350, 540, 740 (RCM 6.5.17.0)	Depending on VxBlock model: Unity 5.0.7.0.5.008  ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)  Note: vSphere release to address VMSA-2021-0010 (CVE-2021-21985, CVE-2021-21986).
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 6.5.17.0	ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)  Note: vSphere release to address VMSA-2021-0010 (CVE-2021-21985, CVE-2021-21986).
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	VxBlock 340 (RCM 6.7.9.2) VxBlock 350, 540, 740 (RCM 6.7.10.0)	Depending on VxBlock model: Unity 5.0.7.0.5.008  ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)  Only compatible with RP4VM 5.3.1.1 with HTML5 plug-in.  Note: vSphere release to address VMSA-2021-0010 (CVE-2021-21985, CVE-2021-21986).
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 6.7.10.0	ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S)

				<p>Only compatible with RP4VM 5.3.1.1 with HTML5 plug-in.</p> <p>Note: vSphere release to address VMSA-2021-0010 (CVE-2021-21985, CVE-2021-21986).</p>
Dell EMC	VxBlock 340, 350, 540, 740	Not applicable	<p>VxBlock 340 (RCM 7.0.3.2)*</p> <p>VxBlock 350, 540, 740 (RCM 7.0.4.0)*</p>	<p>Depending on VxBlock model: Unity 5.0.7.0.5.008</p> <p>ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S), vSphere version.</p> <p><b>Important note *</b> Not compatible with RP4VM 5.3.1.1. Support targeted for 5.3.2 (not released yet)</p> <p>vRO vCenter plug-in for vSphere needs to be updated to version 6.5.0-16904859 (built 2020-09-16) <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p> <p>Note: vSphere release to address VMSA-2021-0010 (CVE-2021-21985, CVE-2021-21986).</p>
Dell EMC	VxBlock 1000 (Not Unity)	Not applicable	RCM 7.0.4.0*	<p>ViPR-C RPQ needed for: MDS Firmware, VMAX3 All-flash version, Solutions Enabler (SMI-S), vSphere version.</p> <p><b>Important note *</b> Not compatible with RP4VM 5.3.1.1. Support targeted for 5.3.2 (not released yet)</p> <p>vRO vCenter plug-in for vSphere needs to be updated to version 6.5.0-16904859 (built 2020-09-16) <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p>

				Note: vSphere release to address VMSA-2021-0010 (CVE-2021-21985, CVE-2021-21986).
<b>Virtualization</b>				
VMware	vRealize Log Insight	4.3	8.2-8.3	New vRealize Stack version support which is compatible with vRealize Automation 7.6.
<b>Storage Arrays</b>				
Dell EMC	Unity	4.2.0.9392909	5.0.7.0.5.008	ViPR-C RPQ required
Dell EMC	VPLEX	6.0.0.01.00.07	6.2 P4 (6.2.0.04.00.07)	ViPR-C RPQ required

EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Platform Appendix Revision: 28

**Platform Appendix Posting Date: November 11th, 2021**

**Tier 1 Native Components**

Vendor	Component	GA 8/18/17 Version	New 11/11/21 Version	Reason for change
Dell Technologies	VxBlock 340, 350, 540, 740	Not applicable	<p>VxBlock 340 RCM <b>6.5.16.4</b></p> <p>VxBlock 350,740 RCM <b>6.5.18.1</b></p> <p>VxBlock 540 RCM <b>6.5.17.2</b></p> <p>VxBlock 740 RCM <b>6.5.18.1</b></p>	<p>Depending on VxBlock model: Unity 5.1.0.0.5.394</p> <p>ViPR-C RPQ needed for: MDS Firmware, vSphere version VMAX3 All-Flash version, Solutions Enabler (SMI-S), Unity</p> <p>VMware RPQ required for NSX-V 6.4.11 to support vRA/vRO 7.6.</p> <p>Note: Release contains security fixes.</p>
Dell Technologies	VxBlock 1000 ( <u>Not Unity</u> )	Not applicable	RCM <b>6.5.18.1</b>	<p>ViPR-C RPQ needed for: MDS Firmware, vSphere version VMAX3 All-flash version, Solutions Enabler (SMI-S)</p> <p>VMware RPQ required for NSX-V 6.4.11 to support vRA/vRO 7.6.</p> <p>Note: Release contains security fixes.</p>
Dell Technologies	VxBlock 340, 350, 540, 740	Not applicable	<p>VxBlock 340 RCM <b>6.7.9.4</b></p> <p>VxBlock 350 RCM <b>6.7.11.1</b></p> <p>VxBlock 540 RCM <b>6.7.10.2</b></p> <p>VxBlock 740 RCM <b>6.7.11.1</b></p>	<p>Depending on VxBlock model: Unity 5.1.0.0.5.394</p> <p>ViPR-C RPQ needed for: MDS Firmware, vSphere version, VMAX3 All-flash version, Solutions Enabler (SMI-S), Unity</p> <p>IA needed for RP4VM 5.3.2</p> <p>VMware RPQ required for NSX-V 6.4.11 to support vRA/vRO 7.6.</p> <p>Note: Release contains security fixes.</p>

Dell Technologies	VxBlock 1000 <u>(Not Unity)</u>	Not applicable	RCM 6.7.11.1	<p>ViPR-C RPQ needed for: MDS Firmware, vSphere version VMAX3 All-flash version, Solutions Enabler (SMI-S)</p> <p>IA needed for RP4VM 5.3.2</p> <p>VMware RPQ required for NSX-V 6.4.11 to support vRA/vRO 7.6.</p> <p>Note: Release contains security fixes.</p>
Dell Technologies	VxBlock 340, 350, 540, 740	Not applicable	<p>VxBlock 340 RCM 7.0.3.4</p> <p>VxBlock 350 RCM 7.0.5.1</p> <p>VxBlock 540 RCM 7.0.4.2</p> <p>VxBlock 740 RCM 7.0.5.1</p>	<p>Depending on VxBlock model: Unity 5.1.0.0.5.394</p> <p>ViPR-C RPQ needed for: MDS Firmware, vSphere version, VMAX3 All-flash version, Solutions Enabler (SMI-S), Unity</p> <p>IA needed for RP4VM 5.3.x</p> <p>VMware RPQ required for NSX-V 6.4.11 to support vRA/vRO 7.6.</p> <p>vRO vCenter plug-in for vSphere needs to be updated to version 6.5.0-16904859 (build 2020-09- 16) <a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a></p> <p>Note: Release contains security fixes.</p>
Dell Technologies	VxBlock 1000 <u>(Not Unity)</u>	Not applicable	RCM 7.0.5.1	<p>ViPR-C RPQ needed for: MDS Firmware, vSphere version, VMAX3 All-flash version, Solutions Enabler (SMI-S)</p> <p>IA needed for RP4VM 5.3.x</p> <p>VMware RPQ required for NSX-V 6.4.11 to support vRA/vRO 7.6.</p> <p>vRO vCenter plug-in for vSphere needs to be updated to version 6.5.0-16904859 (built 2020-09-16)</p>

				<a href="https://communities.vmware.com/docs/DOC-32872">https://communities.vmware.com/docs/DOC-32872</a> Note: Release contains security fixes.
<b>Storage Arrays</b>				
Dell Technologies	Unity	4.2.0.9392909	5.1.0.0.5.394	ViPR-C RPQ required
Dell Technologies	VMAX 3 (All Flash)	EMC Engenuity min 5876.229 max 5876.309	VMAX OS 5978.711.711	ViPR-C RPQ required
Dell Technologies	PowerMax	n/a	PowerMaxOS 5978.711.711	ViPR-C RPQ required
<b>Data Protection</b>				
Dell Technologies	Avamar	7.4.1-58	19.4	
Dell Technologies	Data Protection Advisor (DPA)	6.3	19.4 19.5 *1	<b>Note 1:</b> IA required
<b>Virtualization</b>				
VMware	NSX-V			<b>Support note:</b> NSX-V 6.4.x End of General Support is 2022-01-16. Please contact EHC support.

## EMC Simple Support Matrix Appendix

Enterprise Hybrid Cloud 4.1.2

Platform GA Date: August 18, 2017

Update Release Appendix

**Update Appendix Posting Date: January 31<sup>st</sup>, 2020**

Release Date	Version	Features
08/18/2017	GA Release	vRA 7.3 + EHC Features
10/09/2017	Update 1 (U1)	RP4VM 5.1 + Bug fixes
05/01/2018	Update 2 (U2)	VxRail vSphere 6.5 Support only
03/02/2018	Update 3 (U3)	VxRail/VxBlock/BYO vSphere 6.5/SRM 6.5 support
05/18/2018	Update 4 (U4)	RP4VM 5.1 + Bug fixes
11/26/2018	Update 5 (U5)	RP4VM 5.2 + NSX 6.4 + Avamar 7.5.1 + Bug Fixes
03/29/2019	Update 6 (U6)	vRA 7.5 Support
10/29/2019	Update 7 (U7)	New features (tested with vRA 7.6)
01/31/2020	Update 8 (U8)	Bug fixes – Inc: Potential Data Loss through use of change consistency group when using RP4VM: <a href="https://support.emc.com/kb/540748">https://support.emc.com/kb/540748</a> (login required)

**Note:** Unless specifically identified in the ESSM there are no dependencies between an update and a component. For example, Update 7 works with vRA 7.3, 7.5 and 7.6 however vRA 7.3 may not work with Update 7. These dependencies are called out specifically when a new component is added to the ESSM in the notes.

December support for vRealize Automation 7.6 includes additional plugins that must be updated.