



Dell EMC Simple Support Matrix

Enterprise Hybrid Cloud 3.5

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Table 1 through Table 8 provide information for Enterprise Hybrid Cloud version 3.5.

Note: This solution uses English language versions of the applications.

Table 1 Enterprise Hybrid Cloud 3.5 EMC™ arrays supported versions

EMC arrays	Versions	Notes
EMC VMAX™ 400K, VMAX 200K, VMAX 100K	EMC Enginuity™ 5977.691.684, 5877.813.785	Operating environment for VMAX3
EMC VMAX 450F, VMAX 440FX, VMAX 850F, VMAX 850FX	EMC Enginuity 5977.813.785	Operating environment for VMAX3
EMC VMAX 40K, VMAX 20K, VMAX 10K xxx987xxxx	EMC Enginuity 5876.272.177	Operating environment for VMAX
EMC Unified VNX™ 5100/5300/5500/5700/7500	FLARE™ 32 Block: 05.32.000.5.219 File: 7.1.79.8	Operating environment for VNX
EMC Unified VNX 5200/5400/5600/5800/7600/8000	FLARE 33 Block: 05.33.008.5.115 Block: 05.33.009.5.155 File: 8.1.8.121 File: 8.1.9.155	
EMC ScaleIO™	ScaleIO1.32.2	Operating environment for ScaleIO
EMC VPLEX™	EMC GeoSynchrony™ 5.3 P3, 5.4 SP1 P3	Operating environment for VPLEX
EMC XtremIO	4.0.2-80	Operating environment for XtremIO
Footnotes: a. VMAX3 is supported for disaster recovery with VPLEX Local. Both Source and Target must be VMAX3 arrays.		
Components		
Switches	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 https://elabnavigator.emc.com for supported switch fabric interoperability firmware and settings.	

Table 2 Enterprise Hybrid Cloud 3.5 supported software

	Supported software	Version	Notes
EMC	Connectrix Manager Converged Network Edition	12.4.1	CMCNE, management application
	PowerPath™ / VE	6.0 SP1	Multipathing and load balancing for block access
	PowerPath Virtual Appliance	2.0 SP1	VM-based virtual appliance
	SE/SMI-S for VMAX	SE: 8.1.0.7 SE: 8.1.2.0 SMI: 8.1.0.4 SMI-S 8.1.0.6	Required CLI software for VMAX for Windows storage management
	SE/SMI-S for VNX	SE: 7.6.2.67 SMI-S: 4.6.2.29	EMC SMI-S Provider for Windows x64
	ViPR™	2.4.1.0.228	Build 2.4.1.0.228 EMC ViPR software-defined storage
	ViPR SRM	3.7	EMC ViPR Storage Resource Management Suite

Continuous Availability and Disaster Recovery are two very different solutions for EMC Enterprise Hybrid Cloud.

- Continuous Availability — Provided by EMC VPLEX and VMware High Availability.
- Disaster Recovery — Provided by EMC RecoverPoint with VMware Site Recovery Manager.
— VPLEX Local with RecoverPoint is supported for disaster recovery. Both the Source and Target arrays must be the same type.

Table 3 EMC and VMware integration

	Supported software	Version	Notes
EMC	EMC Hybrid Cloud (EHC) Modules	<ul style="list-style-type: none"> • Foundation: 3.5.0.0 — Build 5 • Data Protection: 3.5.0.0 — Build 37 • Disaster Recovery: 3.5.0.0 — Build 18 	Customization package for STaaS and foundation workflows
	EMC ViPR Analytics	2.3	EMC ViPR Analytics Pack for VMware vRealize Operations Management Suite
	Storage Analytics	3.2.1 (VPLEX) 3.4 (All others)	EMC storage analytics adapter for VMware vCenter Operations Management Suite <ul style="list-style-type: none"> • 3.2 requires vROPS 6.0.2 • 3.4 requires vROPS 6.1
	ViPR Plug-in for VMware vCO	2.4	Build 2.4.0.0.11 EMC ViPR plug-in for VMware vCO

Table 4 EMC Backup and recovery

	Supported software	Version	Notes
EMC	Avamar ^{TM a}	7.2.0.401	Build Hot Fix 247126 Avamar system software
		7.2.SP1	Build 32
	Data Domain TM Operating System (DD OS)	5.7.0.4, 5.7.0.10, 5.7.30.2	Operating system for Data Domain appliance
	Data Protection Advisor	6.2 SP1, 6.2 SP3	Data protection management software

Footnotes:

- a. Avamar VE is not officially supported in production. Currently, it is only supported as proof of concept (PoC) for EHC.

Table 5 VMware virtualization and cloud infrastructure

	Supported software	Version	Notes
Microsoft	SQL Server	2012 SP2	Database server for VMware vCenter and vRealize Automation (vRA)
	Windows Server	2012 or 2012 R2	Operating system for the server environment
VMware ^{a, b}	NSX for vSphere	6.2.6	Build 4977495 VMware Virtual Networking ^c
	NSX Plug-in for vRealize Orchestrator	1.0.2	Build 2956224 VMware vRealize Orchestrator Plug-in for NSX
	vCenter Server for Windows	6.0.U1b	Build 3343019 Installer build vSphere management server
	vRealize Automation	6.2.3	Build 3093004 VMware cloud management and infrastructure
	vRealize Automation Center Application Services	6.2.0	Build 2299597 VMware application deployment for vCloud
	vRealize Business Standard	6.2.3	Build 3104629 vRealize Business Suite Standard Edition
	vRealize Configuration Manager	5.8.1	Build 90 Configuration management
	vRealize Log Insight	3.0.1	Build 3568951 Required Security Patch + Security Update Build 2629935 vCenter log analytics and management
	vRealize Operations Manager		Automated operations management
		6.0.2	Build 2777062 Support for VPLEX 5.3 P3 t
		6.1	Build 3038036 Appliance installation version
			Build 3038037 Upgrade package
	vRealize Orchestrator	6.0.2	Build 2707386 vCenter orchestration engine
	vRA Plug-in for vRealize Orchestrator	6.2.3	Build 3004239 vRealize Automation plug-in for vRealize Orchestrator
	SRM Plug-in for vRealize Orchestrator	6.0.0.1a	Build 3342253 Site Recovery Manager plug-in for vRealize Orchestrator
	vSphere ESXi		VMware server hypervisor
		6.0.0b	Build 2809209 Vblock/VxBlock 5xx and 7xx models
		6.0 Update 1, Express Patch 4	Build 3247720 All other platforms

Footnotes:

- a. For a list of supported guest operating systems, refer to <http://www.vmware.com/resources/compatibility/search.php?deviceCategory=software>. For additional information, refer to the *Guest Operating System Installation Guide* at http://www.vmware.com/pdf/GuestOS_guide.pdf.
- b. Build Numbers for VMware products are identified in VMware KB 1014508.
- c. NSX 6.2.6 is the recommended release. However, 6.2.7 has been validated and an RPQ would be entertained.

Table 6 Disaster recovery

	Supported software	Version	Notes
Array Based Replication			
EMC	RecoverPoint CL/EX ^{a b c}	4.1 SP3	Disaster recovery solution
	RecoverPoint SRA	2.2.0.3	Storage Replication Adapter for VMware vCenter Site Recovery Manager
	ViPR SRA	5.0.5.163	EMC ViPR Storage Replication Adapter
VMware	vCenter Site Recovery Manager	6.0.0.1	Build 2700459 VMware vCenter Site Recovery Manager (Used in the disaster recovery solution)
	PowerCLI	6.0.0	Build 3205540
Software Scripting Support Modules	Python	2.7.12	Windows x86-64 MSI
	IPy Python Module	0.83	Python class and tools for handling of IPv4 and IPv6 addresses and networks
	Requests Python Module	2.10.0	Python Library to HTTP/1.1 requests
Footnotes: ^a RecoverPoint SE is not currently supported. ^b VMAX3 is supported for disaster recovery with VPLEX Local. Both Source and Target must be VMAX3 arrays. ^c XtremIO DR support with RecoverPoint (Source & Target=XtremIO)			

Table 7 EMC security add on

	Supported software	Version	Notes
EMC	Cloudlink SecureVM	5.0	Build 22484.12662

Table 8 VCE

	Supported software	Version	Notes
VCE	VxBlock 340, 540, 740	RCM 6.0.5, 6.0.6, 6.0.7	For specific versions of firmware and drivers, refer to http://support.vce.com
Notes: <ul style="list-style-type: none"> For VxBlock support information with 6.0.5, 6.0.6, and 6.0.7 RCM, including specific versions of firmware and drivers, refer to http://support.vce.com. Version RCM 6.0.7 of VxBlock 740 is required for EMC VMAX All Flash 450F, 450FX, 850F, and 850FX arrays. Continued Vblock support for existing customers of EHC. All new installations require VxBlock (Vblock models 320, 340, 540, 720, or 740). 			

Note: The ShellShock vulnerability affects GNU Bourne-Again Shell (Bash), the common command-line shell used in many Linux/UNIX operating systems and AppleMac OS X. An unauthenticated remote attacker could execute shell commands by attaching malicious code in environment variables used by the operating system. Please refer to EMC Information Infrastructure and RSA products to assess any potential impact at <http://productsecurityblog.emc.com/2014/09/impact-gnu-bash-shellshock-vulnerability-emc-products>.