

# CONVERGED INFRASTRUCTURE SUPPORT MATRICES

## Dell EMC Converged Infrastructure

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### SUMMARY

This document outlines the support offered for components of Dell EMC VxBlock and Vblock System solutions. Those critical components include the Dell EMC Advanced Management Platforms (AMPs), Dell EMC Converged Technology Extensions, and Dell EMC Integrated Data Protection.

### ADVANCED MANAGEMENT PLATFORM

The AMP provides a single management point for a Converged System, allowing administrators to run management workloads; monitor and manage health, performance, and capacity; and provide network and fault isolation for management.

Installed on the AMP, VxBlock Central software provides a single unified interface and access point for converged infrastructure operations. It dramatically simplifies daily administration by providing enhanced converged system-level awareness, automation, and analytics.

VxBlock Central is provided with a modular licensing structure. The VxBlock Central Base license provides some monitoring capabilities including Inventory, RCM compliance and alerting and is available to customers at no additional cost. The Workflow Automation and Advanced Analytics modules are available as optional add-on licenses.

There is a relationship between the installed AMP system and VxBlock Central support for legacy Converged Systems. In some cases, VxBlock Central Workflow Automation and VxBlock Central Advanced Analytics might not be supported, or may require hardware configuration or updates.

### Minimum requirements for VxBlock Central installation

The table below outlines the required minimum configuration for each of the VxBlock Central modules. Please note that a minimum of two AMP servers are required for VxBlock Central Base with Advanced Analytics. Three AMP servers are required for VxBlock Central Base with Advanced Analytics and Workflow Automation.

License	Modules	Memory (GB)	vCPU	Disk Size (GB)
<b>VxBlock Central Base</b>	Core VM	8	2	200
	MSM VM	12	4	250
	MSP VM (optional)	1	2	350
<b>VxBlock Central Workflow Automation</b>	Orchestration Services VM	4	2	100
	VMware vRealize Orchestrator	6	2	20
<b>VxBlock Central Advanced Analytics</b>	VMware vRealize Operations	Follow VMware guidelines		

### VxBlock Central Support by AMP model

The tables below outline the supported modules of VxBlock Central by AMP model in the context of the VxBlock and Vblock System into which the AMP is integrated. Where an upgrade is required to support a VxBlock Central module, contact your Dell EMC representative to discuss upgrade options.

	AMP-VX				AMP-3S M4			AMP-3S M5
	VxBlock and Vblock System 350	VxBlock and Vblock System 540	VxBlock and Vblock System 740	VxBlock System 1000	VxBlock and Vblock System 350	VxBlock and Vblock System 740	VxBlock System 1000	VxBlock System 1000
<b>VxBlock Central Base</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VxBlock Central Workflow Automation</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VxBlock Central Advanced Analytics</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

	AMP-2HA Perf			AMP-2S M3			AMP-2S M4		
	VxBlock and Vblock System 340	VxBlock and Vblock System 540	VxBlock and Vblock System 740	VxBlock and Vblock System 350	VxBlock and Vblock System 540	VxBlock and Vblock System 740	VxBlock and Vblock System 350	VxBlock and Vblock System 540	VxBlock and Vblock System 740
<b>VxBlock Central Base</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VxBlock Central Workflow Automation</b>	No	Requires AMP Upgrade	Requires AMP Upgrade	Requires AMP Upgrade	Requires AMP Upgrade	Requires AMP Upgrade	Yes	Yes	Yes
<b>VxBlock Central Advanced Analytics</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

	Mini-AMP (V1, V2)	HA-AMP (V1, V2)		LAMP		AMP-2V	
	Vblock System 720	Vblock System 100	Vblock System 720	Vblock System 100	Vblock System 200	Vblock System 200	VxBlock and Vblock System 240
<b>VxBlock Central Base</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VxBlock Central Workflow Automation</b>	No	No	No	No	No	No	No
<b>VxBlock Central Advanced Analytics</b>	No	No	No	No	No	No	Yes

	AMP-2P V1			AMP-2P V2		AMP-2RP	AMP-2HA Base		
	Vblock System 200	VxBlock and Vblock System 240	VxBlock and Vblock System 340	VxBlock and Vblock System 240	VxBlock and Vblock System 350	VxBlock and Vblock System 340	Vblock System 200	VxBlock and Vblock System 540	VxBlock and Vblock System 740
<b>VxBlock Central Base</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VxBlock Central Workflow Automation</b>	No	No	No	No	Requires AMP Upgrade	No	No	Requires AMP Upgrade	Requires AMP Upgrade
<b>VxBlock Central Advanced Analytics</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## CONVERGED TECHNOLOGY EXTENSIONS

This section outlines the support for Converged Technology Extensions for Storage and Compute on each of the currently supported legacy Converged Systems.

	VxBlock and Vblock System 740	VxBlock and Vblock System 540	VxBlock and Vblock System 350	VxBlock and Vblock System 720	VxBlock and Vblock System 340	VxBlock and Vblock System 240
<b>Converged Technology Extension for PowerMax (2000, 8000)</b>	Yes	Yes	Yes	No	No	No
<b>Converged Technology</b>	Yes	Yes	Yes	No	No	No

Extension for Unity XT (380F, 480F, 680F, 880F)						
Converged Technology Extension for XtremIO (X2S, X2R)	Yes	Yes	Yes	No	No	No
Converged Technology Extension for Isilon (A200, A2000, F800, H400, H500, H600)	Yes	Yes	Yes	No	No	No
Converged Technology Extension for VMAX (100K, 200K, 400K, 450F, 850F, 250F, 950F)	Yes	Yes	Yes	Yes	Yes	No
Converged Technology Extension for XtremIO (10TB, 20TB, 40TB)	Yes	Yes	Yes	Yes	Yes	No
Converged Technology Extension for Unity (300F, 400F, 500F, 600F) (350F, 450F, 550F, 650F) – All Flash and Hybrid	Yes	Yes	Yes	Yes	Yes	No
Converged Technology Extension for VNX (5400, 5600, 5800, 7600, 8000)	Yes	Yes	Yes	Yes	Yes	No
Converged Technology Extension for Isilon (X210, S210, NL 410, X410)	Yes	Yes	Yes	Yes	Yes	Yes
Converged Technology Extension for Cisco UCS C220 M4 and C240 M4 only	Yes	Yes	Yes	Yes	Yes	No
Converged Technology Extension for Cisco UCS C220 M5, C240 M5 and C480 M5 only	Yes	Yes	Yes	Yes	Yes	No

## DEFINITIONS

**Converged Technology Extension for Cisco UCS:** Add incremental compute power for compute-intensive applications, such as Analytics and artificial intelligence/machine learning.

**Converged Technology Extension for Dell EMC PowerMax:** Add PowerMax all-flash storage with end-to-end NVMe, real-time machine learning, and up to 10 million IOPS for your mission-critical applications to support your data center consolidation or transaction-intensive workloads.

**Converged Technology Extension for Dell EMC VMAX:** Add VMAX all-flash storage to get performance, scale, high availability, and advanced data services for all mission-critical applications.

**Converged Technology Extension for Dell EMC Unity XT:** Add Dell EMC Unity XT all flash or hybrid storage with its dual-active architecture and rich data services to deliver unified storage speed and efficiency for a multi-cloud world.

**Converged Technology Extension for Dell EMC Unity:** Add Dell EMC Unity all flash or hybrid storage to grow and cost effectively manage multiprotocol systems.

**Converged Technology Extension for Dell EMC XtremIO X2:** Add Dell EMC XtremIO X2 All-Flash for linear scale-out growth, massive I/O performance, and workload consolidation

**Converged Technology Extension for Dell EMC Isilon:** Add Dell EMC Isilon for scale-out NAS capabilities to support file and unstructured data environments.

## INTEGRATED DATA PROTECTION

The table below lists the supported Integrated Data Protection solutions on each of the currently supported Converged Systems.

	VxBlock System 1000	Vblock System 740	Vblock System 720	VxBlock and Vblock System 540	VxBlock and Vblock System 340 and 350	VxBlock and Vblock System 240 and 200
Backup & Archive (Avamar + Data Domain) or (Networker + Data Domain)	Yes	Yes	Yes	Yes	Yes	Yes
RecoverPoint SE	Yes	No	No	No	Yes	Yes*
RecoverPoint EX	Yes	Yes	Yes	Yes	Yes	No
RecoverPoint for VM	Yes	Yes	Yes	Yes	Yes	No
VPLEX	Yes	Yes	Yes	Yes	Yes	Yes
Data Protection Suite and Cloud DR	Yes	Yes	Yes	Yes	Yes	Yes
Cyber Recovery	Yes	Yes	No	Yes	Yes	No

\*Only supported for the VxBlock System 240