

Solution Overview

Surveillance

Dell EMC Surveillance Validation Matrix

H14530.9

October 2018

This document shows how we partner with leading Surveillance providers to configure various Dell EMC arrays, clusters, and cloud storage offerings to easily implement onto an Dell EMC storage system.

See the [Surveillance Solutions Partner Validations](#) web page for links to the Partner Sizing and Configuration guides.

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Functional testing

Functional testing differs from validation testing in that functional testing verifies that a VMS is compatible with Dell EMC storage systems. For video management applications the Functional test verifies compatibility for write, read, archive retention policies, and stable connectivity.

This type of testing does not include failure and recovery scenarios and performance benchmarking. Functional testing does not establish sizing guidelines but it may include the results from a single server baseline test.

Body-worn and VMS verifications

The following table shows the VMS and Body camera providers that have partnered with Dell EMC for Functional testing.

Table 1 Functional testing

Partner	Verification Test type	Isilon	VNX	CloudArray Isilon	CloudArray ECS
Axon Commander	Body Camera	X	X	-	-
DutyVue	Body Camera	X	X	X	X
Edesix	Body Camera	X	X	X	X
IndigoVisionFL	Body Camera	X	X	X	X
LenSec	VMS	X	-	-	-
NUUO	VMS	-	X	-	-
Reveal	Body Camera	X	X	X	X
VIEVU	Body Camera	X	X	X	X

VMS Validations

The following table shows the VMS providers that have partnered with Dell EMC for Validation testing. Tier 1 indicates that the array can be used for primary storage for the surveillance workload. Tier 2 indicates that the array can be use as a secondary storage platform.

Table 2 VMS Validation testing with Unity, SC series and Isilon

VMS	NAS storage		SAN storage				Servers
	Isilon	Protocol	Unity	SC	ECS	VMware Datastore	
Aimetis	Tier 1	CIFS	Tier 1	—	—	iSCSI	—
Avigilon	Tier 1	CIFS	—	—	—	—	—
Bosch	—	—	Tier 1	—	—	iSCSI	—
Cisco	—	—	Tier 1	—	—	iSCSI	—
Digifort	—	—	Tier 1	—	—	iSCSI	—
FLIR	Tier 1, 2	CIFS	Tier 1	—	—	iSCSI	—
Genetec	Tier 1	CIFS	Tier 1	Tier 1	Tier 1	iSCSI	X
Godrej IQ Vision	Tier 2	CIFS	Tier 1, 2	—	—	iSCSI	—
Honeywell	Tier 1	CIFS	—	—	—	iSCSI	—
IndigoVision	Tier 1	CIFS	—	—	—	—	—

Table 2 VMS Validation testing with Unity, SC series and Isilon (continued)

VMS	NAS storage		SAN storage				Servers
	Isilon	Protocol	Unity	SC	ECS	VMware Datastore	
Infinova	Tier 1	CIFS	—	—	—	—	—
ISS	Tier 1	CIFS	Tier 1	—	—	iSCSI	—
LENSEC	Tier 1	CIFS	—	—	—	—	—
Milestone	Tier 2	CIFS	Tier 1, 2	Tier 2	Tier 2	iSCSI	X
Panasonic	Tier 1	CIFS	—	—	—	—	—
Qognify	Tier 1	CIFS	Tier 1	—	—	iSCSI	X
Surveillus	Tier 1	NFS	Tier 1	—	—	iSCSI	—
Synectics	Tier 1	CIFS	Tier 1	—	—	iSCSI	—
Verint	Tier 1	CIFS	Tier 1	—	Tier 1	iSCSI	X

Dell EMC storage systems tested

The following table shows the VMS, Isilon OneFS, and VNX firmware versions that have been included in validation testing.

Table 3 VMS and Dell EMC storage system versions tested

VMS	Versions	NAS release	SAN firmware	ECS releases		VMware
				ECS	GeoDrive	
Aimetis	6.12.3.0	7.1.0.0	OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5
	6.14.5.1	7.2.0.1 8.0	—	—	—	ESXi 6.0
Avigilon	5.8.2.14	8.0.0.2	—	—	—	ESXi 6.0
Bosch	3.0	—	OE5.32.000.5.x OE5.33.006.3.x	—	—	ESXi 5.5
Cisco	6.7	—	OE5.33.000.5.x	—	—	ESXi 5.5
Digifort	7.1.0.0	—	OE 3.1.3.7141854	—	—	ESXi 6.0
FLIR	6.2	6.5.4.4	—	—	—	—
Genetec	5.2	7.2.0.0 7.2.0.1	OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5
	5.3	7.2.0.0 7.2.0.1	OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5

Table 3 VMS and Dell EMC storage system versions tested (continued)

VMS	Versions	NAS release	SAN firmware	ECS releases		VMware
				ECS	GeoDrive	
	5.4	7.2.0.0 7.2.0.1	OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 6.0 ESXi 6.5
	5.6	8.0.0.2	4.2.0.9392909	—	—	ESXi 6.5
	5.7	8.1	4.3.1.1525703027 4.2.3.9670635 4.2.1.9535982 R7.02.30.021.01	3.2	1.2.2.1	ESXi 6.5
Godrej IQ Vision	2014	—	3.1.3.5754151 OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 6.0
	2016	—	4.2.0.9392909	—	—	ESXi 6.5
Honeywell	600.1	7.2.1	—	—	—	ESXi 5.5 ESXi 6.0
IndigoVision	13.1	8.0	—	—	—	—
Infinova	17.02.09.08	8.0.1.1	—	—	—	—
ISS	8.3	7.2.0.0	OE5.31.000.5.x OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5
LENSEC	2.3.0.1	7.1.1.1	—	—	—	—
Milestone	2013 R2	7.0 7.1.1.1	3.0.1.4029529 OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5
	2014	7.0 7.1.1.1 7.2.0.1 7.2.1.0	3.0.1.4029529 3.1.3.5754151 OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5
	2016	8.0.0.2 8.0.1	3.1.2.5754151	—	—	ESXi 6.0
	2017	8.0.1.1	4.2.0.9392909	—	—	ESXi 6.5
	2018	8.1.0	4.2.3.9670635 7.2.30.21	3.2	1.2.2.1	ESXi 6.5
NUUO	2.1.0.63	—	OE5.33.000.5.x	—	—	—
Panasonic	7.1	8.0.1.2	—	—	—	—

Table 3 VMS and Dell EMC storage system versions tested (continued)

VMS	Versions	NAS release	SAN firmware	ECS releases		VMware
				ECS	GeoDrive	
Gognify	2.7up2	7.1.0.1 7.2.0.0	OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.5
	3.1	7.2.1.1	—	—	—	ESXi 6.0
	4.2	8.0.1.1	SCV2080	—	—	ESXi 6.0
S-1 Corporation	2.65.0.0	8.0.1.2	—	—	—	ESXi 6.5
Surveillus	5.8.25	6.5.0.0 7.1.0.0	—	—	—	ESXi 5.x
Synectics	1.17.0.16	7.2.1	OE5.33.008.5.119	—	—	ESXi 6.0
Verint	6.4	7.1.0.0 7.1.1.1	OE5.32.000.5.x OE5.33.000.5.x	—	—	ESXi 5.x
	6.4.1591	7.2.1.1	3.1.3.7141854	—	—	ESXi 6.0
	6.4.3.2811	8.0.0.2	4.2.0.9392909	—	—	ESXi 6.0
	7.5.1.7623	8.1.0.2	4.2.1.9535982	3.2	1.2.2.1	ESXi 6.5

Dell EMC servers tested

The following table shows the VMS and server versions that have been included in Validation testing.

Virtualization options (Virt):

- E - VMware ESXi
- B - Bare metal
- H - Microsoft Hypervisor

Table 4 VMS and Dell EMC servers tested

VMS	Version	Server	Virt	Processor	Bios	Memory	Drives	RAID	NIC
Genetec	5.6	R730xd	—	Xeon E5-2650 V4	2.4.3	256 GB	16 x 10 TB	10	10 GbE
			—	Xeon E5-2650 V4	2.4.3	256 GB	8 x 4 TB	5	10 GbE
		R630	—	Xeon E5-2650 V4	2.3.4	256 GB	5 x 1 TB	6	10 GbE
		R430	—	Xeon E5-2650 V4	2.3.5	256 GB	1 x 400 GB SSD	1	10 GbE
		R740xd	—	Xeon Gold 6126	1.2.11	256 GB	14X10 TB	6	10 GbE
		FD332	—	—	—	256 GB	14X1.2 TB	6	10 GbE
		FC640	—	Xeon Gold 6126	1.2.11	256 GB	—	6	10 GbE

Table 4 VMS and Dell EMC servers tested (continued)

VMS	Version	Server	Virt	Processor	Bios	Memory	Drives	RAID	NIC
Milestone	2017	R730xd	—	Xeon E5-2650 V4	2.4.3	256 GB	16 x 10 TB	6	10 GbE
			—	Xeon E5-2650 V4	2.4.3	256 GB	16 x 4 TB	6	10 GbE
			—	Xeon E5-2650 V4	2.4.3	256 GB	8 x 4 TB	6	10 GbE
		R630	—	Xeon E5-2650 V4	2.3.4	256 GB	5 x 1 TB	6	10 GbE
		R530	—	Xeon E5-2650 V4	2.4.2	256 GB	6 x 6 TB	6	10 GbE
		R430	—	Xeon E5-2650 V4	2.3.5	256 GB	1 x 400 GB SSD	1	10 GbE
Qognify	4.2	R730xd	—	Xeon E5-2650 V4	2.4.3	256 GB	16 x 4 TB	6	10 GbE
			—	Xeon E5-2650 V4	2.4.3	256 GB	15 x 10 TB	6	10 GbE
			—	Xeon E5-2650 V4	2.4.3	256 GB	14 x 10 TB	6	10 GbE
		R530	—	Xeon E5-2650 V4	2.4.2	256 GB	6 x 6 TB	6	10 GbE
		R430	—	Xeon E5-2650 V4	2.3.5	256 GB	1 x 400 GB SSD	1	10 GbE
Verint	6.4.3.281 1	R730xd	—	Xeon E5-2650 V4	2.4.3	256 GB	16 x 4 TB	6	10 GbE
		R630	—	Xeon E5-2650 V4	2.3.4	256 GB	14 x 10 TB	6	10 GbE

EVT testing

The following table shows the VMS that have been tested with Dell EMC Efficient Video Transport (EVT). Systems that are larger than 10 total agents might require a dedicated EVT Manager server.

Table 5 EVT Manager with Agent

Partner	VMS	Version	Server/Service					
			Control		Record		Review	
Aimetis*	Symphony	6.14.6.2	N/A	N/A	Symphony Server	No	Symphony Client	No
Genetec	Security Center	5.4	Directory Server	No	Archiver	No	Security Desk	Yes
IQ Vision	Ultimate	2014	Management Server	No	Recording Server	No	Prime View	Yes
Honeywell	Digital Video Manager	600.1	Database Server	No	Camera Server	Yes	DVM Console Client	Yes
IndigoVision	Control Center	13.1	Control Center	Yes	Network Video Recorder (NVR)	Yes	Control Center Client	Yes
Milestone	XProtect	2016	Management Server	No	Camera Server	No	Smart Client	Yes
Gognify	NiceVision Net	3.1	Application Management Server (AMS)	No	SVR	Yes	Control Center	Yes
Synectics*	Digital Recording System	V1.17.0.16	N/A	N/A	Digital Recording System PSN3	No	Synergy 3	No
Verint	Nextiva	6.4.1591	Master	No	Recorder	No	Review	Yes

* A dedicated EVT Manager server is required.

Table 6 EVT Agent only

Partner	VMS	Version	Server/Service					
			Control		Record		Review	
Aimetis*	Symphony	6.14.6.2	N/A	Yes	Symphony Server	Yes	Symphony Client	Yes
Genetec	Security Center	5.4	Directory Server	Yes	Archiver	Yes	Security Desk	Yes
IQ Vision	Ultimate	2014	Management Server	Yes	Recording Server	Yes	Prime View	Yes
Honeywell	Digital Video Manager	600.1	Database Server	Yes	Camera Server	Yes	DVM Console Client	Yes
IndigoVision	Control Center	13.1	Control Center	Yes	Network Video Recorder (NVR)	Yes	Control Center Client	Yes
Milestone	XProtect	2016	Management Server	Yes	Camera Server	Yes	Smart Client	Yes

Table 6 EVT Agent only (continued)

Partner	VMS	Version	Server/Service					
			Control		Record		Review	
Gognify	NiceVision Net	3.1	Application Management Server (AMS)	N/A	SVR	Yes	Control Center	Yes
Synectics*	Digital Recording System	V1.17.0.16	N/A	N/A	Digital Recording System PSN3	Yes	Synergy 3	Yes
Verint	Nextiva	6.4.1591	Master	No	Recorder	Yes	Review	Yes

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Published October 2018

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