

The Dell EMC Devices Supported by Dell EMC OpenManage Essentials (OME)

This Dell EMC technical white paper provides information about the various Dell EMC devices for which discovery, inventory, and classification operations are supported by Dell EMC OpenManage Essentials (OME).

Abstract

This Dell EMC technical white paper provides information about the various Dell EMC devices for which discovery, inventory, and classification operations are supported by Dell EMC OpenManage Essentials.

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Revisions

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Executive summary

1

OpenManage Essentials (OME) enables the management and monitoring of various discovered Dell devices in a single centralized console.

With OME, you can discover and inventory to manage devices present in your network. The scope of this technical white paper is limited to the complete support of MX Chassis, VxFlex Ready Nodes, Dell EMC EqualLogic Groups, Dell EMC NAS Appliances, Disk Backup Appliances, VxRail Appliances, XC Series Appliances, SonicWALL Firewall, PowerConnect W-Series, Brocade Fibre Channel, Dell EMC Compellent Arrays, Dell EMC Networking Switches, KVM, PDU, and UPS, in addition to the devices supported in the previous versions of OME

2 Introduction

The purpose of this technical white paper is to describe the complete support of Dell devices in OpenManage Essentials (OME). This technical white paper covers the following topics:

- Device discovery, inventory, and classification
- Device health
- Warranty Information
- Start application
- Monitor devices (alerts)
- Troubleshooting

For a complete list of supported device models, see the *Dell EMC OpenManage Essentials Version* 2.5 Support Matrix at **dell.com/openmanagemanuals**.

3 Protocols supported by OpenManage Essentials

- OpenManage Essentials (OME) can discover and receive alerts from Dell EMC EqualLogic Groups, Dell EMC NAS Appliances, SonicWALL Firewall, PowerConnect W-Series, Brocade Fibre Channel, Dell EMC Compellent Arrays, Dell EMC Networking Switches, KVM, PDU, and UPS devices by using SNMP protocol.
- VxFlex Ready Nodes, Disk Backup Appliances, VxRail Appliances, and XC Series Appliances can be discovered by using WS-Man protocol and support SNMP alerts.
- MX Chassis can be discovered by using REST protocol and support SNMP alerts.
- SNMP protocol versions V1, V2, and V3 are currently supported.
- You must configure the SNMP protocol on all the target devices and set the management station IP address to the system where OME is installed.
- Although the previously specified settings are not required on all these devices, it is recommended to check for the SNMP configuration before performing discovery or inventory operations.
- Receipt of SNMP traps or alerts is also supported for these devices in OME.
- The <u>Troubleshooting</u> section provides guidance about ensuring that a target device is configured correctly to be managed by OME.

Following table shows the recommended protocols to discover different types of devices:

Recommended Protocol
REST
WS-Man
WS-Man
WS-Man
WS-Man
SNMP

Table 1 Recommended protocols for device discovery

4 Discover, inventory, and classify Dell EMC devices in OpenManage Essentials

To discover an MX chassis, VxFlex Ready nodes, Dell EMC EqualLogic groups, Dell EMC NAS appliances, Disk Backup appliances, VxRail appliances, XC Series appliances, SonicWALL firewall, PowerConnect W-Series, Brocade fibre channel, Dell EMC Compellent arrays, Dell EMC networking switches, KVM, PDU, or UPS by using OME, do the following:

- 1. Start OpenManage Essentials.
- 2. Navigate to Manage \rightarrow Discovery and Inventory.
- 3. In the left pane, click Add Discovery Range.
- 4. Enter the IP address or host name and subnet mask, and then click Add.
- 5. If you are entering the IP range, select the Save as Group check box.
- 6. Enter the group name in Group Name, and then click Add.
- 7. Click Next.

DELLEMC OpenManage Essentials		Dell TechCenter Support Help About Administrator
Home Manage Deployment Reports Settings Logs Tutorials Dell EMC Solutions Devices Device Search Discovery and Inventory Alerts System Update Remote Tasks Configuration Discovery Portal Discovery Portal Discovery Portal Discovery Portal Discovery Portal Discovery Range Discovery Portal Discovery Range Configuration Discovery Range Configuration Discovery Ranges Discovery Range Configuration Discovery Range Configuration Specify IP address, range, or Status Schedule Discovery Range Configuration Specify IP address, range, or Over Type Filtering IOHP configuration Summary Save as Group Group Name Exclude Ranges IOHP configuration Summary IH Badress or arange. The first or IH Badress / range: Image / Host Name Inscovery Range Image / Host Name Discovery Range Image / Host Name Discovery Range Image / Host Name Image / Host	guration	Dell'TechCenter Support Help About Adonnistrator © 0 © 2 Search device, ranges, and more

Figure 1 Discovery Range Configuration

8. On the **Device Type Filtering** page, select specific device types for guidance in determining which protocols are required to manage them, and then click **Next**.

Discover Devices							23
Discover Devices Device Ty	rpe Fi	Itering					2/4
Discovery Range Configuration Device Type Filtering	Se ma	elect specific device types for gu anage them.	idance in deterr	nining wh	ich protocol	s are required to	
ICMP Configuration		Device Type	Required Protocols	ĩ			
Summary		iDRAC (server out of band)	WS-MAN				
		Server with OMSA	SNMP				
		Windows Server without OMSA	WMI				
		Linux Server without OMSA	SSH				
=		ESXi Host + Guests	WS-MAN + SNMP				
		HyperV Host + Guests	WMI + SNMP				
		Chassis (CMC) Discovery - All Components	WS-MAN				
		MX Chassis Discovery – All Components	REST + WS-MAN				
		Windows Enterprise Client	WMI				
		PowerVault MD Array	MD Array				
		Other Device	SNMP				
	Requ	ired Protocols:					
Help	,			Cancel	Back	Next Fini	ish

Figure 2 Device Type Filtering page

9. On the ICMP Configuration page, click Next.

Discover Devices		×								
Discover Devices ICMP Configuration										
Discovery Range Configuration Device Type Filtering	You may configure the ICMP parameters.	?								
ICMP Configuration Summary	Timeout: 1,000 milliseconds Retries: 1 milliseconds									
Help	Cancel Back Next	Finish								

Figure 3 ICMP Configuration page

Discover Devices

10. On the **REST Configuration** page, enter the user ID and password, and then click **Next**.

DISCOVET DEVICES				23						
Discover Devices REST Co	onfiguration			4/6						
Discovery Range Configuration Device Type Filtering ICMP Configuration	Please specify the REST Credentials of MX Chassis.									
REST Configuration WS-Man Configuration	User ID: Password:									
Summary	Timeout: 60 * seconds Port: 443 *	s Retries. 2 e attempts	-							
Help			Cancel Back	Next Finish						

Figure 4 REST Configuration page for MX Chassis

11. On the **WS-Man Configuration** page, enter user ID and password, and then click **Finish**.

Discover Devices				×					
Discover Devices WS-Man	Configuration			5/6					
Discovery Range Configuration Device Type Filtering ICMP Configuration	Please specify the WS-Man credentials.								
REST Configuration	User ID:	root							
WS-Man Configuration	Password:	•••••							
Summary	Timeout: 60 ★ second Port: 443 ★ (Secur ✓ Secure Mode ✓ Skip Common name c ✓ Trusted Site Certificate File:	s Retries: 3 * attempts e) heck	Browse						
Help			Cancel Back Next	Finish					



12. On the SNMP Configuration page, ensure that the Get community field has public as the attribute, and then click Finish.

Discover Devices			X								
Discover Devices SNMP Configuration											
Discovery Range Configuration Device Type Filtering	Specify the SNMP settings for discovery.										
SNMP Configuration	Enable SNMP V1/V2C										
Summary	Get community:	public									
	Set community: Enable SNMP V3 Authentication Protocol User Name: Authentication Password Encryption Protocol Encryption Password Generic Settings	SHA1 • AES • Timeout: 4 • seconds Retries: 2 • attempts									
Help		Cancel Back Next	Finish								

Figure 6 SNMP Configuration page

4.1 View Dell EMC MX Chassis data in OpenManage Essentials

The MX Chassis devices are classified under All Devices \rightarrow Modular Systems \rightarrow PowerEdge MX7000 in the device tree. You can click the discovered device to see all the inventoried tables as shown in the sample screen shot.

me Manage Deployment Reports Settings Logs Tutorials Dell EMC Solutions															
vices Device Search Discovery and Inventory Alerts System Update Remote Tasks Configuration															
MX-F	PT0008	5H													
🕜 Citrix XenServers															
Detail	ls Alerts	Hardware Lo	gs C	onfiguration											
s															
Converged Infrastructure	👞 De	evice Su	Imr	nary											
Hea	alth Status	Connection Sta	tus I	Device Name	Device Type	Model		Service Tag	Asset Tag	Express Service Code	Location	Revision	Device Discovery Time	Device Inventory Time	Device Status Time
oft Virtualization Servers	0	🚱 On		MX-PT0005H	MX Chassis	POWEREDGE	MX7000	PT0005H	null	56173077701	N/A	N/A	8/20/2018 12:13:25 PM	8/20/2018 12:13:25 PM	N/A
r Systems	•	• •													
verEdge Chassis															
rerEdge FX2	🔊 Da	ita Soui	ce	S											
Glob	bal Status	Name		Version	Description						N	lanufacturer			
rerEdge MX7000	0	Management	Modu	ile 1.00	This system	component provis	des a comp	lete set of rer	note manage	ment functions for MX CI	hassis D	ell Inc.			
MX-PT0005H_Chassis	-								-						
3 - MX-PT0005H	M NT	C Infor	ma	tion											
🖉 Servers	- IAT	C IIIO	iild	CON											
IPv4	4 Address	IPv6 Address	MAC	Address	Description	TOE Capability	TOE Ena	ibled							
Devices 100.	.96.45.236	N/A	d0:9	4:66:0b:51:11	N/A	N/A	N/A								
vices															
telassified Devices	🄰 Fir	mware	In	forma	tion										
	r Maria	n Fastan II													
Nam	ne versio	in Enclosure IL	Typ	e											
MM	1.00	U	Mai	ragement Mod	uie Firmware										
and Bara Matal		_													
Sound Bare Metal	🖉 Po	wer Su	pp	y Info	rmatio	on									
Devices	ation C	Output (Watts)	Туре	Power Monito	ring Capable										
PSU	U.Slot.1 0		AC	N/A											
ESX Servers PSU	J.Slot.2 3	000	AC	N/A											
eady Nodes PSU	J.Slot.3 3	000	AC	N/A											
PSU	J.Slot.4 0		AC	N/A											
PSU	J.Slot.5 0		AC	N/A											
PSU	J Slot 6 0		AC	N/A											

Figure 7 MX Chassis Classification and Inventory

Note—OME 2.5 supports only the discovery of stand-alone or lead MX chassis. It does not support member chassis discovery without lead chassis. If member chassis is discovered without lead chassis then application logs will show a log indicating "discover <Lead_Service_Tag>".

Supported Models

Refer to the Table 6 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

4.2 View VxFlex-ready nodes in OpenManage Essentials

The VxFlex-ready nodes are classified under All Devices \rightarrow VxFlex Ready Nodes in the device tree. You can click the discovered device to see all the inventoried tables as shown in the sample screen shot.

Home Manage Deployment Reports Setting	is Logs Tutori	als Dell EMC So	olutions									
Devices Device Search Discovery and Invento	ory Alerts Sys	tem Update Rei	mote Tasks	Configuration								
E- 3 All Devices iDRAC-D4	0J6Q2											
Octrix XenServers Octails Alert	Details Alerts Hardware Logs Configuration											
H- O Clusters												
- O Microsoft Virtualization	Connection State	is Device Name	Device Type	Model	Service Tag	Node Id	Asset Tag	Express Servic	e Code Sys	tem Uptime	Total Installed Memory (MB)	Maximum Memory
🗉 – 🔞 Modular Systems	🕲 On	iDRAC-D40J6Q2	2 Server	VxFlex R740xd Ready Node	D40J6Q2	D40J6Q2	N/A	28540930250	6d:2	20h:31m:6s	229376	3145728
=- 🔞 Network Devices												
📭 😵 OEM Devices 🛛 🔍 🎼 🥄	AC Devic	e Informa	ation									
- OOB Unclassified Devic	ess RAC Type	RACI	DNS Name RA	C Connection Status								
- O Power Devices	Remote Acces	s Controller N/A	Ø	On								
- 🖉 PowerEdge C Servers												
- Ø Printers												
🗄 - 🥝 RAC 🛛 😽 🖸	ata Soure	ces										
Repurpose and Bare Me Global Status	Name		Ver	sion Description							Manufacturer	
🗄 - 🔞 Servers 🛛 😵	Integrated Del	Remote Access C	Controller 3.2	1.21.21 This system compone	21 This system component provides a complete set of remote management functions for PowerEdge servers Dell Inc.							
Storage Devices												
D- 😵 Unknown	IC Inform	nation										
H O VMware ESX Servers												
IPv4 Address	IPv6 Address	MAC Address	Current MAC A	ddress Description				TOE Capability	TOE Enable	d		
N/A	N/A	20:04:0F:E8:40:B8	20:04:0F:E8:40	:B8 Broadcom Gigabit Eth	ernet BCM572	0 - 20:04:0F:E	8:40:B8	N/A	N/A			
N/A.	N/A	20:04:0F:E8:40:B9	20:04:0F:E8:40	:B9 Broadcom Gigabit Eth	ernet BCM572	0 - 20:04:0F:E	8:40:B9	N/A	N/A			
N/A	N/A	20:04:0F:E8:40:BA	20:04:0F:E8:40	BA Broadcom Gigabit Eth	ernet BCM572	0 - 20:04:0F:E	8:40:BA	N/A	N/A			
N/A	N/A	20:04:0F:E8:40:BB	20:04:0F:E8:40	BB Broadcom Gigabit Eth	ernet BCM572	0 - 20:04:0F:E	8:40:BB	N/A	N/A			
100.96.26.22	9 N/A	54:48:10:f0:4a:56	N/A	iDRAC.Embedded.1				N/A	N/A			



4.3 View VxRail appliances in OpenManage Essentials

VxRail appliances are classified under All Devices \rightarrow Hyper-Converged Infrastructure \rightarrow VxRail in the device tree. You can click the discovered device to see all the inventoried tables.

4.3.1 VxRail appliance with the Application Management URL

If the virtual application management URL is available on the appliance, a sub-group (ClusterIP) will be created under VxRail and appliances belonging to the same cluster will be grouped together. A new application launch point VxRail Manager will also be available.

Classification and inventory for VxRail Appliance with Application Management URL is shown in the sample screen shot.

Home	Manage Deployment Reports Set	tings Logs Tut	orials Dell EM	C Solutions	Configuration		-		-		_	Search device, r	anges, and mor
E- S	All Devices O Citrix XenServers	idrac-28YP7	C2	Remote lasks	Connguration							÷9	<u>9</u> 9
-ġġġ	Clients Clusters Hyper-Converged Infrastructure	Details Alerts	vice Sum	Non-Compliant S	ystems Map V	iew							
	🖿- 📀 VxRail	Health Status	Connection Status	Device Name	Device Type	Model	Service Tag	Node Id	Asset Tag	Express Service Coo	te System Uptime	Total Installed Memory (MB)	Maximum Mem
	- 😨 idrac-28XQ7C2	0	🕑 On	idrac-28YP7C2	VxRail Appliance	Dell EMC VxRail E460F	28YP7C2	28YP7C2	N/A	4895576930	2d:7h:26m:20s	65536	3145728
	E- 😰 Cluster_100.100.226.35		•										
	idrac-28YP7C2	Lifer a DOURTOO		T									
	E- 🚺 XC Series	Idrac-281P/C2			ILION								
	() KVM	Application Laur	nch 🕨	🔕 RAC Cons	ole RAC	Connection Status							
	Microsoft Virtualization Servers	Troubleshoot		RAC Virtu	al Console 🎯	Dn							
⊡ -	Modular Systems	Refresh Invento	iry	VxRail Ma	nager								
-	Network Devices	Refresh Status		ion									
	OEM Devices			lon									
-	OOB Unclassified Devices	Add to New Gro	up	Physical Memory	(MB) OS Locale	OS Revision Service	Pack Version						
-	Power Devices	Add to Existing	Group		N/A	6.3 N/A							
-	PowerEdge C Servers	Ignore All Alerts	s from Device										
- H	Printers	Exclude		-									
-	😵 RAC	Delete		5									
- F	Repurpose and Bare Metal	Global Status	Name		Versi	n Description					Manu	ufacturer	
-	Ø Servers	8	Integrated Dell I	Remote Access Co	ontroller 2.41.	0.40 This system comp	onent provides	a complete :	set of remote n	nanagement functions	s for servers Dell I	nc.	
-	Storage Devices	· · · ·											
-	😵 Unknown		Taform	otion									
L	VMware ESX Servers			ation									
		IPv4 Address	IPv6 Address	MAC Address	Description				TOE Capabilit	y TOE Enabled			
		100.100.240.24	3 N/A	F4:8E:38:CB:12:90	IDRAC.Embe	ided.1			N/A	N/A			

Figure 9 VxRail Appliance with Application Management URL Classification and Inventory

4.3.2 VxRail appliance without the Application Management URL

Classification and inventory for VxRail Appliance without Application Management URL is shown in the sample screen shot.

Home Manage Deployment Reports Set	ttings Logs Tutorials Dell EM	C Solutions	uration	-	-	_	_	-	Search dev	ice, rar
Citrix XenServers	idrac-28XQ7C2	Connige							Ŧ	Ð
■- 🗭 Clients ■- 🔗 Clusters ■- 😵 Hyper-Converged Infrastructure	Details Alerts Hardware Logs	Non-Compliant Systems	Map View							
	Health Status Connection Status	Device Name Device Ty idrac-28XQ7C2 VxRail Ap	ppliance Dell	lel EMC VxRail E460	Service Tag Nod 28XQ7C2 28X	de ld Asset Tag (Q7C2 N/A	Express Service Code 4893943970	System Uptime N/A	Total Installed Memory 65536	(MB) N 3
KVM O Microsoft Virtualization Servers	Application Launch Troubleshoot	RAC Console RAC Virtual Console RAC DNS Name	e RAC Conn	ection Status						
- Modular Systems - Network Devices - OEM Devices	Refresh Status Add to New Group	Controller N/A	🕑 On							
OOB Unclassified Devices OPower Devices OPower Devices	Add to Existing Group Ignore All Alerts from Device	I Physical Memory(MB) OS	S Locale OS	Revision Service	Pack Version					
 ✓ Printers ✓ Printers ■ S RAC 	Exclude Delete		A 6.3	N/A						
O Repurpose and Bare Metal O Servers Servers Storage Devices	Global Status Name	Remote Access Controller	Version 2.41.40.40	Description This system compo	onent provides a cor	mplete set of remote	management functions f	Manu or servers Dell I	nfacturer	
🖬- 🛷 Unknown — 🔗 VMware ESX Servers	NIC Inform	ation		,						

Figure 10 VxRail Appliance without Application Management URL Classification and Inventory

4.3.3 VxRail appliance models supported by OpenManage Essentials Refer to the Table 4 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in Introduction.

4.4 View XC Series appliances in OpenManage Essentials

The XC series appliances are classified under All Devices \rightarrow Hyper-Converged Infrastructure \rightarrow XC Series in the device tree. You can click the discovered device to see all the inventoried tables.

4.4.1 XC Series appliance with the Application Management URL

If virtual application management URL is available on the appliance then a sub-group (**Cluster_IP**) will be created under XC Series and appliances belonging to the same cluster will be grouped together. A new application launch point (**PRISM**) will also be available.

Classification and inventory for XC Series Appliances with Application Management URL is shown in the sample screen shot.

Home	Manage Deplo	oyment Reports S	ettings Lo	ogs Tut	orials Dell EMC	Solutions	Carlian								Search device	, ranges, a
E- R	All Devices	In Discovery and In	idroo (Remote Tasks	Conligu	ration							1	
	Citrix XeoServ	iers	lurac-	20101	62										T	
1 -	Clients		Details	Alerts	Hardware Logs	Non-Compliant S	Systems I	Map View								
I.	Clusters															
Ī.	Buner-Conver	ned Infrastructure		De	vice Sum	marv										
Ī	L S VyRail	300 1111000 0000 0				,										
			Health	n Status	Connection Status	Device Name	Device Typ	be M	odel	Service Tag	Node Id	Asset Tag	Express Service Code	System Uptime	Total Installed Memory (M	 Maximur
	Ro dendo	GEDH32		8	🅑 On	idrac-28XQ7C2	VxRail App	bliance D	ell EMC VxRail E4	0 28XQ7C2	28XQ7C2	N/A	4893943970	N/A	65536	3145728
	- 🕄 Cluster	100.100.226.34														
		idrac-HD04CD2		RA	C Device	Informa	ation									
	2 KVM		idrac-HI	D04CD2												
L	Microsoft Virtu	alization Servers				RACE	DNS Name	RAC Cor	nection Status							
—	Modular Syste	ms	Applicat	tion Laun	ch 🕨	CO RAC Conso	ole	🙂 On								
T_	Network Devic	265	Troubles	shoot		RAC Virtua	al Console									
Ē	OEM Devices		Refresh	Inventor	у	PRISM										
.	OOB Unclassifi	ied Devices	Refresh	Status		Deviced Management			0.0	Deale Maralan						
T	Power Devices		Add to I	New Grou	ın	I Physical Memory	(MB) 03	LUCAIE	S REVISION SELV	LE PAUK VEISION						
L	PowerEdge C S	Servers	Add to I	Evistina (Froun		N/A	0	3 IN/A							
L	Printers		Ignora	All Alorte	from Dovico											
-	RAC		Ignore /	All Alcros	ITOITI DEVICE	s										
	Repurpose and	d Bare Metal	Exclude	2				Version	Description					Man	ufacturer	
L	Servers		Delete	*	Integrated Dell R	emote Access Cr	ontroller	2 41 40 40	This system co	nonent provides	a complete	set of remote	management functions	for servers Dell	Inc	
.	Storage Device	es		•	Integrated Dell K	chiele necess of	ondolici	2.41.40.40	, inis system co	aponenii providez	a complete	Sec or remore	management functions	Dell		
_ ⊒-	Our Contraction															
Ī	VMware ESX S	Servers		NI	C Inform	ation										

Figure 11 XC Series Appliance with Application Management URL Classification and Inventory

4.4.2 XC Series Appliance without the Application Management URL

Classification and inventory for XC Series Appliance without Application Management URL is shown in the sample screen shot.

Home Manage Deployment Reports Sett	ings Logs Tut	orials Dell EM	C Solutions								
Devices Device Search Discovery and Inver	ntory Alerts S	System Update	Remote Tasks	Configurati	on						
E- 😵 All Devices	idrac-5GFDI	H32									
- 🖉 Citrix XenServers											
🖬 - 🗹 Clients	Details Alerts	Hardware Logs	Non-Compliant S	ystems Map	View						
Intersection of the section of t											
- 😰 Hyper-Converged Infrastructure	E De	vice Sun	nmary								
🖬 - 🐹 VxRail	Health Status	Connection Status	Device Name	Device Type	Model	Service Tag	Node Id	Asset Tag	Express Service Code	System Uptime	Total Installed Memor
E- 😵 XC Series	0	🕑 On	idrac-5GFDH32	XC Appliance	Dell XC430-4	5GFDH32	5GFDH32	N/A	11877193406	2d:6h:10m:18s	16384
idrac-5GFDH32		•									
💼- 😰 Cluster_100.100.226.34	idrac-5GFDH32										
— Ø кvм	Application Lau	nch	RAC Cons	ole							
 — Ø Microsoft Virtualization Servers 	Troubleshoot		🔞 RAC Virtu	al Console	AC Connection S	Status					
🖬 - 🖉 Modular Systems	Refresh Invento	orv	ontroller N/A	e	On						
- Ø Network Devices	Refrech Status	,									
- 🖉 OEM Devices			_								
🖬 - ⊘ OOB Unclassified Devices	Add to New Gro	pup	5								
E- 🖉 Power Devices	Add to Existing	Group		Ver	sion Descri	iption					Manufacturer
— 🖉 PowerEdge C Servers	Ignore All Alert	s from Device	mote Access Co	ontroller 2.4	1.40.40 This s	ystem compon	ent provides	a complete se	et of remote manageme	nt functions for serv	ers Dell Inc.
- 🖉 Printers	Exclude										
🖬 - 🔕 RAC	Delete		.								
— ⊘ Repurpose and Bare Metal	~										
- 🖉 Servers	IPv4 Address	IPv6 Address	MAC Address	Description				TOE Ca	apability TOE Enabled		
🖬 – ⊘ Storage Devices	N/A	N/A	B0:83:FE:E7:C6:63	Broadcom G	igabit Ethernet B	BCM5720 - B0:	83:FE:E7:C6	:63 N/A	N/A		
🖬 - 🛷 Unknown	N/A	N/A	B0:83:FE:E7:C6:64	Broadcom G	igabit Ethernet B	BCM5720 - B0	83:FE:E7:C6	:64 N/A	N/A		
- 🖉 VMware ESX Servers	N/A	N/A	B0:83:FE:E7:C6:65	Broadcom G	igabit Ethernet E	BCM5720 - B0	83:FE:E7:C6	:65 N/A	N/A		

Figure 12 XC Series Appliance without Application Management URL Classification and Inventory

4.4.3 XC Series models supported by OpenManage Essentials

Refer to the Table 5 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

4.5 View Disk Backup appliances in OpenManage Essentials

The Disk backup appliances are classified under **All Devices** \rightarrow **RAC/Server** in the device tree. The device type is Server. Click the discovered device to see all the inventoried tables as shown in the sample screen shot.



Figure 13 Disk Backup Appliance Classification and Inventory

4.5.1 Disc Backup appliance supported by OpenManage Essentials

Refer to the Table 11 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

4.6 Dell EMC Networking X-Series Smart Managed Switches

Dell EMC Networking X-Series Smart Managed devices are classified under All Devices \rightarrow Network Devices \rightarrow Dell EMC Networking Switches in the device tree. You can click the discovered device to see all the inventoried tables as shown in the sample screen shot.



Figure 14 Dell EMC Networking X-Series Smart Managed Classification and Inventory

4.6.1 Networking X-Series Smart Managed switch models supported by OpenManage Essentials

Refer to the Table 12 in *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

4.7 View Dell EMC EqualLogic groups in OpenManage Essentials

Dell EMC EqualLogic groups are classified under All Devices \rightarrow Storage Devices \rightarrow Dell EMC EqualLogic Groups in the device tree. A discovered Dell EMC EqualLogic Group is represented as shown in the sample screen shot.

Home Manage Deployment Reports Settings Lo	ogs Tutorials D	ell EMC Solutions								Search de	vice
Devices Device Search Discovery and Inventory A	Alerts System U	pdate Remote Task	cs Configuration	ı							
All Devices All Cevices Citrix XenServers	PS6610-BDC	C_Group								÷) (
- Ø Clients	Details Alerts										
a- 😰 Clusters	Viewing 2 Devices										
- 🖉 Hyper-Converged Infrastructure	Drag a column he	ader and drop it here to g	group by that column								
— 🖉 кум	Health Status 🍸	Connection Status	Device Name	RAC Name 🍸	Service Tag 🍸	Device Type	Model 🍸	Discovered On	Inventoried On	Statused On T	,
 — Ø Microsoft Virtualization Servers 		On .	6610-1	N/A	6770702	Equal ogic Member	r PS6610	5/9/2017 1:29:11 A	5/9/2017 1:29:11 AM		
🖬 - 😢 Modular Systems		() On	PS6610-BDC	N/A	N/A	EqualLogic Group	N/A	5/9/2017 1:29:11 AM	1 5/9/2017 1:29:11 AM		
🥼 Network Devices	-	•									
Devices											
OOB Unclassified Devices											
- 🖉 Power Devices											
— Ø PowerEdge C Servers											
- Ø Printers											
🖬 - 😰 RAC											
— ⊘ Repurpose and Bare Metal 🛛 👘 📱											
- 😰 Servers											
Storage Devices											
- 🖉 Dell EMC Compellent Arrays											
=- 😡 Dell EMC EqualLogic Groups											
E- 😵 PS6110-IPS_Group											
E- 😢 💌 PS6610-BDC_Group											
PS6610-BDC		- Group Device	Jombor Dovice								
			Temper Device	,							
- O Dell EMC Arrays											

Figure 15 Dell EMC EqualLogic Group Representation

The Dell EMC EqualLogic device is no longer represented as a single device. Instead, it is represented as a group, where:

- The Group Device contains group-level data.
- The Member Device contains member-specific data.

Dell EMC EqualLogic groups are auto-generated during the discovery process. The groups are deleted automatically when either the group device or the corresponding discovery range is deleted. Every discovered EqualLogic group will have one group device and multiple member devices based on the number of enclosures added to the group.

4.7.1 Group device tables in OpenManage Essentials

The following tables are displayed as part of the Inventory Details page for the EqualLogic Group device:

- Device Summary—Model and Service Tag will be displayed as N/A for the EqualLogic Group device.
- Data Sources—Displays the group-level health status and other details.
- NIC Information—Lists only the EqualLogic management and storage group IP addresses.
- Storage Group Information—Displays information about the storage group.
- EqualLogic Volume Information—Lists the volumes created under a group.



Figure 16 Dell EMC EqualLogic Group Device Inventory

4.7.2 Member device tables in OpenManage Essentials

The following tables are displayed as part of the Inventory Details page for the EqualLogic member device:

- Device Summary—Displays the member-specific model and Service Tag.
- Data Sources—Displays the member-specific health status and other details.
- NIC Information—Lists only the member-specific IP addresses.
- Controller Information—Lists the controllers associated to the selected member.
- Enclosure Information—Lists more details about the selected member.
- Physical Disk Information—Lists the disks residing in the selected member enclosure.



Figure 17 Dell EMC EqualLogic Member Device Inventory I

Home	м	anage Deployment Reports Settings	Log	s Tutorials	Dell EN	1C Solutio	ns			
Devic	es	Device Search Discovery and Inventory	Ale	erts System	Update	Remote	Tasks C	onfiguration		
-	All	Devices	6	610-1						
⊢	0	Citrix XenServers			_					
H	0	Clients	E	Details Alerts						
E E	×	Clusters		🥔 Ph	nysic	al Dis	k Inf	ormatio	n	
Ē	0	Hyper-Converged Infrastructure				01-1 (0.0)	Due Trees	Ordel Number		Devider
-	0	KVM		Enclosure ID	LUNID	Size (GB)	Bus Type	Senai Number	Model Number	Revision
	0	Microsoft Virtualization Servers		972293322	0	838	sas	SUN38ED3	S1900MM0006	LEOB
E E	×	Modular Systems		972293322	1	838	sas	SUN55HEE	S1900MM0006	LEOB
E E	Δ	Network Devices		972293322	3	838	sas	SUN55HCS	S1800WW0006	LEOB
E E	Δ	OEM Devices		972293322	4	838	sas	S0N57P9K	ST900MM0006	LEOB
E E	0	OOB Unclassified Devices		972293322	5	838	sas	S0N522J9	ST900MM0006	LEOB
E E	0	Power Devices		972293322	6	838	sas	S0N52416	ST900MM0006	LEOB
	0	PowerEdge C Servers		972293322	7	838	sas	S0N5789R	ST900MM0006	LEOB
	0	Printers		972293322	8	838	sas	S0N55JCC	ST900MM0006	LE0B
Ē	×	RAC		972293322	9	838	sas	S0N55H57	ST900MM0006	LEOB
	0	Repurpose and Bare Metal		972293322	10	838	sas	S0N525K4	ST900MM0006	LE0B
Ē	×	Servers		972293322	11	838	sas	S0N55GN2	ST900MM0006	LE0B
	×	Storage Devices		972293322	12	838	sas	S0N55J76	ST900MM0006	LE0B
	┢	- 🖉 Dell EMC Compellent Arrays		972293322	13	838	sas	S0N52501	ST900MM0006	LE0B
	Ē	Oell EMC EqualLogic Groups		972293322	14	838	sas	S0N55GYW	ST900MM0006	LEOB
		- 😨 PS6110-IPS_Group		972293322	15	838	sas	S0N522HB	ST900MM0006	LEOB
		=- 😢 PS6610-BDC_Group		972293322	16	838	sas	S0N527ZL	ST900MM0006	LE0B
		- 😰 PS6610-BDC		972293322	17	838	sas	S0N55KV6	ST900MM0006	LE0B
		- 😢 Members		972293322	18	838	sas	S0N52P6E	ST900MM0006	LEOB
		6610-1		972293322	19	838	sas	S0N55GFV	ST900MM0006	LEOB
		Oll EMC NAS Appliances		972293322	20	838	sas	S0N55H3D	ST900MM0006	LE0B
		- Ø Dell EMC Arrays		972293322	21	838	sas	S0N55HHY	ST900MM0006	LE0B
	+	- 🚺 PowerVault MD Arrays		972293322	22	838	sas	S0N526HV	ST900MM0006	LE0B
		- 🖉 Tape Devices								

Figure 18 Dell EMC EqualLogic Member Device Inventory II

4.7.3 Supported actions for Dell EqualLogic group in OpenManage Essentials

The following table lists the supported actions and their behavior for Dell EMC EqualLogic groups.

 Table 2
 Dell EMC EqualLogic Group - Supported Actions

Action	Group Device	Member Device
Application Launch	Dell EMC EqualLogic console	View and renew warranty
Refresh Inventory	Updates inventory for the entire group; re-creates any deleted members.	Updates inventory for the entire group; re-creates any deleted members.
Refresh Status	Updates the status of the entire group including all members.	Updates the status of the entire group including all members.
Add to New Group	Supported.	Supported.
Ignore All Alerts from	Ignores all alerts coming from the EqualLogic Group device only.	Ignores all alerts coming from the selected member only.
Exclude	Supported.	Not Supported.
Delete	Deletes the entire group including all members.	Deletes only the selected member.

4.7.4 Event association for Dell EMC EqualLogic Group

Dell EMC EqualLogic member SNMP alerts are associated at member-device level and not at the group-device level. Alerts tab for the EqualLogic member device will list all the alerts received from the selected member as shown in the following sample screen shots:



Figure 19 Dell EMC EqualLogic Member Event Association I



Figure 20 Dell EMC EqualLogic Member Event Association II

4.7.5 Recommendations for Dell EMC EqualLogic group discovery

The following are recommended for proper support of Dell EMC EqualLogic groups in OpenManage Essentials:

- After upgrading from previous versions of OpenManage Essentials, it is mandatory to perform rediscovery of all the discovered Dell EMC EqualLogic devices to ensure proper functionality.
- It is recommended to discover Dell EMC EqualLogic storage arrays by using the group management IP address or storage group IP address only, and not include any of the member IP addresses in the discovery range configuration.

Note—The back-end Dell EMC EqualLogic storage of a FS7500, FS7600, and FS7610 NAS setup is classified as Dell EMC EqualLogic Groups instead of Dell EMC NAS Appliances in OpenManage Essentials.

4.7.6 Dell EMC EqualLogic supported models in OpenManage Essentials

Refer to the Table 7 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

4.8 Dell EMC NAS appliances

The Dell EMC NAS appliances are classified under All Devices \rightarrow Storage Devices \rightarrow Dell EMC NAS Appliances in the device tree. You can click the discovered device to see all the inventoried tables.

4.8.1 View NAS Appliances with FluidFS v1.0 in OpenManage Essentials

The classification and inventory for Dell EMC NAS Appliances with FluidFS v1.0 is done as shown in the following sample screen shot.

age Deployment Reports Settin	gs Logs Tutoria	als Dell EMC	Solutions				_					Sea	rch device	, ranges, a	nd mor	re
evice Search Discovery and Invent	ory Alerts Syst	em Update	Remote Tasks	Configuration												
vices	NASGrp												+ 0		0	C
rix XenServers														2 2	~	-
ents	Details Alerts															
usters																
per-Converged Infrastructure	📰 De	vice Su	mmary													
	Health Status	Connection Sta	tus Device Nar	me Device Type	Model		Service Tan	Asset Tan	Express Service Code	Location	Revision	Device Discovery Time	Device Inv	entory Time	Devic	ce S
rosoft Virtualization Servers			NASCIO	NAS Applian	Doworki	bull NY2500	A02562	N/A	56954020741		N/A	5/10/2017 6:50-02 AM	5/11/2017	6-24-47 Da	5/11/	201
ular Systems		O	NA3GIP	NAS Applian	Powerv	duit NA3300	716221 05	19675	30034233141	DAD	DV/A	3/10/2017 0.30.02 AM	3/11/2011	0.24.47 FN	Sr117.	201
ork Devices																
Devices	🔰 🍕 Da	ta Sour	ces													
Unclassified Devices	Global Status	Name			Version	Description				Ma	nufacturer					
er Devices		Server Admir	istrator		720	Manageme	nt software for	Dell systems		De	ll Inc					
rEdge C Servers	<u> </u>	Canada Admin			420	Configuratio	on and manifest	ing of disk of	ornan devicen	De	lline					
ars -		Server Aumir	listrator (Stora	ige Managemeni) 4.2.0	Connyurau	on and monitor	ing of disk si	orage devices.	De	II IIIC.					
	(2)	Inventory Co	llector Agent		7.2.0	Provides inf	formation abou	It devices rur	ning on the local system	De	II Inc.					
rpose and Bare Metal	(2)	Extranet SNM	1P Agent		1.0	SNMP Ager	nt to discover (Dell NAS App	liances with Fluid File Sy	stem. De	11					
rs																
ge Devices	🛛 🖢 NI	C Infor	mation													
Dell EMC Compellent Arrays																
ell EMC EqualLogic Groups	IPv4 Address	IPv6 Address	MAC Address	Description	TOE Capa	bility IOEE	nabled									
 NASGrp 	100.100.32.8	N/A	N/A	Host NIC adapter	N/A	N/A										
ge Deckovery and Silverority Logs Turchals Dell EV/C Solutions Search device, ranges, and monu vice Search Discovery and Silverority Alerts System Update Remote Tasks Configuration vice Search Discovery and Silverority Alerts System Update Remote Tasks Configuration vice Search Discovery and Silverority Alerts System Update Remote Tasks Configuration vice Search Device Summary Image: Searce Tag Asset Tag Express Service Code Location Revisor Device Discovery Time Device Summary vice Search On MSGrp MisGrp MisGrp MisGrp Nes Applance Device Summary vice Searce On MisGrp MisGrp Nes Applance Device Sum Searce Tag Asset Tag Express Service Code Location Revisor New Code Searce Tag Asset Tag Express Service Code Device Discovery Time Device Sum Searce Tag Asset Tag Express Service Code Device Discovery Time Device Sum vice Searce On MisSrp MisSrp MisSrp MisSrp MisSrp MisSrp MisSrp MisSrp MisSrp M																
owerVault MD Arrays	Г Ар	pliance	Node I	Informat	ion											
pe Devices	Index Status	Name Mode	Version Se	rvice Tag Chassi	s Service Ta	g Vendor										
own	1 On	N/A [5861]	0 N/A 58	1P5X1 N/A		Dell										
ware ESX Servers		13001	00			0.01										

Figure 21 Dell EMC PowerVault NX3500 Classification and Inventory

Note—For the Dell EMC NAS appliances with FluidFS v1.0, discovery, inventory, and alerts/traps support are provided only for the solutions with Fluid File System (FluidFS) v1.0 that have

OpenManage Server Administrator (OMSA) services running on the nodes. This is the default setting for any node with FluidFS v1.0. The Appliance Node Information table lists the applicable details about the nodes present in the NAS solution. Other inventory details match the standard PowerEdge server inventory in OpenManage Essentials.

4.8.2 View NAS Appliances with FluidFS v3.0 in OpenManage Essentials

The classification and inventory for Dell EMC NAS Appliances with FluidFS v3.0 is shown in the following sample screen shot.



Figure 22 Dell EMC NAS Appliance with FluidFS v3.0 Classification and Inventory

A Dell EMC NAS Appliance with FluidFS v3.0 discovered in OpenManage Essentials represents a cluster of nodes. The Appliance Node Information table lists the nodes participating in a particular cluster. It is highly recommended to include all node IP addresses in the discovery range configuration while discovering a NAS cluster with FluidFS v3.0. This enables OpenManage Essentials to properly associate SNMP alerts coming from various participating nodes with the discovered cluster.

The **NAS Clusters** device group will group together Dell EMC NAS appliance and the participating Dell EMC EqualLogic group(s). This grouping is available only for Dell EMC EqualLogic-based Dell EMC NAS appliances that are running with Fluid FS v3.0.

Note—The NAS Clusters device group displays only the Dell EMC NAS Appliance association with the Dell EMC EqualLogic Group device. The Dell EMC EqualLogic member devices will not be displayed in this grouping.

A new device group (Clusters) is created to group together HA Clusters and NAS Clusters as shown in the following sample screen shot:

Home Manage Deployment Reports Settin	igs Logs Tutoria	als Dell EMC Soluti	ons									Search device, ra	nges, and mo	ore
All Devices	Clusters	tem update Remot	e lasks Configur	ation								+ 8	n 0	C
- Citrix XenServers	Details Alerts N	Ion-Compliant System	15											
- Q Clusters	Viewing 5 Devices													
- 😮 HA Clusters	Drag a column hea	ader and drop it here to g	roup by that column											
- 🗹 OMECLUSTER_Cluster	Health Status 🏆	Connection Status 🏹	Device Name 🏼 🗑	RAC Name 🍸	Service Tag 🍸	Device Type 🏼 🗑	Model 🛛	Discovered On 🛛	Inventoried On 🍸	Statused On 🛛 🕅				
🗆 🔽 ОМЕ	0	🕑 On	WIN-H9K3LF65K0B	10.94.174.15	9NLQT53	Server	Dell Storage NX3330	12-05-2017 18:23:08	12-05-2017 05:46:09	12-05-2017 19:40:29				_
E- 2 unknown_Cluster		() On	FluidFS-581P5X1	NA	N/A	NAS Appliance	N/A	12-05-2017 18:23:37	12-05-2017 05:42:02	12-05-2017 19:24:18				
└─ 🙆 WIN-H9K3LF65K0B		🕑 On	NAS-PSA01	NA	N/A	NAS Appliance	N/A	12-05-2017 18:23:34	12-05-2017 05:41:58	12-05-2017 19:24:17				
VAS Clusters		🕑 On	OME	100.100.32.106	DHQ35BS	Server	PowerEdge R510	12-05-2017 18:23:50	12-05-2017 05:43:55	12-05-2017 19:42:09				
- V HuldPS-S81PSX1_Cluster		🕑 On	PSA01	NA	N/A	EqualLogic Group	N/A	12-05-2017 18:23:13	12-05-2017 05:41:56	12-05-2017 19:24:19				
 Storage Arrays 														
- VAS-PSA01_Cluster														
NAS-PSA01														
- 🗹 Storage Arrays														
SA01														
Hyper-Converged Infrastructure														
🖬 - 🧕 КVМ														
 — Ø Microsoft Virtualization Servers 														
a- V Modular Systems														
- CEM Devices														
OCB Unclassified Devices														
- R Power Devices														
- O PowerEdge C Servers														
🗉 - 🛕 Printers														
D- 😫 RAC														
— Ø Repurpose and Bare Metal														
- 😰 Servers														
- 😰 Storage Devices														

Figure 23 Clusters device group – HA Clusters and NAS Clusters

4.8.3 NAS appliances supported by OpenManage Essentials

OpenManage Essentials currently supports following Dell EMC NAS appliances:

- Appliances with FluidFS v1:
 - Dell PowerVault NX3500 (see the Table 8 in the *Dell EMC OpenManage Essentials Version* 2.5 Support Matrix)
- Appliances with FluidFS v3:
 - Dell EqualLogic FS7500, FS7600, and FS7610 (see the Table 7 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix*)
 - Dell Compellent FS8600 (see the Table 10 in the *Dell EMC OpenManage Essentials Version* 2.5 Support Matrix)
- Windows Dell EMC NAS Appliances:
 - Dell PowerVault NX3230 (see the Table 8 in the *Dell EMC OpenManage Essentials Version* 2.5 Support Matrix)
 - Dell PowerVault NX3330 (see the Table 8 in the *Dell EMC OpenManage Essentials Version* 2.5 Support Matrix)

4.9 SonicWALL Firewall

The SonicWALL Firewall devices are classified under All Devices \rightarrow Network Devices \rightarrow Network Appliances in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.



Figure 24 SonicWALL Firewall Classification and Inventory

Supported Models

Refer to the Table 13 in *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

Global health status for SonicWALL Firewall devices will always be displayed as 'Unknown' in OpenManage Essentials. This is because the SonicWALL SNMP agent does not report device health through its Management Information Base (MIB). SonicWALL SNMP agent runs on SonicOS, which is also available on the following platforms:

- TZ 100/100W, TZ 105/105W, TZ 200/200W, TZ 210 and TZ210W, and TZ 215 and TZ215W
- NSA 220 NAS 220W, NSA 240, and NSA 250M and NSA 250MW
- NSA 2400 and NSA 2400MX, NSA 3500, NSA 4500, and NSA 5000
- E-Class NSA E5500, E6500, E7500, E8500, and E8510

Because these models run the same firmware, they may also be classified in OME similar to NSA 250M.

4.10 View PowerConnect W-Series devices in OpenManage Essentials

PowerConnect W-Series devices are classified under All Devices \rightarrow Network Devices \rightarrow Dell EMC Networking Switches in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.

Home Manage Deployment Reports Setting	gs Logs Tutor	ials Dell EMC S	olutions									Search device, rang	es, and m	ore	О,
Devices Device Search Discovery and Invento	ory Alerts Sys	tem Update R	emote Tasks	Configuration											
E- 😢 All Devices	Dell-W-3600											+ 8	5 0	C	?
- 🖉 Citrix XenServers														-	-
🖅 🖓 Clients 🔤	Details Alerts														×
- 🗹 Clusters															- 11
🔹 - 😰 Hyper-Converged Infrastructure	🖛 Dev	ice Sum	mary												- 11
🖬- 😰 КУМ	Health Status	Connection Status	Device Name	Device Type	Model	Service Tag	Asset Tag	Express Service Code	Location	Revision	Device Discovery Time	Device Inventory Tim	e Device S	status Ti	me
— Ø Microsoft Virtualization Servers	0	00	Dell W 2600	Dell EMC Networkin	a W 2600 US	NSM/1001	none	N/A	NIA	NIA	5/10/2017 12:38:55 PM	5/10/2017 6:40:38 D	5/11/201	7 4:01-0	20 A1
🗄 - 🔯 Modular Systems		O	Deliveragoo	Dell EMIC Networkin	g 11-3000-03	143441301	TIONE	NPA .	N/A	NVA.	0/10/2017 12:00:00 PM	3/10/2017 0.40.30 PI	0/11/201	1 4.21.2	574
=- 🔯 Network Devices		-													- 11
=- 🔯 Dell EMC Networking Switches	🛛 🌒 Dat	a Source	es												- 11
— 🔇 lab5	Global Status	Name	Version De	scription	Manufacturer										
🔇 💌 Dell-W-3600	0	PowerConnect W	6301 Wir	reless Access Point	Dell Inc										- 11
- 🕓 N3024F-491-1760-1760-17		i onei oonneet n													-11
- 🔇 N3024F-491-1760-1760-17	1														- 11
- 🔇 N3024F-491-1760-1760-17	🛯 🔯 NIC	Inform	ation												- 11
— 🞑 N3024F-491-1760-1760-17	IPv4 Address	IPv6 Address M	AC Address D	escription TOE C	apability TOE	Enabled									
- <table-cell> N3024F-491-1760-1760-17</table-cell>	100.100.63.135	N/A N	(A 8	02.1Q VLAN N/A	N/A										- 11
- 😳 N3024F-491-1760-1760-17															-11
- 😳 N3024F-491-1760-1760-17	Eire	mwaro Ti	aforma	tion											- 11
- 🔇 N3024F-491-1760-1760-17	🦋 riii	iiware II	norma	uon											
— 🞑 N3024F-491-1760-1760-17	Name	Version Enclo	sure ID Type												
- <table-cell> N3024F-491-1760-1760-17</table-cell>	PowerConnect V	V 6.3.0.1 0	Firmw	are											
- 🔇 N3024F-491-1760-1760-17															
- 😮 N3024F-491-1760-1760-17	🕳 Sw	itch Devi	ce Info	rmation											- 11
- 🔇 N3024F-491-1760-1760-17															[]
- 🔇 N3024F-491-1760-1760-17	Index Service	Tag Serial Numbe	r	Asset Tag Swi	tch Role										
- 😡 N3024F-491-1760-1760-17	1 NSW190	01 CN0WKWF42	2829843P0034A	00 none N/A											-

Figure 25 PowerConnect W-Series Classification and Inventory

4.10.1 PowerConnect W-Series models supported in OpenManage Essentials

Refer to the Table 12 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

Note—The PowerConnect W-Series devices will report only Normal or Critical (for active or inactive controllers) global health status. It is recommended to have the ArubaOS version 6.3 or later installed on the mobility controllers for proper discovery and classification in OME.

4.11 View Brocade Fibre Channel devices in OpenManage Essentials

The Brocade Fibre Channel devices are classified under All Devices \rightarrow Network Devices \rightarrow Fibre Channel Switches in the tree on the left side. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.

4.11.1 Broacade Fibre Channel devices supported in OpenManage Essentials

Refer to the Table 14 in *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.



Figure 26 Brocade Fiber Channel Classification and Inventory

4.12 View Dell EMC Compellent arrays in OpenManage Essentials

The Dell EMC Compellent devices are classified under All Devices \rightarrow Storage Devices \rightarrow Dell EMC Compellent Arrays in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shots.



Figure 27 Dell EMC Compellent Arrays Classification

Details Al	lerts																		
	D _	vice Fr																	
		vice Si		illai y			-		. .									-	D : 0
Health Sta	atus	Connection S	tatus	Device Nan	ne	Devi	ice Type	Model	Service	Tag Ass	set lag	Express Se	ervice Code	Location	Revision	Device Discovery Time	Device Invento	ry lime	Device St
8		On 🎯		Storage Ce	nter 71324	Com	pellent	SC4020	123456	789 N/A		N/A		N/A	6.5.30.17	5/9/2017 3:00:51 AM	5/9/2017 3:00:	51 AM	N/A
	Da	ta Sou	rce	es	_	_													
Global Sta	atus	Name			Vers	ion E	Description												
8		Dell-Compe	llent s	Storage Cer	nter 6.5.3	30 T	The Dell C	ompellent	Storage	Center sto	orage are	a network p	provides a h	ighly efficien	and flexible	e virtualized storage platfo	orm for enterpris	es and th	e cloud.
	NI	C Info	rma	ation															
IDud Adda		IDuc Address		C Address	Deser	ntion	TOF Car	ability T	OF Faak	lad									
100.96.27	7 205	IPV6 Address	00:	50:co:7d:8f3	Descri	puon	N/A			lea									
100.96.27	7 203	N/A	00.	50:cc:7d:8f:5	4 eth0		N/A	N	ν <u>ο</u>										
100.30.27	7 201	N/A	00-	50:cc:7d:8f3	ic eth0		N/A	N	ν <u>ο</u> νΔ										
169 254 1	1 102	N/A	00:	00.00.01.00.	00 eth1		N/A	N	ν.Δ										
	Co	ntrolle	r I	nform	nation	ı													
Number	Nam	e Model	Se	ervice Tag	Asset Tag														
1	SN 7	1324 SC402	0 12	3456789	N/A														
2	SN 7	1325 SC402	0 F9	UVH82	N/A														
	En	closure	e Iı	nform	atior	1													
Channel I	Numbe	er Enclosure	ID S	Service Tag	Name	P	Product ID	Туре		SCSI ID	Asset	Name As	set Tag S	Serial Numbe	Part Nun	nber Backplane Part Nu	mber Vendor	Current	Config Mo
N/A		1	F	9LVH82	Enclosure	- 1 N	I/A	SAS_EE	BOD_6G	N/A	N/A		N	I/A	EN-SC4	020 N/A	N/A	N/A	
				1							1								
4	Ph	ysical	Dis	sk Infe	orma	tio	n												
Enclosure	D	Disk Number	Name	e Size (GB) Serial N	umber	Model I	lumber		Revision	Vendor								
1		1	01-23	3 1800	S3Z0TP	нх	DELL S	T1800MM	10018	TE2A	DELL								
1		2	01-13	3 1800	S3Z0P3	QX	DELL S	T1800MM	10018	TE2A	DELL								
1		3	01-21	1 1800	\$3Z0\$4	Z3	DELL S	T1800MM	10018	TE2A	DELL								
1		4	01-06	5 1800	S3Z0R3	7K	DELL S	T1800MM	10018	TE2A	DELL								
1	-			1	1		1		-			1							

Figure 28 Dell EMC Compellent Array Inventory Details

4.12.1 Compellent arrays Supported in OpenManage Essentials

Refer to the Table 10 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

Note—The Device Summary and Enclosure Information tables display the Service Tag in the Service Tag column only if the Dell EMC Compellent device is running the firmware version 6.4.1 or later. If the firmware version is earlier than 6.4.1, the "Service Tag" column displays "N/A". The firmware version can be viewed under the "Agent Version" column of the "Data Sources" table as highlighted in Figure 28. It is suggested to update all target devices with the latest available firmware.

4.13 View Dell EMC Networking Switches in OpenManage Essentials

Dell EMC Networking devices are classified under All Devices \rightarrow Network Devices \rightarrow Dell EMC Networking Switches in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.



Figure 29 Dell EMC Networking Switch Classification and Inventory

4.13.1 Networking switches supported in OpenManage Essentials

Refer to the Table 12 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

Note—Device type for the entire portfolio of Dell EMC switches is shown as Dell EMC Networking (this does not include Brocade Fiber Channel switches). This behavior is irrespective of whether or not the firmware on the switch device has been upgraded to the rebranded one.

Note—The "Device Summary" and "Switch Device Information" tables display the Service Tag in the "Service Tag" column only if the Dell EMC Networking device is running with the supported firmware versions or later. See Table 3 for firmware versions supporting Service Tag for corresponding Dell EMC Networking models. If the firmware version is earlier than those listed in Table 3, the "Service Tag" column displays "N/A". The firmware version can be located in the "Version" column of the "Firmware Information" table.

4.14 View KVM devices in OpenManage Essentials

The KVM devices are classified under **All Devices** \rightarrow **KVM** in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.

Search Discovery and Inventory enServers s Donverged Infrastructure	Alerts System 2161DS-2- Details Alerts	03-EB-E7-2	te Tasks Conf 5-25-19-6-6	iguration								_			
enServers s Converged Infrastructure	2161DS-2- Details Alerts	03-EB-E7-2	5-25-19-6-6	6								-		-	
s Converged Infrastructure	Details Alerts										Ŧ	H	2 6) C	1
s Converged Infrastructure	🕓 De														>
Converged Infrastructure	📗 🤝 De														
		evice Sun	nmary												
	Health Status	Connection Status	s Device Name		Device Type	Model	Service Tag	Asset Tag	Express Service Code	Location	Revision	Devic	e Discove	ry Time	Devi
161DS-2-03-EB-E7-25-25-19-6-6	0	🕝 On	2161DS-2-03-	EB-E7-25-25-19-	5-6 KVM	2161DS-2/4161DS KVM/IP Switch	N/A	N/A	N/A	N/A	N/A	5/10/2	017 6:56	24 AM	5/10
ft Virtualization Servers		•													
r Systems	A														
k Devices	📲 🖓 Da	ita Sourc	es												
evices	Global Status	Name		Version	Description			M	anufacturer						
classified Devices	0	2161DS-2/4163	1DS KVM/IP Swi	tch 01.03.20.0	0 Enables Keyb	oard / Video / Mouse redirection ove	r a network con	nection. De	ell						
Devices															
dge C Servers	1 A. N	C T													
	in 📷 🖬	C Inform	ation												
	IPv4 Address	IPv6 Address N	AC Address	Description 1	OE Capability T	OE Enabled									
ose and Bare Metal	100.100.32.85	N/A 0	0:02:99:02:00:13	bond0 M	I/A N	/A									
	127.0.0.1	N/A 0	0:00:00:01:00:13	lo M	I/A N	/A									
evices															
n	Eine Fin	mware I	nforma	tion											
ESX Servers	🥰 FI	inwarel	mornia	lion											
	Name		Version	Enclosure ID T	rpe										
	2161DS-2/416	1DS KVM/IP Switch	01.03.20.00	0 F	rmware										
	🚺 🙆 Co	ntact In	formatio	on											
	Name	Deer	wietion	Context Inform	ofier										
	Name	Desc	cription	Contact Inform	auon										

Figure 30 KVM Classification and Inventory

4.14.1 KVM devices Supported in OpenManage Essentials

Refer to the Table 17 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

Note: It is recommended to have latest firmware (version 1.16) installed on the KVM device for proper discovery and classification of the device in OpenManage Essentials.

4.15 View Power Device Units (PDUs) in OpenManage Essentials

The PDU devices are classified under **All Devices** \rightarrow **Power Devices** \rightarrow **PDU** in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.

Home	ome Manage Deployment Reports Settings Logs Tutorials Dell EMC Solutions Search device, ranges, and more Q.														
Device	s Device Search Discovery and Inventory Alert	s System Update	Remote Tasks	6 Configurati	on										
	All Devices	SSPDU027										• •	5	C C	?
-	Clients	Details Alerts													×
D -	Clusters														
0-	a 🗹 Hyper-Converged Infrastructure Device Summary														
-	🖉 кум	Health Status	Connection Status	Device Name	Device Type	Model	Service Tag	Asset Tag	Express Service Code	Location	Revision	Device [iscovery Tir	Device I	nv
-	Microsoft Virtualization Servers		(A) (m)	SSPDI I027	PDU	DELL6605	N/A	N/A	N/A	BDC SysMat Lab	IN0K538N1874031LD026A01	5/9/2017	8-37-56 DM	5/9/2013	7.6
8-	😮 Modular Systems		O II	33PD0027	PDU	DELL0003	DVA	DVA	NVA	BDC Sysivigi Lab	INUK330N1074031ER020A01	3/3/2017	0.37.30 PM	3/3/2011	-
0-	3 Network Devices														
D -	3 OEM Devices	🔰 🍕 Da	ta Sourc	es											
D - (OOB Unclassified Devices	Global Status	Name	Version	Description		Ма	nufacturer							
•	Power Devices	A	Dell PDU SNMP	Agent N/A	SNMP Agen	It to discover D	ell PDU Dei								
	- \Lambda PDU														
	SSPDU027	I I NT	C Inform	ation											- 11
			C Inform	ation											_11
	PowerEdge C Servers	IPv4 Address	IPv6 Address M	IAC Address	Description	TOE Capabil	ity TOE Ena	bled							
	O Printers	100.96.28.180	N/A 0	0.23.ae.e2.c9.7c	lance	N/A	N/A								
-	S RAC	100.96.28.177	N/A 0	0:c0:b7:89:4a:af	lance	N/A	N/A								
	Repurpose and Bare Metal														
D -	Servers	🚺 🙆 Co	ntact Inf	formatio	on										
D -	Storage Devices														-11
1	Vinknown	Name	Description	1											
D -	VMware ESX Servers	OME-OMPC-S	onylal DELL Web	SNMP Manager	nent Card (MB:	V1.0f PF:v5.1.	4 PN:dell_hw0	15_aos_514.	bin AF1:v5.1.2 AN1:dell_	hw05_rpdud_512.bi	n MN:DELL6605 HR:HW01 SN:	IN0K538N	1874031LR	26A01 MD:0	01/

Figure 31 PDU Classification and Inventory

4.15.1 PDUs supported in OpenManage Essentials

Refer to the Table 15 and Table 16 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

4.16 View UPS devices in OpenManage Essentials

The UPS devices are classified under **All Devices** \rightarrow **Power Devices** \rightarrow **UPS** in the device tree. You can click the discovered device to see all the inventoried tables as shown in the following sample screen shot.

Annage Deployment Reports Settings Logs Tutorials Dell EMC Solutions Search device, ranges, and more 0																
Devices Device Search Discovery and Inventory Ale	rts System	Update Rem	ote Tasks	Configuration												
All Devices	PS-H914	N-25-25-19	-19-19										+ E	9	8	C ?
■- V Clients	etails Alerts															×
Bevice Summary																
🖶- 🙁 KVM	Health Statue	Connection State	e Davica Ma	ma	Device Type	Model	Service Tag	Accel Tag	Everage Service Code	Location	Devision	Davica Discovary Time	Device In	enton/Tim	Dev	ico Statue
2161DS-2-03-EB-E7-25-25-19-6-6				N 25 25 40 40 40	upe	o	N/A	N/A	N/A	NUA	0	EMORDAT C:5C:02 AM	E/10/2017	6:44:40 DA	E 5111	12017 4:2:
 — Ø Microsoft Virtualization Servers 		O	UPS-H914	IN-20-20-19-19-19	UPS	U	N/A	N/A	N/A	N/A	U	5/10/2017 6.56.02 AM	5/10/2017	6.44.12 Ph	5/11	12011 4.2.
🖬- 😰 Modular Systems	-	_														
🖬 - 😰 Network Devices	🌒 Da	ta Sour	ces													
- 🖉 OEM Devices	Global Status	Name	Ver	sion Description			Manufacturer									
OOB Unclassified Devices	0	Dell UPS SNM	Agent 0	SNMP Agent	t to discover De	II UPS	Dell									
Ower Devices	-		5	-												
E- 😰 PDU		C Inform	nation													
i∎- 😨 UPS	141 🧰	C Infor	nation													
UPS-H914N-25-25-19-19-19	IPv4 Address	IPv6 Address	MAC Address	Description	TOE Capabi	lity TO	E Enabled									
- O PowerEdge C Servers	100.100.32.99	N/A	N/A	Host NIC adapter	N/A	N/A	λ									
	🙆 Co	ntact In	forma	tion												
Kepurpose and Bare Metal	Name	Dee	winting Coal	ant Information												
Storage Daviger	Name Computer Dee	n Managar UDS	Com	act mornauon												
	Computer ROU	in manager 0P3	Com													
Contrato contrato	Ph Ph	ysıcal B	attery	Informa	tion											
	ABM Status	Test Status Seco	onds Remainin	g												
	0	0 0														
																I

Figure 32 UPS Classification and Inventory

4.16.1 UPS devices supported in OpenManage Essentials

Refer to the Table 18 in the *Dell EMC OpenManage Essentials Version 2.5 Support Matrix* which is available in <u>Introduction</u>.

View device health in OpenManage Essentials

5

The device health status reflects the overall health of the device contributed by their SNMP agent. The health status can be Critical, Warning, Normal, or Unknown.

Table 3	Device health status symbols in OpenManage Essentials
Symbol	Description
•	Indicates that the device is critical and requires attention. This information is rolled up to the parent device type. For example if a PDU is in a critical state and requires attention the same symbol is assigned to the parent device type, for example, power devices. The critical health state is given the highest priority. That is, in a group, if different devices are in different states, and if one device is in a critical state, then the state of the parent device type is set to
4	Indicates that there is a deviation from the expected behavior, but the device is still manageable.
	Indicates that the device is working as expected.
Ŷ	Indicates the device does not have proper instrumentation or the proper protocol was not used to discover the device.

View Warranty in OpenManage Essentials

6

OpenManage Essentials supports device warranty information through the Warranty Information report. You can view and renew warranty on the Warranty Information report page. This warranty information is collected at the run time from the Dell Support website by providing corresponding Service Tag of the hardware.

The Warranty information is based on the Service Tag and is available for Dell EMC EqualLogic Groups, PowerVault NX3500, Brocade Fibre Channel, Dell EMC Compellent Arrays, Hyper-Converged Infrastructure, and Dell EMC Networking switches. Warranty information is not available for SonicWALL Firewall, PowerConnect W-Series, KVM, PDU, and UPS devices.

The warranty report can be viewed by clikcing **Reports** \rightarrow **Warranty & License** \rightarrow **Warranty Information** as shown in following sample screen shot.

Home Manage Deployment Repo	rts Settings L	ogs Tutorials	Dell EMC Solu	itions						Sear	ch device, ran	ges, and more	۵,
Managed Systems Reports													
Server Inventory v	Warran	tv Informat	ion Filter by:	All Devices	•							AC?	6
Server Configuration 🗸 🗸 🗸	- Turrun	ly morna	ion monoj.	1000000								000	-
Warranty & License ^	Drag a column hea	der and drop it he	re to group by that	t column								View and Renew Warrant	y
Warranty Information	Device Name 🍸	Model 🍸	Device Type 🍸	Service Tag 🍸	Service Level Code 🍸	Warranty Type 🍸	Warranty Description	Service Provider 🦞	Shipped Date 🍸	Start Date 🍸	End Date 🍸	Days Remaining 🍸	•
License Information	WIN-F50DBCPJ8(PowerEdge R33	Server	BX1X992	DP4	EXTENDED	DASP Parts Replacement	Dell EMC	12/21/2015	12/22/2016	12/22/2018	591	-
Virtualization	X1008P switch	X1008P	Dell EMC Netwo	DDBPX42	DP4	INITIAL	DASP Parts Replacement	Dell EMC	12/15/2015	12/15/2015	12/16/2020	1316	
Asset v	X1008P switch	X1008P	Dell EMC Netwo	DDBPX42	F10SWSUP	INITIAL	Force 10 Software Support	Dell EMC	12/15/2015	12/15/2015	3/16/2016	0	
	R15-R715-1	PowerEdge R71	Server	4WSW62S	DP4	INITIAL	DASP Parts Replacement	Dell EMC	10/1/2010	10/1/2010	10/2/2013	0	
	idrac-G4RYBD2	PowerEdge R53	Server	G4RYBD2	DP4	INITIAL	DASP Parts Replacement	Dell EMC	6/8/2016	6/8/2016	6/9/2019	760	
	idrac-9XVD12S	PowerEdge R61	Server	9XVD12S	N/A	N/A	No valid warranties found	N/A	4/20/2009	N/A	N/A	0	
	R14-R410-1	PowerEdge R41	Server	9MZX12S	NBD	INITIAL	Next Business Day Onsite Su	Dell EMC	6/3/2009	6/3/2011	6/4/2012	0	
	R14-R410-1	PowerEdge R41	Server	9MZX12S	POW	INITIAL	Next Business Day 5x8 Onsite	Dell EMC	6/3/2009	6/3/2011	6/4/2012	0	
	R14-R410-1	PowerEdge R41	Server	9MZX12S	PROSUPIT	INITIAL	ProSupport Technical Support	Dell EMC	6/3/2009	6/3/2009	6/4/2012	0	
	idrac-R1-R730-1	PowerEdge R73	Server	HD3CH62	DP4	INITIAL	DASP Parts Replacement	Dell EMC	3/29/2016	3/29/2016	3/30/2019	689	
	idrac-BWVP92S	PowerEdge R91	Server	BWVP92S	DP4	INITIAL	DASP Parts Replacement	Dell EMC	8/1/2011	8/1/2011	8/2/2014	0	
	CMC-R2-fx2-1	PowerEdge FX2	CMC	5P65V72	DP4	INITIAL	DASP Parts Replacement	Dell EMC	9/25/2015	9/25/2015	9/26/2018	504	
	idrac-fc630-1	PowerEdge FC6	Server	5PF4V72	DP4	INITIAL	DASP Parts Replacement	Dell EMC	9/24/2015	9/24/2015	9/25/2018	503	
	idrac-fc630-2	PowerEdge FC6	Server	620X992	DP4	INITIAL	DASP Parts Replacement	Dell EMC	12/10/2015	12/10/2015	12/11/2018	580	

Figure 33 OpenManage Essentials Warranty information

Start device-specific application in OpenManage Enterprise

The Application Launch feature provides a right-click action menu item on the discovered device to launch 1×1 console or application. OpenManage Essentials provides the capability to launch and navigate to the device-specific console for Dell EMC EqualLogic Groups, Dell EMC NAS Appliances, SonicWALL Firewall, PowerConnect W-Series, Brocade Fibre Channel, Dell EMC Compellent Arrays, Disk Backup Appliances, VxRail Appliances, XC Series Appliances, KVM, PDU, and UPS. The application launch action can be performed as shown in the following sample screen shot.



Figure 34 Application Launch for Dell PDU

7.1 Configure custom URLs

7

OpenManage Essentials supports creating and starting custom URLs on all device groups. This feature is useful when you want to visit the same URL for a group of devices. When created, any device classified under the group is added with the custom URL launch.

7.2 Create a Custom URL

To create a custom:

- 1. Click Settings \rightarrow Settings.
- 2. In the left pane, click **Custom URL Settings**.
- 3. In the working pane, click
- 4. Enter the name, URL, description, and then select the device type from the drop-down menu.
- 5. Enter the URL, click the Test URL button to test the custom URL.
- 6. Click Ok.

Home Manage Deployment Repor	ts Settings Logs Tutorials Dell EMC So	olutions	Search device, ranges, and more Q
Settings Permissions			
Settings ^	Custom URL Settings	22	÷ ?
Settings ▲ Alert Settings ■ Cetsor UFL8 Settings ■ Deslowner Settings ■ Descowery Settings ■ General Settings ■ Mobile Settings ■ Purge Download Settings Task Settings Varranty Netification Settings ■	Custom URL Settings	Zustom URL Launch Specify the name, the URL, the device type and a description for the custom URL. You can use SIP or SNAME for the IP or device name of the device to be substituted in the URL. Note that the custom URL applies to the immediate child nodes of the group and it is not recursive. Name Dell PDU Dell URL Thttp://www.dell.com/content/topics/topic.aspx/glo Device Group V Device Group V Description V To know more about PDU devices offered by Dell.	The Created Total Date Updated T
		Help Cancel Ok	

Figure 35 Creating a Custom URL

7.3 Launch the Custom URL

- 1. Click Manage \rightarrow Devices.
- 2. Right-click the device in the device tree and select Application Launch.

E- ▲ PDU	SSPDU027	hation							
- O PowerEdge C Servers	Application Launch	PDU Console ription TOE Capability TOE Enabled							
- 🖉 Printers - 🔀 RAC	Troubleshoot	Dell PDU Dell RVA NA							
00.96.22.131	Refresh Inventory	http://www.dell.com/content/topics/topic.aspx/global/products/pedg							
- 😨 14g-IDRAC-DRB	Add to New Group	[–] formation							
- (8) CMC-12D5082	Add to Existing Group	'n							
- 😨 CMC-190N082	Ignore All Alerts from Device	b/SNMP Management Card (MB:V1.0f PF:v5.1.4 PN:dell_hw05_aos_514.bin AF1:v5.1.2 AN1:dell_hw05_ppc							
- 😰 cmc-3FZ36Z1	Exclude	nerties							
— 😰 cmc-43DFHZ1		perces							

Figure 36 Launching the Custom URL

8 Alerts (SNMP Traps) in OpenManage Essentials

The SNMP alerts received from discovered Dell EMC devices are displayed under the Alerts tab of the respective device. OpenManage Essentials currently supports SNMP V1, V2, and V3 alerts. The status of the device is polled every time an SNMP trap is received from that device. For example, if a trap with critical severity is received from a device, status of that device is set to Critical.

8.1 Alert type definitions in OpenManage Essentials

I able 4	Alert types in C	penManage Essentials
lcon	Alert	Description
	Normal alerts	An event from a device that describes the successful operation of a unit, such as a power supply turning on.
	Warning alerts	An event that is not necessarily significant, but may indicate a possible future problem, such as crossing a warning threshold.
0	Critical alerts	A significant event that indicates actual or imminent loss of data or loss of function, such as crossing a failure threshold or a hardware failure.
Ŷ	Unknown Alerts	An event has occurred but there is insufficient information to classify the event.
1	Information Alerts	Provides information only.

41 The Dell EMC Devices Supported by Dell EMC OpenManage Essentials (OME)

8.2 View alerts from a device in OpenManage Essentials

To view alerts from a device, click the device in the device tree and navigate to the **Alerts** tab as shown in the following sample screen shot.



Figure 37 SNMP Alert from a Dell EMC EqualLogic Member

8.3 View alert categories in OpenManage Essentials

Predefined alerts for Dell EMC EqualLogic Groups, Dell EMC NAS Appliances, SonicWALL Firewall, PowerConnect W- Series, Brocade Fibre Channel, Dell EMC Compellent Arrays, Dell EMC Networking Switches, KVM, PDU, and UPS devices can be seen under the Alert Categories section in OpenManage Essentials. Click to **Manage** \rightarrow **Alerts** \rightarrow **Alert Categories & Definitions**, and then click the appropriate alert category.

Home	Manage Deployment Reports Settings	Logs Tutorials Dell EMC Solutions										
Devio	es Device Search Discovery and Inventory	Alerts System Update Remote Tasks Configuration										
Com Alert	mon Tasks	Edit Trap for Fluid Storage										
Alert	Actions	Select the traps that you want to edit. All traps can be edited.										
Alert	Categories & Definitions	Tran Name or Enterprise QID:	Search									
8-	Alert Categories	Edit Traps										
6	- Brocade-Switch											
1	- Compellent	Drag a column header and drop it here to group by that column	yrag a column header and drop it here to group by that column									
1	 Dell EMC Advanced Infrastructure Manager 	Name	Category Name	Severity Y	Rormal String							
i	- Environmental	fluidESEventComponentEilesystemCreatedStartingDomainMigration	Eluid Storage	Normal	The NAS angliance is now part of the file-system. System Name: \$1							
l i	- EqualLogic Storage	fluidESEventAuditingEailedAuditWrite	Fluid Storage	Critical	Failed Write by \$2 on \$3/\$4							
l i	- FC-Switch	fluidESEventComponentEventsStoreFilterModifySuccess	Fluid Storage	Normal	Events filter configuration was modified by \$2							
1	- Firewall	fluidESEventClientAccessAutoHomeDirCreationError	Fluid Storage	Normal	Error on creation home directory for user \$5							
	▼ Eluid Storage	fluidFSEventSupportShellSecureConsoleAccessDisabledReservation	Fluid Storage	Info	Secure Console Access on NAS Controller \$2 cannot be enabled.							
	 fluidFSEventComponentFilesystemCreat 	fluidFSEventComponentClusterNameModifySuccess	Fluid Storage	Info	The user \$2 renamed the cluster to \$3.							
	 – fluidFSEventAuditingFailedAuditWrite (Fl 	fluidFSEventHardwareAppFanSystemInfoNotAvailable	Fluid Storage	Critical	Fans set overall status in NAS Appliance S3 is not available. Internal error in fans monitoring (service tag: S2).							
	 – fluidFSEventComponentEventsStoreFilte 	exaEventAdminDisconnectCIFSClient	Fluid Storage	Info	The user \$2 killed the following CIFS connections on controller\$3: \$4.							
	 – fluidFSEventClientAccessAutoHomeDirCr 	fluidFSEventAntivirusAntivirusHostDown	Fluid Storage	Info	Antivirus host \$2:\$3 is not accessible.							
	 fluidFSEventSupportShellSecureConsole 	fluidFSEventHardwarePhysicalDiskError	Fluid Storage	Critical	Local storage disk drive \$4 in NAS Controller\$3 is not operating property (service tag: \$2).							
	 – fluidFSEventComponentClusterNameMoc 	exaEventAdminLeaveActiveDirectory	Fluid Storage	Info	The system has left the Active Directory domain by \$2 request.							
	 fluidFSEventHardwareAppFanSystemInfc 	exaEventHealthPairPowerSuppliesRecovered	Fluid Storage	Info	The system switched Write-Through mode off (mirroring) Description: NAS controllerS2 full power supplies redundancy was restored a							
	 exaEventAdminDisconnectCIFSClient (E) 	fluidFSEventComponentRunCifsFileAccessibilityDiagnosticSuccess	Fluid Storage	Info	The user \$2 ran SMB file accessibility diagnostic.							
	 fluidFSEventAntivirusAntivirusHostDown 	fluidFSEventUpgradeServicePackAlreadyExists	Fluid Storage	Info	The service pack \$2 was removed because file with the same version already exists							
	 fluidFSEventHardwarePhysicalDiskError 	exaEventNdmpNetworkError	Fluid Storage	Critical	Network error: \$2.							
	 exaEventAdminLeaveActiveDirectory (E) 	fluidFSEventComponentVirtualVolumeFolderDeleteSuccess	Fluid Storage	Info	The user \$2 deleted \$3 NAS volumes folder.							
	 exaEventHealthPairPowerSuppliesRecove 	exaEventClientAccessNfsModificationOfRoExport	Fluid Storage	Info	NFS access denied. Attempt to modify a read-only export \$4 Description: NFS Access Denied: User \$2 accessing from \$3 tried to per							
	 fluidFSEventComponentRunCifsFileAcces 	fluidFSEventHealthSlowResponse	Fluid Storage	Info	Slow response time from \$2. Response time from \$2 server \$3 of \$4 seconds exceeds \$5 seconds. Action Items: Check availability of a							
	 HuidFSEventUpgradeServicePackAlready 	fluidFSEventHardwareAppPsuAmperageNormal	Fluid Storage	Normal	Current sensor in power supply unit \$4 in NAS Appliance \$3 reports normal status (service tag: \$2).							
	- exabventNdmpNetworkError (EXANET-M	fluidFSGenNormalEvent	Fluid Storage	Normal	\$2 has occurred on \$3.							
	- huidrSEventComponentVirtualVolumeFo	fluidFSEventComponentTrustedSystemDeleteSuccess	Fluid Storage	Info	The user \$2 deleted partnership with \$3.							

Figure 38 Alert Sources for Dell EMC NAS Appliances

Home Manage Deployment Reports Settings I	Logs Tutorials Dell EMC	Solutions									
Devices Device Search Discovery and Inventory	Alerts System Update F	Remote Tasks Configura	tion								
Common Tasks	Edit Trap for Comp	ellent									
Alert Logs											
Alert Catagorias & Definitions	Select the traps that you want t	o edit. All traps can be edited.									
- Alert Categories	Trap Name or Enterprise OID			Search							
- Brocade-Switch	C dia Tanan										
- Compellent	Edit Iraps	Dran a column header and dron it here to group by that column									
 trapStatusUnavailable (DELL-STORAGE-: 	Drag a column header and drop it here to group by that column										
 trapStatusUnavailable (COMPELLENT-MI 	Name 🕅 🕅	🕜 Category Name 🛛 🝸	🕜 Severity 🛛 🕅	7 Format String							
- trapStatusUnknown (COMPELLENT-MIB)	trapStatusUnavailable	Compellent	Warning	Compellent Trap in Unavailable state Variables: sysName=\$1,							
 trapStatusEmergency (DELL-STORAGE-5 	trapStatusUnavailable	Compellent	Warning	Compellent Trap in Unavailable state Variables: sysName=\$1,							
 trapStatusEmergency (COMPELLENT-MII) 	trapStatusUnknown	Compellent	Info	Compellent Trap in Unknown state Variables: sysName=\$1,							
 trapStatusTestSpecific (DELL-STORAGE- 	trapStatusEmergency	Compellent	Critical	Compellent Trap in Emergency state Variables: sysName=\$1,							
 trapStatusTestSpecific (COMPELLENT-MI 	trapStatusEmergency	Compellent	Critical	Compellent Trap in Emergency state Variables: sysName=\$1,							
 trapStatusCritical (DELL-STORAGE-SC-M 	trapStatusTestSpecific	Compellent	Normal	Compellent Trap in Test Specific state Variables: sysName=\$1,							
 trapStatusCritical (COMPELLENT-MIB) 	trapStatusTestSpecific	Compellent	Normal	Compellent Trap in Test Specific state Variables: sysName=\$1,							
 trapStatusOkay (DELL-STORAGE-SC-MIR 	trapStatusCritical	Compellent	Critical	Compellent Trap in Critical state Variables: sysName=\$1,							
 trapStatusOkay (COMPELLENT-MIB) 	trapStatusCritical	Compellent	Critical	Compellent Trap in Critical state Variables: sysName=\$1,							
 trapStatusTest (DELL-STORAGE-SC-MIB) 	trapStatusOkay	Compellent	Normal	Compellent Trap in Okay state Variables: sysName=\$1,							
 trapStatusTest (COMPELLENT-MIB) 	trapStatusOkay	Compellent	Normal	Compellent Trap in Okay state Variables: sysName=\$1,							
— trapStatusDown (DELL-STORAGE-SC-MI	trapStatusTest	Compellent	Normal	Compellent Trap in Test state Variables: sysName=\$1,							
 trapStatusDown (COMPELLENT-MIB) 	trapStatusTest	Compellent	Normal	Compellent Trap in Test state Variables: sysName=\$1,							
 trapStatusInform (DELL-STORAGE-SC-M 	trapStatusDown	Compellent	Warning	Compellent Trap in Down state Variables: sysName=\$1,							
 trapStatusInform (COMPELLENT-MIB) 	trapStatusDown	Compellent	Warning	Compellent Trap in Down state Variables: sysName=\$1,							
 trapStatusComplete (DELL-STORAGE-SC 	trapStatusInform	Compellent	Normal	Compellent Trap in Inform state Variables: sysName=\$1,							
 trapStatusComplete (COMPELLENT-MIB) 	trapStatusInform	Compellent	Normal	Compellent Trap in Inform state Variables: sysName=\$1,							
 trapStatusDegraded (DELL-STORAGE-SC 	trapStatusComplete	Compellent	Normal	Compellent Trap in Complete state., Variables: svsName=\$1.							
 trapStatusDegraded (COMPELLENT-MIB) 	trapStatusComplete	Compellent	Normal	Compellent Trap in Complete state., Variables: svsName=\$1,							
 scDiskFolderStatusChange (COMPELLEN) 	trapStatusDegraded	Compellent	Warning	Compellent Trap in Degraded state Variables: sysName=\$1.							
 scDiskFolderStatusChange (DELL-STORA 	tranStatusDegraded	Compellent	Warning	Compellent Tran in Degraded state Variables: sysName=\$1							
 scDiskStatusChange (COMPELLENT-MIB) 	ecDickFolderStatusChange	Compelient	By Varbind Value	S8. Serial Number: \$1. Alert Definition ID: \$2. Diek Folder Number: \$2. Diek Folder Status: \$.							
scDiskStatusChange (DELL-STORAGE-SC)	scolskrolderstatuschänge	Compelient	by varbing value	30. Senai Number, 37, Alert Delimition ID, 52, Disk Folder Number, 53, Disk Folder Status; 54							

Figure 39 Alert Sources for Dell EMC Compellent Arrays

ome Manage Deployment Reports Settings	Logs Tutorials Dell EMC Solutions					Search device, ranges, an	d more						
vices Device Search Discovery and Inventory	Alerts System Update Remote Ta	sks Configuration											
ommon Tasks	Edit Trap for Firewall												
ert Logs ert Actions	Salact the trans that you want to add. All to	ine can be artifad											
et Categories & Definitions	Select tile traps that you want to eur. All th	ips can be euled.											
Alert Categories	Trap Name or Enterprise OID:		Search										
- Brocade-Switch	Edit Trace												
- Compellent	Day a culture header and drog it here to group by that column												
Dell EMC Advanced Infrastructure Manager	Drag a column header and drop it here to group by that column												
- Environmental	Name 🌱	🕜 Category Name 🛛 🕅	🖉 Severity 🛛 🗑	👔 Format String 🛛 🗑	Enterprise OID	Description	f Generic						
- EqualLogic Storage	swFwTrapEnhModemDebug	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from modern debug.	6						
- FC-Switch	swFwTrapEnhLegacyDeniedLanlp	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This is a legacy trap for denied LAN IP activities.	6						
▼ Firewall	swFwTrapEnhDynAddrObjs	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from a dynamic address object activity.	6						
 swFwTrapEnhModemDebug (SONICWALL 	swFwTrapEnhMcast	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from an IGMP activity.	6						
- swFwTrapEnhLegacyDeniedLanIp (SONI	swFwTrapEnhLegacyAttacks	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	Please see description for swFwTrapAttack trap.	6						
 swFwTrapEnhDynAddrObjs (SONICWALL 	swFwTrapEnhDPISSL	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates a DPI SSL event.	6						
 swFwTrapEnhMcast (SONICWALL-FIREW 	swFwTrapEnhSslvpn	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an SSL-VPN event.	6						
 swFwTrapEnhLegacyAttacks (SONICWAL) 	swFwTrapEnhSonicPointN	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates a SonicPoint-N event.	6						
 swFwTrapEnhDPISSL (SONICWALL-FIRE 	swFwTrapEnhRFManagement	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from an RF management activity.	6						
 swFwTrapEnhSslvpn (SONICWALL-FIREV 	swFwTrapBlkWebSite	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates that there is a web site was blocked by the firewall.	6						
 swFwTrapEnhSonicPointN (SONICWALL-I 	swFwTrapEnhlpcomp	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from an IP compression activity.	6						
 swFwTrapEnhRFManagement (SONICWA) 	swFwTrapEnhLegacyModemDebug	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This is a legacy trap for modern debug.	6						
 swFwTrapBikWebSite (SONICWALL-FIRE 	swFwTrapEnhARS	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap may be disabled at this time.	6						
 swFwTrapEnhIpcomp (SONICWALL-FIRE 	swFwTrapEnhLegacyUserActivity	Firewall	Info	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This is a legacy trap for user activities.	6						
 swFwTrapEnhLegacyModemDebug (SON) 	swFwTrapEnhSecurityServices	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from a security services activity.	6						
 swFwTrapEnhARS (SONICWALL-FIREWA) 	swFwTraplpsecTunnel	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates that there has bee a change in the IPSec tunnel status along with the parameters required to indentify the tunne	d. 6						
 swFwTrapEnhLegacyUserActivity (SONIC 	swFwTrapEnhRbl	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from a real-time black list activity.	6						
 swFwTrapEnhSecurityServices (SONICW) 	swFwTrapEnhIntrusionDetection	Firewall	By Varbind Value	Description: \$2	.1.3.6.1.4.1.8741.1.1.2	This trap indicates an event from an intrusion prevention activity.	6						

Figure 40 Alert Sources for SonicWALL Firewall

kome Manage Deployment Reports Settings Logs Tutorials Dell EHC Solutions													
Devices Device Search Discovery and Inventory	Alerts System Update Remote	e Tasks Configuration											
Common Tasks	Edit Trap for Notwork												
Alert Logs =													
Alert Actions	Select the traps that you want to edit. A	All traps can be edited.											
Alert Categories & Definitions	Tran Name or Enterprise OID:		Search										
Alert Categories	Trap Name of Enterprise Orb.												
 Brocade-Switch 	Edit Traps												
- Compellent	Drag a column header and drop it he	a column header and dron it here to crow by that column											
- Dell EMC Advanced Infrastructure Manager													
+- Environmental	Name V	Category Name 🛛 🕅	🗹 Severity 🛛 🕅	Format String	Enterprise OID V	Description V	Generic Trap ID Y	Specific Trap ID					
+- EqualLogic Storage	dot1dStpPortStateNotForwarding	Network	Normal	any of its configured ports	.1.3.6.1.4.1.89	Dell PowerConnect PC-33.xx pcdot1dStpPortStateNotForwarding	6	152					
FC-Switch				state to the Blocking state. \$1		Trap							
Firewall						This notification is generated when there is enough MAC address							
- Fluid Cache		Network				information to fully occupy a maximum size SNMP trap message. This							
- Fluid Storage	anal (as Channed Natification			There is at least one MAC address changed or removed. There is enough MAC address information to fully occupy a maximum size		notification is also generated when there is at least one MAC address	6						
 General Redundancy 					, .1.3.6.1.4.1.9.9.215.2	changed or removed and the amount of time elapsed from the previous notification is greater than the maximum wall time denoted by cmnNotificationInterval object. If there are more MAC addresses information than can thato one cmmHistTrapContent object, then multiple notifications will be							
 HyperV Server 	cmnMacChangedNotification		Into					1					
- iDRAC				SNMP trap message.									
- Juniper-Switch													
 Keyboard-Video-Mouse (KVM) 													
- Memory						A vtpVlanDeleted notification is							
- Network	vtpVlanDeleted	Network	Warning	VLAN Deleted.	.1.3.6.1.4.1.9.9.46.2	generated by a device when a VLAN is deleted.	6	11					
 dot1dStpPortStateNotForwarding (Power 	lekenDingCollEgrEussadedTerm	Mahurah	141	A station local to a token ring port	12614405	This trap is generated when a station local to a token ring port exceeds its		10					
 cmnMacChangedNotification (Cisco Swite 	TokenrangSonEnExceeded nap	Network	warning	within the configured interval.	1.3.0.1.4.1.3.5	Soft Error Threshold within the configured interval.	0	10					
 vtpVlanDeleted (Cisco Switch) 				Value of the object managementDomainVersionInLise		A vtpVersionInUseChanged notification is generated by a device							
 tokenRingSoftErrExceededTrap (Cisco Sv 	vtpVersionInUseChanged	Network	Info	(Possible values are: version1, version2, none, version3) is	.1.3.6.1.4.1.9.9.46.2	when the value of the object	6	9					
 vtpVersionInUseChanged (Cisco Switch) 				changed.		changed.							
 stpxInconsistencyUpdate (Cisco Switch) 						notification is sent by a bridge when							
 EnvMonTemperatureRisingAlarm_V2 (Po 						created or destroyed. That is, when							
 pc3248swPortSecurityTrap_2 (PowerCon 				An inconsistency is discovered in		an inconsistency is discovered in the VLAN's Spanning Tree for a particular							
 IgmpTableOverflow_V2 (PowerConnect) 	stpxInconsistencyUpdate	Network	Info	the VLAN's Spanning Tree for a particular port, or such an inconsistency disappeared	.1.3.6.1.4.1.9.9.82.2	port, or when such an inconsistency disappears. Note that the trap is not sent if the port transitions between	6	1					

Figure 41 Alert Sources for Dell EMC Networking Switches

Home Manage Deployment Reports Settings L	.ogs Tutorials Dell EMC Solut	ions						
Devices Device Search Discovery and Inventory	Merts System Update Remo	te Tasks Configuration						
Common Tasks	Edit Trap for Brocade-S	witch						
Alert Actions	Select the traps that you want to edit.	All traps can be edited.						
Alert Categories & Definitions	Tran Name or Enterprise OID		Searc	ħ				
Alert Categories								
Brocade-Switch	Edit Traps							
 fcEosFruUpdate (Brocade MIB) 	Drag a column header and drop it h	ere to group by that column						
 fcEosFruActive (Brocade MIB) 	Name V	🖉 Calagoni Nama 🛛 🕅	Sauaritu 😵	Z Formal String	Entermise OID	Description V	Generic Tran ID	Specific Tran ID
 fcEosThresholdAlert (Brocade MIB) 	, and	ourogory mane q	ouromy 4	V ronnur Jung 4	Lindipilot old	A fcEosFruUpdate trap is generated	Contrat top to	oposito rtap to
 fcEosPortBindingViolation (Brocade MIB) 						whenever a FRU transitions to an update/busy		
 fcEosFruBackup (Brocade MIB) 						status.###fcEosFruCode#Field Replaceable Unit. A hardware		
 fruHistoryTrap (Brocade MIB) 				Varbind values are:		component of the product that is replaceable as an entire unit. Each		
 fruStatusChanged (Brocade MIB) 	fcFosFul Indate	Brocade-Switch	Info	fcEosFruCode=\$1 fcEosFruPosition=\$2	136141289	module defined in this MIB has a fixed ERU code ###fcEosEn/Position#This	6	8
 fcEosFruFailed (Brocade MIB) 				fcEosSysSwitchName=\$3 fcEosSysSwitchId=\$4		object identifies the position of the module. The value starts from 1 to the		,
 swIPv6ChangeTrap (Brocade MIB) 				1020303304110110-04		maximum number of the cards that		
InkLIRRListenerRemoved (Brocade MIB)						switch.###fcEosSysSwitchName#The		
- swTrackChangesTrapSilkworm3016 (Bro						switch ###fcEosSysSwitchId#The		
 swFCPortScn (Brocade MIB) 						A fcEosFruActive trap is generated		
 InkRNIDDeviceDeRegistration (Brocade 						whenever a FRU transitions to an active status.###fcEosFruCode#Field		
swFabricSegmentTrap (Brocade MIB)						Replaceable Unit. A hardware component of the product that is		
- swirackChangesTrap (Brocade MIB)				Varbind values are:		replaceable as an entire unit. Each module defined in this MIB has a fixed		
- fcEosLinkBitErrorEvent (Brocade MIB)	fcEosFruActive	Brocade-Switch	Normal	fcEosFruPosition=\$2	.1.3.6.1.4.1.289	FRU code.###fcEosFruPosition#This object identifies the position of the	6	6
- linkRLIRFailureIncident (Brocade MIB)				fcEosSysSwitchId=\$4		module. The value starts from 1 to the maximum number of the cards that		
- SWFault (Brocade MIB)						can be contained within this switch ###fcEosSysSwitchName#The		
- swi-CPortScn (Brocade MIB)						ASCII name of the switch ###fcEosSysSwitchId#The		
- recosportSen (Brocade MIB)						Worldwide Name of the switch.		
= SWFCPOrtSchSilkWorm3016 (Brocade MI						generated whenever a threshold alert		
linkt IDDL internet dead (Brocade MIB)				Varbind values are:		physical port number on the switch. It		
- InkLikkListenerAdded (Brocade MIB)	fcEosThresholdAlert	Brocade-Switch	Warning	fcEosPortIndex=\$1 fcEosTAIndex=\$2	.1.3.6.1.4.1.289	ranges from 1 to the number of physical ports that can be supported	6	4
 connuniteventirap (Brocade MIB) 	1					in the switch.###fcEosTAIndex#This		

Figure 42 Alert Sources for Brocade Fiber Channel

Home Manage Deployment Reports Settings Li	ogs Tutorials Dell EMC Solutions							
Devices Device Search Discovery and Inventory A	lerts System Update Remote Tasks	Configuration						
Common Tasks	Edit Trap for Equal onic Stor	200						
Alert Logs	Edit Trap for EqualEogic Stor	aye						
Alert Actions	Select the traps that you want to edit. All traps	can be edited.						
Alert Categories & Definitions	Terra Manual de Tatalación de D		- Ourset	n				
Alert Categories	Trap Name or Enterprise OID:		Search					
- Brocade-Switch	Edit Trans							
- Compellent								
- Dell EMC Advanced Infrastructure Manager	Urag a column neader and drop it here to gro	sup by that column						
+- Environmental	Name 🏹	👸 Calegory Name 🛛 🕅	2 Severity	🕈 才 Format String 🛛 🍸	Enterprise OID	Description V	Generic Trap ID	Specific T
EqualLogic Storage	eqlDiskStatusChange	EqualLogic Storage	By Varbind Value	Sent when eqlDiskStatus changes from one state to another state. Variables: eqlDiskStatus=	.1.3.6.1.4.1.12740.3.2.1	Sent when eqlDiskStatus changes from one state to another state	6	1
eql/statusCranige (CquaiDgic) eql/MemberHealthRAIDsetDoubleFaulted eql/MemberHealthBothFanTraysRemoved eql/MemberHealthRAIDlostCache (EquaiL	eqiMemberHealthRAIDSetDoubleFaulted	EqualLogic Storage	By Varbind Value	She twhen the raid set has been detected to have double faulted. When this occurs, the array will not come up. User intervention is required to correct the issue. Variables: colldemperchastithStatuseS1	.1.3.6.1.4.1.12740.2.2.1	Sent when the raid set has been detected to have double faulted. When this occurs, the array will not come up. User intervention is required to correct the issue.	6	7
 eqiMemberneainnivowersuppiyranure (Ec eqiMemberneainnivowersuppiyraniure) eqiMemberneaithFanTrayRemoved (Equation) 	eqIMemberHealthBothFanTraysRemoved	EqualLogic Storage	By Varbind Value	Sent when both of the fan trays have been removed from the chassis. This results in overheating. Variables: eolWemberHealthStatus=S1	.1.3.6.1.4.1.12740.2.2.1	Sent when both of the fan trays have been removed from the chassis. This results in overheating.	6	8
eqlMemberHealthRAIDSetLostBikTableFL eqlMemberHealthBatteryLessThan72Hou eqlMemberHealthTempSensorLowThresh eqlMemberHealthRaidOrphanCache (Equ	eqiMemberHealthRAIDlostCache	EqualLogic Storage	By Varbind Value	Sent because the RAID driver is unable to recover the battery- backed cache. Variables: eqIMemberHealthStatus=S1	.1.3.6.1.4.1.12740.2.2.1	Sent because the RAID driver is unable to recover the battery-backed cache. The disk array will not initialize without user intervention. See the Handling Lost Data section in the Group Administration manual for more information	6	9
eqlMemberHealthRaidMultipleRaidSets () eqlMemberHealthRidMultipleRaidSets () eqlMemberHealthitvComponerFailedCri eqlMemberHealthitvCompatControlModul enthmobilealthitmCompatControlModul	eqlMemberHealthPowerSupplyFailure	EqualLogic Storage	By Varbind Value	The implementation of this trap should not send more than one notification of this type for a sensor in any 10 minute time span. Variables: eqlMemberHealthDetailsPowerSu pplyName= \$1.eqlMemberHealthDetailsPower Sungh/CurrentState_S2	.1.3.6.1.4.1.12740.2.2.1	Sent when a failure has been detecter on any of the power supplies in the PSA. The implementation of this trap should not send more than one notification of this type for a sensor in any 10 minute time span	6	6
eqlMemberHealthTempSensortlighThrest eqlMemberHealthTempSensortlighThrest eqlMemberHealthTenSpeedLowThreshol eqlMemberHealthTenSpeedTighThreshol eqlMemberHealthTensPeedTighThreshol eqlMemberHealthTensPeedTighThreshol	eqliMemberHealthPowerSupplyFanFailure	EqualLogic Storage	By Varbind Value	The implementation of this trap should not send more than one notification of this type for a sensor in any 10 minute time span. Variables: eqlMemberHealthDetailsPowerSu pplyName= \$1, eqlMemberHealthDetailsPower	.1.3.6.1.4.1.12740.2.2.1	Sent when a failure has been detecte on any of the power supply fan speed sensors. The implementation of this trap should not send more than one notification of this type for a sensor in any 10 minute time span	6	5

Figure 43 Alert Sources for Dell EMC EqualLogic Storage

Home Manage Deployment Reports Settings La	ogs Tutonals Dell EMC Solutions	c Configuration						Se
Common Tasks	Edit Trap for Keyboard-Vide	o-Mouse (KVM)						
Alert Actions	Select the traps that you want to edit. All traps	s can be edited.						
- Alert Categories	Trap Name or Enterprise OID:		Search					
- Brocade-Switch								
Compellent	Edit Traps							
Dell EMC Advanced Infrastructure Manager	Drag a column header and drop it here to g	roup by that column						
- Environmental	Name 🍸	🚰 Category Name 🛛 🕅 🕅	🝸 Severity 🛛 🝸	😵 Format String 🛛 🕅	Enterprise OID	Description V	Generic Trap ID	Specific Trap ID
D- EqualLogic Storage D- FC-Switch						The remote console switch is in the process of rebooting. The name of the user who initiated the reboot is contained in de TracoDiscill locations. ###deTracoD		
🖬 - Firewall 🖬 - Fluid Cache 🖬 - Fluid Storage	dsRebootStartedTrap	Keyboard-Video-Mouse (KVM)	Normal	The remote console switch is rebooting. Command issued by user: \$1.	.1.3.6.1.4.1.10418.3.1.8	ds irapObjectUserName ###rads irapO bjectUserName#This object is sent in a trap to identify the name of the user for which the trap condition occured. If the trap condition occured as a result of activity on the local port (OSD), then the value of this object will be the	6	1
General Redundancy HyperV Server IDRAC IdRAC	dsV/deoSessionStartegTrap	Keyboard-Video-Mouse (KVM)	Normal	Video assion started. User 31. Server: 52	13614110418318	Following string, local point A video reasion has started. The name of the user vide is committed to any other than the started. The string object of the started string of the store string of the string of the string object of the string of the string and the string of the string of the string object of the string object of the string of the string object of the string object of the string of the string object of the string object of the string of the string object of	6	4

Figure 44 Alert Sources for Dell KVM

Home Manage Deployment Reports Settings L	ogs Tutorials Dell EMC Solu	tions						Search devic
Devices Device Search Discovery and Inventory A	lerts System Update Rem	ote Tasks Configuration						
Common Tasks	Edit Trap for PDU							
Alert Logs								
Alert Actions	Select the traps that you want to edi	t. All traps can be edited.						
Alert Categories & Definitions	Tran Name or Enterprise OID:		Search					
Alert Categories				_				
- Brocade-Switch	Edit Traps							
➡- Compellent	Drag a column header and drop it	here to group by that column						
Dell EMC Advanced Infrastructure Manager	Nama 🛛	🖉 Codanana Nama 🛛 💆	🖉 Cauraita 🛛 😾	Formal China	Entermine OID	Description V	Capacia Tran ID	Specific Trap ID
 Environmental 	Indino q	Calegory warne q	o Seveniy q	S2 lost communication with device		Lost communication with device has	Generic map to q	apecine map ib
- EqualLogic Storage	deviceCommunicationLostCleared	PDU	Normai	has been re-established.	.1.3.6.1.4.1.674.10903.200.2.200.500	been re-established	0	1
- FC-Switch	deviceCommunicationLostSet	PDU	Critical	S2 lost communication with device. S2 comm with on hoard	.1.3.6.1.4.1.674.10903.200.2.200.500	Lost communication with device	6	2
- Firewall	componentCommLostCleared	PDU	Normal	component was re-established.	.1.3.6.1.4.1.674.10903.200.2.200.500	component has been re-established.	6	3
- Fluid Cache	componentCommLostSet	PDU	Critical	board component.	.1.3.6.1.4.1.674.10903.200.2.200.500	component.	6	4
+- Fluid Storage	cANBusOffCleared	PDU	Normal	\$2 CAN bus off was cleared.	.1.3.6.1.4.1.674.10903.200.2.200.500	CAN bus off condition was cleared.	6	5
 General Redundancy 	canBusOffSet	PDU	Warning	\$2 CAN bus off was set.	.1.3.6.1.4.1.674.10903.200.2.200.500	CAN bus off condition was set.	6	6
 HyperV Server 	powerSupplyFailureCleared	PDU	Normal	\$2 Unit's power supply voltage is no longer out of tolerance.	.1.3.6.1.4.1.674.10903.200.2.200.500	Unit's power supply voltage is no longer out of tolerance.	6	7
- idrac	powerSupplyFailureSet	PDU	Critical	\$2 Unit's power supply voltage is out of tolerance.	.1.3.6.1.4.1.674.10903.200.2.200.500	Unit's power supply voltage is out of tolerance.	6	8
- Juniper-Switch	keypadButtonStuckCleared	PDU	Normal	\$2 keypad button no longer stuck.	.1.3.6.1.4.1.674.10903.200.2.200.500	Keypad button stuck has been cleared	6	9
 Keyboard-Video-Mouse (KVM) 	keypadButtonStuckSet	PDU	Warning	\$2 keypad button stuck.	.1.3.6.1.4.1.674.10903.200.2.200.500	Keypad button stuck has been set.	6	10
- Memory	dryContactAbnormalCleared	PDU	Normal	\$2 dry contact \$3 is no longer in	.1.3.6.1.4.1.674.10903.200.2.200.500	Dry Contact is no longer in an	6	11
- Network	dryContactAbnormalSet	PDU	Critical	\$2 dry contact \$3 has moved to an	.1.3.6.1.4.1.674.10903.200.2.200.500	Dry Contact has moved to an	6	12
D- Other	devicel owl oadCleared	PDU	Normal	\$2 device is no longer below the	1 3 6 1 4 1 674 10903 200 2 200 500	Device load is no longer below the	6	13
PDU	devicel owl padSet	PDU	Warning	S2 Device load has fallen below	1 3 6 1 4 1 674 10903 200 2 200 500	'Low Load' threshold value. Device load has fallen below the 'Low	6	14
 deviceCommunicationLostCleared (PDU) 	device bless Quest and Cleared	100	Nermal	the 'Low Load' threshold. \$2 device not over 'Near Over	4 3 6 4 4 4 674 40003 200 2 200 500	Load' threshold value. Device load no longer exceeds the	e	45
 deviceCommunicationLostSet (PDU) 	devicervearOverLoaucieareu		Norma	Load' threshold. S2 device is over the 'Near Over	.1.3.0.1.4.1.674.10903.200.2.200.300	'Near Over Load' Device load has exceeded the 'Near	6	15
 componentCommLostCleared (PDU) 	deviceNearOverLoadSet	PDU	Warning	Load' threshold. \$2 device not over the 'Over Load'	.1.3.6.1.4.1.674.10903.200.2.200.500	Over Load' threshold value. Device load no longer exceeds the	6	16
 componentCommLostSet (PDU) 	deviceOverLoadCleared	PDU	Normal	threshold.	.1.3.6.1.4.1.674.10903.200.2.200.500	'Over Load' threshold value.	6	17
 CANBusOffCleared (PDU) 	deviceOverLoadSet	PDU	Critical	Load threshold.	.1.3.6.1.4.1.674.10903.200.2.200.500	Load' threshold value.	6	18
 canBusOffSet (PDU) 	phaseLowLoadCleared	PDU	Normal	52 phase 53 load is no longer below 'Low Load' threshold.	.1.3.6.1.4.1.674.10903.200.2.200.500	'Low Load' threshold value.	6	19
 powerSupplyFailureCleared (PDU) 	phaseLowLoadSet	PDU	Warning	\$2 phase \$3 load has fallen below the 'Low Load' threshold.	.1.3.6.1.4.1.674.10903.200.2.200.500	Phase load has fallen below the 'Low Load' threshold value.	6	20

Figure 45 Alert Sources for Dell PDU

evice	s Device Search Discovery and Inventory	Alerts System Update Remot	e Tasks Configuration						
÷	- Security .	Edit Trap for UPS							
÷	- Storage Peripheral	Select the traps that you want to edit.	All traps can be edited.						
+	- Storage Software	Taxa Nama as Estamaias OID:		Creat					
÷	- System Events	Trap Name or Enterprise OID.		Search	J				
÷	- Таре	Edit Traps							
Ð	- Test Events	Drag a column beader and drop it be	ere to group by that column						
÷	- Unknown	N					Description St		
F	▼ UPS	Name ų	Category Name 1	Seventy U	Format String U	Enterprise OID 1	Environment Probe communication	Generic Trap ID U	Specific Trap
	 trapEnvironComFailure (UPS) 	trapEnvironComFailure	UPS	Warning	communication failure.	.1.3.6.1.4.1.674.10902.2.140	failure.	6	98
	 trapCommunicationRestored (UPS) 	trapCommunicationRestored	UPS	Info	UPS.	.1.3.6.1.4.1.674.10902.2.140	HID databasis is updated.	6	97
	 trapEnvironHumidityHigh (UPS) 	trapEnvironHumidityHigh	UPS	Warning	Humidity is above high threshold.	.1.3.6.1.4.1.674.10902.2.140	Humidity is above high threshold.	6	106
	- trapCommunicationLost (UPS)	trapCommunicationLost	UPS	Warning	UMC lost communication with UPS, HID databasis is not updated.	.1.3.6.1.4.1.674.10902.2.140	Lost communication with UPS, HID databasis is not updated.	6	96
	- trapEnvironTemperatureLow (UPS)	trapEnvironTemperatureLow	UPS	Warning	Temperature is below low threshold	.1.3.6.1.4.1.674.10902.2.140	Temperature is below low threshold.	6	100
	- trapEnvironInput2Closed (UPS)	trapEnvironInput2Closed	UPS	Info	Input #2 is Closed.	.1.3.6.1.4.1.674.10902.2.140	Input #2 is Closed.	6	110
	- trapEnvironTemperatureOK (UPS)	trapEnvironTemperatureOK	UPS	Info	Temperature is in normal range.	.1.3.6.1.4.1.674.10902.2.140	Temperature is in normal range.	6	103
	- trapEnvironHumidityLow (OPS)	trapEnvironHumidityLow	UPS	Warning	Humidity is below low threshold.	.1.3.6.1.4.1.674.10902.2.140	Humidity is below low threshold.	6	104
	 trapInverterOverVoltage (UPS) trapInverterOverVoltageOk (UPS) 	trapInverterOverVoltage	UPS	Warning	The Inverter AC Voltage has exceeded the "Over Voltage Threshold" value	.1.3.6.1.4.1.674.10902.2.140	Inverter AC over voltage.	6	1
	trapInverterUnderVoltage (UPS) trapInverterUnderVoltageOk (UPS)	trapInverterOverVoltageOk	UPS	Info	The Inverter AC Voltage no longer exceeds the "Over Voltage Threshold" value	.1.3.6.1.4.1.674.10902.2.140	Inverter AC over voltage ok	6	2
	- trapBypassFrequencyOutOfRange (UPS)	trapInverterUnderVoltage	UPS	Warning	Inverter AC Voltage has fallen below the "Under Voltage Threshold" value.	.1.3.6.1.4.1.674.10902.2.140	Inverter AC under voltage.	6	3
	– trapBypassFrequencyOutOfkangeOk (UP – trapOnBuck (UPS)	trapInverterUnderVoltageOk	UPS	Info	Inverter AC Voltage is no longer below the "Under Voltage Threshold" value.	.1.3.6.1.4.1.674.10902.2.140	Inverter AC under voltage ok.	6	4
	 trapReturnFromBuck (UPS) 	trapBypassFrequencyOutOfRange	UPS	Warning	UPS Bypass Frequency is out of Range	.1.3.6.1.4.1.674.10902.2.140	Bypass under or over frequency.	6	5
	 trapOnBoost (UPS) 	trapBypassFrequencyOutOfRangeO	k UPS	Info	UPS Bypass Frequency is no	.1.3.6.1.4.1.674.10902.2.140	Bypass under or over frequency ok.	6	6
	 trapReturnFromBoost (UPS) 	trapOnBuck	UPS	Info	On Buck/ Input Voltage Reducer.	.1.3.6.1.4.1.674.10902.2.140	On Buck or Input Voltage Reducer.	6	7
	 trapInputOverVoltage (UPS) 	trapReturnFromBuck	UPS	Info	The UPS has returned from Buck.	1.3.6.1.4.1.674.10902.2.140	Return from Buck.	6	8
	 trapInputOverVoltageOk (UPS) 	trapOnBoost	UPS	Info	On Boost/Input Voltage Booster	1 3 6 1 4 1 674 10902 2 140	On Boost or Input Voltage Booster	6	9
	 trapInputUnderVoltage (UPS) 	tranReturnFromBoost	IIPS	Info	The LIPS has returned from Poost	1 3 6 1 4 1 674 10902 2 440	Return from Boost	6	10
i		a aprecium romboost	010	100	The Grid has returned notifi DOUSE.		rectain for boost.		10



8.4 Configure alert actions in OpenManage Essentials

Alert actions occur on all alerts received in the OpenManage Essentials console. The alert is received and processed to take appropriate action depending on the user configuration for that alert. To configure an alert action, navigate to **Manage** \rightarrow **Alerts** \rightarrow **Alert Actions** and right-click the appropriate category as shown in the following sample screen shot.

The following alert actions are supported in OpenManage Essentials:

- Application Launch
- E-mail Notification
- Ignoring Alerts
- Forwarding Alerts



Figure 47 Configuring Email Alert Action

8.5 Configure Warranty email notifications

You can configure OpenManage Essentials to send a warranty notification of your devices at periodic intervals through email, based on your preference. The warranty notification email provides a list of devices and appropriate links that you can click to renew the warranty of the devices. To configure Warranty Email Notifications:

- 1. Click Settings \rightarrow Settings.
- 2. In the left pane, click Warranty Notification Settings.
- 3. Under Warranty Email Notifications, select Enable Warranty Email Notifications.
- 4. In the To box, type the email addresses of the recipients (semicolon-separated).
- 5. In the From box, type the email address from which the warranty notification email is to be sent.
- 6. Set the criteria for the devices to be included in the warranty notification email.
- 7. Set the frequency at which you want to receive the warranty notification email.
- 8. To include devices with expired warranty or no warranty information in the warranty notification email, select **Include Expired Warranties**.
- 9. In the **Next Email will Send On** box, select the date and time at which you want to receive the next warranty notification e-mail.
- 10. If you want to configure the SMTP email server, click **Email Settings**.
- 11. Click Apply.

Home Manage Deployment Report	s Settings Logs Tutorials Dell EMC Solutions
Settings Permissions	
Settings ^	Warranty Notification Sottings
Alert Settings	Warranty Notification Settings
Custom URL Settings	Warranty Email Notifications
Deployment Settings	🗹 Enable Warranty Email Notifications
Device Tree Settings	To: a@dell.com:b@dell.com 3 Recipients
Discovery Settings	
Email Settings	From: abc@dell.com
General Settings	All Devices with 90 Days or less of warranty
Mobile Settings	
Purge Download Settings	
Task Settings	Send email every / Days
Warranty Notification Settings	Next Email Will Send On 5/16/2017 11:00 PM (UTC-08:00)
	Email Settings
	Warranty Scoreboard Notifications
	Enable Warranty Scoreboard Notifications
	All Devices with 90 Days or less of warranty
	Include Expired Warranties
	Warranty Popup Notification Settings
	Enable Warranty Popup Notification
	Warranty Update Settings
	Enable Warranty Updates
	Update warranty every 7 Days
	Next warranty update will be on 5/16/2017 11:00 PM III (UTC-08:00)
	Cancel Apply

Figure 48 Warranty Email Notification Settings

8.6 Configure warranty scoreboard notifications

You can configure OpenManage Essentials to display a warranty scoreboard notification icon in the heading banner. If any device fulfills the set criteria, the OpenManage Essentials heading banner displays the warranty scoreboard notification icon including the number of devices. To configure Warranty Scoreboard Notifications:

- 1. Click Settings \rightarrow Settings.
- 2. In the left pane, click Warranty Notification Settings.
- 3. Under Warranty Scoreboard Notifications, select the Enable Warranty Scoreboard Notifications check box.
- 4. Set the criteria for the devices to be included in the warranty notification scoreboard.
- 5. To include devices with expired warranty or no warranty information in the warranty notifications scoreboard, select the **Include Expired Warranties** check box.
- 6. Click Apply.

Home Manage Deployment Report	s Settings Logs Tutorials Dell EMC Solutions
Settings Permissions	
Settings ^	Warranty Natification Sattings
Alert Settings	Warranty Nouncation Settings
Custom URL Settings	Warranty Email Notifications
Deployment Settings	Enable Warranty Email Notifications
Device Tree Settings	To: a@dell.com:b@dell.com 3 Recipients
Discovery Settings	s Respire
Email Settings	From: abc@dell.com
General Settings	All Devices with 90 Days or less of warranty
Mobile Settings	Techuda Everyantian
Purge Download Settings	Include Expired warranties
Task Settings	Send email every 7 Days
Warranty Notification Settings	Next Email Will Send On 5/16/2017 11:00 PM 🔳 (UTC-08:00)
	Email Settings
	Warranty Scoreboard Notifications
	Senable Warranty Scoreboard Notifications
	All Devices with 90 Days or less of warranty
	Include Expired Warranties
	Warranty Popup Notification Settings
	Enable Warranty Popup Notification
	Warranty Update Settings
	Enable Warranty Updates
	Update warranty every 7 Days
	Next warranty update will be on 5/16/2017 11:00 PM ■ (UTC-08:00)
	Cancel Apply

Figure 49 Warranty Scoreboard Notification Settings

8.7 Configure warranty notifications in OpenManage Essentials

- 1. Click **Settings** \rightarrow **Settings**.
- 2. In the left pane, click Warranty Notification Settings.
- 3. Under Warranty Popup Notification Settings, select the Enable Warranty Popup Notification check box.
- 4. Click Apply.

Home Manage Deployment Report	s Settings Logs Tutorials Dell EMC Solutions
Settings Permissions	
Settings ^	Warranty Natification Sattings
Alert Settings	
Custom URL Settings	Warranty Email Notifications
Deployment Settings	Enable Warranty Email Notifications
Device Tree Settings	To: a@dell.com:b@dell.com
Discovery Settings	in all a strain black of the strain of the s
Email Settings	From: abc@dell.com
General Settings	All Devices with 90 Days or less of warranty
Mobile Settings	
Purge Download Settings	Include Expired warranties
Task Settings	Send email every / Days
Warranty Notification Settings	Next Email Will Send On 5/16/2017 11:00 PM ■ (UTC-08:00)
	Email Settings
	Warranty Scoreboard Notifications
	Enable Warranty Scoreboard Notifications
	All Devices with 90 Days or less of warranty
	Include Expired Warranties
	Warranty Popup Notification Settings
	C Enable Warranty Popup Notification
	Warranty Update Settings
	Enable Warranty Updates
	Update warranty every 7 Days
	Next warranty update will be on 5/16/2017 11:00 PM
	Cancel Apply

Figure 50 Warranty Popup Notification Settings

8.8 Configure warranty update settings

To configure warranty update settings:

- 1. Click Settings \rightarrow Settings.
- 2. In the left pane, click Warranty Notification Settings.
- 3. Under Warranty Update Settings, select the Enable Warranty Updates check box.
- 4. Set the frequency at which you want to update the warranty.
- 5. In the **Next warranty update will be on** calendar, select the date and time at which you want to update the warranty.
- 6. Click Apply.

Home Manage Deployment Report	s Settings Logs Tutorials Dell EMC Solutions
Settings Permissions	
Settings ^	Warranty Natification Sattings
Alert Settings	Warranty Nouncation Settings
Custom URL Settings	Warranty Email Notifications
Deployment Settings	Enable Warranty Email Notifications
Device Tree Settings	To: a@dell.com:b@dell.com
Discovery Settings	io. addencempedencempedencem
Email Settings	From: abc@dell.com
General Settings	All Devices with 90 Days or less of warranty
Mobile Settings	Include Expired Warranties
Purge Download Settings	
Task Settings	Send email every 7 Days
Warranty Notification Settings	Next Email Will Send On 5/16/2017 11:00 PM
	Email Settings
	Warranty Scoreboard Notifications
	Enable Warranty Scoreboard Notifications
	All Devices with 90 Days or less of warranty
	Include Expired Warranties
	Warranty Popup Notification Settings
	Enable Warranty Popup Notification
	Warranty Update Settings
	🗹 Enable Warranty Updates
	Update warranty every 7 Days
	Next warranty update will be on 5/16/2017 11:00 PM
	Cancel Apply

Figure 51 Warranty Update Settings

9 Troubleshooting issues in OpenManage Essentials

9.1 Dell EMC OpenManage Essentials Troubleshooting Tool

The Dell EMC OpenManage Essentials Troubleshooting Tool is a standalone tool that is installed along with Dell EMC OpenManage Essentials. You can use this tool for a wide array of protocol related problems that are often at the root of discovery and alert issues.

9.2 Troubleshoot discovery of a Dell EMC device

- 1. Ensure that SNMP is enabled and properly configured on the target device by accessing its web Interface.
- 2. Start the Dell EMC Troubleshooting Tool.
- 3. Navigate to **Protocols (Remote Box)**.
- 4. Enter the IP address of the target device.
- 5. Select required protocol in the Select Protocol(s) pane.
 - If you are selecting **SNMP** protocol, enter the correct community name and click **Run Test**.
 - If you are selecting **WS-Man** protocol, enter the user name and password in the respective fields and click **Run Test.**
 - If you are selecting **REST-GET** protocol and **MX Chassis** radio button, enter user name and password in the respective fields and click **Run Test**.
 - If you are selecting **REST-GET** protocol and **Generic** (only https) radio button, enter the URI, user name, and password in the respective fields, and then click **Run Test.**
- 6. The **Result** window displays test results of the target device.

	Den EMC Tro	Subleshooting 1	001	
LLEMC Troubles	nooting Tool		Proxy Setting	s Reset Help /
otocols (Remote Box) Miscellaneou	us (Local Box) System	Update		
teps: 1) Enter IP Address of the targe pecific settings and 4) Click on "Run Remote Device	± device, 2) Select proto Test" button.	ocol(s) from the list box	to verify for the given de	vice, 3) Provide proti
IP Address/Host Name:	100.96.26.26		✓ Ping First	
Test			-	
Select Protocol(s) :	Configure SNM	P Settings:		
Database	SNMP V2	Community Name:	public	
Dell EMC				
IPMI			Encryption	
Name Resolution	User Name:		Password:	
Port	Pageword:		450	
PowerVault Modular Disk Arrays	Fassword.		Protocol: DES	÷
Services	Protocol: S	HA1 A	000	
SNMP	L N	105		
SSH	Retries: 1	^ Timeout: 4	A seconda Part	161
WSMAN	neuco. 1	v mileour. 4	v seconds Foit.	v
ecution				
				Run Test
esult				
🕑 Off 🗙 🦷 🥭				
т.		0:40 DM Devices 40	0.00.00	
11	me: 20-08-2018 02:5	0:48 PM Device: 10	10.90.20.20	
Protocols Selected are:				
1. <u>SNMP</u>				
		SNMP		
CNMD V/2 Test				
SNMP VZ TESL		Dell		
MIB-II (System Name)				
MIB-II (System Name) PowerConnect 3000 (Product	Version)	9.10(0.1)		
MIB-II (System Name) PowerConnect 3000 (Product Dell EMC Networking (Firmwar	Version) e Version)	9.10(0.1) 9.10(0.1)		

Figure 52 Troubleshooting Tool: SNMP Test for Dell EMC Networking Device

	Dell EMC Troubleshoot	ing Tool	- 0	x
LLEMC Troublesho	poting Tool	Proxy Settin	ngs Reset Help	About
ocols (Remote Box) Miscellaneous ((Local Box) System Update			
eps: 1) Enter IP Address of the target of ecific settings and 4) Click on "Run Te Parente Davies	device, 2) Select protocol(s) from the est" button.	list box to verify for the given d	levice, 3) Provide pro	tocol
IP Address/Host Name:	100.96.26.154	✓ Ping First		
Fest				
Select Protocol(s) :	Configure WSMAN Settings	:		
Database Dell I EMC	User Name:	root		
ICMP IPMI	Password:	++++++		
Name Resolution OMSA Remote Enablement	Port	443 ^		
Port PowerVault Modular Disk Arrays	T OIL.		CN Check	
REST - GET		Reset SSL Certificate if	expired	
SNMP	Note: This is to te	st iDRAC, ESX WSMAN suppo	orted devices.	
MIMI MISMANI	Warning: SSL Certifi	cate reset will reset the iDRAC.		
WJMAN				
cution				
			Run Test	
ault) Off 🗙 😨 <i> </i>	: 20-08-2018 03:12:25 PM Devic	ce: 100.96.26.154	Run Test	1
Protocols Selected are:	: 20-08-2018 03:12:25 PM Devi d	se: 100.96.26.154	Run Test	
Sult Off X C Selected are: 1. WSMAN	: 20-08-2018 03:12:25 PM Devic WSMAN	ce: 100.96.26.154	Run Test	

Figure 53 Troubleshooting Tool: WS-Man Test for Dell Server

	Dell EMC Troubleshooting Tool 📃 🗖	х
DI Troublesho	ooting Tool Proxy Settings Reset Help	About
Protocols (Remote Box) Missellansour	(Loos Dav) Sustan Indata	
Steps: 1) Enter IP Address of the target of	device, 2) Select protocol(s) from the list box to verify for the given device, 3) Provide pro	locol
specific settings and 4) Click on "Run Te	est" button.	
IP Address/Host Name:	100 96 45 236	
n / La oco/ not riano.		
Test	5 p	
Select Protocol(s) :	Configure REST - GET Settings:	
Database Dell I EMC	MX Chassis Generic (only https)	
ICMP	URI:	
Name Resolution	e.g. : https://x.x.x.port/api/DeviceService/Devices	
Port	User Name: root	
REST - GET	Password:	
SNMP	Timeout: 60 🔶 seconds Retries: 2 🔶 Port: 443 🍨	
WMI		
Execution		
	Run Test	
Time		- I A
	e: 20-08-2018 03:04:04 PM Device: 100.96.45.236	
Drotocolo Soloctod area	e: 20-08-2018 03:04:04 PM Device: 100.96.45.236	
Protocols Selected are:	22-08-2018 03:04:04 PM Device: 100.96.45.236	
Protocols Selected are: 1. <u>REST - GET</u>	e: 20-08-2018 03:04:04 PM Device: 100.96.45.236	
Protocols Selected are: 1. <u>REST - GET</u>	e: 20-08-2018 03:04:04 PM Device: 100.96.45.236 REST - GET	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236/443/api/DeviceService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST-GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService	
Protocols Selected are: 1. <u>REST-GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST - GET</u>	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST-GET</u> REST	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService	
Protocols Selected are: 1. <u>REST-GET</u> REST	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST-GET</u> REST	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 Handshake successful	
Protocols Selected are: 1. <u>REST-GET</u> REST	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JopIcationService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService	
Protocols Selected are: 1. <u>REST-GET</u> REST	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 Handshake successful The target system has TLS 1.2 enabled. If OME is unable to discover this device, install the required updates on the system where OME is installed. For more details, see "Enabling support for TLS 1.1 or 1.2" at	
Protocols Selected are: 1. <u>REST-GET</u> REST	REST - GET Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/DeviceService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ManagementDomainService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/JobService TLS 1.2 Handshake successful Using TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/UpdateService TLS 1.2 for SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationService TLS 1.2 For SSL/TLS handshake for https://100.96.45.236:443/api/ApplicationS	

Figure 54 Troubleshooting Tool: REST Test for MX Chassis

Note—The displayed model name of VxFlex Ready Nodes is incorrect on the Troubleshooting Tool when an IPMI protocol test is run.

10 Proactive Support with Dell EMC SupportAssist Enterprise

The Dell EMC SupportAssist Enterprise plug-in for OpenManage Essentials proactively identifies hardware failures in your IT environment, and provides you with an efficient and personalized support experience. The Dell EMC SupportAssist Enterprise plug-in is bundled as part of the OpenManage Essentials installation package and can be installed from the package as required.

SupportAssist integrates with OpenManage Essentials to give you the added capabilities of secure remote monitoring so you know how your systems are performing at all times. SupportAssist is designed to help you manage your environment proactively with the following features:

- Detects and analyzes problems using automated data collection and diagnostics
- Helps accelerate resolution by automatically generating notifications and accurate case information with your Dell EMC Support team
- Provides parts replacement, as needed, directly from Dell EMC.

You can monitor Dell EMC Networking devices using Dell EMC SupportAssist Enterprise. The complete benefits of SupportAssist are available for devices with an active Dell EMC ProSupport Plus entitlement. For more information about SupportAssist, visit <u>Dell.com/supportassist</u>.

A Technical support and resources

Dell.com/support is focused on meeting customer needs with proven services and support.