

Commands for Virtual Audit on Dell EMC Compellent via Unisphere

What We Need

Output Specifications from your device to quote and onboard your spare.

Why This Matters

Learn what happens with the outputs retrieved and why we need the information from these commands at <u>PivIT's Sparing Integrity Program</u>.

Procedure

Following is the process for executing a Virtual Audit, which is required for us to provide the most accurate and competitively priced quote for your Compellent System. This process applies to the Dell Compellent systems utilizing Unisphere Central for SC Series and SCV Series.

The Virtual Audit may be performed by the Compellent system administrator or other individuals within your organization that is familiar with the Compellent system.

If desired, we can provide remote assistance to your staff when a Virtual Audit is needed. This assistance may be provided over the phone, where we will provide assistance to your local staff via a voice call, or via a remote desktop session where we will actually access your system via the network to remotely perform the Virtual Audit process below to collect all of the information that is needed.

We will use a remote desktop screen sharing software such as:

- TeamViewer
- Go To Meeting
- Join Me



Open a web browser and navigate to the IP address of your Compellent. Log into the Unisphere Central.

D&L	LEMC
Unisphere Cen © 2019 Del Inc. or its su	tral for SC Series beidiaries. Al Rights Reserved.
Admin	
✓ Remember Me	
1	.og In

On the left-hand pane Select the Storage Center you wish to Audit





Under "System" on the left-hand side, select Hardware



Select each of the controllers in the left-hand pane and take a screenshot of the controller's general information on the bottom screen.



ΙE OneHub . Maintenance . Sup Storage Centers 🗲 😼 SAN1 System Topology Model: CT-SC9000 Service Tag: 3QHL0T2 SN 54773 SN 54772 Physical Ports Cache Cards Fan Sensors Voltage Sensors Temp. Sensors 1504 2004 Cache Cards Fan Sensors j Voltage Sensor Configure IO Card Changes Set Thre Edit Se Y 🗉 igs Toggle In Temp. Sensors Local Port C Last Boot Time Power Supplies SN 547 **M**IN ao 14 2020 11 Enclosure - 1 Disks Fan Sensors Power Supplies IO Modules Temp. Sensors Enclosure - 2 SN 54773 × IPv6 Address DNS Informat IPv4 Address IPv4 Address 10.210.65.92 Service Tag 3QHL0T2 IPv6 Address Domain Name test.local Express Service Code 813-200-187-8 IPv4 Net Mask 255.255.255.0 IPv6 Address Prefix 64 DNS Server 10.210.10.9 Secondary DNS Server 10.210.10.10 7.4.2.103 IPv4 Gateway 10.210.65.1 IPv6 Gateway 116.39 GB BMC Interface wailable Me No

Next, select "Physical Ports" in the left-hand pane. Depending on your system, you may have ISCSI, Fibre, SAS, or any combination.



Now take a screenshot of all of the IO cards General Description by selecting a port on each of the card slots and taking a screenshot of the information on the bottom. Be sure to include all information for each card.

PIVIT Global

PI<u>Y</u>IT Global
ONECAI
— OneHub . Maintenance . Support —
Model: CT-SC9000 Service Tag: D99DJB

✓ SN 54772	- SN 54772							N	odel: C1-SC9000	Service Tag: D99	DJB2
Physical Ports Cache Cards Fan Sensors Voltage Sensors Temp, Sensors Power Supplies SN 54773 Physical Ports Cache Cards Cache Cards	2								50% 100%	Fiont Back 150%	
Fan Sensors Voltage Sensors	Set Thresh	olds									7 🛙
Temp. Sensors	Name			Status			Transport Type	WWN			
Power Supplies	500003100	0D5F440		Unknown			ISCSI	5000D31000D5F440			^
 Enclosure - 1 	500003100	0D5F409		🔽 Up			SAS	5000D31000D5F409			
Disks	500003100	0D5F40D		🗹 Up			SAS	5000D31000D5F40D			
Fan Sensors	500003100	0D5F407		Unknown			Fibre Channel	5000D31000D5F407			
Power Supplies	500003100	0D5F441		Unknown			ISCSI	5000D31000D5F441			
10 Modules	500003100	0D5F44E		Unknown			SAS	5000D31000D5F44E			
Temp. Sensors	500003100	0D5F44A		Unknown			SAS	5000D31000D5F44A			
 Enclosure - 2 	500003100	005E408		Unknown			Elize Channel	5000D31000D5E408			
Fan Sensors	500003100	ODSE446		Unknown			CAC	50000310000 SE 446			-
Power Supplies	- 500003100	ADDEEAAD		Unknown			0.0	5000031000055443			
	300003100	10.00 mm2		OTIVIDAT			34.5	3000031000031442			v
5000D31000D5F408											*
Slot 1		Preferred Controlle	54772	Initiator Count 0	Card Model	Qle2662					
Slot Port 1		Speed	Unknown	Target Count 0	Firmware Versio	n 08.07.00					
Description QLogic QLE2662 16G Fibre	Channel Adapter	Purpose	Unknown	Both Count 0	Revision	2					
				Map Count 0	NPIV Mode	Yes					
				inter count	Device Name	PCIDEVIII					
					Device Name	POIDEV09					
4							-				

Storage Centers 🗲 😪 SAN1

System	Topology										
¥ s	N 54772 A	SN 54772								Model: CT-SC9000 Service	Tag: D99DJB2
¥ \$	Cache Cards Fan Sensors Voltage Sensors Temp. Sensors Power Supples N 5473 Physical Ports Cache Cards Fan Sensors Voltana Sensors									From From Both 100H 1	50% 200%
	Voltage Sensors	Configure as Back	End Set Thresholds								Y 🛙
	Power Supplies	Name			Status			Transport Typ	pe WWN		
v 6	inclosure - 1	5000D31000D5F440			Unknown			ISCSI	5000D31000D5F4	40	^
	Disks	5000D31000D5F409			Up Up			SAS	5000D31000D5F4	19	
	Eno Canada	5000D31000D5F40D			🔽 Up			SAS	5000D31000D5F4	00	
	Parroensors Revue Susellas	5000D31000D5F407			Unknown			Fibre Channe	N 5000D31000D5F4	37	
	Power Supplies	5000D31000D5F441			Unknown			ISCSI	5000D31000D5F4	11	
	TO Modules	5000031000D5F44E			Unknown			SAS	5000D31000D5F4	ŧE	
	Temp. Sensors	5000D31000D5F44A			Unknown			SAS	5000D31000D5F4	4A	
Y E	nclosure - 2	5000D31000D5F408			Unknown			Fibre Channe	el 5000D31000D5F4	98	
	Fan Sensors	5000D31000D5F446			Unknown			SAS	5000D31000D5F4	46	
	Power Supplies	5000D31000D5F442			Unknown			SAS	5000D31000D5F4	\$2	
	10 Modules 🗸										
⊨ 50	00D31000D5F44E										*
Slot	2		Preferred Controller	54772	Initiator Count	Card M	fodel LsiSa	s9206Quad			
Slot Por	t 1		Speed	Unknown	Target Count	Firmwa	are Version 20.00	.11.00			
Descript	tion LSISAS9206-16e PCI-E SAS Qu	uad-Ext Port Adapter	Purpose	Unknown	Both Count 0	Revisio	on 5				
			PHY Status	Not Connected	Map Count 0	Device	Name 5000	D31000D5F400			





Select the Cache Cards and take a screenshot of the information.

≡	DELLEMC	Unispl	here	e Central for SC S	eries						() Tasks	🖵 Tell us what	you think!	🛓 Admin 🗸	e 75	~
	SAN1	*	St	orage Centers >	울 SAN1											
e por la constante da constante d	SUMMARY		Sy	vstem Topology												
9	STORAGE Volumes	~	•	SN 54772	×.	SN 54772							Model: CT-S	C9000 Service	Tag: D99DJB2	
	Servers Profiles Disks Storage Types SYSTEM	~	ľ	Figure 2 Cards Cach Cards Fan Sensors Voltage Sensors Temp. Sensors Reves Craelies										Front		
	Hardware Ports			 SN 54773 Physical Ports Cache Cards 									50%	Back		
•8•	DATA MOBILITY Imports Bandwidth Controls	Ý		Fan Sensors Voltage Sensors									_		<u></u>	
	MONITORING	~		Temp. Sensors		Name 📥	Status	Status Description	Cache Size	In Service Date	Port	1 Link Status	Por	t 2 Link Status		
				 Enclosure - 1 		Controller 54772 cache o	card 🗹 Up	Battery not installed	3.94 08	Feb 24, 2015 12:00:00 AM	⊡ uş		2	Jp	^^	
				Disks Fan Sensors Power Supplies IO Modules												
				Temp. Sensors												
*	REPORTS Realtime	~		 Enclosure - 2 Fan Sensors Power Supplies IO Modules Temp. Sensors 												
				Controller 54772 ca	che card										3	¥
				fodel Nvram irmware Version 4000028 iert None												

Once all of the controller information is gathered, we will need to obtain information about the enclosures. On the left-hand pane select an enclosure and take a screenshot. Repeat this process for all enclosures.

Storage Centers > 😸 SAI	N1			
✓ SN 54772	Enclosure - 1			Model: EN-SC420 Service Tag: D9G8JB2
Physical Ports Caohe Cards Fan Sensors Votage Sensors Power Supplies Sin S4775 Physical Ports Caohe Cards Fan Sensors				
Voltage Sensors Temo, Sensors	Edit Settings Toggle Indicator			7 8
Power Supplies	Name A St.	tus Critical Condition	Status Description	Status Message
Endospee-1 Data Data FanSensors Power Supplies ID Modules Temp. Sensors Enclosure -2 FanSensors Power Supplies ID Modules				
Enclosure - 1				*
Model EN-SC420 Service Tag D968JB2 Express Service Code 288-696-380-78 Type 126 SAS EBOD		Indicator On Ne Logical ID 5204747299484400 Asset Tag	More Details	



Next, we are going to obtain the disk information for the system. All the way on the left, select the "Summary" tab.



Next, you will need to expand on the ... toward the top of the center and select "Export Storage Usage"





Deselect all options from each tab except for the "Disk" option under the "Storage Center" tab, then hit "OK". This will generate an Excel sheet containing all of the information on the drives that are currently in use/spares within your Compellent array.

Export Storage	Usage Data	?	X Export Storage Usage Data ?	×				
Performing this op items starting fron statistics.	eration will export all S n when the Storage Cen	torage Usage data for the selected ter started gathering Storage Usage	Performing this operation will export all Storage Usage data for the selected items starting from when the Storage Center started gathering Storage Usage statistics.					
General Setting	s		General Settings					
Output Type	Comma Separated Va	lues (CSV)	Output Type Comma Separated Values (CSV)					
Convert Siz	ze Data into Units (byte:	s by default)	Convert Size Data into Units (bytes by default)					
Storage Usage	Options		Storage Usage Options					
Storage Center	Volume Server		Storage Center Volume Server					
Disk Class	lace	Disk Folder	Volume Volume Folder					
		Export Storage Usage D Performing this operation will e items starting from when the S	export all Storage Usage data for the selected torage Center started gathering Storage Usage					
		statistics.						
		General Settings						
		Output Type Comma Se	parated Values (CSV) V					
		Convert Size Data into U	Units (bytes by default)					
		Storage Usage Options						
		Storage Center Volume	Server					
		Server	Server Folder					
			OK Cancel					
			OK Cancer					

Rename the exported sheet "Disk Info (insert SN of Compellent here)". Please be sure that all images are not missing any information as this will cause a delay in the quotation. Share file with OneCall Support: <u>https://onecall.pivitglobal.com/file-upload/quote</u>