

Monitoring Dell Force10 Ethernet Switches Using Dell SupportAssist

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Introduction

Dell SupportAssist is a remote support application providing proactive support capabilities that help identify and resolve issues faster and more accurately. It integrates with Dell OpenManage Essentials, and enables transparent visibility to your server, storage, and networking infrastructure, and proactively identifies hardware failures in your IT environment.

SupportAssist is designed with automated proactive features to help streamline support process steps, maintain your systems' health, and identify hardware failures faster and more accurately.

The key features of SupportAssist include:

- Remote monitoring for critical hardware alerts.
- Automatic collection of diagnostic logs and configuration information.
- Automatic case creation and alert notifications through email.
- Proactive support from a ProSupport Engineer, who has the information required to start resolving your case immediately.

SupportAssist gives you more oversight and control over your environment without the hassle of manual processes and more time. Equipping your OpenManage Essentials server with SupportAssist is voluntary, recommended for ProSupport and ProSupport Plus contracts and results in improved support, products, and services designed to meet your needs.

OpenManage Essentials interacts with supported devices that are to be monitored and receives SNMP traps. The SNMP traps are periodically retrieved as alerts by the SupportAssist application. The alerts are filtered using various policies to decide if the alerts qualify for creating a new support case or updating an existing support case.

All qualifying alerts are securely sent to the SupportAssist server hosted by Dell, for creating a new support case or updating an existing support case. After the support case is created or updated, the SupportAssist application runs the appropriate collection tools on the devices that generated the alerts, and uploads the log collection to Dell.

The information in the log collection is used by Dell technical support to troubleshoot the issue and provide an appropriate solution.

This technical white paper provides information about monitoring Dell Force10 Ethernet switches using Dell SupportAssist. The following are the high-level areas covered:

- Steps to perform discovery and inventory
- Configuring credentials in SupportAssist for Force10 Ethernet switches
- Alert processing
- Case creation in SupportAssist for an alert
- Sending system logs manually

1 Discovery and inventory

Discovery and inventory aids understanding of what hardware and software are installed across your organization and is the most basic step to effective systems management. Areas such as license compliance, health monitoring, security and upgrades, and migrations all require the networked hardware to be available to the System Administrator on a single console to help ease the process. OpenManage Essentials provides these capabilities to initialize the discovery and inventory process and perform required actions on these devices.

1.1 Prerequisites

The following are the prerequisites for performing discovery and inventory:

Credentials: The discovery process in OpenManage Essentials communicates with the Force10 Ethernet switches using SNMP protocol. You will be required to provide the SNMP community string during the discovery process.

Force10 device setup: There are a few settings to be performed on the managed nodes to make them discoverable over the network. For more information, see the *Making Your Environment Manageable with Dell OpenManage Essentials* technical whitepaper at **delltechcenter.com/ome**.

1.2 Discovery range configuration

This section provides information about providing a discovery range for discovering devices in OpenManage Essentials.

- i. In OpenManage Essentials, navigate to Manage \rightarrow Discovery and Inventory. The Discovery Range Summary page is displayed.
- ii. Under Discovery Ranges, right-click All Ranges, and click Add Discovery Range.



DELL OPENMANAGE ESSENTIALS	I nep I Autor I.
Hone Manage Reports Prefer Discover Devices 23 Devices Device Search Discover Discovery Range Configuration 1/10 Discovery Portal Discovery Range Configuration 1/10 Discovery Range Configuration Discovery Range Configuration 1/10 Add Discovery Range Coup Add Cachade Range Specify IP address, range, or host name. Common Tasks ICMP Configuration Specify IP address or a range. The first octet cannot be zero. Specify a range (for example, 12-115) or wildcard(*) in the last two octets. Add Discovery Range Configuration SMP Configuration IP address / range:	

Figure 1 Discovery Range Wizard

iii. Specify the IP ranges of devices in the environment. The following are examples of valid IP ranges that you can provide.

	193.109.112.*
	193.104.20-40.*
IP Range	192.168.*.*
	192.168.2-51.3-91
	193.109.112.45-99
Hostname	WIN-17L2JS8
Single IP	193.109.112.99

Figure 2 Sample IP ranges

Additionally, an Import functionality provided in OpenManage Essentials helps with importing a Discovery Range which is defined in a .csv file format, as shown in Figure 3. The maximum numbers of devices that can be imported using this method is 500.

Name	Туре	Data
1750-win-r03-03	Host (A)	10.94.172.180
1750-win-r04-02	Host (A)	10.94.172.184
1850-win-r04-05	Host (A)	10.94.172.179
2650-win-r01-04	Host (A)	10.94.172.193
2800-W2K3	Host (A)	10.94.168.32
2850-win-r01-03	Host (A)	10.94.161.71
2900-win-r03-07	Host (A)	10.94.161.72
2970-esx	Host (A)	10.94.168.203
4600-WIN-R04-14	Host (A)	10.94.172.168

Figure 3 Sample .csv file

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The following example demonstrates adding a discovery range using SNMP protocol with the Add Discovery Range Wizard.

Discover Devices						
Discovery Range Configura	ation Discovery Range	Configuration	1/10			
Discovery Range Configuration	Specify IP addres	s, range, or host name.				
ICMP Configuration SNNP Configuration	Enter an IP address or a the last two octets.	range. The first octet cannot be zero. Specify	a range (for example, 12-115) or wildcard(*) in			
WMI Configuration	IP address / range:	10 . 94 . 100 . 103	Name : iDRAC			
Storage Configuration	O Host name:	İ	i II			
WS-Man Configuration	Subnet mask:	255 . 0 . 0 . 0]			
SSH Configuration	-	ii	ii Add Remove Import			
IPMI Configuration	IP Range / Host Name	Discovery Range Name Subnet Mask				
Discovery Range Action	10.94.100.*	255.255.255.0				
Summary						
Help			Cancel Next Finish			

Figure 4 Specifying an IP range

- i. In the **IP address/range** field, type the IP address range.
- ii. In the **Name** field, provide a range name (optional).
- iii. In the **Subnet mask** field field, type the correct subnet mask.
- iv. Click Add.

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- v. Repeat step i to step iii, to add more discovery ranges.
- vi. Click **Next** to proceed.



2 Discovering Force10 Ethernet switches

To discover Force10 Ethernet switches:

- i. In the **IP address/range** field, type the IP address range.
- ii. In the **Name** field, provide a range name (optional).
- iii. In the **Subnet mask** field, type the correct subnet mask.
- iv. Click Add.

NOTE: Repeat step i to step iii, to add more discovery ranges.

v. Click **Next** to proceed.

Discover Devices		23
Discovery Range Configura	tion Discovery Range Configuration	1/10
Discovery Range Configuration	Specify IP address, range, or host name.	
ICMP Configuration SNMP Configuration	Enter an IP address or a range. The first octet cannot be zero. Specify a range (for example, 12-11 the last two octets.	.5) or wildcard(*) in
WMI Configuration	IP address / range: 10 . 94 . 100 . 103 Name : iDRAC	
Storage Configuration	O Host name:	
WS-Man Configuration	Subnet mask: 255 . 0 . 0 . 0	
SSH Configuration	= iii Add Rem	ove Import
IPMI Configuration	IP Range / Host Name Discovery Range Name Subnet Mask	
Discovery Range Action	10.94.100. * 255.255.255.0	
Summary		
Help	Cancel	xt Finish

Figure 5 Specifying an IP range



- vi. In the SNMP Configuration screen, select the Enable SNMP discovery option.
- vii. Type the community name in the **Get community** field.

Discover Devices					
Discovery Range Configural	ion SNMP Conf	figuration	3/10		
Discovery Range Configuration	Specify the S	NMP settings for discovery.	?		
ICMP Configuration					
SNMP Configuration	Enable SNMP d	iscovery:			
WMI Configuration	Get community:	public			
Storage Configuration	Set community:				
WS-Man Configuration	Timeout:	4 seconds			
SSH Configuration	Retries:	2 attempts			
IPMI Configuration					
Discovery Range Action					
Summary					
Help	_	Cancel Back Next f	inish		

Figure 6 SNMP configuration screen

viii. Click **Next** to proceed with the default settings until the **Discovery Range Action** screen.

ix. In the **Discovery Range Action** screen, select one of the options, and click **Finish**.

Jiscover Devices					
Discovery Range Configuration	Discovery Range Action	9/10			
Discovery Range Configuration ICMP Configuration SNMP Configuration WMI Configuration Storage Configuration SSH Configuration IPMI Configuration Discovery Range Action Summary	pecify to initiate discovery, inventory, or both Do not perform discovery or inventory. Perform only discovery. Perform both discovery and inventory.				
Help	Cancel Back Next I	inish			

Figure 7 Discovery Range Action



2.1 Setting up SNMP on the switch for successful discovery

- 1. Log in to the Force10 switch.
- 2. Run the en command to enter exec mode.
- 3. Run the config command to enter configuration mode.
- 4. Run the following command to set the SNMP configuration: snmp-server community public rw
- 5. Run the following command to enable the traps: snmp-server enable traps
- 6. Run the exit command to exit the configuration mode.
- 7. Run the following command to copy the running configuration to the start-up configuration: copy running-config startup-config

2.2 Setting the trap destination on the Switch

- 1. Log in to the Force10 switch.
- 2. Run the en command to enter exec mode.
- 3. Run the config command to enter configuration mode.
- Run the following command to set the trap destination in the switch. snmp-server host <trap_Destination_IP> traps version <1|2c|3> public udpport 162
- 5. Run the exit command to exit the configuration mode.
- 6. Run the following command to copy the running configuration to the start-up configuration: copy running-config startup-config

The Force10 Ethernet switch you discovered is displayed in the device tree in OpenManage Essentials.



3 Configuring SupportAssist

After successful discovery of the Force10 Ethernet switches in OpenManage Essentials, the **Devices** tab in SupportAssist displays the Force10 Ethernet switches.

Device.	Inventory			
Nº LO	t Device Crédenthals 🌗 Sond Sur	tem loga	Filter By: Device Name	Apply filters Clear Filters C
	Device Name	Device Type	Service Tag	Collection Status
F	10.94.216.76	PowerVault Storage Device	456ABC	In Progress
Γ.	8-802-#r	PowerConnect Ethernet Switch	12348CD	
E .	D9PLT225	PowerVault Server	24PW1D1	
Г	idrec-32FVC25	PowerEdge Server Device	32FVC25	
Г	xdrac-HQXWC25	PowerEdge Server Device	HQKWC25	
Г	LASSO_4810	Force 10 Switch	151324)	Collection Uploaded
г	SupportAzsit	Equal opic Storage	10,1424/	
-	Seitch1	Force 10 Switch	BWORPT1	In Progress
E	VLT_UNITI	Force 10 Switch	FNPQ9T1	In Progress



3.1 Default Credentials

SupportAssist runs the appropriate collection tools and gathers the system logs from OpenManage Essentials-managed Dell server, storage, and networking devices. To run the collection tools on your Force10 Ethernet switches, you must configure SupportAssist with the Administrator credentials of the Force10 Ethernet switch.

To provide the Administrator credentials:

NOTE: The **Settings** tab is accessible only if you are logged on as a member of the OpenManage Essentials Administrators or Power Users group.

- i. Navigate to the **Settings** tab. By default, the **System Logs** page is displayed.
- ii. In the System Logs page, under Edit Device Credentials, select the Device Type as Switch.
- iii. In the Credential Type list, select Force10.



System Logs	Default Device Type Credentials					
	SupportAssist requires the Administrator credentias of each Devce Tyre to collect system logs. These oredentials are encrypted and saved locally. The Default Device Type Credentias are used to collect system logs, unless you edit the cevice-specific oredentab in the Devices tab.					
Proxy Settings	NOTE: If the device credentials are changes, ensure that you update the changes to the Default Davice Type Credentials as well NOTE: The device predentials are not required to collect system logs on DelPowerVault AD series storage devices.					
	Edit Device Type Credentials					
	Device Type Switch					
Preferences	Credencial Type Fcrce10					
	Username					
	Fassword					
Contract	Enable Password					
Information	🗌 Overwrite the device-specific credentials with the Default Device Type Credentials for all devices belonging to the current Device Type and Credential Type.					
	System Log Collection Schedule					
and a second sec						
Figure 9	Providing the device credentials					

NOTE: For Force10 Ethernet switches, the **Username**, **Password**, and **Enable Password** fields are optional. However, information must be provided for these fields if the Force10 Ethernet switch is configured with these details.

- iv. If applicable provide the username, password, and enable password in the appropriate fields.
- v. Click Save.

3.2 Custom Credentials

If you have more than one Force10 Ethernet switch, and the Administrator credentials of a particular Force10 Ethernet switch is different, you can configure the credentials for that Force10 Ethernet switch through the **Devices** tab.

To provide custom credentials:

i. In the **Devices** tab, select the appropriate Force10 Ethernet switch.

evice inv	ventory			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Edit D	Device Credentials Send System Logs		Filter By: Device Name	Apply Filters Clear Filters
	Device Name 🔺	Device Type	Service Tag	Collection Status
	10.94.100.240	PowerEdge Server Device	7SY2GY1	Collection Scheduled
~	LASSO-SA-E1200i	Force10 Switch	AM12G21	Collection Scheduled
	Lasso-5524	PowerConnect Ethernet Switch	CCF47M1	Collection Scheduled
	Lasso-Vmware-Group5110	EqualLogic Storage	FFG1D2S	Collection Scheduled
	RAC_1H7HD2S	PowerEdge Server Device	1H7HD2S	Collection Scheduled
	RAC_CH3SL9S	PowerEdge Server Device	CH3SL9S	Collection Scheduled
	SupportAssist1	EqualLogic Storage	6CV1B2S	Collection Scheduled
	WIN-GY2Y00CEM49	PowerEdge Server Device	J1RD32S	Collection Scheduled
	avires:			I ≪ Page 1 of 1 ⇒ ⇒



ii. Click Edit Device Credentials.

SupportAssist						
Edit Device Crede SWITCH - Force10	entials					
Device Name	VLT_UNIT2					
Username						
Password						
Enable Password						
		Save Changes	Cancel			

Figure 11 Edit Device Credentials screen

- iii. In the Edit Device Credentials screen, provide the Username, Password, and Enable Password as appropriate.
- iv. Click Save Changes.
- v. At the confirmation prompt, click **Yes**.

4 Alerts in OpenManage Essentials

Dell OpenManage Essentials administrators can monitor the health of discovered assets through a centralized, easy-to-use dashboard and through automated, custom alerts. The dashboard provides an at-a-glance view and a scoreboard displaying the health and well-being of the infrastructure.

4.1 Alert threshold

The alert threshold specifies under what conditions the alert should cause a support case to be created (or appended). The syntax resembles a programming method and optionally may take additional arguments to refine its behavior.

Currently there are two possible values:

- FirstMatch () The case should be created/appended each time this alert is detected.
- Occurs (count, duration) The case should be created/appended only when the alert has occurred so many times within a specified duration.

The duration argument of the Occurs threshold defines a relative time in days, hours, minutes, and seconds and is formatted as dd-hh:mm:ss. The following are some examples of the Occurs threshold and their descriptions

Example	Description
Occurs (5,1-00:00:00)	Create/append a case if the alert occurs 5 or more times within the previous 1 day
Occurs (3,0-05:00:00)	Create/append case if the alert occurs 3 or more times within the previous 5 hours
Occurs (8,1-12:00:00)	Create/append case if the alert occurs 8 or more times within the previous day and a half

Table 1 Examples of Occurs threshold

Valid duration values - Days: 0 to 365, Hours: 0 to 23, Minutes: 0 to 59, Seconds: 0 to 59

Policies which specify the Occurs () threshold instruct the SupportAssist server to retain the timestamps of each alert. With each new alert occurrence, the SupportAssist server evaluates if the number of alerts within the duration exceeds the count, and if so, creates/appends the case. The timestamps are discarded to ensure the Occurs () threshold will not append the case until an entirely new set of alerts are received which fulfills the criteria.

Policy Property	Description	Example
clientType	The type of client reporting the alert	"OME"
eventSourceType	The source of the alert	".1.3.6.1.4.1.6027.3.1.1.4"
trapld	The trap identifier	" 32"
eventld	The event identifier	(null)
severity	Severity of the alert	"MAJOR"
description	Description of the alert	"The agents generate this trap when a power supply major alarm is issued."
autoCase	Indicates if the alert should be processed	True
alertThreshold	Policy filter when the case is created	"FIRST MATCH()"
deltaSeverity	Severity code passed to delta	"3"

Table 2	Examples	of Policy	file	details
	LAUTIPICS	OF FORCY	nic	actans

Alerts with the following Enterprise OIDs for clientType OME are processed as alerts from Force10 Ethernet switches:

.1.3.6.1.4.1.6027.3.1.1.4 .1.3.6.1.4.1.6027.3.22.4 .1.3.6.1.4.1.6027.3.2.2.1 .1.3.6.1.4.1.6027.3.20.2 .1.3.6.1.4.1.6027.3.19.1.4

SupportAssist processes all the alerts with Force10 OIDs, but only some specified alerts are considered to create a case (Service Requests or SR) provided they have Auto Case as "Yes" as shown in the following policy table.

Table 3 Policy table with threshold

Name	Description	Trapid	Eventid	Severity	Autocase	Alert threshold	Resolution type
1.3.6.1.4.1.6027.3.1.1.4	Force10	32	(null)	Major	1	First Match()	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	36	(null)	Minor	1	First Match()	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	37	(null)	Warning	1	Occurs(10,0-05:00:00)	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	39	(null)	Warning	1	Occurs(10,0-05:00:00)	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	43	(null)	Major	1	Occurs(5,00-01:00:00)	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	44	(null)	Info	1	Occurs(5,00-01:00:00	FA



1.3.6.1.4.1.6027.3.1.1.4	Force10	45	(null)	Critical	1	First Match()	FA
.1.3.6.1.4.1.6027.3.1.1.4	Force10	56	(null)	Warning	1	FirstMatch()	FA
.1.3.6.1.4.1.6027.3.22.4	Force10	7	(null)	Normal	1	Occurs(5,0-01:00:00)	FA
.1.3.6.1.4.1.6027.3.2.2.1	Force10	1	(null)	Warning	1	Occurs(10,0-00:30:00)	FA
.1.3.6.1.4.1.6027.3.20.2	Force10	1	(null)	(null)	1	Occurs(10.0-00:05:00)	FA
.1.3.6.1.4.1.6027.3.20.2	Force10	2	(null)	Critical	1	Occurs(10.0-00:05:00)	FA
1 3 6 1 4 1 6027 3 19 1 4	Force10	5	(null)	Warning	1	FirstMatch()	FA
1 3 6 1 4 1 6027 3 19 1 4	Force10	8	(null)	Normal	1	FirstMatch()	FA
136141602731914	Force10	3	(null)	Warning	1	Occurs(5.0-01:00:00)	FA
136141602731914	Force10	1	(null)	Critical	1	FirstMatch()	FΔ
.1.3.6.1.4.1.6027.3.19.1.4	Force10	7	(null)	Critical	1	Occurs(5,0-01:00:00)	FA

Currently SupportAssist OpenManage Essentials (OME) 1.3 (release), supports the following Force10 Ethernet switches: MXL, S4820T, S50, Z9000, S5000, and S6000.

Limitation in S-series and M-Series devices

Due to a known limitation in the Force10 S-series and M-series devices, certain alerts from Force10 Sseries and M-series devices have been mapped in SupportAssist as generic alerts. When a support case is created because of these alerts, the alert description in the SupportAssist dashboard and the email notification may contain generic information which may not be indicative of the exact problem with the device.

The generic alert mapping is also applicable to Force10 E-series and C-series devices.

The following table provides a summary of the changes made to the policy table to handle these alerts. The changes have been made for OID .1.3.6.1.4.1.6027.3.1.1.4 and TrapIDs 1, 2, 3, 4, and 5.

Name	Description	Tranid	Eventid	Sougritu	Autocaco	Alort throshold	Resolution
Name	Description	парій	Eventia	Seventy	Autocase	Alert Infestiola	type
1.3.6.1.4.1.6027.3.1.1.4	Force10	1	(null)	Critical	1	First Match()	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	2	(null)	Normal	0	First Match()	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	3	(null)	Warning	1	Occurs(5,0-01:00:00)	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	4	(null)	Warning	0	Occurs(10,0-05:00:00)	FA
1.3.6.1.4.1.6027.3.1.1.4	Force10	5	(null)	Critical	1	First Match()	FA

Case creation and execution of the collection tool

SupportAssist processes all alerts from OpenManage Essentials, but a support case is created only if:

• The policies qualify the alert for a support case creation.

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• SupportAssist is configured to automatically generate support cases.

Once the support case is created for a Force10 Ethernet switch, the corresponding collection tool (Dell Lasso) is invoked, and the system log collection is generated and uploaded to Dell.

NOTE: For devices covered under Basic Support service contract type, the support case is not created, but the collection tools are invoked.

Case List							0
		Fitter	By: Case Numb	oer 💌		Apply Filters	Clear Filters
Case Status	Case Number	Case Title	Progress	Service Contract	Device Type	Service Tag	Date Opened
Submitted	800939881	WCG: OME PS FA 54810-01-64F Major-The agent generate this trap when a power supply major alarm is issued.	Collection Uploaded	ProSupport	Switch	55H892S	2/17/2013 8:27 AM
Display Case	s: ge 💌					ie ee Page	lof1 🗁 🖻

Figure 12 Support case created for a Force10 Ethernet switch



6 Configuring periodic collection

By default, SupportAssist generates the system log collection from Force10 Ethernet switches every week, and uploads the system log collection to Dell. You can modify the frequency at which the system log collection is generated as required.

To configure the periodic collection:

- i. Click the **Settings** tab.
- ii. Under Edit Device Type Credentials, select Device Type as Switch and Credential Type as Force10.
- iii. Under **System Log Collection Schedule**, select the frequency, date, and time as required.
- iv. Click Save Changes.

Edit Device Type C	redentials			
Device Type	Switch	•		
Credential Type	Force10	•		
Username				
Password				
Enable Password				
System Log Collect	tion Schedule			
Frequency	Weekly 💌			
Specify day and time	Recur every 1 🔽 week(s) on Mor	n 💌 at 12:00 💌 🗚 💌		
		Save Changes	Cancel	

Figure 13 Configuring periodic collection



Sending system logs manually (collection on demand)

When a support case is opened or updated, the SupportAssist application, runs the collection tools on the devices that generated the alerts, and then uploads the system logs to Dell. In certain conditions, if required by Dell technical support, you may be required to manually collect the system logs and send it to Dell.

To send the system logs manually:

i. Click the **Devices** tab.

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- ii. Select a Force10 Ethernet switch in the Device Inventory table.
- iii. Click Send System logs.

The collection tool (Dell Lasso) is invoked and the generated system log collection is uploaded to Dell.

Cases Devices Settings									
Edit	Edit: Device Name 💌 Apply Filters Clear Filters C								
	Device Name 🔺	Device Type	Service Tag	Collection Status					
	10.94.216.76	PowerVault Storage Device	1234567	Failed to Run					
P	B-8024f	PowerConnect Ethernet Switch	9PXRC4J						
Π	idrac-32FVC2S	PowerEdge Server Device	32FVC2S						
Γ	idrac-HQXWC2S	PowerEdge Server Device	HQXWC2S						
Γ	LASSO_4810	Force 10 Switch	8PXRC4J	Failed to Run					
Γ	SupportAssit	EqualLogic Storage	8DM3825	Collection Uploaded					
Γ	Switch1	Force 10 Switch	8W0R9T1	Failed to Run					
Γ	VLT_UNIT1	Force 10 Switch	123456	Failed to Run					
Display D 50 per	Display Devices: 50 per page V								

Figure 14 Sending system logs manually

7.1 Troubleshooting Send System Logs failure

The generation and upload of system logs to Dell may fail due to:

- Authentication failure (incorrect credentials): Verify the credentials provided for the switch
- in SupportAssist. If required, update the credentials using the Edit Device Credentials option.
- DNS failure: Add a host entry in the host file (/etc/host entry).

You can also check the log file in the installation folder for more details on the failure.

SupportAssist						
Edit Device Credentials SWITCH - Force 10						
Device Name	VLT_UNIT2					
Username						
Password						
Enable Password						
		Save Changes	Cancel			

Figure 15

Edit Device Credentials screen

Conclusion

Dell SupportAssist identifies hardware failures on supported devices quickly and more accurately. It automates and streamlines the support process steps without much interaction from your side. With SupportAssist, integrated with OpenManage Essentials 1.3 (release), you have a single systems management console to remotely monitor and manage your environment, giving you instant insight into how your systems are performing at all times.

