

Integrate Dell PowerConnect Switch

EventTracker v8.x and above

Abstract

This guide provides instructions to forward syslog generated by Dell PowerConnect N20XX series to EventTracker. EventTracker is configured to collect and parse these logs to generate reports.

Scope

The configurations detailed in this guide are consistent with **EventTracker Enterprise** version 8.x and later, and **Dell PowerConnect N20XX series**.

Audience

IT Admins, Dell PowerConnect switch administrators and EventTracker users who wish to forward logs to EventTracker Manager and monitor events using EventTracker Enterprise.

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Overview

Dell PowerConnect is switch series. EventTracker integrates with Dell PowerConnect switches using Syslog and provides reports, alerts and knowledge objects.

Prerequisites

- EventTracker v8.x or above should be installed.
- Dell PowerConnect switches should be configured for forwarding logs.
- Firewall Exception on port 514

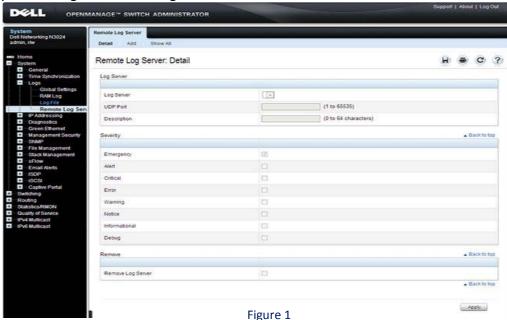
Configure Dell PowerConnect Switches to forward logs to EventTracker

Dell PowerConnect switches supports forwarding logs to EventTracker via syslog.

Configuration to enable Syslog forwarding

Logs can be configured to be forwarded to EventTracker through the Remote Log Server page. To display the Remote Log Server page,

- Login to OPENMANAGE portal.
- Click System→Logs→Remote Log Server





Adding EventTracker Server

To add an EventTracker syslog server:

- o Open the Remote Log Server page.
- Click Add to display the Add Remote Log Server page.
- o Specify the IP address of EventTracker.
- Select the severity of the messages to send to the EventTracker.
- o Click Apply.

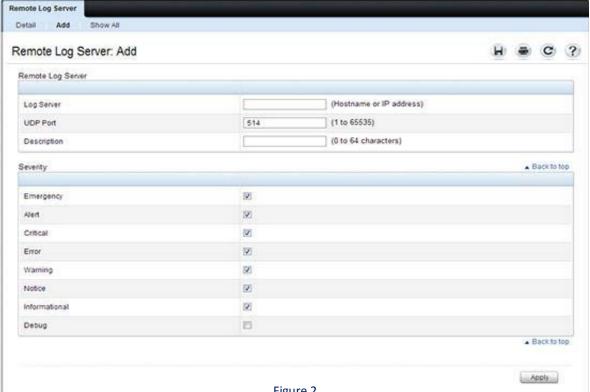


Figure 2

Click the **Show All** link to view or remove remote log servers configured on the system.



Figure 3



EventTracker Knowledge Pack (KP)

Once logs are received into EventTracker, Categories and Reports can be configured into EventTracker. The following Knowledge Packs are available in EventTracker Enterprise.

Categories

- **Dell PowerConnect Login and logout** This category based report provides information related to all the login and logout activities.
- **Dell PowerConnect Port status change** This category based report provides information related to all the port status changes.
- **Dell PowerConnect Authentication failures** This category based report provides information related to all the authentication failures.

Alerts

• **Dell PowerConnect: Authentication failures**: This alert is generated when any authentication failure occurs.

Flex Reports

• **Dell PowerConnect** - **Login and logout** - This report provides information related to all the login and logout activities.

Computer	User IP Address	Username	Action	
POWERCONNECT	192.168.56.36	it1admin	logged out	
POWERCONNECT	192.168.2.16	it1admin	logged in	
POWERCONNECT	192.168.56.36	David	logged in	

Figure 4



Logs considered:

- Apr 16 03:12:17 PM	Apr 09 21:08:17 10.9.100.1 < 190> Aug 16 13:24:27 Back Office network-1 CLI_WEB[emWeb]: cmd_logger_api.c(260) 6699526 %% [CLI:it1admin:10.11.5.48] User it1admin logged in to
action	+- logged in
event_category	+- 0
event_computer	+- PowerConnect
event_datetime	+- 4/16/2018 3:12:17 PM
event_datetime_utc	+- 1523871737
event_description	Apr 09 21:08:17 10.9.100.1 < 190 > Aug 16 13:24:27 Back Office network-1 CLI_WEB[emWeb]: cmd_logger_api.c(260) 6699526 %% [CLI:it1admin:10.11.5.48] User it1admin logged in to
	enable mode.
event_id	4- 3333
event_log_type	+- Application
event_source	+- syslog
event_type	+- Information
event_user_domain	+- N/A
event_user_name	+- N/A
log_source	+- Dell PowerConnect LoginILogout
service_name	+- Back Office network
src_ip_address	4- 10.11.5.48
src_user_name	4- itladmin

Figure 5

• **Dell PowerConnect** - **Port status change** - This report provides information related to all the port status changes.

LogTime	Computer	Port	State
04/16/2018 11:50:02 AM	POWERCONNECT	Gi1/0/7	Link Up
04/16/2018 11:50:02 AM	POWERCONNECT	Gi1/0/7	Link Down
04/16/2018 11:50:02 AM	POWERCONNECT	Gi1/0/7	Link Up
04/16/2018 11:50:02 AM	POWERCONNECT	Gi1/0/7	Link Down
04/16/2018 11:50:02 AM	POWERCONNECT	Gi1/0/7	Link Up

Figure 6

Logs considered:

- Apr 16 03:12:16 PM	Apr 09 21:08:24 10.9.100.1 Apr 9 21:08:24 DELL_N20xx_Core_Stack-1 TRAPMGR[trapTask]: traputil.c(721) 65729 %% Link Up: Gi1/0/6
event_category	+- 0
event_computer	+ - PowerConnect
event_datetime	+- 4/16/2018 3:12:16 PM
event_datetime_utc	+- 1523871736
event_description	Apr 09 21:08:24 10.9.100.1 Apr 9 21:08:24 DELL_N20xx_Core_Stack-1 TRAPMGR[trapTask]: traputil.c(721) 65729 %% Link Up: Gi1/0/
event_id	+- 3333
event_log_type	+- Application
event_source	+- syslog
event_type	+- Information
event_user_domain	+- N/A
event_user_name	+- N/A
log_source	+- Dell PowerConnect Port Status
log_status	+- Link Up
src_host_name	+- DELL N20xx Core Stack

Figure 7



• **Dell PowerConnect - Authentication failures** - This report provides information related to all the user authentication failures.

LogTime	Computer	Username	Action	Reason
04/16/2018 12:16:46 PM	POWERCONNECT	David	Failed to login	authentication failures
04/16/2018 12:17:10 PM	POWERCONNECT	it1admin	Failed to login	authentication failures
04/16/2018 12:17:10 PM	POWERCONNECT	David	Failed to login	authentication failures
04/16/2018 03:09:44 PM	POWERCONNECT	it1admin	Failed to login	authentication failures
04/16/2018 03:09:44 PM	POWERCONNECT	David	Failed to login	authentication failures
04/16/2018 03:09:49 PM	POWERCONNECT	it1admin	Failed to login	authentication failures
04/16/2018 03:12:14 PM	POWERCONNECT	it1admin	Failed to login	authentication failures
04/16/2018 03:12:14 PM	POWERCONNECT	David	Failed to login	authentication failures
04/16/2018 03:12:18 PM	POWERCONNECT	it1admin	Failed to login	authentication failures

Figure 8

Logs considered:



Figure 9

Import Dell PowerConnect Switches Knowledge Pack into EventTracker

NOTE: Import knowledge pack items in the following sequence:

- Categories
- Knowledge Objects
- Alerts
- Token Templates
- Flex Reports



Import Categories

• Launch EventTracker Control Panel.



Figure 10

- Double click Export Import Utility, and then click the Import tab.
- Click Category option, and then click the browse button.

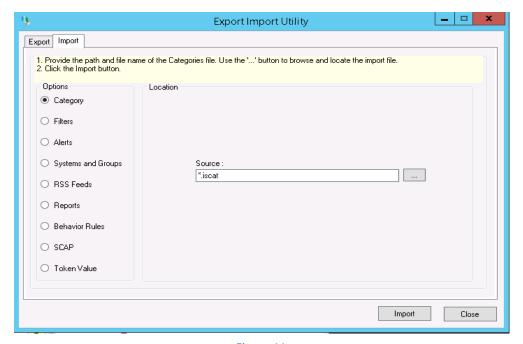


Figure 11

- Locate the **Categories_DellPowerConnect.iscat** file, and then click the **Open** button.
- To import categories, click the Import button.



EventTracker displays success message.



Figure 12

• Click **OK**, and then click the **Close** button.

Import Alerts

1. Click **Alert** option, and then click the **browse** button.

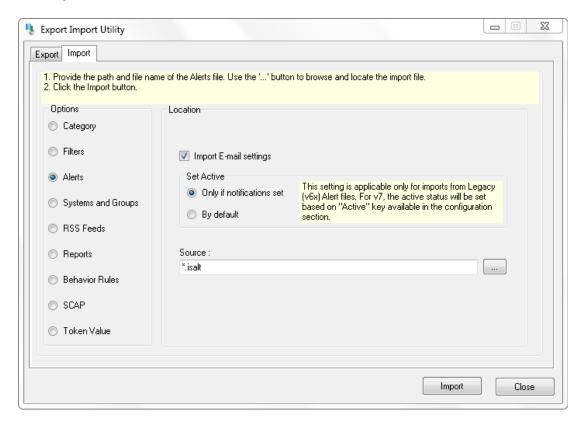


Figure 13

- 2. Locate **DellPowerConnect_Alerts.isalt** file, and then click the **Open** button.
- To import alerts, click the **Import** button. EventTracker displays success message.





Figure 14

4. Click the **OK** button, and then click the **Close** button.

Import Knowledge Objects

- Click **Knowledge objects** under **Admin** option in the EventTracker Manager page.
- Click Browse.
- Locate the KO_ DellPowerConnect.etko file



Figure 15

Now select all the files and then click on Upload.



Figure 16

Knowledge objects are now imported successfully.



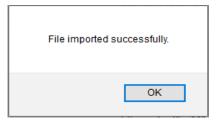


Figure 17

Import Token Templates

- Logon to EventTracker Enterprise.
- Click the Admin menu, and then click Parsing Rules.
- Select Template tab, locate the Token_Template_DellPowerConnect.ettd file.
- Click on the **Import** icon.

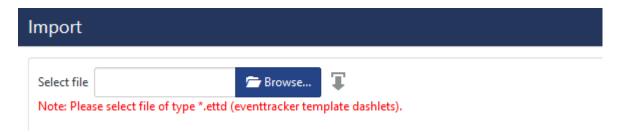


Figure 18



Figure 19

Templates are now imported successfully.



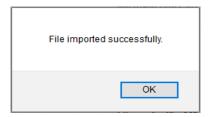


Figure 20

Import Flex Reports

- Launch EventTracker Control Panel.
- Double click Export Import Utility, and then click the Import tab.



Figure 21

Click Reports option, and select new (.etcrx) option.

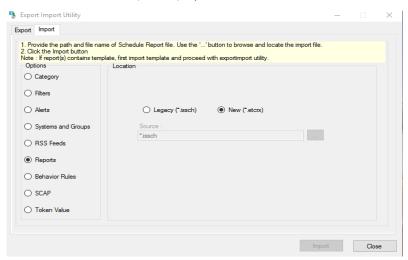


Figure 22

• And then locate the file.



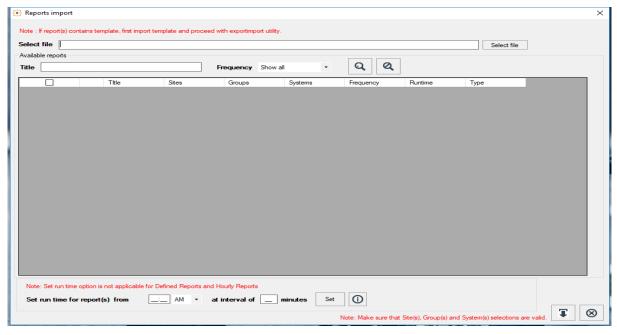


Figure 23

Locate the file named FlexReports_DellPowerConnect.etcrx and select all the check box.

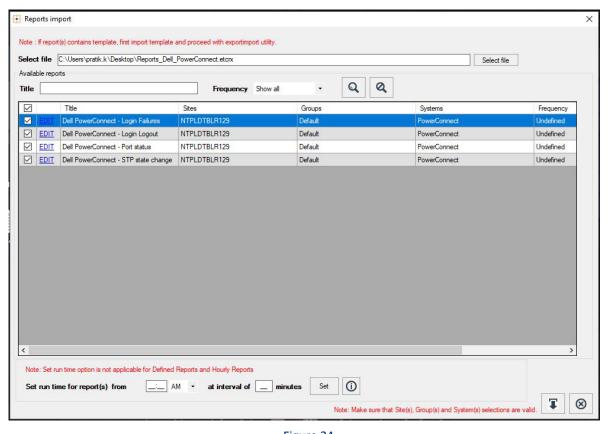


Figure 24



• Click the Import button to import the reports. EventTracker displays success message.

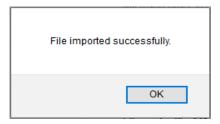


Figure 25

Verify Knowledge Pack in EventTracker

Verify Category

- 1. Logon to EventTracker Enterprise.
- 2. Click the Admin menu, and then click Category.
- In Category Group Tree to view imported category, scroll down and click Dell PowerConnect group folder.

Categories are displayed in the pane.

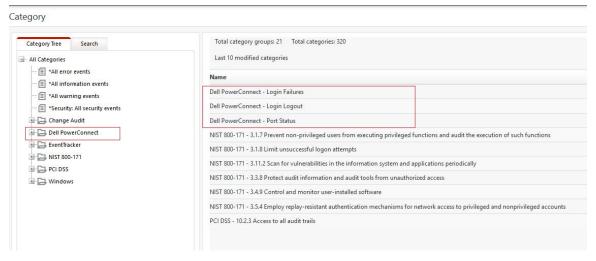


Figure 26

Verify Alerts

1. Logon to EventTracker Enterprise.



- 2. Click the Admin menu, and then click Alerts.
- 3. In the **Search** box, type **"Dell PowerConnect"**, and then click the **Go** button. Alert Management page will display all the imported alerts.



Figure 27

4. To activate the imported alerts, select the respective checkbox in the **Active** column.

EventTracker displays message box.



Figure 28

5. Click **OK**, and then click the **Activate Now** button.

NOTE: Please specify appropriate **systems** in **alert configuration** for better performance.

Verify Knowledge Object

- 1. Logon to **EventTracker Enterprise**.
- 2. Click the Admin menu, and then click Knowledge Object.
- In Knowledge Object Group Tree to view imported knowledge object, scroll down and click Dell
 PowerConnect group folder.

Knowledge Object are displayed in the pane.



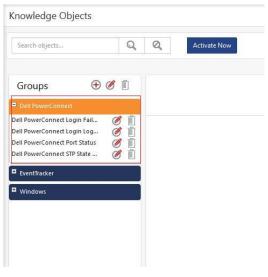


Figure 29

Verify Token Templates

- 1. Logon to EventTracker Enterprise.
- 2. Click the **Admin** menu, and then click **Parsing Rules**.
- In Parsing Rules select Template, scroll down and click Dell PowerConnect group folder
 Token templates are displayed in the pane.

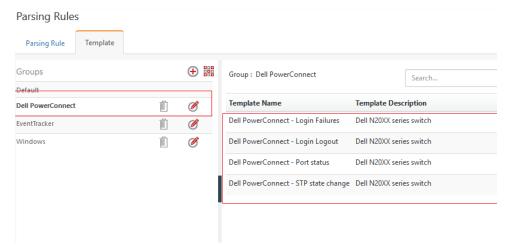


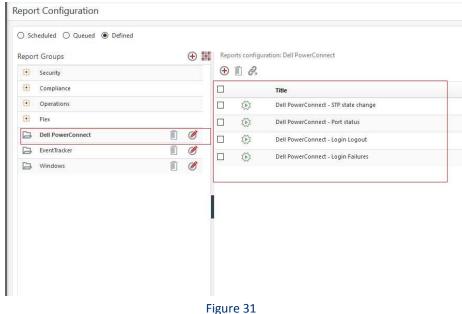
Figure 30

Verify Flex Reports

- 1. Logon to EventTracker Enterprise.
- 2. Click the **Reports** menu, and then **Configuration**.



- 3. Select **Defined** in report type.
- 4. In Report Groups Tree to view imported Scheduled Reports, scroll down and click Dell PowerConnect group folder.



5. Reports are displayed in the Reports configuration pane.

NOTE: Please specify appropriate **systems** in **report wizard** for better performance.

Create Dashboards in EventTracker

NOTE: This is applicable for EventTracker 8.3. For EventTracker 9.x, import the dashboards (.etwd file).

Schedule Reports

1. Open EventTracker in browser and logon.

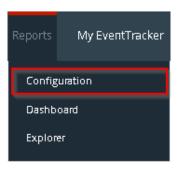


Figure 32



2. Navigate to Reports>Configuration.

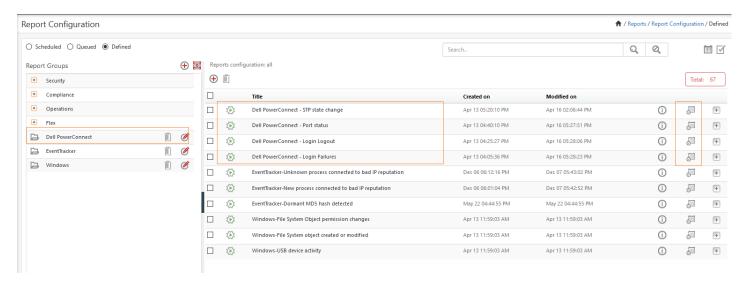


Figure 33

- 3. Select **Dell PowerConnect** in report groups. Check **Defined** dialog box.
- 4. Click on 'schedule' to plan a report for later execution.
- 5. Choose appropriate time for report execution and in **Step 8** check **Persist data in Eventvault explorer** box.

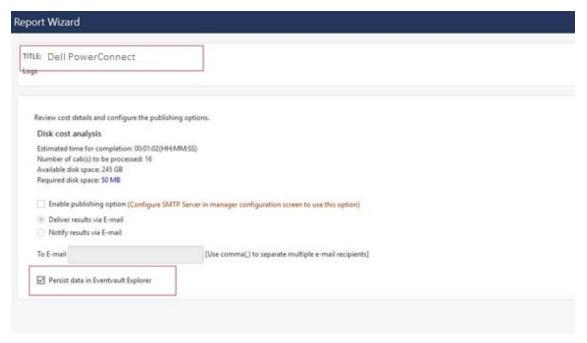


Figure 34



- 6. Check column names to persist using **PERSIST** checkboxes beside them. Choose suitable **Retention period**.
- 7. Proceed to next step and click **Schedule** button.
- 8. Wait for scheduled time or generate report manually.

Create Dashlet

1. Open EventTracker in browser and logon.

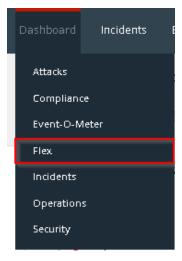


Figure 35

Navigate to Dashboard>Flex Dashboard pane is shown.

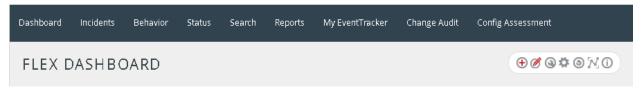


Figure 36

3. Click to add a new dashboard.
Flex Dashboard configuration pane is shown.



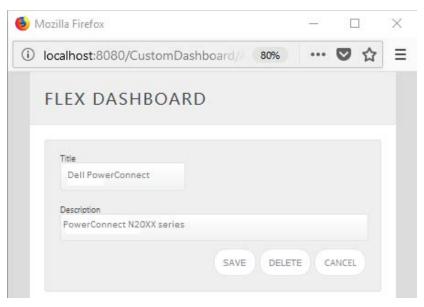


Figure 37

- 4. Fill fitting title and description and click **Save** button.
- 5. Click to configure a new flex dashlet. Widget configuration pane is shown.

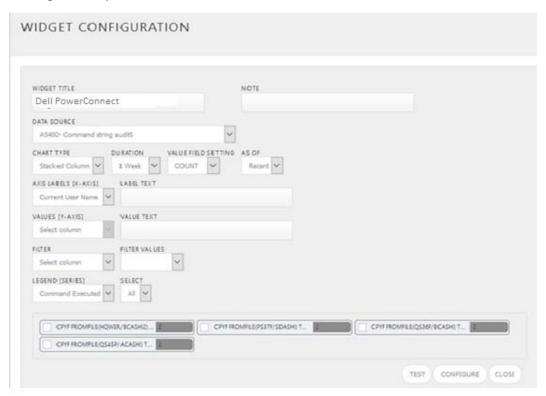


Figure 38

6. Locate earlier scheduled report in **Data Source** dropdown.



- 7. Select **Chart Type** from dropdown.
- 8. Select extent of data to be displayed in **Duration** dropdown.
- 9. Select computation type in Value Field Setting dropdown.
- 10. Select evaluation duration in As Of dropdown.
- 11. Select comparable values in **X Axis** with suitable label.
- 12. Select numeric values in Y Axis with suitable label.
- 13. Select comparable sequence in **Legend**.
- 14. Click **Test** button to evaluate. Evaluated chart is shown.
- 15. If satisfied, Click Configure button.
- 16. Click 'customize' (a) to locate and choose created dashlet.
- 17. Click \oplus to add dashlet to earlier created dashboard.

Import Dashlet

In EventTracker 9.0, we have added new feature which will help to import/export of dashlet. Following is procedure to do that:

1. Login into EventTracker Enterprise Web console.



Figure 39

2. Go to My Dashboard option.





Figure 40

3. Click on import button and select Dell **PowerConnect.etwd** File.

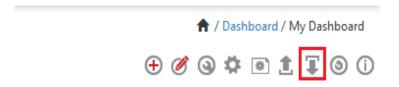


Figure 41

4. Click upload icon and select Dashboard which you want to import.



Figure 42



5. Click on **Import** button. It will upload the selected dashboard.

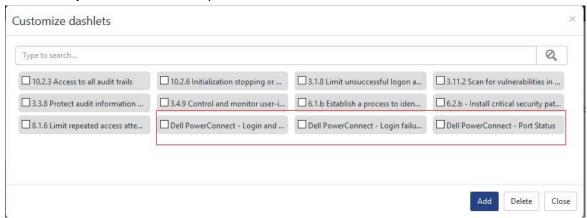


Figure 43

Sample Dashboards

REPORT: Dell PowerConnect - Login failures
 WIDGET TITLE: Dell PowerConnect - Login failures

CHART TYPE: Donut

AXIS LABELS [X-AXIS]: Source user name



Figure 44



REPORT: Dell PowerConnect - Login and Logout
 WIDGET TITLE: Dell PowerConnect - Login failures

CHART TYPE: Donut

AXIS LABELS [X-AXIS]: Source user name

LEGEND [SERIES]: Action



Figure 45



• REPORT: Dell PowerConnect – Port Status Changes

WIDGET TITLE: Dell PowerConnect – Port Status Changes

CHART TYPE: Donut

AXIS LABELS [X-AXIS]: Port Status Changes

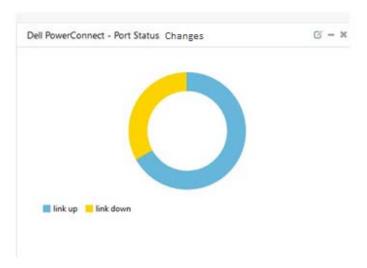


Figure 46

