

# Integrate A10 ADC

## Abstract

This guide provides instructions to configure A10 ADC to send the event logs to EventTracker Enterprise. Once events are configured to send to EventTracker Manager, alerts, dashboards and reports can be configured into EventTracker.

## Scope

The configurations detailed in this guide are consistent with **EventTracker** version 7.X and later, and A10 Application Delivery Controller AX/Thunder Series with ACOS 4.0 or later.

## Audience

A10 ADC users, who wish to forward event logs to EventTracker Manager and monitor events using EventTracker SIEM.

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# Table of Contents

Abstract .....	1
Scope .....	1
Audience .....	1
Overview.....	4
Prerequisites.....	4
Enable Syslog forwarding on A10 ADC .....	4
Configure Syslog Server .....	4
Configure ADC Logging .....	5
aFlex Script for ADC Logging.....	5
EventTracker Knowledge Pack (KP).....	8
Categories.....	8
Alerts .....	8
Reports .....	8
Knowledge Objects.....	9
Import Knowledge Pack into EventTracker.....	9
Import Categories.....	10
Import Alerts .....	11
Import Tokens .....	12
Import Flex Reports.....	13
Import Token Templates .....	14
Import Knowledge Object .....	16
Verify Knowledge Pack in EventTracker .....	18
Verify Categories .....	18
Verify Alerts .....	18
Verify Tokens .....	19
Verify Flex Reports .....	20
Verify Token Templates.....	21
Verify Knowledge Object.....	21

Create Dashboards in EventTracker .....	23
Schedule Reports.....	23
Create Dashlets .....	25
Sample Reports .....	29
Sample Dashboards.....	30

## Overview

A10 Application Delivery Controller provides application availability and reliability by offering advanced server load balancing and flexible health monitoring capabilities. EventTracker examines imperative logs and leverages machine learning to identify application delivery traffic, configuration changes, user behavior and load balance events.

## Prerequisites

- EventTracker v7.x and later should be installed.
- A10 Application Delivery Controller **AX/Thunder Series** running **ACOS 4.0** or later should be installed.

## Enable Syslog forwarding on A10 ADC

### Configure Syslog Server

1. Log into the A10 ADC web UI.
2. Select **Config > System > Settings**.
3. In the menu bar, select **Log**.
4. In the **Log Server** field, enter the IP address of your EventTracker Manager.
5. Ensure that the **Log Server Port** is set to **514**.
6. Leave all other settings at their default values.
7. Click **OK**.



Figure 1

**NOTE:** Please add **port 514** to firewall exception, if applicable.

## Configure ADC Logging

1. Log into the A10 ADC web UI.
2. Navigate to **Config Mode > Service > aFleX**.
3. Type in **aFleX script** given below and **Save**.

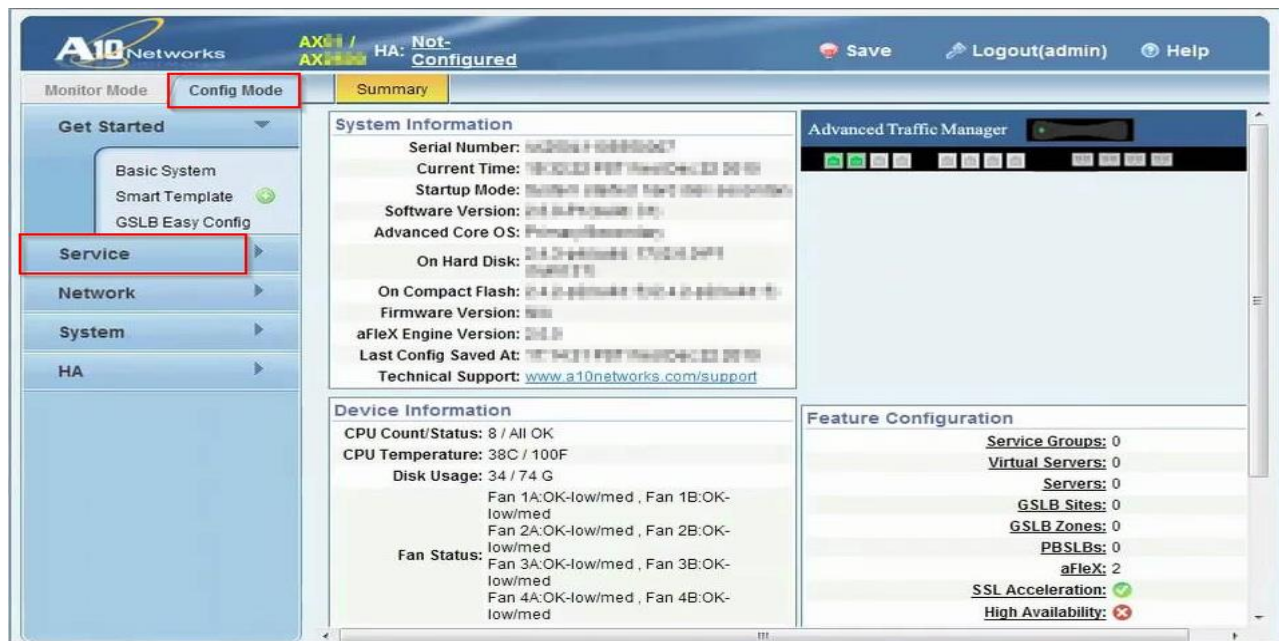


Figure 2

## aFlex Script for ADC Logging

To configure **application delivery logs** use the aFlex Script given below:

```
when HTTP_REQUEST {
# Set strings for the "client side"
set time_client_request [clock seconds]
set clicks_client_request [clock clicks -milliseconds]
set date_time_request [clock format $time_client_request -format {%Y-%m-%d %H:%M:%S} ]
set c_ip [IP::client_addr]
set cs_uri_stem [HTTP::host][HTTP::uri]
set cs_method [HTTP::method]
```

```

set s_ip [IP::local_addr]
set s_port [TCP::local_port]
set host [HTTP::host]
set vip_ip [IP::local_addr]
set vip_port [TCP::local_port]
if {[HTTP::query] equals ""} {
set cs_uri_query [HTTP::query]
} else { set cs_uri_query "-"
}
if {[HTTP::header exists Content-Length]} {
set cs_bytes [HTTP::header Content-Length]
} else { set cs_bytes "-"
}
if {[HTTP::header exists Referer]} {
set cs_Referer [HTTP::header "Referer"]
} else { set cs_Referer "-"
}
set cs_UserAgent [string map {" " "+"} [HTTP::header "User-Agent"]]
}
when HTTP_RESPONSE {
# Set strings for the "server side"
set clicks_server_response [clock clicks -milliseconds]
set sc_status [HTTP::status]
if {[HTTP::header exists Content-Length]} {
set sc_bytes [HTTP::header Content-Length]
} else { set sc_bytes "-"
}
}

```

```
# Correct TCL Bug with floating point values
```

```
set time_taken [expr $clicks_server_response - $clicks_client_request ]
```

```
if {$time_taken < 10} {
```

```
set final_time_taken [string range "0.00$time_taken" 0 4]
```

```
} elseif { $time_taken < 100 } {
```

```
set final_time_taken [string range "0.0$time_taken" 0 4]
```

```
} elseif { $time_taken < 1000 } {
```

```
set final_time_taken [string range "0.$time_taken" 0 4]
```

```
} else {
```

```
set final_time_taken "[string index $time_taken 0].[string range $time_taken 1 3 ]"
```

```
}
```

```
# Format strings for logging
```

```
set log_str "$date_time_request $c_ip $s_ip $s_port $cs_method $cs_uri_stem $cs_uri_query $vip_ip  
$vip_port $sc_status $sc_bytes $cs_bytes $final_time_taken $cs_UserAgent $cs_Referer"
```

```
# write to syslog with Debug level
```

```
log local0.7 $log_str
```

```
# write to AX log (turn this for troubleshooting only, as you may have a lot of requests / second)
```

```
# log $log_str
```

```
}
```



## EventTracker Knowledge Pack (KP)

Once logs are received in EventTracker; categories, alerts, reports and dashboards can be configured in EventTracker.

The following Knowledge Packs are available in EventTracker v7 and later to support A10 ADC monitoring:

### Categories

- **A10 ADC: Configuration Change** - This category based report provides information related to configuration changes using GUI or CLI.
- **A10 ADC: HA Events** - This category based report provides information related to high availability events.
- **A10 ADC: Management Service Status** - This category based report provides information related to change in management service status.
- **A10 ADC: Port Status Change** - This category based report provides information related to change in port or trunk status.
- **A10 ADC: Radius Server Error** - This category based report provides information related to radius server error.
- **A10 ADC: SLB Server Status** - This category based report provides information related to change in load balancing server status.

### Alerts

- **A10 ADC: Configuration Change** - This alert is generated when configuration is added, deleted or modified.
- **A10 ADC: User Authentication Failed** - This alert is generated when user authentication fails.

### Reports

- **A10 ADC - Application Delivery Traffic Details:** This report provides information related to application servers accessed by various clients with application usage details.
- **A10 ADC - Console Logon Success Details:** This report provides information related to users accessing the ADC console with admin privileges.
- **A10 ADC - User Authentication Failure Details:** This report provides information related to failed user authentication attempts.

## Knowledge Objects

- **A10 ADC - Application Delivery Traffic Details:** This KO assists in evaluating application delivery controller traffic.
- **A10 ADC - Console Logon Success Details:** This KO assists in tracking console logon success events.
- **A10 ADC - User Authentication Failure Details:** This KO assists in identifying user authentication failure events.

## Import Knowledge Pack into EventTracker

1. Launch **EventTracker Control Panel**.
2. Double click **Export/Import Utility**, and then click the **Import** tab.

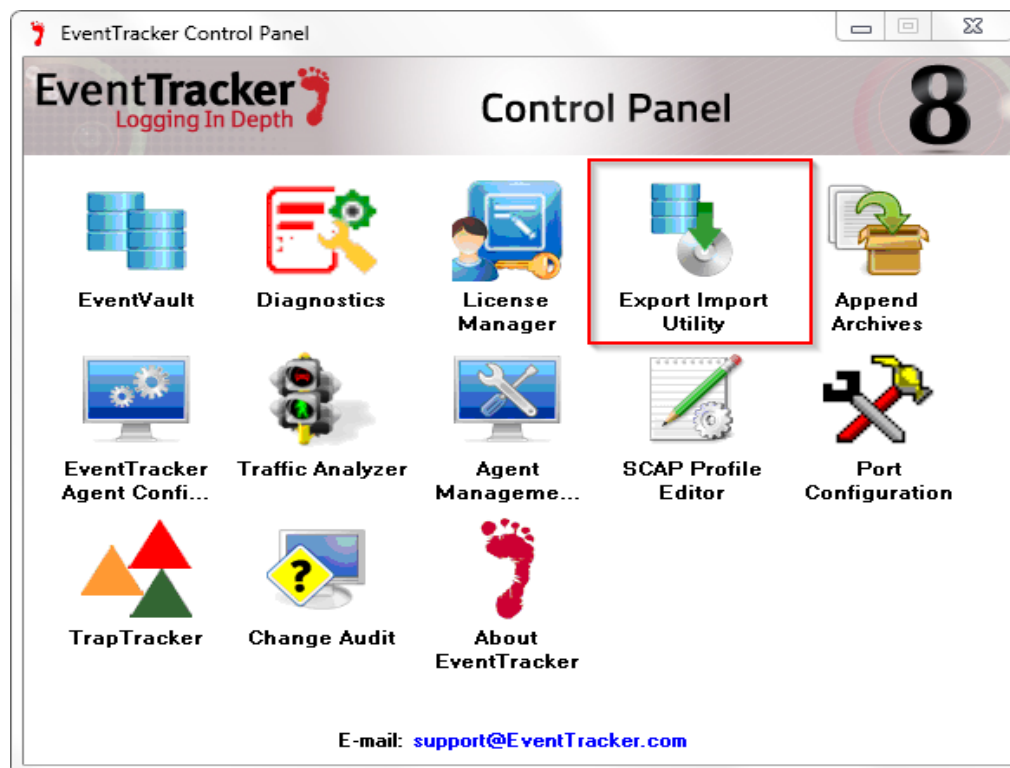



Figure 3

3. Import **Category/Alert/Tokens/Templates/Flex Reports/Knowledge Object** as given below.

## Import Categories

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

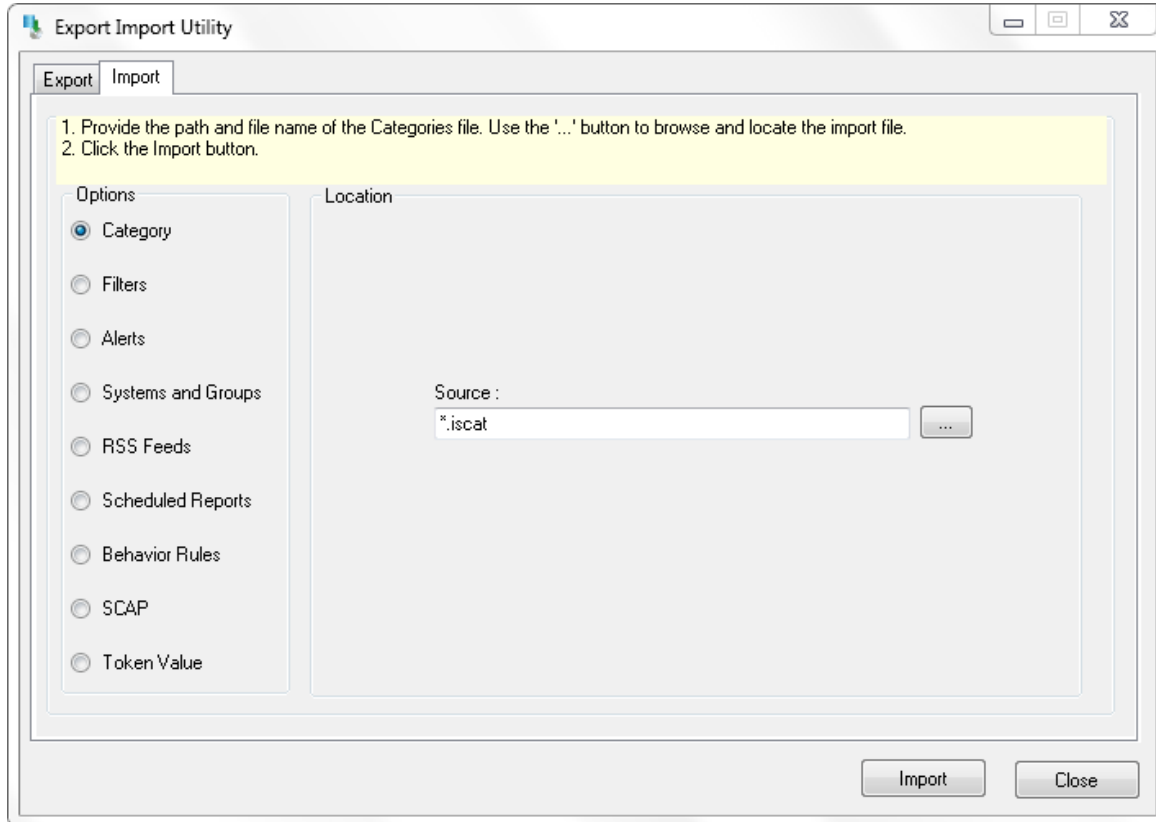


Figure 4

2. Locate **All A10 group categories.iscat** file, and then click the **Open** button.
3. To import categories, click the **Import** button.  
EventTracker displays success message.

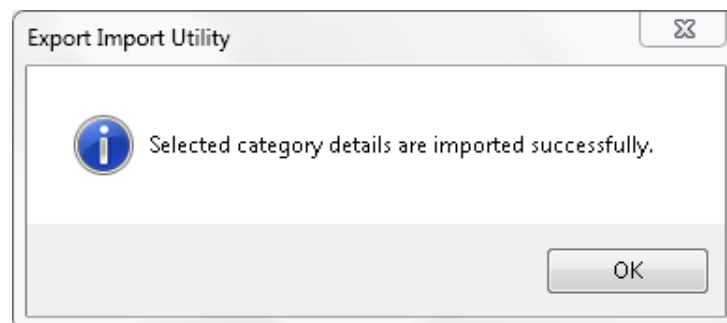



Figure 5

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

## Import Alerts

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

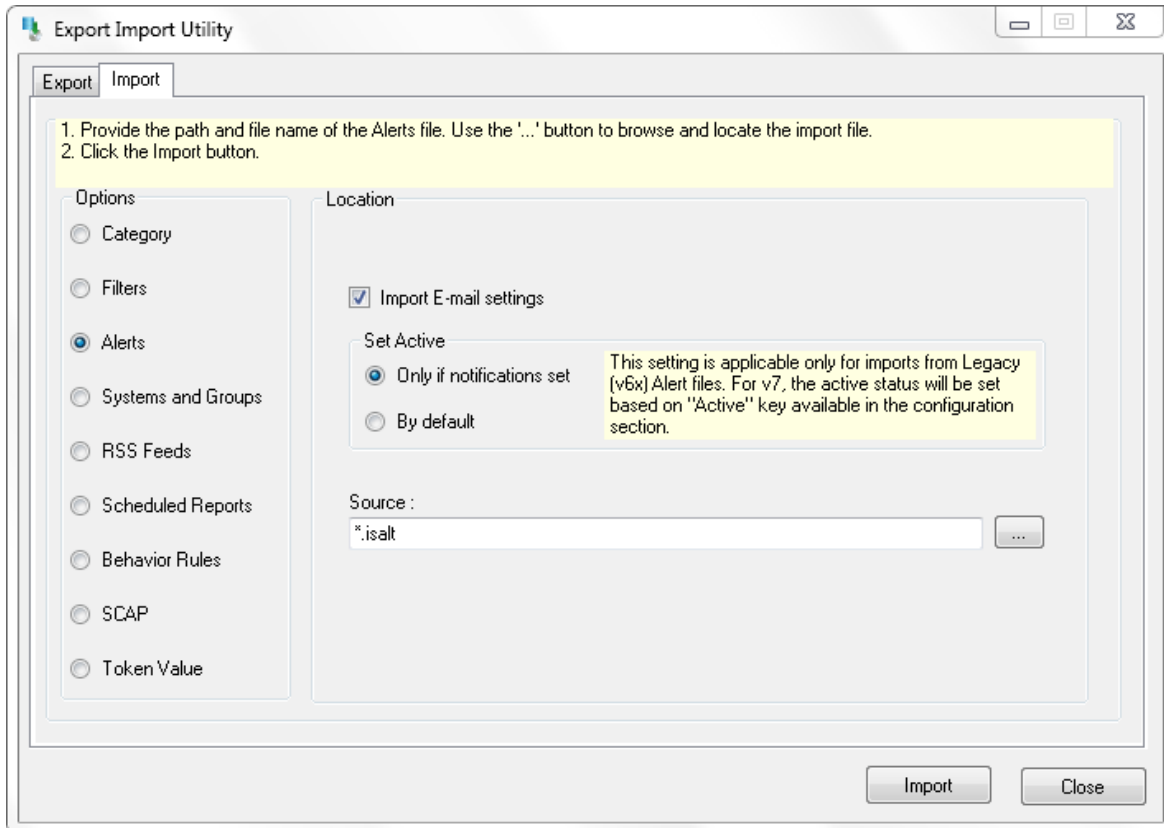


Figure 6

2. Locate **All A10 group alerts.isalt** file, and then click the **Open** button.
3. To import alerts, click the **Import** button.  
EventTracker displays success message.

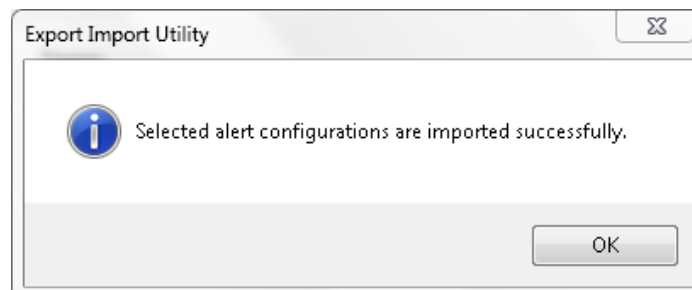



Figure 7

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

## Import Tokens

1. Click **Token Value** option, and then click the '**browse**'  button.
2. Locate **All A10 group tokens.istoken** file, and then click the **Open** button.

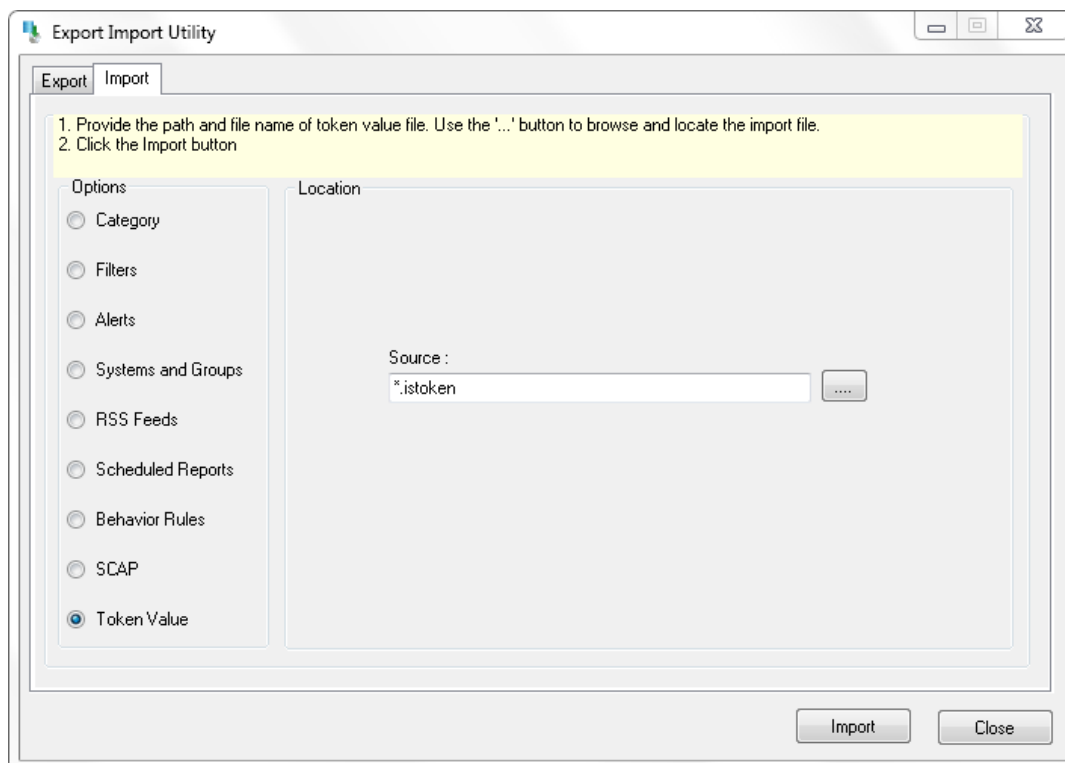


Figure 8

3. To import token value, click the **Import** button.  
EventTracker displays success message.

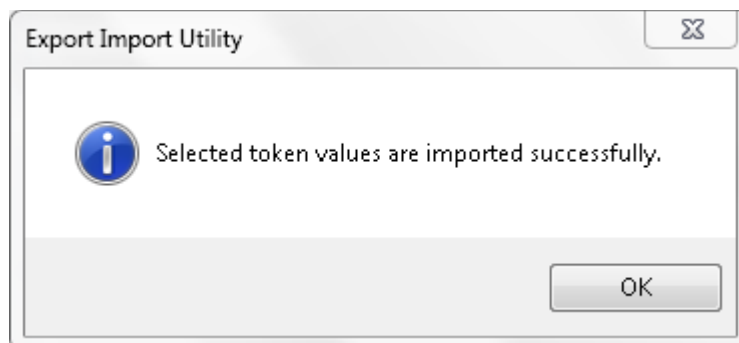



Figure 9

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

## Import Flex Reports

1. Click **Scheduled Reports** option, and then click the **'browse'**  button.
2. Locate **All A10 group reports.issch** file, and then click the **Open** button.

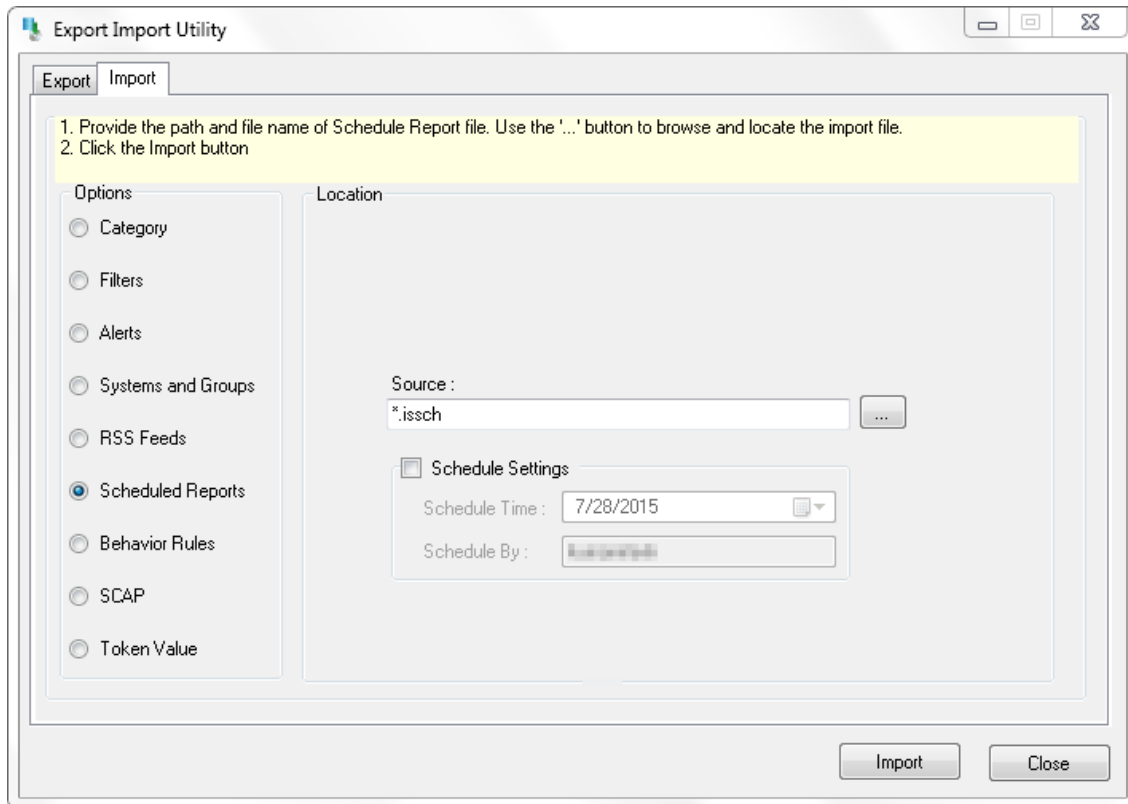


Figure 10

3. To import scheduled reports, click the **Import** button.  
EventTracker displays success message.

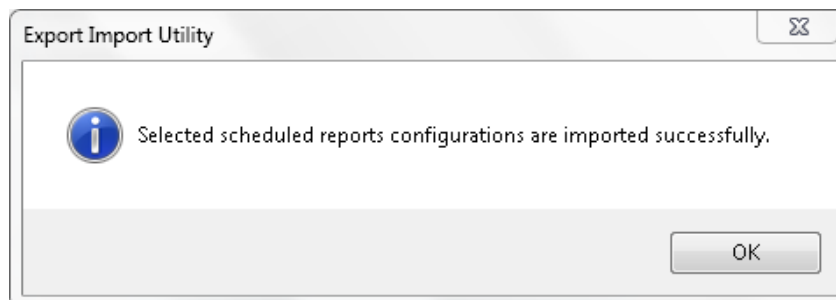


Figure 11

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

## Import Token Templates

1. Click the **Admin** menu, and then click **Parsing rule**.
2. Select **Template** tab, and then click on **Import** option.

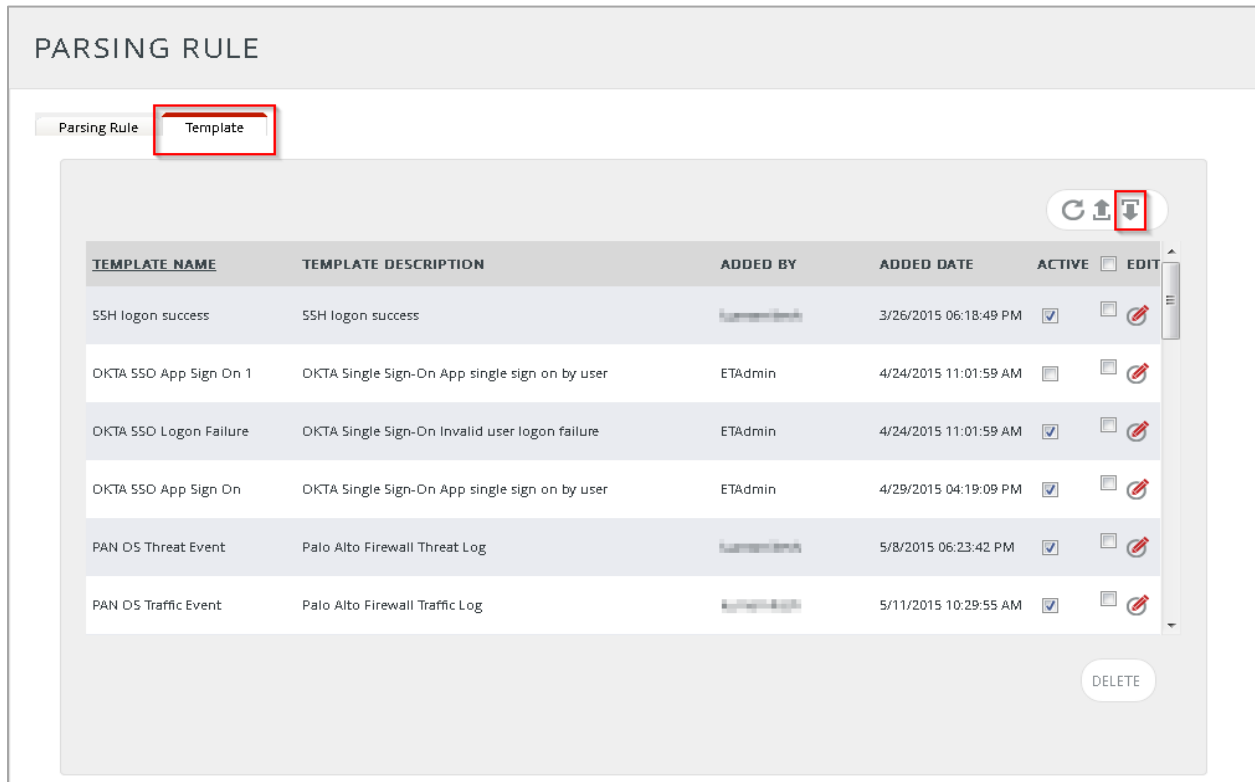


Figure 12

3. Click on **Browse** button.

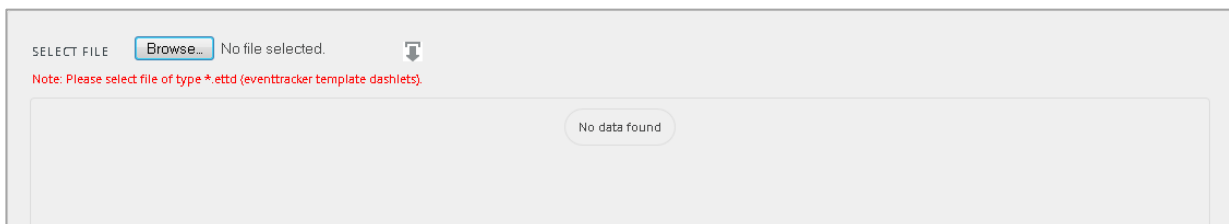




Figure 13

4. Locate **A10 token template.ettd** file, and then click the **Open** button.

SELECTED FILE IS: Watchguard.XTM token template.ettd 

<input type="checkbox"/>	TEMPLATE NAME	SEPARATOR	TEMPLATE DESCRIPTION	ADDED DATE	ADDED BY
<input type="checkbox"/>	Watchguard Traffic	\t	Jun 19 11:19:22 192.168.90.9 Jun 19 11:20:28 NSCM-XTM-520 (2015-06-19T15:20:28) Allow Firebox 0-External 52 tcp 20 127 10.0.1.2 120.157.67.138 62443 80 of fset 8 5 832026162 win 8192 (HTTP-00)	7/13/2015 10:17:19 AM	ETAdmin
<input type="checkbox"/>	Watchguard Authentication Success	\t	Jun 19 09:17:14 192.168.90.9 Jun 19 09:18:19 NSCM-XTM-520 (2015-06-19T13:18:19) authentication-management[2021]: Authentication of firewall user [user1@Firebox-DB] from 192.168.9.2 is accepted	7/27/2015 11:15:17 AM	ETAdmin
<input type="checkbox"/>	Watchguard Authentication Failure	\t	Jun 19 09:17:14 192.168.90.9 Jun 19 09:18:19 NSCM-XTM-520 (2015-06-19T13:18:19) authentication-management[2021]: Authentication of firewall user [user1@RADIUS] failed. RADIUS authentication method MSCHAP_V1 is not supported.	7/27/2015 12:28:07 PM	ETAdmin
<input type="checkbox"/>	Watchguard Logon	\t	Jun 19 09:17:14 192.168.90.9 Jun 19 09:18:19 NSCM-XTM-520 (2015-06-19T13:18:19) accounting-management[2021]: Management user admin from 10.0.1.2 logging in attempt was rejected.	7/27/2015 01:14:07 PM	ETAdmin
<input type="checkbox"/>	Watchguard Config Change	\t	Jun 19 11:19:11 192.168.90.9 Jun 19 11:20:17 NSCM-XTM-520 (2015-06-19T15:20:17) configuration-management[2127]: admin deleted Blocked Sites Exceptions	7/27/2015 02:13:17 PM	ETAdmin
<input type="checkbox"/>	Watchguard Attacks	\t	Jun 19 11:19:11 192.168.90.9 Jun 19 11:20:17 NSCM-XTM-520 (2015-06-19T15:20:17) packet-filter-firewall[2127]: ICMP flood attack against 10.0.1.51 from 120.157.67.138 detected.	7/27/2015 05:08:16 PM	ETAdmin

Figure 14

5. Now select the check box and then click on  'Import' option  
EventTracker displays success message.

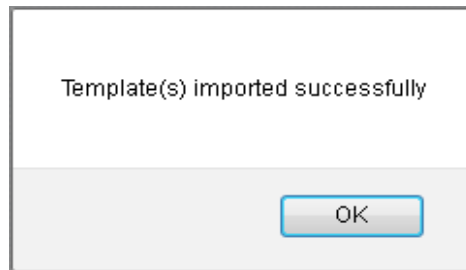


Figure 15

6. Click on **OK** button.



## Import Knowledge Object

1. Click the **Admin** menu, and then click **Knowledge Objects**.
2. Click on **Import** option.

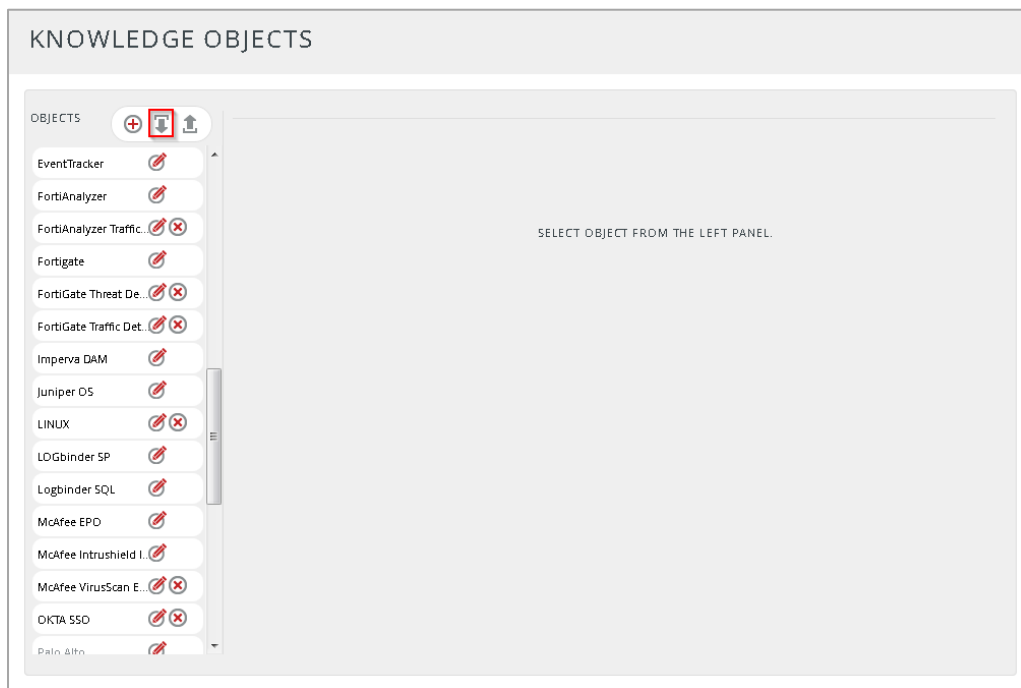


Figure 16

3. In **IMPORT** pane click on **Browse** button.

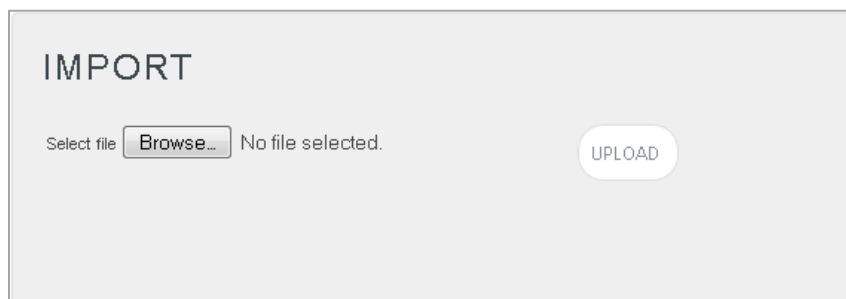


Figure 17

4. Locate **A10 KO.etko** file, and then click the **UPLOAD** button.

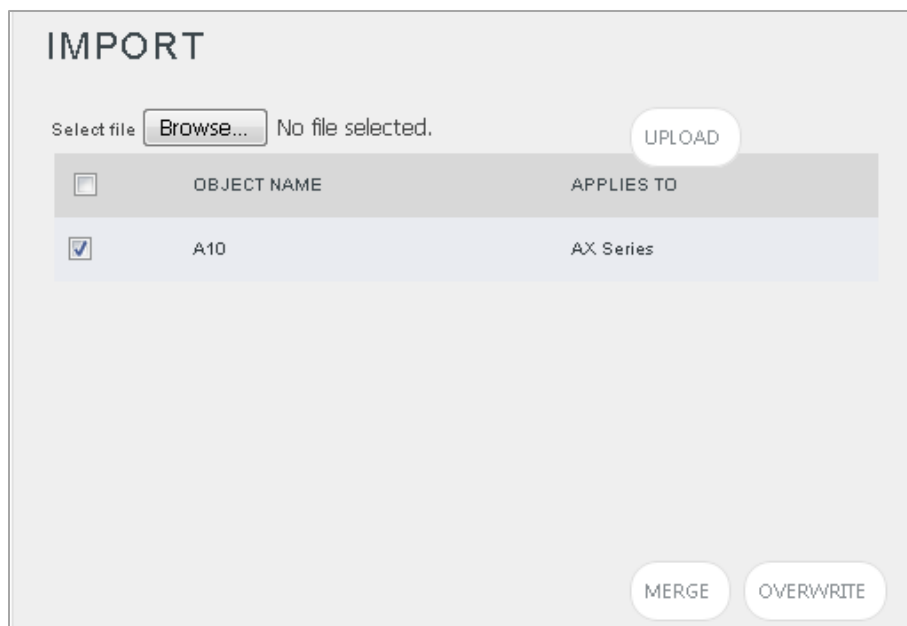


Figure 18

- Now select the check box and then click on '**MERGE**' option. EventTracker displays success message.

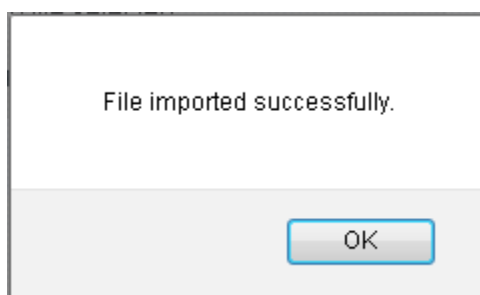


Figure 19

- Click on **OK** button.

# Verify Knowledge Pack in EventTracker

## Verify Categories

1. Logon to **EventTracker Enterprise**.
2. Click the **Admin** menu, and then click **Categories**.
3. To view the imported categories, in the **Category Tree**, expand **A10** group folder.

**CATEGORY MANAGEMENT**

Category Tree Search

All Categories

- \*All error events
- \*All information events
- \*All warning events
- \*Security: All security events
- A10**
  - A10 : Configuration Change
  - A10 : HA Events
  - A10 : Management Service Status
  - A10 : Part Status Change
  - A10 : Radius Server Error
  - A10 : SLB Server Status
- Altiris Deployment Solution
- Antivirus
- ArrayOS SPX
- ArubaOS
- Astara Security Gateways
- Aventail SSL VPN
- Barracuda firewall
- Barracuda SSL VPN
- Blue Coat ProxySG
- Centrify Server Suite
- Change Audit

Total category groups: 270 Total categories: 2,576

Last 10 modified categories

NAME	MODIFIED DATE	MODIFIED BY
A10 : Management Service Status	8/26/2015 07:36:33 PM	Administrator
A10 : SLB Server Status	8/26/2015 07:31:56 PM	Administrator
A10 : HA Events	8/26/2015 07:28:10 PM	Administrator
A10 : Radius Server Error	8/26/2015 07:19:05 PM	Administrator
A10 : Part Status Change	8/26/2015 07:14:58 PM	Administrator
A10 : Configuration Change	8/26/2015 07:05:25 PM	Administrator
Blue Coat ProxySG: Web access allowed	7/20/2015 01:56:21 PM	Administrator
Blue Coat ProxySG: Web access denied	7/20/2015 01:56:21 PM	Administrator
WatchGuard XTM: IPS attack detected	7/1/2015 10:44:44 AM	Administrator
WatchGuard XTM: Proxy policy allowed traffic	7/1/2015 10:43:57 AM	Administrator

Figure 20

## Verify Alerts

1. Logon to **EventTracker Enterprise**.
2. Click the **Admin** menu, and then click **Alerts**.
3. In the **Search** box, type '**A10**', and then click the **'search'** button.  
Alert Management page will display all the imported alerts.

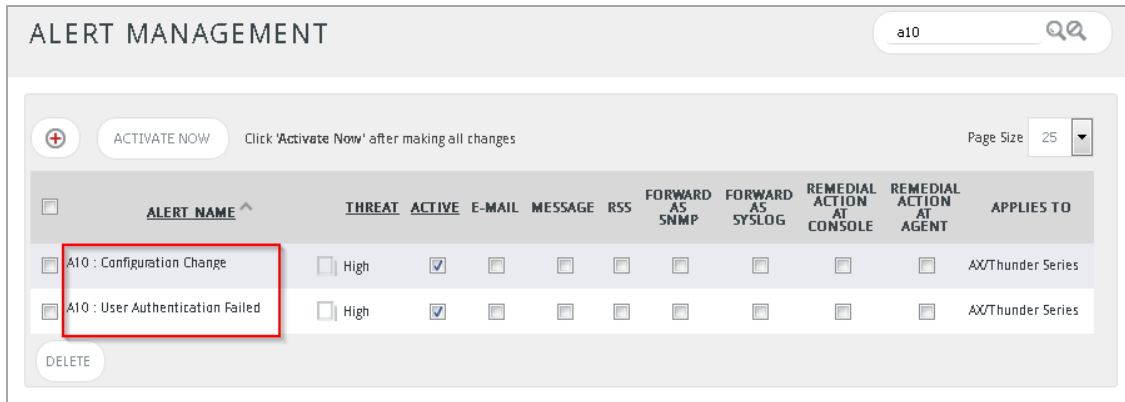


Figure 21

- To activate the imported alerts, select the respective checkbox in the **Active** column and then click the **Activate Now** button.

EventTracker displays message box.

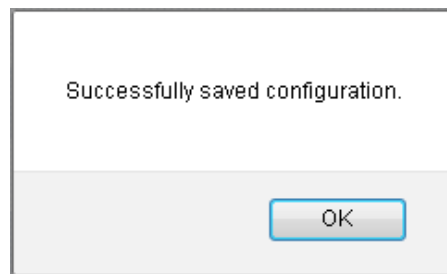


Figure 22

- Click **OK**.

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

## Verify Tokens

- Logon to **EventTracker Enterprise**.
- Click the **Admin** menu, and then click **Parsing Rules**.
- In **Token Value Group Tree** to view imported token values, scroll down and click **A10** group folder.

Token values are displayed in the token value pane.

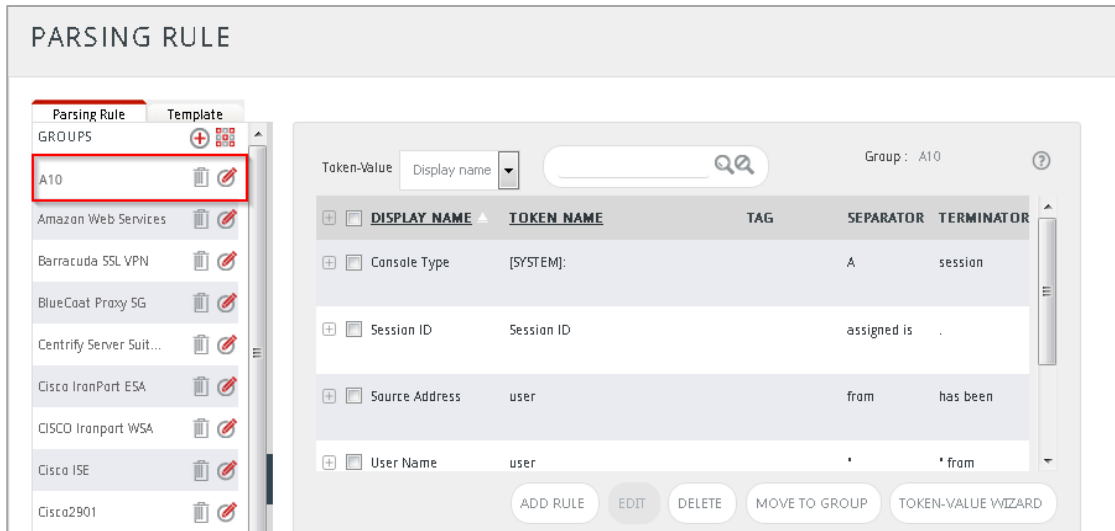


Figure 23

## 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 **A10** group folder. Scheduled Reports are displayed in the Reports configuration pane.

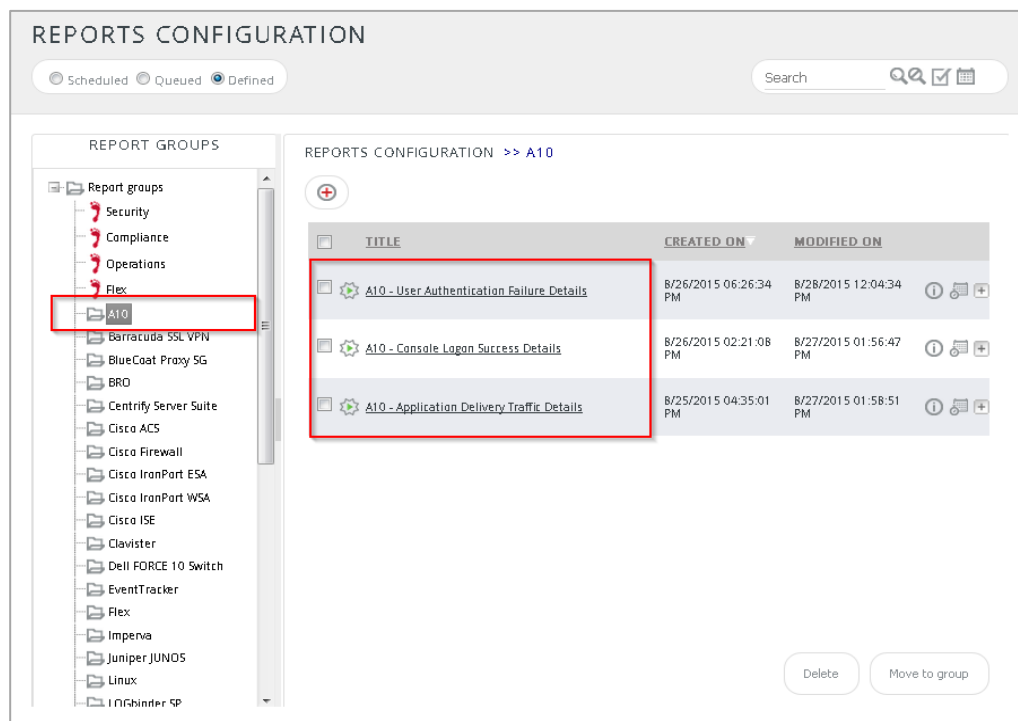


Figure 24

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

## Verify Token Templates

1. Click the **Admin** menu, and then click **Parsing rule**.
2. Select **Template** tab.
3. Scroll and find imported **A10** token templates.

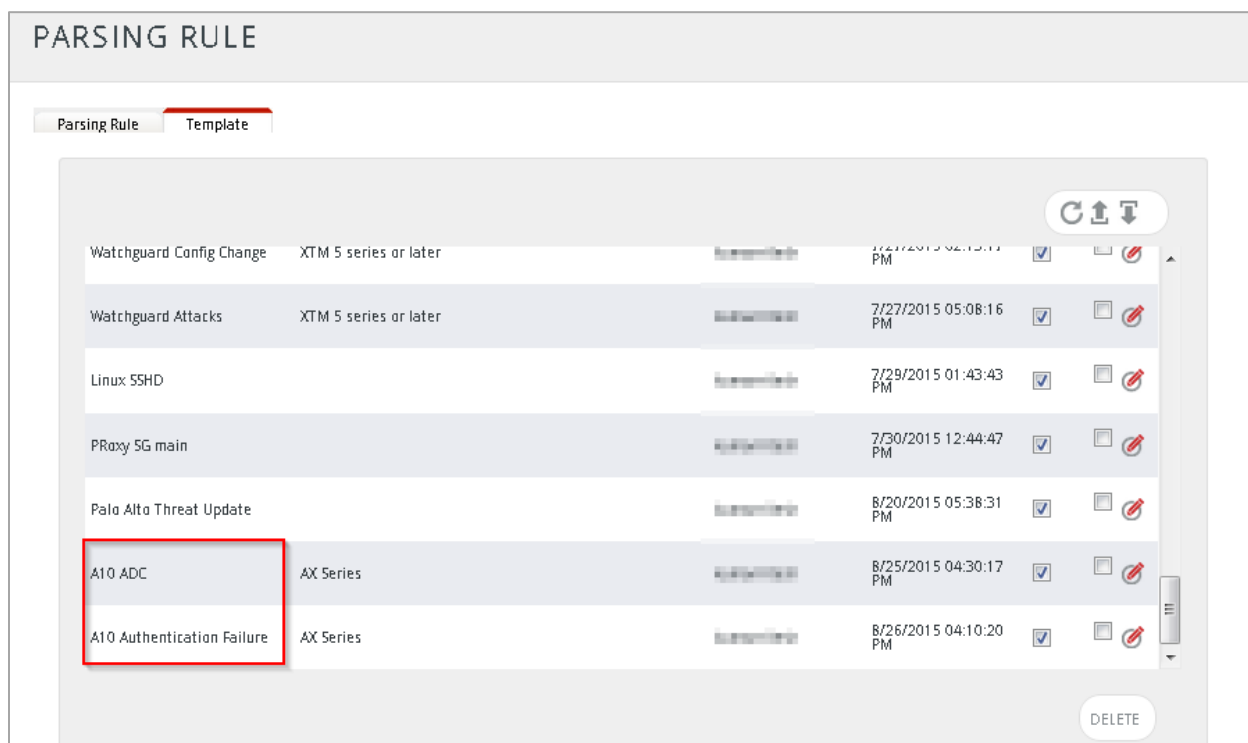


Figure 25

## Verify Knowledge Object

1. Click the **Admin** menu, and then click **Knowledge Objects**
2. Scroll down and select **A10** in **Objects** pane.  
Imported A10 object details are shown.



# Create Dashboards in EventTracker

## Schedule Reports

1. Open **EventTracker** in browser and login.

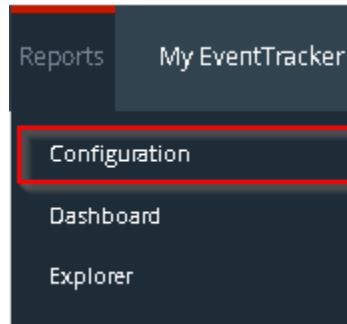


Figure 27

2. Navigate to **Reports>Configuration**.

REPORTS CONFIGURATION

Scheduled  Queued  Defined

Search [ ] [ ] [ ] [ ]

REPORT GROUPS

- Report groups
  - Security
  - Compliance
  - Operations
  - Flex
  - A10**
  - Barracuda SSL VPN
  - BlueCoat Proxy SG
  - BRD
  - Centrify Server Suite
  - Cisco ACS
  - Cisco Firewall
  - Cisco IronPort ESA
  - Cisco IronPort WSA
  - Cisco ISE
  - Clavister
  - Dell FORCE 10 Switch
  - EventTracker
  - Flex
  - Imperva
  - Juniper JUNOS
  - Linux
  - LOGbinder SP


REPORTS CONFIGURATION >> A10

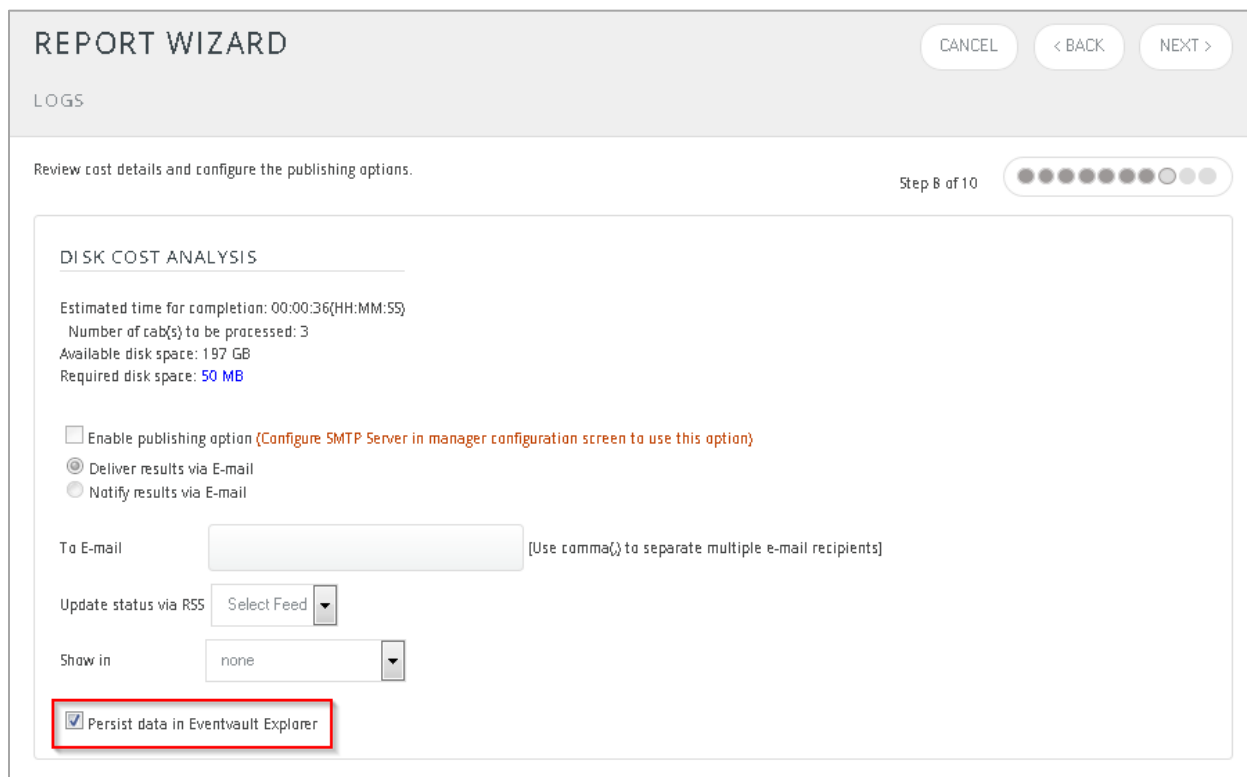
TITLE	CREATED ON	MODIFIED ON
A10 - User Authentication Failure Details	8/26/2015 06:26:34 PM	8/26/2015 12:04:34 PM
A10 - Console Logon Success Details	8/26/2015 02:21:08 PM	8/27/2015 01:56:47 PM
A10 - Application Delivery Traffic Details	8/25/2015 04:35:01 PM	8/27/2015 01:58:51 PM

Delete Move to group

Figure 28



3. Select **A10** in report groups. Check **defined** dialog box.
4. Click on 'schedule' icon  to plan a report for later execution.



**REPORT WIZARD** CANCEL < BACK NEXT >

LOGS

Review cost details and configure the publishing options. Step 8 of 10

**DISK COST ANALYSIS**

Estimated time for completion: 00:00:36(HH:MM:SS)  
Number of cab(s) to be processed: 3  
Available disk space: 197 GB  
Required disk space: 50 MB

Enable publishing option (Configure SMTP Server in manager configuration screen to use this option)  
 Deliver results via E-mail  
 Notify results via E-mail

To E-mail:  (Use comma(,) to separate multiple e-mail recipients)

Update status via RSS: Select Feed

Show in: none

Persist data in Eventvault Explorer

Figure 29

5. Choose appropriate time for report execution and in **Step 8** check **Persist data in Eventvault explorer** box.

**REPORT WIZARD** CANCEL < BACK NEXT >

DATA PERSIST DETAIL

Select columns to persist Step 9 of 10

**RETENTION SETTING**

Retention period: 7 days

Persist in database only [Reports will not be published and will only be stored in the respective database]

**SELECT COLUMNS TO PERSIST**

COLUMN NAME	PERSIST
Event Time	<input checked="" type="checkbox"/>
Source Address	<input checked="" type="checkbox"/>
User Name	<input checked="" type="checkbox"/>
User Type	<input checked="" type="checkbox"/>
Reason	<input checked="" type="checkbox"/>

Figure 30

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 Dashlets

1. **EventTracker 8** is required to configure flex dashboard.
2. Open **EventTracker** in browser and logon.

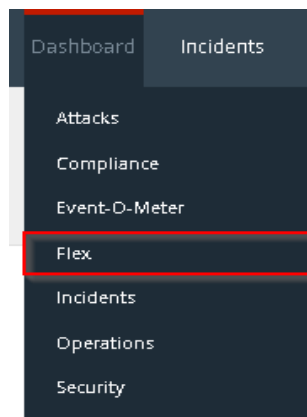


Figure 31

3. Navigate to **Dashboard>Flex**.  
Flex Dashboard pane is shown.

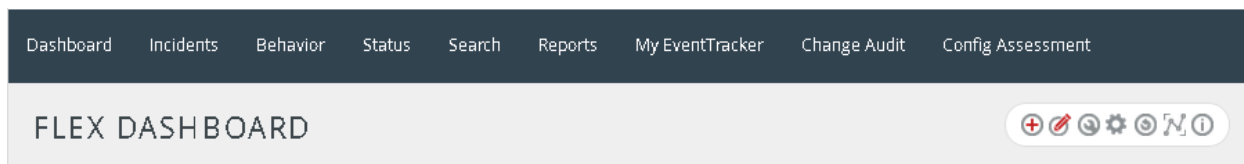




Figure 32

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

The screenshot shows a configuration pane titled 'FLEX DASHBOARD'. It contains two text input fields. The first field is labeled 'Title' and contains the text 'A10'. The second field is labeled 'Description' and contains the text 'AX Series'. At the bottom right of the configuration pane, there are three buttons: 'SAVE', 'DELETE', and 'CANCEL'.

Figure 33

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

**WIDGET CONFIGURATION**

WIDGET TITLE: A10 - Client Agent Usage \*  
 NOTE:

DATA SOURCE: A10 - Application Delivery Traffic Details

CHART TYPE: Donut | DURATION: 1 Week | VALUE FIELD SETTING: COUNT | AS OF: Now

AXIS LABELS [X-AXIS]: User Agent | LABEL TEXT: User Agent

VALUES [Y-AXIS]: Select column | VALUE TEXT:

FILTER: Select column | FILTER VALUES:

LEGEND [SERIES]: Select column | SELECT: All

Figure 34

7. Locate earlier scheduled report in **Data Source** dropdown.
8. Select **Chart Type** from dropdown.
9. Select extent of data to be displayed in **Duration** dropdown.
10. Select computation type in **Value Field Setting** dropdown.
11. Select evaluation duration in **As Of** dropdown.
12. Select comparable values in **X Axis** with suitable label.
13. Select numeric values in **Y Axis** with suitable label.
14. Select comparable sequence in **Legend**.
15. Click **Test** button to evaluate.  
 Evaluated chart is shown.

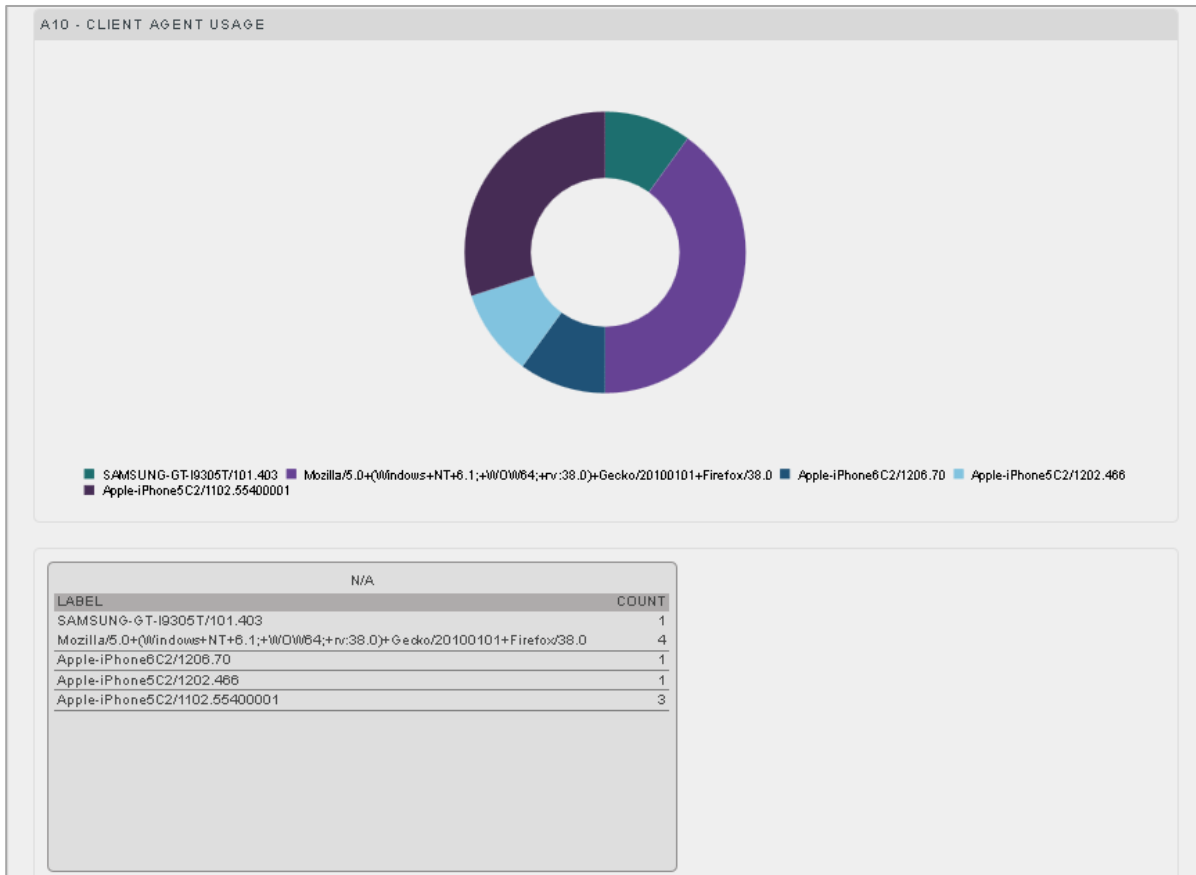


Figure 35

16. If satisfied, click **Configure** button.

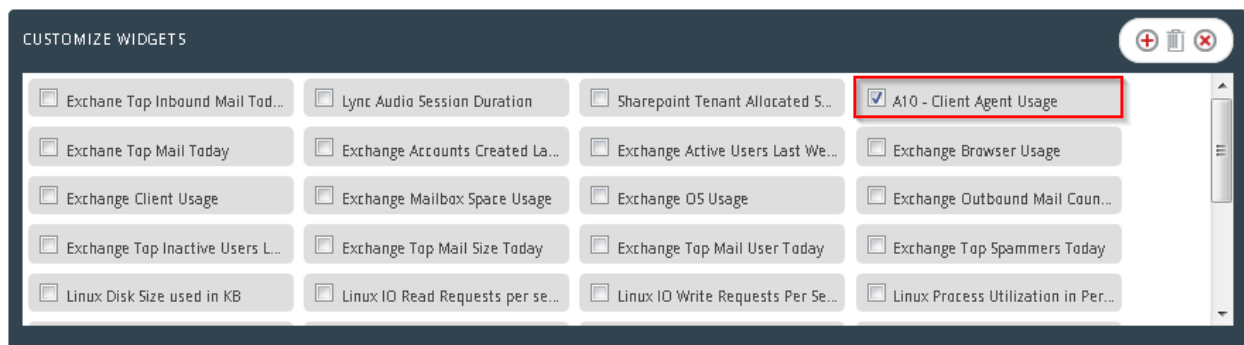



Figure 36

17. Click 'customize'  to locate and choose created dashlet.

18. Click  to add dashlet to earlier created dashboard.

## Sample Reports

### 1. A10 - Application Delivery Traffic Details

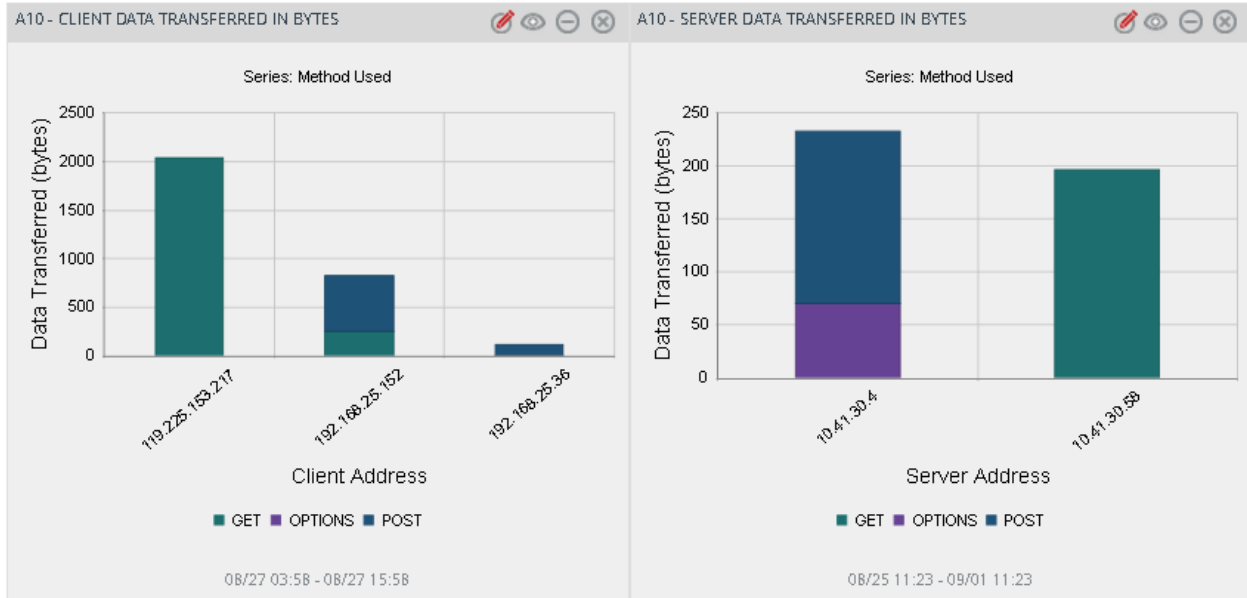
A10 - Application Delivery Traffic Details											
Event Time	Client Address	Client to Server Bytes	Method Used	Server Address	Server Port	Server to Client Bytes	Status Code	Time Taken	URI	User Agent	
08/26/2015 02:21:34 PM	192.168.25.36	12	POST	10.41.30.4	443	55	200	0.125	/Microsoft-Server-	Apple-iPhone5C2/1	
08/26/2015 05:41:29 PM	1.127.49.102	22	OPTIONS	10.41.30.45	443	10	200	0.064	/Microsoft-Server-	Apple-iPhone5C2/1	
08/26/2015 09:01:24 PM	192.168.25.36	36	GET	10.41.30.58	443	22	401	0.004	/eRoom/crop.gif	Mozilla/5.0+(Windows+N	
08/27/2015 12:21:19 AM	192.168.25.36	57	POST	10.41.45.66	443	47	200	1.233	/Microsoft-Server-	Apple-iPhone6C2/1	
08/27/2015 03:41:14 AM	192.168.25.52	42	POST	10.41.30.19	443	68	200	0.140	/Microsoft-Server-	Apple-iPhone5C2/1	
08/27/2015 07:01:09 AM	200.12.25.36	0	OPTIONS	10.41.30.4	443	0	200	0.523	/Microsoft-Server-	Apple-iPhone5C2/1	
08/27/2015 10:21:04 AM	119.225.153.217	0	GET	10.41.30.58	443	0	401	0.052	/eRoom/favicon.ico	Mozilla/5.0+(Windows+N	
08/27/2015 01:40:59 PM	192.168.25.52	25	POST	10.41.45.78	443	42	200	1.233	/Microsoft-Server-	Apple-iPhone6C2/1	

### 2. A10 - User Authentication Failure Details

A10 - User Authentication Failure Details				
Event Time	Source Address	User Name	User Type	Reason
08/26/2015 02:21:34 PM	192.168.1.89	admin	remote	failed in the CLI authentication
08/26/2015 05:41:29 PM	192.168.2.4	slb-admin	remote	failed in the WEB authentication
08/26/2015 09:01:24 PM	192.168.1.66	admin	Tacas+	Contact with remote server failed
08/27/2015 12:21:19 AM	192.168.2.25	slb-admin	Local	Admin password error
08/27/2015 03:41:14 AM	192.168.1.89	admin	remote	failed in the CLI authentication
08/27/2015 07:01:09 AM	192.168.2.60	slb-admin	Tacas+	Contact with remote server failed
08/27/2015 10:21:04 AM	192.168.2.65	admin-3	Local	Admin password error
08/27/2015 01:40:59 PM	192.168.2.4	slb-admin	remote	failed in the WEB authentication

# Sample Dashboards

## 1. A10 - Server and Client Data Transfer Details



## 2. A10 - Client Agent Usage Details

