BeyondTrust

Remote Support
SIEM Integration Guide

TC:4/5/2019

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BeyondTrust SIEM Tool Plugin Installation and Administration

The Security Information and Event Management (SIEM) tool plugin for BeyondTrust Remote Support enables the processing and transmission of session event data to your SIEM tool. With additional components and steps required for each, the plugin has built-in support for Splunk as well as the ability to customize the output message format for special needs and/or use cases.

Prerequisite for Installation and Configuration of BeyondTrust SIEM Tool Plugin

To complete this integration, make sure that you have the necessary software installed and configured as indicated in this guide, accounting for any network considerations. Make sure you review and complete all steps in BeyondTrust Middleware Engine Installation and Configuration at www.beyondtrust.com/docs/remote-support/how-to/integrations/middleware-engine/index.htm.

Network Considerations

In addition to the network considerations listed in BeyondTrust Middleware Engine Installation and Configuration, check the individual SIEM installation guides, HP ArcSight or Splunk, for connectivity components which are specific to each tool and system.

Configure BeyondTrust Remote Support for Integration

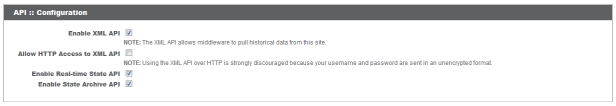
Several configuration changes are necessary on the Secure Remote Access Appliance You must make the changes for each appliance configured in the application's configuration file.

All of the steps in this section take place in the BeyondTrust **/login** administrative interface. Access your BeyondTrust interface by going to the hostname of your Secure Remote Access Appliance followed by /login (e.g., **https://support.example.com/login**).

Verify That the API Is Enabled

This integration requires the BeyondTrust XML API to be enabled. This feature is used by the BeyondTrust Middleware Engine to communicate with the BeyondTrust APIs.

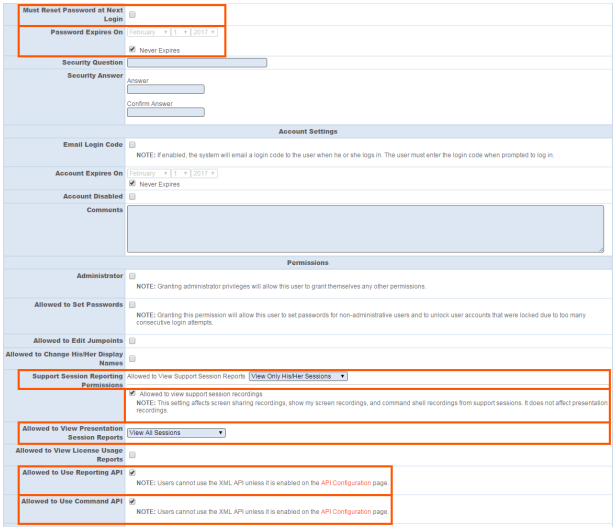
Go to **/login > Management > API Configuration** and verify that **Enable XML API** is checked.



Create an API Service Account - BeyondTrust 16.1 and Earlier

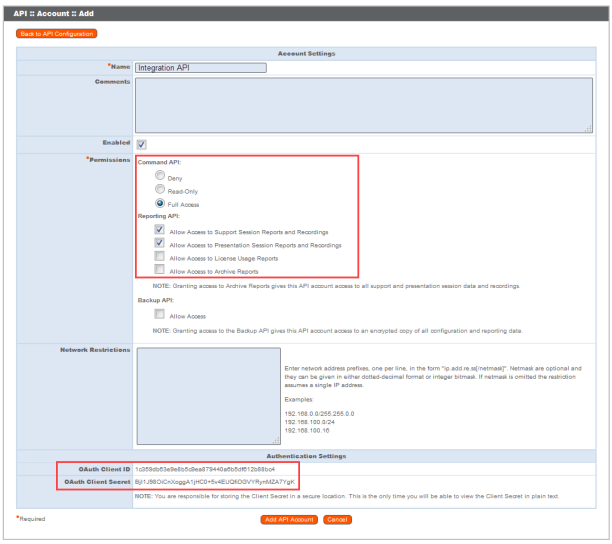
The API user account is used from within the integration to make BeyondTrust Command API calls to BeyondTrust.

1. Go to **/login > Users & Security > Users**.
2. Click **Create New User** and name it **Integration** or something similar.
3. Leave **Must Reset Password at Next Login** unchecked.
4. Set **Password Expires On** to **Never Expires**.
5. Set **Allowed to View Support Session Reports** to **View All Sessions**.
6. Check **Allowed to view support session recordings**.
7. Set **Allowed to View Presentation Session Reports** to **View All Sessions**.
8. Check **Allowed to Use Reporting API** and **Allowed to Use Command API**.
9. Scroll to the bottom and save the account.



Create an API Service Account - BeyondTrust 16.2 and Later

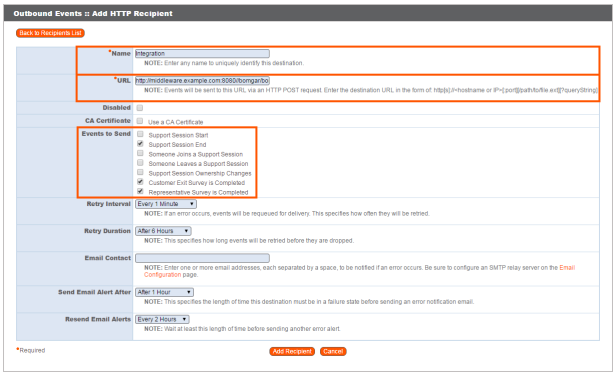
1. Go to **Management > API Configuration** and create a new API account.
2. Under **Permissions**, check **Full Access** to the **Command API**.
3. For the **Reporting API**, check **Allow Access to Support Session Reports and Recordings** and **Allow Access to Presentation Session Reports and Recordings**.
4. Be sure to copy the values for both the **OAuth Client ID** and **OAuth Client Secret** for use in a later step.



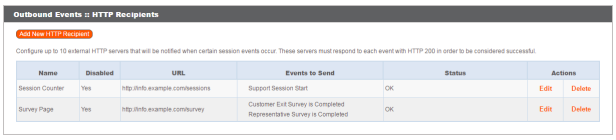
5. Click **Add API Account** to create the account.

Add an Outbound Event URL

1. Go to **/login > Management > Outbound Events**.
2. Click **Add New HTTP Recipient** and name it **Integration** or something similar.
3. Enter the URL to use:
   - If using an appliance ID of "default": `http://<middleware-host>:<port>/ERSPost`. The default port is `8180`.
   - If using an appliance ID other than "default": `http://<middleware-host>:<port>/ERSPost?appliance=<appliance-id>` where `<middleware-host>` is the hostname where the BeyondTrust Middleware Engine is installed. The default port is `8180`. The `<appliance-id>` is an arbitrary name, but note the value used, as it is entered later in the plugin configuration. This name accepts only alphanumeric values, periods, and underscores.



4. Scroll to **Events to Send** and check the following events:
   - **Support Session End**
5. Scroll to the bottom and click **Add Recipient**.
6. Now, the list of outbound events should contain the event just added. The **Status** column displays a value of **OK** if communication is working. If communication is not working, the **Status** column displays an error which you can use to repair communication.



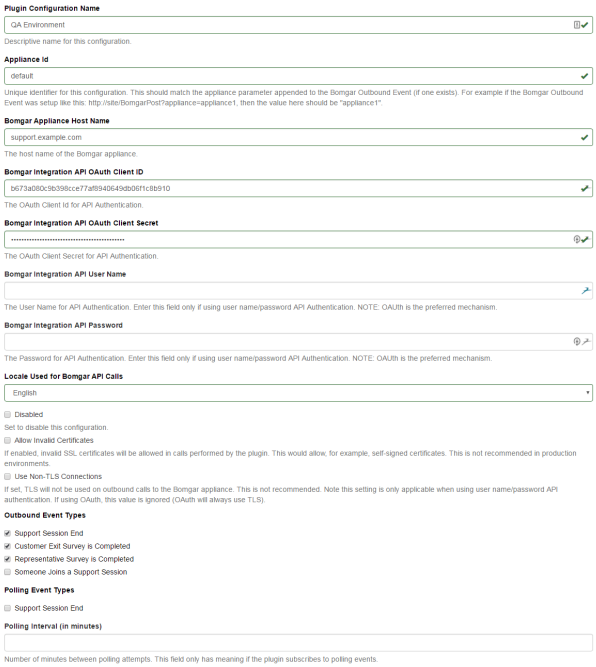
Configure the BeyondTrust Remote Support SIEM Tool Plugin

Once the plugin has been deployed as described in BeyondTrust Remote Support Middleware Engine Installation and Configuration, the plugin can then be configured and tested.

To begin configuration, launch the **Middleware Administration Tool** and click the clipboard icon next to the plugin name.

Secure Remote Access Appliance

The first portion of the plugin configuration provides the necessary settings for communication between the plugin and the Secure Remote Access Appliance. The configuration sections include:



1. **Plugin Configuration Name:** Any desired value. Because multiple configurations can be created for a single plugin, allowing different environments to be targeted, provide a descriptive name to indicate how this plugin is to be used.
2. **Appliance Id:** This can be left as **Default** or can be given a custom name. This value must match the value configured on the outbound event URL in the Secure Remote Access Appliance. If outbound events are not being used, this value is still required, but any value may be used.
3. **Secure Remote Access Appliance Host Name:** The hostname of the Secure Remote Access Appliance. Do not include `https://` or other URL elements.
4. **BeyondTrust Integration API OAuth Client ID**: When using API accounts in BeyondTrust Remote Support 16.2.1 or newer, this field should contain the Client ID of the OAuth account.
5. **BeyondTrust Integration API OAuth Client Secret:** When using API Accounts available in BeyondTrust Remote Support 16.2.1 or newer, this field should contain the client Secret of the OAuth account.
6. **BeyondTrust Integration API User Name:** The username of the API service account created on the Secure Remote Access Appliance.
7. **BeyondTrust Integration API Password:** The password of the above user.
8. **Locale Used for BeyondTrust API Calls:** This value directs the Secure Remote Access Appliance to return session data in the specified language.
9. **Disabled:** Enable or disable this plugin configuration.
10. **Allow Invalid Certificates:** Leave unchecked unless there is a specific need to allow. If enabled, invalid SSL certificates are allowed in calls performed by the plugin. This would allow, for example, self-signed certificates. This is not recommended in production environments.
11. **Use Non-TLS Connections:** Leave unchecked unless it is the specific goal to use non-secure connections to the Secure Remote Access Appliance. If checked, TLS communication is disabled altogether. If non-TLS connections are allowed, HTTP access must be enabled on the BeyondTrust **/login > Management > API Configuration** page. Using non-secure connections is discouraged.

> ***Note:*** *When using OAuth authentication, TLS cannot be disabled.*

12. **Outbound Events Types:** Specify which events the plugin processes when received by the middleware engine. Keep in mind that any event types selected here must also be configured to be sent in BeyondTrust. The middleware engine receives any events configured to be sent in BeyondTrust but passes them off to the plugin only if the corresponding event type is selected in this section.
    a. **Support Session End**
13. **Polling Event Types:** If network constraints limit connectivity between the Secure Remote Access Appliance and the middleware engine such that outbound events cannot be used, an alternative is to use polling. The middleware engine regularly polls the Secure Remote Access Appliance for any sessions that have ended since the last session was processed. At this time, only the **Support Session End** event type is supported.
14. **Polling Interval:** Enter only if polling is used. This determines how often the middleware engine polls the Secure Remote Access Appliance for sessions that have ended.
15. **Retry Attempt Limit:** Enter the number of retries that can be attempted if the plugin fails to process an event.
16. **Retry Outbound Event Types:** Specify which outbound events the plugin retries if it fails to process the event.
17. **Retry Polling Event Types:** Specify which polling events the plugin retries if it fails to process the event.

SIEM Tool Instance

These are the fields and selections needed to configure the plugin for integration with the SIEM tool. Please see the individual SIEM installation guides for guidance on what values to provide.

1. **Target SIEM System :** Select the target SIEM tool from the list.
2. **SIEM Syslog Host:** Enter the hostname or IP address of the SIEM instance that should receive the messages.
3. **SIEM Syslog Port:** Enter the port used by the SIEM instance to receive syslog messages.
4. **SIEM Syslog Protocol:** Select the appropriate protocol from the list.
5. **Events to Process:** BeyondTrust session data can contain many different event types. All types are available; however, a subset may be desired in the SIEM tool. Select only the events you would like sent to the tool. Events matching unchecked event types are ignored.

Report Templates

On the BeyondTrust Middleware Engine server, in the **<install dir>\Plugins\<integration>\Templates** folder, there are multiple files ending with ***.hbs**. These files are used by the plugin to format the textual session report and exit surveys that are added to the corresponding ticket each time a BeyondTrust session ends or each time a survey is submitted. The templates can be edited if desired.

***Note:** If changes need to be made to a template, it is a good idea to first back up the original in case the changes ever need to be reverted.*

For additional information on Handlebars templates, see handlebarsjs.com.

BeyondTrust Remote Support Integration with Splunk

IMPORTANT!

You must purchase this integration separately from both your BeyondTrust software and your Splunk solution. For more information, contact BeyondTrust sales.

IT administrators using Splunk can now integrate BeyondTrust Remote Support (RS) to strengthen access control, identify and prioritize threats seamlessly in real time, and remediate incidents proactively.

The BeyondTrust Remote Support integration helps safeguard your business by giving you complete visibility into activity across the IT infrastructure, including external threats such as malware hackers, internal threats such as data breaches and fraud, risks from application flaws and configuration changes, and compliance pressures from failed audits.

Through the integration, session event data captured through BeyondTrust RS's rich logging capability is populated into Splunk's platform and reports are provided for security review.

Prerequisites for the BeyondTrust Remote Support Integration with Splunk

Applicable Versions

- BeyondTrust Remote Support: 14.x and newer
- Splunk on-premise: 6.3.0 and newer

Network Considerations

The following network communication channels must be open for the integration to work properly:

Outbound From	Inbound To	TCP Port #	Purpose
BeyondTrust Middleware Engine Server	Splunk Server	1514	Session event data is pushed as specially formatted syslog messages into Splunk
Secure Remote Access Appliance	Splunk Server	514	Syslog event information from the appliance

Prerequisite Installation and Configuration

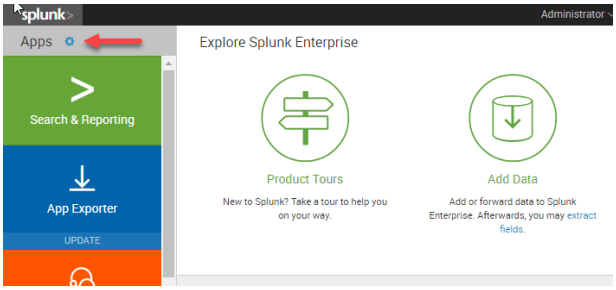
The Splunk integration is a BeyondTrust Middleware Engine plugin. To install the BeyondTrust Middleware Engine, follow the instructions in the BeyondTrust Middleware Engine Configuration document at www.beyondtrust.com/docs/remote-support/how-to/integrations/middleware-engine.

Configure Splunk for Integration with BeyondTrust Remote Support

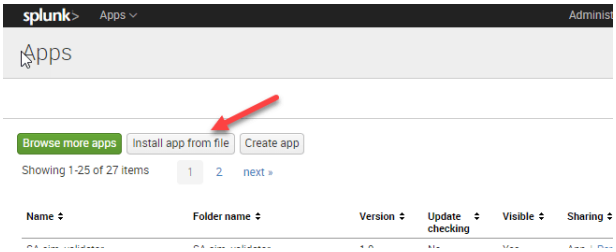
To install the integration, follow the steps below to import an item into Splunk.

1. Log into Splunk as a user with administrative rights.

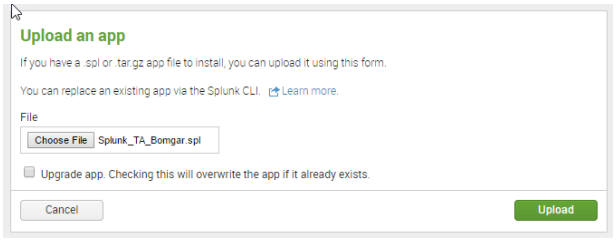
2. From the main home page, **/app/launcher/home**, click on the gear icon in the upper-left corner and go to **Manage Apps**.



3. On the **Apps** page, click **Install app from file**.



4. Browse to the location of the **Splunk_TA_BomgarPAM.spl** file and install the **Splunk Technology Add-on**.



Other Considerations

For manual installation not completed through the web user interface, you must determine your deployment method, standalone or distributed. If distributed, your BeyondTrust technical account manager must go to the **Splunk Indexer** or **Forwarder**.

Configure BeyondTrust Remote Support for Integration with Splunk

In addition to the steps outlined in the BeyondTrust SIEM Tool Plugin Installation and Administration at www.beyondtrust.com/docs/remote-support/how-to/integrations/plugin/index, the Splunk integration also supports consumption of syslog output directly from the Secure Remote Access Appliance.

All of the steps in this section take place in the BeyondTrust **/appliance** administrative interface.

1. Access your BeyondTrust interface by going to the hostname of your Secure Remote Access Appliance followed by /appliance (e.g., **https://support.example.com/appliance**).
2. Go to **/appliance >Security > Appliance Administration** and locate the **Syslog** section.
3. Enter the hostname or IP address for your remote syslog server.
4. Select a message format.
5. Click **Submit**.

Configure the SIEM Tool Plugin for Integration between Splunk and BeyondTrust Remote Support

To begin configuration, launch the **Middleware Administration Tool** and click on the clipboard icon next to the plugin name.

Secure Remote Access Appliance

The first portion of plugin configuration provides the necessary settings for communication between the plugin and the Secure Remote Access Appliance. These fields are described in the BeyondTrust SIEM Tool Plugin Installation and Administration at www.beyondtrust.com/docs/remote-support/how-to/integrations/siem-tool/index.

Splunk Instance

1. **Target SIEM System:** Select Splunk from the list.
2. **SIEM Syslog Host:** Enter the hostname or IP address of the Splunk instance that should receive messages.
3. **SIEM Syslog Port:** Enter the port used by the Splunk instance to receive syslog messages, usually port 1514.
4. **SIEM Syslog Protocol:** Select the appropriate protocol from the list, usually UDP.
5. **Events to Process:** BeyondTrust session data may contain many different event types. All types are available; however, only a subset may be desired in the SIEM tool. Select only the events you would like sent to Splunk. Events matching unchecked event types are ignored.