Remote Support CA Service Desk Integration

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BeyondTrust Remote Support Integration with CA Service Desk



IMPORTANT!

You must purchase this integration separately for both your Remote Support software and your CA Service Desk solution. For more information, contact BeyondTrust's Sales team.

Service desks and customer support organizations using CA Service Desk can integrate with BeyondTrust to improve service levels, centralize support processes, and strengthen compliance. This document describes the installation and configuration of the BeyondTrust Remote Support integration with CA Service Desk.

The integration between CA Service Desk and BeyondTrust Remote Support enables you to initiate a request for a support session from within your support portal as an analyst or employee, providing secure remote support capabilities for your end user community. Additionally, all aspects of the remote support session can be captured directly within your CA Service Desk support ticket, offering information to the analyst and end user in order to properly diagnose, troubleshoot, and resolve user issues.

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Prerequisites for the BeyondTrust Remote Support Integration with CA Service Desk

To complete this integration, please ensure that you have the necessary software installed and configured as indicated in this guide, accounting for any network considerations.

Applicable Versions

- BeyondTrust Remote Support: 19.2 and later
- CA Service Desk: 17.x (plus any associated cumulative patches and test fixes)

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	CA Service Desk	443	API calls from the BeyondTrust Middleware Engine server.
BeyondTrust Middleware Engine Server	BeyondTrust Appliance B Series	443	API calls from the BeyondTrust Middleware Engine server.
BeyondTrust Appliance B Series	BeyondTrust Middleware Engine Server	8180 (default) 443 (optional)	The BeyondTrust Middleware Engine server receives outbound events from the appliance. However, if polling is used instead of outbound events, then this port does not have to be open.

Prerequisite Installation and Configuration

The CA Service Desk integration is a BeyondTrust Middleware Engine plugin.

For more information on installing and working with the BeyondTrust Middleware Engine, please see the <u>BeyondTrust Remote</u> <u>Support Middleware Engine Installation and Configuration</u> document at <u>www.beyondtrust.com/docs/remote-support/how-</u> <u>to/integrations/middleware-engine</u>.

Configure CA Service Desk for Integration with BeyondTrust Remote Support



IMPORTANT!

Before beginning the installation, please ensure you have backed up your CA Service Desk primary and secondary servers.

Create New Tables

- 1. Open the Web Screen Painter and log in as an administrator.
- 2. From within the Web Screen Painter, open Tools > Schema Designer.
- 3. Select Add Table, and create a table named **z_bomgar_session**.
- 4. Click OK.
- 5. The table info should now be displayed. Fill in the form with the following information:
 - Name: z_bomgar_session
 - Display Name: BeyondTrust Session
 - Schema Name: z_bomgar_session
 - Description: Fac_Attr_Entry z_bomgar_session
 - Default Display Field: bgr_session_id
 - · Foreign Key Field: id
- 6. Click Save.
- After creating and saving the table with the required basic information, click Add Column to add the following columns to the table:



0	Schema Designer	×
File Edit Help		
🔚 Save 📑 Add Table 📑 A	Extension Table Add Column	
target_closed_count	a ^ ztest **	
target_closed_last (1 + target_hold_count (1)	g Column this Advanced	
target_hold_count_p target_hold_last(Tar	ztest	
target_resolved_cou target_resolved_cou	Display Name: ztest	
target_resolved_last target start last (Ta	BMS Name: DBMS Name:	
target_times (Target template_name (Tem	Description:	
 templates ticket avoided 	Field Type: String Length:	
time_spent_sum (Tot tv_att_slas)	A INTEGER V	
type (Type) urgency (Urgency)	SRel Table:	~
• urgency_f	On New Default Value:	
• view_type	On Save Set Value:	
 wf_attr_changed workflow 	Required Updateable only for new record	<pre>v v v v v v v v v v v v v v v v v v v</pre>
zgroup2	Service Provider Eligible	
< zroom_number	DBMS Index Options: Unique Ascending D	escending

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Schema Name	Display Name	Field Type	SREL Table or Length	Required
analyst	analyst	SREL	SREL Table: cnt	No
bgr_session_id	bgr_session_id	String	100	Yes
cr_persid	cr_persid	SREL	SREL Table: cr	Yes
end_date_time	end_date_time	Date	n/a	Yes
recording_url	recording_url	String	1000	No
session_duration	session_duration	Duration	n/a	No
start_date_time	start_date_time	Date	n/a	No
support_session_detail	support_session_detail	String	30000	Yes

8. Once all columns have been created, select File > Save and Publish. When prompted to continue, click Yes.

9. Once again, select Add Table, and create a table named zbgr_connection_type.

- 10. Click OK.
- 11. The table info should now be displayed. Fill in the form with the following information:
 - Name: zbgr_connection_type
 - Display Name: BeyondTrust Connection Type
 - Schema Name: zbgr_connection_type
 - Description: Fac_Attr_Entry zbgr_connection_type
 - Default Display Field: connection_name
 - Foreign Key Field: id
- 12. Click Save.
- 13. After creating and saving the table with the required basic information, click Add Column to add the following columns to the table:

Schema Name	Display Name	Field Type	SREL Table or Length	Required
connection_name	Connection_name	String	100	Yes
default_connection_type	Default_connection_type	Integer	n/a	No
delete_flag	SRel_Attr_Entry zbgr_connection_type.delete_flag	SREL	SREL Table: Actbool	No
Description	Description	String	250	Yes
zjumpoint_required	Zjumpoint_required	SREL	SREL Table: bool (Boolean)	No

14. Once all columns have been created, select File > Save and Publish. When prompted to continue, click Yes.

- 15. Navigate to the **nr** table within Schema Designer.
- 16. Select Add Column and add the following fields to this table:

Schema Name	Display Name	Field Type	SREL Table or Length	Required
zbgr_conn_type	zbgr_conn_type	SREL	SREL Table: zbgr_connection_type	No
zbgr_jpoint	zbgr_jpoint	String	200	No

17. Once all columns have been created, select File > Save and Publish. When prompted to continue, click Yes.

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- 18. Ensure all users are out of the system, and then shut down CA Service Desk services on all servers.
- 19. Open an administrive command prompt window and run the command **pdm_publish**.

		Services					×
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Services (Local)	Services (Local)						
	Select an item to view its description.	Name	Description	Status	Startup Type	Log On As	
	1 · · · · ·	Adobe Acrobat Update Service	Adobe Acro	Running	Automatic	Local Syste	
		Application Experience	Processes a		Manual (Trig	Local Syste	
		Application Host Helper Service	Provides ad	Running	Automatic	Local Syste	
		Application Identity	Determines		Manual (Trig	Local Service	
		C Application Information	Facilitates t	Running	Manual	Local Syste	
		Application Layer Gateway Service	Provides su		Manual	Local Service	
		C Application Management	Processes in	Running	Manual	Local Syste	
		Background Intelligent Transfer Service	Transfers fil	Running	Manual	Local Syste	
		Background Tasks Infrastructure Service	Windows in	Running	Automatic	Local Syste	
		Sase Filtering Engine	The Base Fil	Running	Automatic	Local Service	
		CA Process Automation Agent [E:\Program Files\CA\PAM	CA Process	Running	Automatic	Local Syste	_
		CA Service Desk Manager ODBC Agent		Running	Manual	Local Syste	1
		CA Service Desk Manager ODBC Data Access		Running	Manual	Local Syste	н
		CA Service Desk Manager Server	CA Service	Running	Automatic (D	Local Syste	н
		Sa CA Unified Self-Service Jetty Server	CA Unified	Running	Automatic	Local Syste	۰.
		CA Unified Self-Service Server	CA Unified	Running	Automatic	Local Syste	
		Certificate Propagation	Copies user	Running	Manual	Local Syste	
		CNG Key Isolation	The CNG ke	Running	Manual (Trig	Local Syste	
		COM+ Event System	Supports Sy	Running	Automatic	Local Service	
		COM+ System Application	Manages th	Running	Manual	Local Syste	
		Computer Browser	Maintains a		Disabled	Local Syste	
	Extended (Standard /						_

Implement Web Customizations

- 1. If not already stopped, stop CA Service Desk services.
- 2. Browse to the directory where CA Service Desk is installed (e.g., C:\Program Files (x86)\CA\Service Desk Manager).
- 3. Copy the components package (CA_Service_Management_Integration_Components.zip) to the primary server and extract the contents to \patches.

Note: The patches folder is not created during CA Service Desk installation and may need to be manually created.

- 4. Locate detail_in.htmpl in .\patches\CA_Service_Management_Integration_Components\CA_ServiceDesk_FrontEnd_ Code\site\mods\www\htmpl\web\analyst and open the file in a text editor such as Notepad.
- 5. Open detail_in.htmpl in .\site\mods\www\htmpl\web\analyst in a text editor.

Note: If you have not previously customized your Analyst Incident interface, you will not find a detail_in.htmpl file located in .\site\mods\www\htmpl\web\analysts. In this case, you need to copy the detail_in.htmpl file from .\bopcfg\www\htmpl\web\analyst to .site\mods\www\htmpl\web\analyst.

- 6. Within the first file, from the patches folder, there are six code snippets that must be copied to the corresponding location in the second file. These snippets are surrounded by lines which read <!-- Integral Customization -- Start --> and <!-- Integral Customization -- End -->. Copy the code between those lines and paste them in the same locations in the second file.
 - Note: Do NOT copy the "Start" and "End" lines.
- 7. Save the file when complete.



) IMPORTANT!

If you have multiple Analyst type form groups, make sure to apply the changes to each **detail_in.htmpl** form located in each respective Analyst type form group. An Analyst type form group is any sub-folder underneath .\site\mods\www\htmpl\web\analyst.

8. Copy the following files from .\patches\CA_Service_Management_Integration_Components\CA_ServiceDesk_FrontEnd_ Code\site\mods\www\htmpl\web\analyst to .\site\mods\www\htmpl\web\analyst:

- detail_z_bomgar_session.htmpl
- detail_zbgr_connection_type.htmpl
- list_z_bomgar_session.htmpl
- list_zbgr_connection_type.htmpl
- Repeat steps 4-7 above but for cmdb_detail.htmpl in .\patches\CA_Service_Management_Integration_Components\CA_ ServiceDesk_FrontEnd_Code\site\mods\www\htmpl\web\analyst as the source file and .site\mods\www\htmpl\web\employee as the destination. There should be two snippets that must be copied and placed in the destination file.
- Repeat steps 4-7 above but for nr_cmdb_har_worx_tab.htmpl in .patches\CA_Service_Management_Integration_ Components\CA_ServiceDesk_FrontEnd_Code\site\mods\www\htmpl\web\analyst as the source file and .site\mods\www\htmpl\web\employee as the destination. There should be one snippet that must be copied and placed in the destination file.
- Repeat steps 4-7 above but for detail_in.htmpl in .\patches\CA_Service_Management_Integration_Components\CA_ ServiceDesk_FrontEnd_Code\site\mods\www\htmpl\web\employee as the source file and .\site\mods\www\htmpl\web\employee as the destination. There should be three snippets that must be copied and placed in the destination file.
- 12. Copy start_session.js from .\patches\CA_Service_Management_Integration_Components\CA_ServiceDesk_FrontEnd_ Code\site\mods\www\wwwroot\scripts.
- 13. Copy Bomgar.png from .\patches\CA_Service_Management_Integration_Components\CA_ServiceDesk_FrontEnd_ Code\site\mods\www\wwwroot\img to .\site\mods\www\wwwroot\img.
- 14. Open .\ns.env in a text editor and add the following line: **@NX_bomgar_HOST=<BeyondTrust_Host>** where **<BeyondTrust_ Host>** is the hostname of your BeyondTrust site (e.g., support.example.com).
- 15. Start the CA Service Desk Manager services.
- 16. Open an administraive command prompt window, change directories to .\patches\CA_Service_Management_Integration_ Components\CA_ServiceDesk_FrontEnd_Code, and run the command to load data into the zbgr_connection_type table: Pdm_load -i f zbgr_connection_type.txt.
- 17. Verify that all files copied in this section have been copied to each primary and secondary server. Log into each primary and secondary CA Service Desk server and verify that the web changes in this section have been replicated in the following files in these locations:
 - .\site\mods\www\htmpl\web\analyst
 - detail_in.htmpl
 - detail_z_bomgar_session.htmpl
 - detail_zbgr_connection_type.htmpl
 - list_z_bomgar_session.htmpl
 - list_zbgr_connection_type.htmpl
 - .\site\mods\www\htmpl\web\employee
 - detail_in.htmpl
 - .\site\mods\www\wwwroot\scripts
 - start_session.js
 - .\site\mods\www\wwwroot\img
 - Bomgar.png

Note: If any file does not exist in these locations on each primary and secondary server, copy the files from the server you made changes on to the primary/secondary servers in the above locations.

Add Web UI Elements

- 1. Log into CA Service Desk as an administrator.
- 2. Go to Administration > Security and Role Management > Role Management > Menu Trees.
- 3. Within the Menu Trees list, select admin_tree.

Note: If your admin tree is already customized, skip steps 4-6 and select your custom admin tree.

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File View Vindow Help V

Code

admin_tree Description

Menu Tree Name admin_tree

Administration Tree Last Modified Date

02/17/2016 01:48 pm

Menu Tree Detail

a <u>C</u>opy Pri<u>n</u>t Form...

- 4. Select File > Copy.
- 5. Fill in the following values:
 - a. Menu Tree Name: custom_admin_tree
 - b. Code: cat
 - c. Internal: No
 - d. Description: Administration Tree
- 6. Fill in the following values:
 - a. Menu Tree Name: custom_admin_tree
 - b. Code: cat
 - c. Internal: No
 - d. Description: Administration Tree

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- 7. Click Save.
- 8. Select Customize Menu.
- 9. Within ServiceDesk > Application Data > Codes, right-click Codes and click Create New Node.

ustom_admin_tree Menu Tree Detail	Edit	<u>C</u> ustomize Menu
Menu Tree Name	Record Status	
custom_admin_tree	Active	
Code	Internal	
cat	NO	
Description		
Administration Tree		
Last Modified Date	Last Modified By	
02/14/2016 06:06 am	ServiceDesk	

Ctestbgar:8080/CAisd/html/popup_frames.html?MENUB

CA Service Desk Manager



- 10. Create a new node with the following information:
 - a. Node Name: BeyondTrust Connection Type
 - b. **Resource:** BeyondTrust Connection Type

Note: If you do not have a BeyondTrust Connection Type resource, follow step 11 to create one. Otherwise, skip to step 12 once you have saved the record.

11. Click Save.

12. Click Save.

- 13. To create a new resource, click the blue **Resource** link, and select the **Create New** button from the displayed screen. Fill in the following information to create the BeyondTrust Connection Type resource:
 - Name: BeyondTrust Connection Type
 - Description: BeyondTrust Connection Type
 - **Resource:** OP=SEARCH+FACTORY=zbgr_connection_ type+QBE.EQ.delete_flag=0

В	omgar Connection Type Updat	e Menu Tree Node - CA Service Desk Manager - Google Chrome X
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	Bomgar Connection Type	Name Status
	Description	Active
		Description
		Resource
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	Bomgar Connection Type	

Bomgar Connection Type Menu Tree Resource Detail - CA Service Desk Manager - Google Chrome
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Bomgar Connect	ion Type Menu Tro	ee Resour	ce Detail		
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Bomgar Connecti	on Type		Ac	tive	
Description					
Bomgar Connecti	on Type				
Resource					
OP=SEARCH+FAC	CTORY=zbgr_connection_t	ype+QBE.EQ.(delete_flag=0		
Last Modified D	ate		La	st Modified B	By
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CA Service Desk N	CA Service Desk M	anager Incident			
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omgar Connection Ty-	<u>File • View • Window • Help</u>	-			
Node Name *					
Houe Hume	Menu Tree Resource Sea	arch 🚺 🧕	arch Hide Filter	Clea <u>r</u> Filter	Create <u>N</u> et
Bomgar Connection Type	Menu Tree Resource Sea	arch <u>S</u> e	arch Hide Filter	Clea <u>r</u> Filter	Create <u>N</u> ev
Bomgar Connection Type Description	Menu Tree Resource Sea	arch <u>Se</u> Status Active	arch Hide Filter	Clea <u>r</u> Filter	Create <u>N</u> ev
Bomgar Connection Type Description	Menu Tree Resource Sea	arch <u>Se</u> Status Active	arch Hide Filter	r Clea <u>r</u> Filter	Create <u>N</u> ev
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i	ctestbgar:8080/CAisd/html/popup_frames.html?POPUP_URLIX=0+popupType=2										
CA Service Desk Manager						Incident	Ţ		🛓 Se		
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ongar connection type menu tree keso	urce Detail
Name	Status
Bomgar Connection Type	Active
Description	
Bomgar Connection Type	
Resource	
OP=SEARCH+FACTORY=zbgr_connection_type+QBE.E	Q.delete_flag=0
Last Modified Date	Last Modified By
09/22/2016 02:23 pm	ServiceDesk

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- 14. Go to Administrator > Security and Role Management > Role Management > Tabs.
- 15. Click on Administration tab with full menu.
- 16. Select the **Administration** link from the starting page and edit the **Administration Web Form**.
- 17. Modify the **Resource** section to add the following to the end of the existing value: **+KEEP.tree_code=cat**.
- 18. Restart the CA Service Desk services.

ministration Web Form Detail	
web Form Name	Record Status
Administration	Active
Code	Туре
admin	HTMPL
Description	
Administration Form	
Resource	
<pre>\$cgi?SID=\$SESSION.SID+FID=123+OP=DISPLAY</pre>	'_FORM+HTMPL=admin_main_role.htmp +KEEP.tree_code=cat
Last Modified Date	Last Modified By
02/14/2016 06:16 am	ServiceDesk

Configure BeyondTrust for the CA Service Desk Integration

Several configuration changes are necessary on the BeyondTrust Appliance B Series to integrate with CA Service Desk. You must make these changes on each appliance for which you intend to create a plugin configuration, described in <u>"Configure the CA Service Desk</u> Plugin for Integration with BeyondTrust Remote Support" on page 16.

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

Verify the API Is Enabled

👔 Management

API CONFIGURATION

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.

API Configuration		
🛩 Enable XML API 🌒	Chable Archive API	
Allow HTTP Access to XML API		

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

Create an OAuth API Account

🔯 Management

API CONFIGURATION

The CA Service Desk API account is used from within CA Service Desk to make Remote Support Command API calls to Remote Support.

- 1. In /login, navigate to Management > API Configuration.
- 2. Click Add.

API Confi	guration						
 Enable XM 	L API 🚺		Caller Archive API				
Allow HTT	P Access to XIV	IL API					
• View the C	onfiguration A	PI Documentation					
		Care Allin Care and Market	(-				
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API Accor	Ints + J	Add					
API Accor Configure up t	unts + /	hdd nts. OAuth Client ID	не. 	Peri	missions	Enabled	
Download API Accol Configure up t Come *	unts + /	Ndd nts. DAuth Client ID	ec.	Peri • Co	missions	Enabled Yes	
API Accor forfigure up t tame *	Ints + 7	Ndd nts. DAuth Client ID		Per • Cc	missions anfiguration API	Enabled Yes	

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- 3. Check Enabled.
- 4. Enter a name for the account.
- OAuth Client ID and OAuth Client Secret is used during the OAuth configuration step in CA Service Desk.
- 6. Under Permissions, check the following:
 - Command API: Full Access.
 - Reporting API: Allow Access to Support Session Reports and Recordings, and Allow Access to Presentation Session Reports and Recordings.
- 7. Click Save at the top of the page to create the account.



Add an Outbound Event URL

🔯 Management

OUTBOUND EVENTS

- 1. Go to /login > Management > Outbound Events.
- 2. In the HTTP Recipients section, click **Add** and name it **Integration** or something similar.
- 3. Enter the URL to use:
 - If using an appliance ID of default: http://<middlewarehost>:<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

Software	Security	Site Configuration	Email Configuration	Outbound Events	Failover	API Configuration	Support
Cancel	Save						
Add HTT	P Recipien						
Required file	nid						
 Enable 	d						
Name 🔹 🕕			URL • 🕕				
Integration			http://middleware.ex	ample.com:8080/beyondtru	ist/		
Use a C	A Certificate 🕕		Send Custom Fiel	ds 👩			
Events to Se	nd		Retry Interval 🕕		Retr	Duration 🕕	
Support	Session Start		Every 1 Minute		▼ Afte	r 6 Hours	•
Support	Session End						
Someon	ie Joins a Suppor	t Session					
Someon	e Leaves a Supp	ort session					
Curtom	ar Exit Summers	Completed					
Represe	intative Survey is	Completed					
Email Contai	ct 🕕		Send Email Alert After	0	Rese	nd Email Alerts 🕕	
			After 1 Hour		▼ Eve	ry 2 Hours	-

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
 - Customer Exit Survey is Completed
 - Representative Survey is Completed
 - Someone Joins a Support Session (Optional)
- 5. Click Save.

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6. The list of outbound events contains 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.

HTTP Recipier	nts + Add					
Configure up to 10 er	iternal HTTP servers that wi	I be notified when certain session events occur. These s	servers must respond to each event with HT	IP 200 in order to be considered successful.		
Name *	Disabled	LIRL	Events to Send	Status		
Integration	No	https://middleware.host	Access Session End	The given remote host was not resolved.	1	
integration2	No	https://widdleware.host.8180	Access Session End	The given remote hest was not resolved.	1	
Test	No	https://middleware.htst.8180	Access Session End	The given remote hest was not resolved.	1	
Testing	No	https://tcpam1.qa.bomgar.com/	Access Session End	The requested unit was not found or returned another error with the HTTP error code being	1	

Configure the CA Service Desk Plugin for Integration with BeyondTrust Remote Support

Now that you have configured CA Service Desk and the BeyondTrust Appliance B Series, deploy and configure the CA Service Desk plugin.

- 1. Copy the provided plugin ZIP file to the server hosting the BeyondTrust Middleware Engine.
- 2. Extract the plugin ZIP file to the Plugins folder in the directory where the BeyondTrust Middleware Engine is installed.
- 3. Restart the BeyondTrust Middleware Engine Windows service.
- 4. From the server, launch the middleware administration tool. The default URL is http://127.0.0.1:53231.
- 5. The CA Service Desk Plugin shows in the list of plugins. Click the clipboard icon to add a new configuration.

For more information on installing and working with the BeyondTrust Middleware Engine, please see the <u>BeyondTrust Remote</u> <u>Support Middleware Engine Installation and Configuration</u> document at <u>www.beyondtrust.com/docs/remote-support/how-</u> to/integrations/middleware-engine.

BeyondTrust Appliance B Series

The first portion of the plugin configuration provides the necessary settings for communication between the plugin and the B Series 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.
- 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 B Series Appliance. If outbound events are not being used, this value is still required, but any value may be used.
- BeyondTrust Appliance B Series Host Name: The hostname of the B Series Appliance. Do not include https:// or other URL elements.
- BeyondTrust Integration API OAuth Client ID: The client ID of the OAuth account.
- 5. **BeyondTrust Integration API OAuth Client Secret:** The client secret of the OAuth account.
- 6. **Locale Used for BeyondTrust API Calls:** This value directs the B Series Appliance to return session data in the specified language.
- 7. **Disabled:** Enable or disable this plugin configuration.
- 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. We do not recommend this in production environments.



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 Use Non-TLS Connections: Leave unchecked unless it is the specific goal to use non-secure connections to the B Series 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. We strongly discourage using non-secure connections.

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

- 10. **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.
 - Support Session End
 - Customer Exit Survey is Completed
 - Representative Survey is Completed
- 11. **Polling Event Types:** If network constraints limit connectivity between the B Series Appliance and the middleware engine such that outbound events cannot be used, an alternative is to use polling. The middleware engine regularly polls the B Series 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.
- Note: One caveat to polling behavior versus the use of outbound events is that if a session has ended but the customer exit survey has not yet been submitted within the same polling interval, the customer exit survey is not processed. This does not apply to representative surveys since the session is not considered to be complete if a representative survey is still pending.
- 12. **Polling Interval:** Enter only if polling is used. This determines how often the middleware engine polls the B Series Appliance for sessions that have ended.
- 13. Retry Attempt Limit: Enter the number of retries that can be attempted if the plugin fails to process an event.
- 14. Retry Outbound Event Types: Specify which outbound events the plugin retries if it fails to process an event.
- 15. Retry Polling Event Types: Specify which polling events the plugin retries if it fails to process an event.

CA Service Desk Instance

The remainder of the plugin configuration provides the necessary settings for communication between the plugin and the CA Service Desk instance. The configuration settings include:

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- CA Service Desk Services URL: The services URL for the CA Service Desk instance (e.g., https://caservicedesk.example.com/ axis/services/USD_R11_WebService)
- 2. CA Service Desk Username: The username of the API account.
- 3. CA Service Desk Password: The password of the above user.
- 4. Enable Automatic Incident Creation on Session Start (Rep joins session): If checked, the plugin processes support_ conference_member_added events and the external key to determine whether to create a ticket within CA Service Desk or not. The plugin attempts to create the ticket only if this setting enabled, if the conference member joining the conference is a representative, and if the external key is either a JSON string or the literal value CHAT.
- 5. Enable Automatic Incident Creation on Session End: If checked, the plugin processes support_conference_end events as usual but also examines the external key to determine whether to create a ticket within CA Service Desk or not. The plugin attempts to create the ticket only if this setting is enabled and if the external key is empty, is a JSON string, or is the literal value CHAT. If the external key is any other value, it is assumed to be a valid ticket ID, and the session is processed as usual (i.e., no ticket is created).

	inutes)
Number of minutes be	tween polling attempts. This field only has meaning if the plugin subscribes to polling events.
Retry Attempt Limit	
11	
The maximum numbe	of retry attempts for events the plugin failed to process.
Retry Outbound Eve	nt Types
Support Session E	nd
Customer Exit Sun	ey is Completed
Representative Su	vey is Completed
Someone Joins a !	Aupport Session
Retry Polling Event	ypes
Support Session E	ad .
CA Service Desk Ser	vices URL
http://jondvcasd.net	rorkstreaming.local.8080/axis/services/USD_R11_WebService
The services URL for	he CA Service Desk instance (ex: https://caservicedesk.example.com/axis/services/USD_R11_WebService)
CA Service Desk Use	mane
ServiceDesk	
The username for API	calls to the CA Service Desk instance
CA Service Desk Par	sword
The password for the	user account for API calls to the CA Service Desk instance
Enable Automatic I	ncident Creation on Session Start (Rep joins session)
	creation of an incident when a session STARTS that is not already tied to an existing incident (Note: requires external key to be either a JSON string or the
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Enables the automatic 'CHAT' when the Repr	
Enables the automatic 'CHAT' when the Rep Enable Automatic I	ncident Creation on Session End
Enables the automatic 'CHAT' when the Repr Enable Automatic I Enables the automatic empty when the sessi	ndderf Creation on Session End creation of an incident when a session ENDS that is not already lied to an existing incident (Note: requires external key to be a JSON string, the value "CH in ends)
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Enables the automatic CHAT when the Repu Enable Automatic Enables the automatic mempy when the sessi Ticket Default Data "summary", "Tick "category", "gat "ingency", "3", "ingency", "2", "description", "Tic "customer", "ant), "customer", sent),	conset of series of an incident when a sension EXISS that is not already lied to an existing incident (Mote: requires external key to be a JSON siting, the value "OH or ended" constants via BeyondTrust Remote Support Sension", 1977.
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6. Ticket Default Data: A JSON string containing values that can be used to prepopulate certain fields on the newly created ticket.

After saving the configuration, click the test icon next to the new plugin configuration. No restart is needed.

Report Templates

On the BeyondTrust Middleware Engine server, in the **<install dir>\Plugins\<integration>\Templates** folder, there are multiple files ending with ***.hbs**. These are Handlebars template files. These files are used by the plugin to format the 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 you are editing a template, we recommend copying and saving the original in case the changes need to be reverted.



Use Cases for the CA Service Desk Integration with BeyondTrust Remote Support

Generate Session Key

Support staff can generate a session key that can be given to the end user over the phone or via email to initiate a support session that is automatically associated with the selected ticket.



Import BeyondTrust Session Data into Ticket

Once the session ends, the ticket is automatically updated with information gathered during the session, including:

- Chat Transcript (including files transferred, special actions, and other events)
- **System Information** (the General section plus other select details such as disk, memory, and network)
- Session Notes
- Surveys (customer and representative)





Jump to Configuration Item

Support staff can leverage BeyondTrust Jump Technology to access a configuration item associated with a ticket directly from the Service Desk ticket. The following Jump types are available:

- Jump Client (Pinned Client)
- Local Jump (Push and Start Local)
- Remote Jump (Push and Start Remote)
- Remote Desktop Protocol (RDP)
- Shell Jump (Remote Console)

Inte	gral35	Config	uration I	tem Detai	Edit Jump	To <u>A</u>	sset Viewer	CMDBf Viewer	Cause and
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R	equester	Affected End ServiceDesk	User	Incident Area Hardware	Status Open	Priority 3	Active? YES	
	🔺 Detail							
R	eported By		Assignee	Group		Affected Service		
S	erviceDesk		ServiceDesk					
U	rgency		Impact	Major Incident		Configuration Item		
3-	Quickly		3-Single Group	No	Г	Integral35 Select a Jump method Select a Jump method	3	
P	roblem		Symptom	Resolution Code		Push to Start - Remote Start pinned Client Session Start RDP Session		
C	all Back Date/Time		Change	Caused by Change Order		Start Shell Jump Session		

Click-to-Chat for Self Service Users

Self Service users can open their submitted tickets and start a chat support session directly from the Service Desk ticket. This allows the user the quickest path to resolution while also providing the representative with the necessary context to assist the user. Sessions can be elevated to full support sessions if enabled and when necessary.

			Get Support Now	Edit Incident	Add Comment	Attach Document	Close
Open Date/Tir	ne	Sta	tus L	Irgency	Incident Are	10	
11/20/2014 02:	24 am	Ope	in 3	-Quickly	Hardware		
To ald out Days	1						
Incluent Desci	iption						
Testing							
Properties							
Properties							
Name		Value		Example			
History							
Contact	Date	Туре	Summary				
ServiceDesk	11/20/2014 02:30 am	Log Comment	SUPPORT CONFE	RENCE END			
ServiceDesk	11/20/2014 02:29 am	Log Comment	SUPPORT CONFE	RENCE CUSTOMER I	EXIT SURVEY COMPLET	ED	
ServiceDesk	11/20/2014 02:28 am	Log Comment	SUPPORT CONFE	RENCE OWNER CHA	NGED		
ServiceDesk	11/20/2014 02:28 am	Log Comment	SUPPORT CONFE	RENCE MEMBER AD	DED		
ServiceDesk	11/20/2014 02:27 am	Log Comment	SUPPORT CONFE	RENCE OWNER CHA	NGED		
ServiceDesk	11/20/2014 02:27 am	Log Comment	SUPPORT CONFE	RENCE MEMBER AD	DED		
ServiceDesk	11/20/2014 02:27 am	Log Comment	SUPPORT CONFE	RENCE BEGIN			
ServiceDesk	11/20/2014 02:27 am	Log Comment	SUPPORT CONFE	RENCE OWNER CHA	NGED		
ServiceDesk	11/20/2014 02:24 am	Initial	Create a new rea	puest/incident/proble	em/change/issue		

Auto-Ticket Creation

For previously unreported issues or questions, the end user can submit some basic information and immediately begin a support session. Meanwhile, the integration takes the submitted information from the session and creates a new Service Desk ticket. This saves time and unnecessary steps for the end user and support staff.