# BeyondTrust

# Remote Support Microsoft Dynamics 365 Integration

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# **BeyondTrust Remote Support Integration with Microsoft Dynamics 365**



IMPORTANT!

You must purchase this integration separately for both your Remote Support software and your Microsoft Dynamics 365 solution. For more information, contact BeyondTrust's Sales team.

Service desks and customer support organizations using Microsoft Dynamics 365 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 Microsoft Dynamics 365.

The Microsoft Dynamics 365 integration with BeyondTrust Remote Support provides the following functionality:

- A BeyondTrust session key can be generated from within a Microsoft Dynamics 365 case.
- When the BeyondTrust session ends, session data can be pushed into the case and viewed from within the case.

The integration consists of two main parts:

- Middleware which receives event notifications from the BeyondTrust Appliance B Series and pushes data into Microsoft Dynamics 365
- Two Microsoft Dynamics 365 solutions which provide customization to the Microsoft Dynamics 365 user interface

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# Prerequisites for the BeyondTrust Remote Support Integration with Microsoft Dynamics 365

To complete this integration, please make sure 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 newer
- Microsoft Dynamics 365

#### **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	Microsoft Dynamics 365	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 Microsoft Dynamics 365 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> to/integrations/middleware-engine.

# Configure Microsoft Dynamics 365 for Integration with BeyondTrust Remote Support

Configuration within Microsoft Dynamics 365 consists of installing two custom solutions:

- 1. Log into https://make.powerapps.com as an administrator.
- 2. Ensure the appropriate environment is selected.
- 3. In the left menu, click Solutions.



- 4. Click Import.
- 5. From the Import a Solution pop-up, click Browse and select the provided BeyondTrust\_1\_x\_managed.zip. Click Next.
- 6. When presented with Solution Information, click Import.
- 7. When the solution is finished importing, click Publish All Customizations.
- 8. Repeat the above steps to import the BeyondTrustButton\_1\_x\_managed.zip file.
- 9. In the list of solutions, open the BeyondTrust Remote Support solution.
- Open the resource in the list named bt /javascripts/LaunchModalDialog.js.

=		$+$ New $\vee$ $+$ Add existing $\vee$ $ extsf{int}$ Delete $\vdash$	• Expo	rt 🗔 Publish all customizations \cdots	= All ~ $\wp$ Search
Ġ Home		Solutions > BeyondTrust Remote Supp	ort		
🛄 Learn					
IP Apps		Display name $\vee$		Name	Type $\sim$
+ Create		BeyondTrustGenerateSessionKey 🛙		BeyondTrustGenerateSessionKey	Process
🖽 Data	$\sim$	/images/med_icon.png 12		bt_/images/med_icon.png	Customization.Type_WebResource
e <sup>re</sup> Flows		/images/small_icon.png 🛛		bt_/images/small_icon.png	Customization.Type_WebResource
Chatbots	~	O Javascripts/LaunchModalDialog.js 🖾		bt_/javascripts/LaunchModalDialog.js	Customization.Type_WebResource
Al Builder	$\sim$	BeyondTrust Error		bt_error	Table
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		event_type		bt_event_type	Choice
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11. Click the **Text Editor** button. In the editor, find the line that begins with **var hostname =** and change to the appropriate hostname for the Remote Support appliance. Click **OK** when done.

1					
var hostname	= 'support.example.com	1			
var caseNumb	er = Xrm.Page.data.entit	y,attributes.get('ticketnun	nber').getValue()		
var url = 'http	s://" + hostname + "/apl/	client script?			
type=rep&op	tration=generate&action	egenerate session key&	session custom external	key=' + caseNumber	
Vindow.open	ato:				
alert(e);					
}					
}					

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12. Click Save, and then click Publish.

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# Configure API Access with Azure AD

Within the Azure AD Tenant, you must create an app registration and bind an application user account to that registered app.

Follow the instructions in the section titled **Connect as an app** in the following Microsoft guide:

https://docs.microsoft.com/en-us/powerapps/developer/data-platform/authenticate-oauth#connect-as-an-app

Note: After creating the registration, you will create a client secret under Certificates & Secrets in the app registration. This secret will be leveraged by the integration when you configure the Middleware plugin.

### **Configure Permissions for the Application Account**

Once you have created the app registration, custom security role, and application account, the final step is to give the account the appropriate permissions within Dynamics 365.

- 1. Log into the Power Platform Admin Center at https://admin.powerplatform.microsoft.com/.
- 2. Select your environment.
- 3. Click Settings at the top to view the environment settings menu page.



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4. Expand Users + permissions and select Security roles.



- 6. Click the Edit link at the top.
- 7. On the **Service** tab, scroll down to the **Case** entity and assign the role **Read** and **Append To** permissions at **Organization** level (click multiple times to change to the appropriate level).

Security Role: BeyondTru:	st Integration								Working on solution: De	fault
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irticle	0	0	0	0	0	0				
uticle Template	0	0	0	0		0				
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lookable Resource Booking	0	0	0	0	0	0	0	0		
lookable Resource Booking Header	0	0	0	0	0	0	0	0		
lookable Resource Category	0	0	0	0	0	0	0	0		
lookable Resource Category Assn	0	0	0	0	0	0	0	0		
lookable Resource Characteristic	0	0	0	0	0	0	0	0		
lookable Resource Group	0	0	0	0	0	0	0	0		
looking Status	0	0	0	0	0	0	0	0		
lase	0	•	0	0	0	•	0	0		
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with **BeyondTrust** and assign all permissions at **Organization** level for these **BeyondTrust** entity types.

8. On the Custom Entities tab, scroll down to the entities that begin

9. Click **Save and Close** at the top to save the new permissions.

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# Configure BeyondTrust Remote Support for Integration with Microsoft Dynamics 365

Several configuration changes are necessary on the BeyondTrust Appliance B Series to integrate with Microsoft Dynamics 365. 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 Beyond feature is used by the BeyondTrust N with the BeyondTrust APIs.	Trust XML API to be enabled. This /iddleware Engine to communicate	API Configuration	Cable Active API	
Go to /login > Management > API ( XML API is checked.	Configuration and verify that Enable			

## **Create an OAuth API Account**

🔯 Management

**API CONFIGURATION** 

The Microsoft Dynamics 365 API account is used from within Microsoft Dynamics 365 to make Remote Support Command API calls to Remote Support.

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

API Configu	iration					
Enable XML /	NPI	Enable Archive API				
Allow HTTP A	iccess to XML API					
• View the Con	figuration API Documentation					
a Download th	e Configuration API's OpenAPI YAML	file.				
L Download th	e Configuration API's OpenAPI YAML	fie.			 	
API Account	e Configuration API's OpenAPI YAML	fie.				
API Account	e Configuration API's OpenAPI YAML	tie.				
API Account	e Configuration API's OpenAPI YAML ts + Add 10 API Accounts.	fle.				
API Account Configure up to 3 Name *	ts + Add 10 API Accounts. OAUD Client ID	fle.	Perr	nissions	Enabled	
Download th     API Account     Configure up to 3     Name *     api	ts + Add 0 API Accounts. 0 Auth Client ID	fle.	Perr • Co	nissions niguration API	Enabled Yes	_

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# BeyondTrust

- 3. Check Enabled.
- 4. Enter a name for the account.
- 5. **OAuth Client ID** and **OAuth Client Secret** is used during the OAuth configuration step in Microsoft Dynamics 365.
- 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 HT1	P Recipier						
Required th	sla						
<ul> <li>Enable</li> </ul>	d						
Name 🔹 🕕			URL • 🕕				
Integration			http://middleware.ex	ample.com:8080/beyondtru:	st/		
Use a C	A Certificate 🕕		Send Custom Fiel	is 🕕			
Events to Se	nd		Retry Interval 🕕		Retry	Duration 💿	
Support	Session Start		Every 1 Minute		▼ Afte	r 6 Hours	-
Support	Session End						
Someor	ie Joins a Suppo	nt Session					
Support	Session Owner	ship Changes					
Custom	er Exit Survey is	Completed					
Represe	intative Survey i	Completed					
Email Conta	ct 🕕		Send Email Alert After	•	Rese	nd Email Alerts 🕕	
			After 1 Hour		• 5.0	or 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 Recipient	ts + Add					
Configure up to 10 ext	ienal HTTP servers that wi	I be notified when certain session events occur. These servers	must respond to each event with HTTP	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	http://middleware.host8180	Access Session End	The given remote host was not resolved.	1	
168	No	http://middleware.host8180	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 400 or alread	1	

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# Configure the Microsoft Dynamics 365 Plugin for Integration with BeyondTrust Remote Support

Now that you have configured Microsoft Dynamics 365 and the BeyondTrust Appliance B Series, deploy and configure the Microsoft Dynamics 365 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 Microsoft Dynamics 365 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.
- 4. **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.

#### **Microsoft Dynamics 365 Instance**

The remainder of the plugin configuration provides the necessary settings for communication between the plugin and the Microsoft Dynamics 365 instance. The configuration settings include:

- 1. **Microsoft Dynamics 365 URL:** URL of the Microsoft Dynamics 365 instance.
- 2. Azure AD Tenant ID: The Tenant ID of the Azure instance.
- 3. **Azure AD App Registration ID:** The ID of the app registration created for this integration.
- 4. **Azure AD App Registration Client Secret:** The client secret created under the app registration.
- Update Microsoft Dynamics 365 with all BeyondTrust sessions: If enabled, all BeyondTrust sessions are imported into Microsoft Dynamics 365.

Microsoft Dynamics 365 URL	
https://your-site.crm.dynamics.com	-
Example: https://your-site.crm.dynamics.com.	
Azure AD Tenant ID	
c849ac5e-8e76-40d4-80c7-242b47e8fec4	*
Azure AD App Registration ID	
408b2255-d3a3-4009-842c-b1c9bf72adae	*
Azure AD App Registration Client Secret	
	9 <b>.K</b> ı
This should be the value of the secret, not the ID of the secret.	
Update Microsoft Dynamics 365 with all support sessions	
If enabled, all Remote Support sessions will be imported into Microsoft Dynamics 365.	
List of Allowed Microsoft Dynamics 366 Prefixes	
	10
If desired, enter a comma separated list of allowed Microsoft Dynamics 365 prefixes. Example: ABC, CBA. Only Borngar sessions related to these prefixes will be imported. NOTE: If "Update CRM with all support sessions" is checked, the value in this field is ignored.	
Import Timestamp as UTC	
If enabled, any datetime values will be imported as UTC times. If not enabled, datetime values will be imported using the local time zone.	

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6. List of Allowed Microsoft Dynamics 365 Prefixes: If desired, enter a comma-separated list of allowed Microsoft Dynamics 365 prefixes (e.g., ABC, CBA). Only BeyondTrust sessions related to these prefixes are imported.

Note: If Update 365 with all BeyondTrust sessions is checked, the value in this field is ignored.

7. **Import Timestamp as UTC:** If enabled, any datetime values are imported as UTC times. If not enabled, datetime values are imported using the local time zone.

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

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# Use Cases for the Microsoft Dynamics 365 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 case.

Microsoft Dynamics CRM 🛛 🗮 🛛 Service 🗠 Case		© ⊕	Search CRM data ,C	6	Romper Integration	•
SAVE & ROUTE + NEW C, CREATE ORD CASE D, RESOLVE CASE	R CANCEL CASE II, ADD TO QUEUE III QUEUE ITEM DETAILS	\$4 ASSIGN \$5 DO NOT DECREMENT ENT.	***			↑ ÷ 3
			窗 Delete			
CASE			Dompar Session Key			land.
B4 Case =		2	Q Share	556 PM	In Progress	∆ Rot av
0			ne treal a Unic			
Identify (Active)	Research		st Follow			+ Not
✓ Find Customer* III Test Customer			& Run Workflow			
Find Contact eliek to enter			R Start Dialog			
✓ Find Case			Switch Process			
General			✓ 6d4 Process			
			Word Templates +			
CASE DETAILS	POSTS ACTINITIES KB RECORDS NOTES		Ran Report +			
Case Title # B4 Case	All Entities •   Add Phone Call Add Task	*	III Form Editor	R DETAILS		
D B CAS-00004-DeWING	We didn't find any activity records.		Test Contore			

### Import BeyondTrust Session Data into Ticket

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

- General Information
- Chat Transcript (including files transferred, special actions, and other events)
- Session Events
- System Information (General section)
- Session Notes
- Surveys (customer and representative)



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