# BeyondTrust

## Remote Support ServiceNow CSM Integration

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#### Integrate BeyondTrust with ServiceNow CSM

Customer service organizations using ServiceNow and the ServiceNow Customer Service Management (CSM) application can integrate with BeyondTrust Remote Support to improve service levels, centralize support processes, and strengthen compliance. Features of the Remote Support Remote Support and ServiceNow CSM integration are summarized below.

- Outbound Support Sessions: Technicians can launch Remote Support sessions from within ServiceNow case records using the Generate Session Key button.
- Session Updates: Remote Support session data is written back to ServiceNow ases. This includes chat transcripts and basic Remote Support session information, which is written to the case's work notes.
- Automatic Case Creation: Cases can be automatically or manually created or associated with an ongoing Remote Support session, and linked to the session for session updates at the conclusion of the session. By default, the auto-create functionality is disabled and not available to users of the integration. There is no additional cost to customers who wish to use the feature.

The ServiceNow application is available at the <u>ServiceNow Store</u>.

#### **Integration Requirements**

Outlined below are requirements for the BeyondTrust Remote Support and ServiceNow CSM integration. If any of the integration requirements are not yet met, they must be in place prior to starting the integration setup process, unless the associated features of the integration are not required.

#### **Review Base Integration Requirements**

A current version of a ServiceNow release, including:

- A working Customer Service Management application
- A working email configuration

A current release of BeyondTrust Remote Support including:

- At least one usable representative console capable of generating session keys
- A functional Remote Support site through which users can connect to representatives

To configure network firewall rules for this integration, do the following:

- Allow TCP 443 traffic from the B Series Appliance to the appropriate ServiceNow instance.
- Allow TCP 443 traffic from the appropriate ServiceNow instance to the B Series Appliance.
- Optionally, use ServiceNow MID Servers for this integration.

For more information on MID Servers, please see <u>MID Server Configuration at https://docs.servicenow.com/bundle/utah-</u>servicenow-platform/page/product/mid-server/concept/mid-server-landing.html.

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#### **Test the Firewall**

It is important to test all requirements of the integration prior to beginning setup. Most of these can be tested by the Remote Support and ServiceNow administrators within their respective systems, but to test the network firewall, the BeyondTrust admin should take the following steps to confirm that the necessary rules are in place.

- 1. Log in to a machine either external to the B Series Appliance's network or in the same VPN as the ServiceNow instance, depending on how ServiceNow is connecting to the B Series Appliance's network.
- 2. Log in to the B Series Appliance's /appliance interface.
- 3. Browse to Support > Utilities :: TCP Connection Test.
- 4. Enter the hostname of the ServiceNow instance, enter the port number of **443**, and then click **Test**. A successful result is a *Connected* status message.

Note: Do not enter the protocol when entering the ServiceNow instance (https://servicenow.example.com, for example). Instead, use only the fully qualified domain name (servicenow.example.com). In most environments, BeyondTrust Remote Support resides in a DMZ network and has a public DNS address which ServiceNow contacts over the public internet. In some environments, Remote Support is not publicly accessible. In these cases, contact ServiceNow about implementing a VPN connection to your internal network for ServiceNow. For more information, please see <u>Virtual Private Network (VPN)</u> at <u>https://docs.servicenow.com/bundle/utah-platform-security/page/administer/encryption/concept/c\_</u> <u>SetUpAVPN4SNowBusNet.html</u>.

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#### **Configure BeyondTrust Remote Support**

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 that the API is Enabled

The Remote Support integration requires the Remote Support XML API to be enabled. This feature is used from within the integrating software to communicate with the Remote Support APIs.

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



#### **Create a ServiceNow OAuth API Account**

The ServiceNow API account is used from within ServiceNow to make Remote Support Command API calls.

- 1. Go to /login > Management > API Configuration.
- 2. Click **Add** to create a new API account. Name it *ServiceNow* or something similar.
- 3. Under Reporting API, check:
  - Allow Access to Support Session Reports and Recordings.
  - Allow Access to Presentation Session Reports and Recordings.
- The OAuth Client ID and OAuth Client Secret are used during the OAuth configuration step in ServiceNow. Make note of these and store them in a secure location.
- 5. Click Save.

Required field		
Enabled		
Name •	OAush Client ID	
ServiceNow		O
lomments	OAuth Client Secret	-
		Ø
	You are responsible for storing the Client Secret secure location. This is the only time you will be	t in a able
	to view this Client Secret in plain text.	
	li li	
PERMISSIONS		
PERMISSIONS At least one permission must be enabled for ar Command API	n API account. Reporting API	Backup API
PERMISSIONS At least one permission must be enabled for ar Command API O Deny	n API account. Reporting API 2 Allow Access to Support Session Reports and Recordings	Backup API
PERMISSIONS At least one permission must be enabled for an Command API Deny Perad-Ony Pial Access	n API account. Reporting API Allow Access to Support Session Reports and Recordings Allow Access to Presentation Session Reports and Recordings	Backup API
PERMISSIONS At least one permission must be enabled for an Command API Deny Read-Only Full Access	n API account. Reporting API Allow Access to Support Session Reports and Recordings allow Access to Desentation Session Reports and Allow Access to Lettree Usage Reports Allow Access to Lettree Usage Reports	Backup API Allow Access  Allow Vault Encryption Key Access
PERMISSIONS At least one permission must be enabled for ar Command API Deny Densd Only Brad Access	n API account. Reporting API Allow Access to Support Session Reports and Recordings Allow Access to Presentation Session Reports and Allow Access to Interest Usage Reports Allow Access to Archive Reports	Eackup API Allow Access Allow Yout Encryption Key Access Allow Yout Encryption Key Access
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PERMISSIONS At least one permission must be enabled for an Command API Outy Bease3-Ony Full Access Configuration API At work Access	n API account.  Reporting API  Allow Access to Support Session Reports and Recordings  Allow Access to Presentation Session Reports and Recordings  Allow Access to Unstree Usage Reports  Allow Access to Valuet Account Actively Reports  Real-Time State API  Allow Access	Backup API  Allow Access Allow Access Allow Vault Encryption Key Access Endpoint Credential Manager API Allow Access

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#### Add Outbound Events and Links



#### IMPORTANT!

Options 1 and 2 apply to integration without case creation. If using case creation, you cannot use Option 1 and Option 2 or 3 simultaneously, as Option 1 is automatic and options 2 and 3 are manual. You must choose one or the other based on their use cases and process. You may, however, use options 2 and 3 simultaneously.

#### **Option 1: Add Outbound Events**

Outbound events are used to notify ServiceNow that a Remote Support session has finished and is ready to be imported into ServiceNow, or that a representative has joined a Remote Support session and a *create case* request can be sent to ServiceNow.

- 1. Go to /login > Management > Outbound Events.
- Click Add to create a new event. The event names provided below are suggestions. You may use something different, depending on your ServiceNow instance.
  - For session import, name it ServiceNow Integration.
  - For case creation, name it ServiceNow Integration Auto-Create.
- 3. Set the URL.
  - For session import: https://example.service-now.com/api/x\_ bmgr\_crm/outbound\_event/session\_end, where example.service-now.com is the ServiceNow instance name.
  - For case creation: https://example.service-now.com/api/x\_ bmgr\_crm/outbound\_event/case?auto\_create=true, where example.service-now.com is the ServiceNow instance name.
- 4. Scroll to Events to Send and check the box labeled Support Session End
- 5. At the top of the page, click Save.



ADD HTTP RECIPIENT				
Required field				
Enabled				
Name • 0	URL • O			
Auto-Create	https://support.example.com/api/x_	bmgr_crm/outbound,		
Use a CA Certificate 🜒 🕞	Send Custom Fields			
Sunnort Session Start	Retry Interval		Reby Duration	
Support Session End	Every 1 Minute	~	After 6 Hours	
Someone Joins a Support Session				
Someone Leaves a Support Session				
Support Session Ownership Changes				
Customer Exit Survey is Completed				
Representative Survey is Completed				
Someone Sends a Chat Message				
Chat Elevation is Requested				
Email Contact	Send Email Alert After 🚯		Resend Email Alerts	

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#### **Option 2: Set up the Custom Link**

Remote Support custom links can be configured to allow representatives to access or create ServiceNow records from within the Remote Support representative console.

- 1. Browse to **Rep Console > Custom Links**.
- 2. Click Add to create a new custom link.
- 3. Enter a name for the link.
- 4. Set the URL.
  - For access: https://example.service-now.com/nav\_ to.do?uri=sn\_customerservice\_case.do?sys\_ id=%SESSION.CUSTOM.SNOW\_CASE\_ID%, where example.service-now.com is the ServiceNow instance name.
  - For case creation: https://example.service-now.com/nav\_ to.do?uri=x\_bmgr\_crm\_auto\_create\_ link.do?lsid=%SESSION.LSID%%26username= %REP.USERNAME%%26auto\_create=true, where example.service-now.com is the ServiceNow instance name.

Auto-Create Inciden URL • https:///nav\_to.do?uri=x\_bmgr\_crm\_auto\_create\_link.do? lsid=%SESSION.LSID%%26username=%REP.USERNAME% %26auto\_create=true The following macros can be used to include information about the session: Macro Purpose %SESSION.CUSTOM.<code name>% The value of the custom session attribute with the given <code name</pre> SESSION DETAILS Description entered by the description %SESSION.ISSUE% Description of the support issue %SESSION.LSID% Unique session identifier SESSION DRIORITY 1 = High, 2 = Medium, 3 = Low %SESSION.SKILLS% Comma-separated list of skill code names The following macros can be used to include information about the end customer: 🗸 The following macros can be used to include information about the representative who is opening the custom link:

• If needed, you can use any of the available macros to customize the link according to your specifications.

**Note:** If the customer is using External Key to store the case **sys\_id**, then use the macro **%SESSION.CUSTOM.EXTERNAL\_ KEY%** instead.

CANCEL

5. Click Save to save the new link.

#### **Option 3: Set up Advanced Custom Link**

Remote Support custom links can be configured to allow Representatives to launch a page in ServiceNow where they can choose to **Associate** the session with an existing case, or **Create** a new case by clicking a button.

- 1. Browse to Rep Console > Custom Links.
- 2. Click Add to create a new custom link.
- Enter a name for the link, then set the URL to https://example.service-now.com/nav\_to.do?uri=x\_bmgr\_crm\_ auto\_create\_

DD A CUSTOM LINK	
Required field	
ame •	
Create ServiceNow Case	
RL •	
https:///nav_to.do?uri=x_bmgr_crm_auto_create_link.do? lsid=%SESSION.LSID%%26username=%REP.USERNAME% %26auto_create=true	
The following macros can be used to include information	about the session: 🗸
The following macros can be used to include information	about the end customer: $\checkmark$
The following means are be used to include information	about the representative who is opening the custom link:

q

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*link.do?lsid=%SESSION.LSID%%26username=%REP.USERNAME%%26auto\_create=true*, where *example.service-now.com* is the ServiceNow instance name. If needed, you can use any of the available macros to customize the link according to your specifications.

4. Click Save to save the new link.

#### **Create Custom Fields**

BeyondTrust custom fields are used to map ServiceNow Tasks (tasks, change requests, problem records, and service catalog requests), call records, and configuration items to BeyondTrust sessions.

- 1. Browse to Configuration > Custom Fields.
- 2. Click Add to create a new custom field.
- 3. Enter the following values:
  - Display Name: ServiceNow Case ID
  - Code Name: snow\_case\_id
  - Show in Rep Console: checked
- 4. Click **Save** to save the new field.



#### **Custom Fields for Automatic Case Creation**

There are a number of custom fields that are available to use in an auto-create scenario. These fields can be used to populate values when the session starts, and then configured in ServiceNow to be mapped to case values.

- 1. Browse to Configuration > Custom Fields.
- 2. Click Add for each of the following custom field code names.



- customer\_username
- snow\_case\_id

**Note:** The **snow\_case\_id** field should already have been created with the base ServiceNow ERS CSM Integration configuration.

- custom\_field\_1
- custom\_field\_2
- custom\_field\_3

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## Configure ServiceNow for Integration with BeyondTrust

Unless otherwise noted, all of the steps in this section take place in the ServiceNow interface. We recommend that you initially use development or test instances of ServiceNow before installation in the production instance, so that the integration can be thoroughly tested.

#### Install BeyondTrust Integration

The Integration must be purchased directly from BeyondTrust. After the purchase, it is installed via the ServiceNow Store. There is no mechanism to purchase the integration at the ServiceNow Store. Follow the steps below to request and install the integration.

- 1. Log in to your ServiceNow platform with your corporate account. Please contact your company Now Support (HI) admin if you do not have credentials.
- Search for BeyondTrust Remote Support CSM Integration, or <u>go to</u> the app's page at <u>https://store.servicenow.com/sn\_appstore\_</u>



store.do#!/store/application/d1918af2db7513000710e7b51b96195b/.

- 3. Click Request App.
- 4. Request Remote Support with CSM.
- 5. Within a business day, BeyondTrust approves the request with a \$0 purchase price, and sends a copy of these installation instructions to the requester.
- 6. Once you receive the confirmation, return to the app's page in the ServiceNow store.
- Click Complete Purchase.
- 8. Review the contract details.
- 9. If you agree, check Accept the Site Terms of Use.
- 10. Click Complete Purchase.
- 11. The app is ready for installation on your ServiceNow instance(s).
- 12. Repeat the steps below for each instance.
- 13. Login to the ServiceNow instance on which you want to install the app.
- 14. Navigate to System Applications > All Available Applications > All.
- 15. Search for the app you want to install.
- 16. Click Install.

For more information on installing applications, please see <u>ServiceNow's Help Page</u> at <u>https://store.servicenow.com/sn\_appstore\_store.do#l/store/helpcenter.</u>

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#### Set Up ServiceNow Integration with Remote Support

Follow these steps in ServiceNow to connect ServiceNow to Remote Support.

#### Browse to BeyondTrust CSM Appliances.

Click **New** to add a new Remote Support appliance record and enter the following values:

- 1. Name: Must be Default.
- 2. Hostname: Host name of the Remote Support deployment.
- 3. OAuth Client ID: The OAuth client ID that is used to authenticate to the Remote Support deployment. This is obtained in a previous step, "Create a ServiceNow OAuth API Account" on page 7.
- OAuth Client Secret: The OAuth client secret that is used to authenticate to the Remote Support deployment. This is obtained in a previous step, "Create a ServiceNow OAuth API Account" on page 7.
- 5. Integration Enabled: Check this box to enable the integration.
- 6. Outbound Event Token: The token that is used as an added security measure to confirm outbound events are coming from the Remote Support deployment that is sending the same token. If left blank, this outbound event token process is ignored. If a value is provided, however, the same value must be sent from all outbound events coming from BeyondTrust as a parameter named outbound\_event\_token.

servicenuw 🕬	Hanagoment					🥘 System Administrate	-	۹ ۵	0
	< = Appliance New record						ø	÷	ee Sabrit
e * 0	*	same Default	0		Username				
Asto Recovery	Host	same			Password	9			
Domgar Remote Support	Integration Er	abled 💌			Auto Associate With User	<ul> <li>Image: A start of the start of</li></ul>			
Sepport Sessions Holp Appliances Pull Sepport Sessions Undate Fund Twees	Import External Se Accepted IP Add Work Note Logging Emplo	sions   sions  sions  yee Self Service  Miscellanee			Use Rep Console For Session Keys				
Configuration by Category	hum			0	Self Service Enabled	<b>v</b>			
Content Management	© =	er =	Code Name	≣ Active	Session Start Type	Click to Chat			
Contextual Search	+ km	rt a new row							
Homepage Admin	Gabert								
Netrica									
41D Server									

7. Accepted IP Addresses: A comma-separated list of IP addresses from which this integration accepts outbound events.

#### **Assign Users Appropriate Roles**

Give the **x\_bmgr\_crm.agent** role to ITIL users who provide technical support using this integration.

**Note:** You must elevate the admin's role in order to make the following change.



- 1. Browse to User Administration > Users.
- 2. Select a user.
- 3. Click the Roles tab, and then click the Edit button.
- Add the x\_bmgr\_crm.agent role from the Collection list to the Roles list.
- 5. Click Save.



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#### **Configure Case States**

Case states are used in the Remote Support Integration, specifically UI Actions like **Session Key**, to control when the button shows up on case forms.

- 1. Browse to Case and click Open to see a list of open cases.
- 2. Click **Case Number** to select a case.
- 3. Right-click the label for the State field or any other field which uses a dropdown or choice list, and click Show Choice List.
- 4. Filter the list by Table=sn\_customerservice\_case and Element=state.
- 5. Take note of the different **sn\_customerservice\_case** choices, specifically the value of cases with a label of **Resolved** or **Closed**, and any custom case states for which the **Remote Support Session Key** button should not appear.
- 6. Go back to the case, right-click the Session Key button located in the Case title bar, and select Configure > UI Actions.
- 7. In the **UI Actions** list, click **Remote Support Session Key**, select the **Condition** field, and ensure **current.state** is configured to include the IDs of the case states for which the session key button should not appear.

The following code in the **UI Action** condition field controls which states the **Session Key** button displays for. By default, the **Session Key** button displays for cases whose states are set to **New**, **Open**, or **Awaiting Info**, for example, cases with states set to **1**, **10**, or **18** respectively.

x bmgr crm.BomgarUtil.showSessionKeyOnCaseForm('Default', current.getUniqueValue(), [1,10,18])

For example, if you had a custom state of 27, which represented a **Pending Case**, and you wanted the **Session Key** button to also display for that state, you would modify the code above to the following:

x bmgr crm.BomgarUtil.showSessionKeyOnCaseForm('Default', current.getUniqueValue(), [1,10,18,27])

#### **Configure Chat Now Form in Service Portal**

- 1. Browse to Service Portal and click Service Portal Configuration to open the configuration landing page.
- 2. Click **Designer** to launch the Service Portal Designer.





3. Scroll down the list of pages and click the Service Portal index page (or whichever page is marked with the home icon).

4. In the **Widgets** menu on the left, find the **Bomgar Chat** widget. Drag it onto the page, and place it where you'd like it to display.

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 p.ddication
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#### **ServiceNow MID Server Option**

It is possible to avoid direct connection between ServiceNow and Remote Support by using a MID server for internal Remote Support deployments.

To configure the integration to use a MID server for API requests to a Remote Support site, specify the MID server to use on the individual outbound REST messages:

- 1. In ServiceNow, navigate to System Web Services > Outbound > REST Message.
- 2. Filter to show only messages for the BeyondTrust application being configured.
- 3. Click the Name of one of the messages to edit its properties.
- In the HTTP Methods related list at the bottom, select the Name of the method (typically post).

Bomgar Toke	n	@ 25 ···· Update Delete	J ↑
Authentication HTTI	PRequest		
REST Messages support Basic authenticat Mutual (two-way OAuth 2.0	the following Authentication types: ion authentication)		
Authentication configur parent configuration.	ed on the REST Message will automatica	ily apply to child HTTP Methods. Authentication configured on child HTTP Methods will overrid	e the
More info			
Authentication	No authentication	Use mutual	
type		authentication	
type		authentication	
Jpdate Delete = 7 HTTP Meth	ods for text • Search	authenication	Nev
type Jpdate Delete ≡ ∇ HTTP Meth REST Message – Bomga	ods for text • Search	authenitation   Actions on selected rows.	New
type Jpdate Delete = $\nabla$ HTTP Meth REST Message = Bomga Q Name	ods [fortext + ] Search r Token HTTP method	authentisation	New
type Jpdate Delete = V HTTP Meth REST Message = Bomga Q Name post	ods [for text •] Search Token HTTP method POST	authentication	New

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- 5. On the resulting form, select the **HTTP Request** tab and select your MID server in the **Use MID Server** field.
- 6. Click **Update** to save the changes.

< =	HTTP Method post			Ø = ···	Update Delete	•
RES	T Message Bomgar Token	0	Application	BeyondTrust PRA Integratio	n 🕕	
	* Name post					
* HT	TP method POST	~				
	Endpoint https://\${applianceH	ostname]/oauth2/token				
Authenti Use N HTTP He	AllD Server AWS-WinServer202 aders	2-		© « «	1 to 2 of 2 >	» –
	Name 🔺	Value				
×	Authorization	\${Authorizatio	n}			
×	Content-Type	application/x-v	www-form-urlencoded			
	Insert a new row					
HTTP Qu	ery Parameters					⊚ –
	Name	N N	alue	Order 🔺		

Repeat these steps for each outbound REST message that is a part of the application.

For more information on MID servers, please see <u>MID Server</u> at <u>https://docs.servicenow.com/bundle/utah-servicenow-</u> platform/page/product/mid-server/concept/mid-server-landing.html.

#### **Configure Auto-Create Feature in ServiceNow**

Unless otherwise noted, all of the steps in this section take place in the ServiceNow interface. We recommend that you initially use development or test instances of ServiceNow before installation in the production instance, so that the integration can be thoroughly tested.

#### **Enable Auto-Create Functionality**

Follow these steps to enable auto-create:

- 1. Browse to **BeyondTrust CSM** and click **Appliances**. Select the appliance record you are configuring.
- 2. Right-click on the title bar, and then select **Configure > Form** Layout.
- 3. Drag the field labeled **Auto Create Enabled** from the **Available** list to the **Selected** list.
- 4. Click the Save button.
- The Auto Create Enabled check box displays on the form. Check this box, and then click the Update button on the title bar. The form reloads.



#### **Auto-Case Creation Fields**

A section just below the main (top) section of the form labeled Auto-Case Creation contains the following fields:

- Auto-Create For These Portals (comma-separated list): Auto-creates cases for sessions whose public portal is listed in this field.
- Required Auto-Create Custom Fields (comma-separated list): Auto-creates cases for sessions only if *all* of the custom fields listed are populated with a value.
- Auto-Create for Attended Sessions (check box): Auto-creates cases for sessions that are attended by a customer when this box is checked.
- Auto-Create for Unattended Sessions (check box): Auto-creates cases for sessions that are unattended when this box is checked.

#### **Auto-Case Creation Related Lists**

The following **Related Lists** fields at the bottom of the form are used to configure additional auto-create functionality:

- Static Case Fields
- Dynamic Case Fields
- Case Lookup Fields
- Dynamic Case Lookup Fields

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#### **Update BeyondTrust Case Fields**

Case fields are used when mapping static data or BeyondTrust data to ServiceNow case fields during auto-creation of cases. This step updates the database with all the available event types.

Browse to **BeyondTrust CSM** and click **Update BeyondTrust Case Fields**. This loads all of the available **BeyondTrust Case Fields** into the database, in preparation for field mapping.

#### Setup Auto-Create Field Mappings

Browse to **BeyondTrust CSM** and click **Appliances**. Click the desired appliance record. Scroll down to the related list section. There are four related lists, each representing a type of field mapping:

- Static Case Fields: maps a static, default value to a ServiceNow case field.
- Dynamic Case Fields: maps a Remote Support Session value to a ServiceNow case field.
- Case Lookup Fields: maps a static, default value to a ServiceNow case lookup field.
- Dynamic Case Lookup Fields: maps a Remote Support Session value to a ServiceNow case lookup field.

#### **Static Case Fields**

Use this type of mapping when you want to assign the same static value to the same ServiceNow text field or option list for every **Case** created.

Static Record Fields (1) Dynamic Record Fields (1) R	ecord Lookup Fields (1) Dynamic Record Lookup Fields (1)		
= V Record Field Label + Search		Actions on select	ed rows v Now
Appliance - Default			
Record Field Label	Record Field	Default Value	
Some Override	Short Description	an auto-created incident.	
	<< < 1 tolofi > H		

**Example:** For every case that is auto-created, the customer wants the **State** field to be set to **Resolved**. The case field for **State** is selected from the menu and the value for **Resolved** is **6**, so the following values are set:

- Case Field = State (selected from the menu)
- Default Value = 6

Case Field Label is arbitrary.

- Case Field Label: An arbitrary value used to identify the mapping.
- Case Field: The case field that is populated upon auto-creation.
- Default Value: The static value that is populated in the selected case field.

#### **Dynamic Case Fields**

Use this type of mapping when you want to assign a field from the Remote Support session to the same ServiceNow text field or option list for every case created.

		Contraction of the contraction	- * *
Appliance - Default			
Q. Record Field Label	Record Field	BeyondTrust Field	
Another Override	Description	External Key	

**Example:** For every case that is auto-created, the customer wants the **Short Description** field to be set to the value contained in the **Remote Support Session's External Key** field. The case field for **Short Description** is selected from the **Case Field** menu and the **Remote Support External Key** field is selected from the **Remote Support Field** menu, so the

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following values are set:

- Case Field: Short Description (selected from the menu)
- BeyondTrust Field: External Key (selected from the menu)

The Field Label is arbitrary.

- Case Field Label: An arbitrary value used to identify the mapping.
- Case Field: The case field that is populated upon auto-creation.
- BeyondTrust Field: The Remote Support session value that is populated in the selected case field.

#### **Case Lookup Fields**

Use this type of mapping when you want to assign the same static value to the same ServiceNow field, which requires a lookup, for every case created.

Static Record Fields (1) Dynamic Record Fields (1)	Record Lookup Fields (1) Dynamic	Record Lookup Fields (1)		
= V Field Label • Search				Actions on selected rows.
Appliance - Default				
G. FieldLabel	Record Field	Lookup Table Id	Lookup Field M	Default Value
Some Lookup Override	Assigned To	195_406F	user_name	bob.rom
			30	

**Example:** For every case that is auto-created, the customer wants the **Assigned To** field to be set to a specific user whose username is **bob.ross**. The case field for **Assigned To** is selected from the **Case Field** menu. The **Lookup Table ID** is set to the table to search and the **Lookup Field** ID is set to the field in the lookup table to compare the static value with. **Default Value** is to the static value with which to lookup the user, so the following values are set:

- Case Field: Assigned To (selected from the menu)
- Lookup Table ID: sys\_user
- Lookup Field ID: user\_name
- Default Value: bob.ross

The Field Label is arbitrary.

- Field Label: A value used to identify the mapping.
- Case Field: The case field that should be populated upon auto-creation.
- Lookup Table ID: The ServiceNow table to lookup the value for this case field.
- Lookup Field ID: The field in the lookup table to search when looking up the value for this case field.
- Default Value: The static value to use when looking up the value for this case field.

#### **Dynamic Case Lookup Fields**

Use this type of mapping when you want to assign a field from the Remote Support session to the same ServiceNow field, which requires a lookup, for every case created.

Static Record Fields (1) Dyna	mic Record Fields (1) Record Lookup Fields (1)	Dynamic Record Lookup Fields (1)		
= 7 Field Label	• Search			Actions on selected rows. • New
Appliance - Default				
C 0. 6000000	0	London Webs 14	Longer Distance	Burner (Burner Chatt
C of Meetader	Neccrories	Colorogi rasile to	Lookup Prese Is	Deytera invisi Piero
Caller Override	Caller (caller_id)	sys_user	user_name	Customer Username

**Example:** For every case that is auto-created, the customer wants the **Contact** field to be set to a specific user, whose username we will get from the Remote Support session. The case field for **Contact** is selected from the **Case Field** menu. **The Lookup Table ID** is set to the table to search and the **Lookup Field ID** is set to the field in the lookup table to compare

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the BeyondTrust value with. **Remote Support Customer Username** field is selected from the **BeyondTrust Field** menu, so the following values would be set:

- Case Field: Contact (selected from the menu)
- BeyondTrust Field: Customer Username (selected from the menu)
- Lookup Table ID: sys\_user
- Lookup Field ID: user\_name

The Field Label is arbitrary

- Field Label: A value used to identify the mapping.
- Case Field: The case field that is populated upon auto-creation.
- Lookup Table ID: The ServiceNow table in which to look up the value for this case field.
- Lookup Field ID: The field in the lookup table to search when looking up the value for this case field.
- BeyondTrust Field: The BeyondTrust session value to use when looking up the value for this case field.

#### **Common Lookup Fields**

The following information is provided to help when creating lookup field mappings. A **Lookup Field** is populated by looking in another ServiceNow table to retrieve a value.

**Example:** The **Caller** field on a **Case** is a lookup field. The name of the ServiceNow table that is used is **sys\_user**. You can lookup a user by querying the **user\_name** field with a value of **john.doe**. This populates the **Caller** field with the sys\_user record for John Doe.

Below are some common ServiceNow record lookup fields that you may encounter in an auto-create scenario.

Case Field	Case Field Name	Table	Common Query Fields
Account	account	customer_account	name
Asset	asset	alm_asset	display_name
Assigned To	assigned_to	sys_user	x_bmgr_support_ent_bomgar_username name user_name email
Assignment Group	assignment_group	sys_user_group	name
Configuration Item	cmdb_ci	cmdb_ci	name
Contact	contact	customer_contact	name user_name email

#### **Configure Other ServiceNow Environments**

The steps below are typically used after the integration has been installed and configured in a test or development instance of ServiceNow, and is being transferred to a QA or production instance.

#### **Configure Production Outbound Event**

- 1. Go to /login > Management > Outbound Events.
- Click Add and name the new HTTP recipient ServiceNow Integration or something similar, depending on your ServiceNow instance.
- In the URL field, paste and replace the name of the original ServiceNow instance with that of the new one, such that /api/x\_ bmgr\_crm/outbound\_event/session\_end is preserved at the end. The result should be similar to https://example.servicenow.com/api/x\_bmgr\_crm/outbound\_event/session\_end, as opposed to https://example-dev.service-now.com/api/x\_bmgr\_ crm/outbound\_event/session\_end.



- 4. Scroll to Events to Send and check Support Session End.
- 5. In the URL field, paste and replace the name of the original ServiceNow instance with that of the new one, such that /api/x\_bmgr\_ crm/outbound\_event/session\_end is preserved at the end. The result should be similar to https://servicenow\_ prod.example.com/api/x\_bmgr\_crm/outbound\_event/session\_end, as opposed to https://servicenow\_dev.example.com/api/x\_ bmgr\_crm/outbound\_event/session\_end.
- 6. Locate the outbound event created during testing and click Edit. Check the Disabled box and save.

#### **Configure Custom Link**

- 1. Go to /login > Rep Console > Custom Links.
- 2. Click Add to create a new custom link.
- Enter a name for the link, and then set the URL to https://example.service-now.com/nav\_to.do?uri=sn\_ customerservice\_case.do?sys\_id=%SESSION.CUSTOM.SNOW\_ CASE\_ID%, where example.service-now.com is the ServiceNow instance name. If needed, you can use any of the available macros to customize the link according to your specifications.
- 4. Test the integration setup in its new location following the same steps used to test the original instance.

CANCEL	SAVE
ADD A	USTOM LINK
Required f	ld
Name •	
Service N	W
URL •	
https://su uri=sn_cu sys_id=%	pport.example.com/nav_to.do? tomerservice_case.do? ESSION.CUSTOM.SNOW_CASE_ID%
The follo	wing macros can be used to include information about the session: $\checkmark$
The follo	wing macros can be used to include information about the end customer: $\checkmark$
The follo	wing macros can be used to include information about the representative who is opening the custom links

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For more information, please see <u>"Test the Remote Support and ServiceNow Integration" on page 21</u>.

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## Test the Remote Support and ServiceNow Integration

The following steps take place in ServiceNow and Remote Support and are provided to ensure that the integration is working properly. Troubleshooting suggestions are provided with each step in case of failure.

#### **Test Session Key Generation**

- 1. Log in to the Remote Support representative console, and then log in to ServiceNow with the same account.
- Open an active case in ServiceNow. Confirm the State field matches one of the values for which the Session Key button should appear, and make sure the button appears as expected. Remember that the case must be saved for the button to appear.



3. Click the Session Key button. This launches the Remote Support representative console, subsequently opening the Session Key Dialog box.

#### **Test Remote Support Session Import**

- 1. Log in to ServiceNow as a customer service agent or an admin. Use the Session Key button as described above to start a Remote Support session.
- 2. End the session from the representative console.

Refresh the ServiceNow case from which the session key was generated, scroll to work notes section of the form, and check that an entry for the completed session is shown. Basic session details should be shown, as well as any chat dialogue. If not, make sure the following items are true:

- The API User Connection test works correctly as described above.
- There are no Remote Support errors reported for your ServiceNow instance in the Remote Support Outbound Events list. Your Remote Support admin can check this in Remote Support from the /login web interface under Management > Outbound Events.
- · The IP address is set up correctly, following the steps below:
  - Log in to ServiceNow as an admin.
  - Browse to System Logs > Transactions, remove all existing filters, and add a URL filter of /x\_bmgr\_support\_ent\_ bomgar\_post.do.
  - Click one of the results and make sure the originating IP address of the transaction is included in the IP Address field of the integration appliance configuration record settings under BeyondTrust CSM > Appliances > Default.

#### **Test Case Creation**

• You can guickly test the case creation with a URL such as *https://beyondtrust.example.com/api/start\_session?issue* menu=1&customer.name=Bob&customer.company=BobCoInc&customer.details=Credentials&codeName=issue\_ 4&session.custom.customer\_username=b.smith&c2cjs=1.

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# BeyondTrust

- If using the Outbound Event approach Option 1, after the representative joins the session a new case appears when you refresh the case list in ServiceNow. Additionally, the ServiceNow Case ID is populated in the representative console after a few seconds with the sys\_id of the newly created case.
- If using the **Custom Link** approach, **Options 2 or 3**, after the representative clicks the **Create Case** custom link, a new case appears when you refresh the case list in ServiceNow. Additionally, the ServiceNow Case ID should be populated in the representative console after a few seconds with the **sys\_id** of the newly created case.



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## Use Cases for the ServiceNow CSM Integration with BeyondTrust Remote Support

Customer support organizations using ServiceNow Customer Service Management (CSM) can integrate with BeyondTrust Remote Support to improve service levels, centralize support processes, and strengthen compliance. Use cases that are addressed by the BeyondTrust Remote Support and ServiceNow CSM integration are listed below.

#### **Generate Session Key**

Technicians can generate a session key from within a case and give the customer the key to initiate a support session.

The integration provides support for case records.

Once the session ends, basic session data, along with the chat dialogue from the session, are imported into ServiceNow and written to the work notes of the case record from which the session key was generated.



#### Import Remote Support Session Data into a ServiceNow Record

Once the Remote Support session ends, the associated case record in ServiceNow is automatically updated with information gathered during the session, including:

- · Chat transcript
- Basic session information



#### **Customer Initiated Chat from Service Portal**

Customers can request a support session with a representative from a ServiceNow Service Portal where the **Remote Support Get Support Now** widget has been added. This includes any context within a case, like the case form, or any context outside the scope of a case, like the CSM homepage.

This functionality allows customers an expedient path to resolution, while also providing the technician with the necessary context to effectively assist the customer.

Sessions initiated using Remote Support's click-to-chat functionality can be elevated to full support sessions if the technician deems it necessary.





#### Access ServiceNow Records from the Representative Console

Using Remote Support's custom links ability, a representative can access the associated ServiceNow case record directly from within the representative console. This saves time searching for the case record in ServiceNow and provides the representative with any available issue details, history, or other context to help quickly resolve the issue.

#### Associate Sessions with ServiceNow Records Manually

Whether a representative has just created a case for the current session or has found that one already exists, even sessions originating outside the scope of a ServiceNow record can be manually associated with the appropriate item, allowing session details to be automatically added to the case when the session ends.

To make this association, the representative enters the numeric ID of the case record into the **External Key** field while in session.

Technicians can use the human readable record number from ServiceNow to easily make this association.

🦁 Edit External Key	×
External Key CS0001049	
	OK Cancel

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#### **Automatic or Manual Case Creation**

For customers who have applicable processes, the integration can be configured to automatically create a ServiceNow case based on Remote Support sessions, either when the representative joins the session or manually via a Remote Support representative console custom link. This process can simplify workflows and reduce the number of clicks necessary for support representatives.

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## Troubleshooting

This section is designed to assist members of implementation and support teams who are either installing or supporting the ServiceNow integration with Remote Support. The items listed here cover potential issues you may encounter when working with the integration, along with steps to take to investigate and alleviate those issues.

Throughout this section you'll see a reference to ServiceNow application logs. This refers to the application logs in ServiceNow, which can be found in System Logs > System Log > Application Logs.

ServiceNow has other logs that are also helpful. Those include:

- Transaction Logs, found at System Logs > Transactions
- All Logs, found at System Logs > System Log > All
- Warning Logs, found at System Logs > System Log > Warnings
- Error Logs, found at System Logs > System Log > Errors

Note: Using this troubleshooting guide requires knowledge of both ServiceNow and Remote Support.

#### Support Sessions Are Not Written to ServiceNow

If support sessions aren't written in ServiceNow, there could be a communication issue. First check to ensure communication is open from Remote Support to ServiceNow.

- Log in to the Remote Support /login interface and ensure the Support Session End option is checked on the HTTP Recipient for the Outbound Event. If Support Session End is not checked, check the box, save the HTTP recipient, then run another support session and see if the record is written to ServiceNow.
- If the Outbound Event looks good, log in to the /appliance interface and run a TCP test to the hostname of the customer's ServiceNow instance on port 443. If the TCP test yields a non-200 response, involve your network team to determine if there is a network block in place, such as a firewall or network rule.
- 3. If the TCP test yields a 200 response, then start another session from ServiceNow, end the session, then open the ServiceNow transaction logs and filter by records that are Created on Today (or Last 15 minutes for fewer results) AND URL starts with /api/x\_bmgr\_support\_ent/outbound\_event/session\_end. If you don't see a record for the session you just ran, then there is a communication issue from Remote Support to ServiceNow and you should recommend the customer involve their network team to determine if there is a network block in place such as a firewall or network rule.
- 4. If you see the transaction record in the Transaction Logs, then double-check and reset the OAuth Client ID and OAuth Client Secret fields on the appliance configuration record in ServiceNow. It's very common that this OAuth Client Secret value is copied to the clipboard, but the API Account record is never saved in Remote Support/login. We recommend that you copy the value and immediately save the API Account, then paste the value in the appliance configuration record in ServiceNow. Run another support session. If the Support Session record still does not show up in ServiceNow, check the ServiceNow application log to see if there are any errors that may explain why the record isn't being written.

#### Session Key Button is not Showing on the Case Form

If the Session Key button is not showing on the case form, there are few things that can be checked.

1. Check to see if there were any adjustments or customizations made to any of the integration's UI actions. Because these UI actions render the buttons, we recommend that these not be edited.

- 2. If no customizations to the UI actions were made, ensure the appliance configuration record is named **Default**, with matching case and no white space. Any name other than **Default** causes the **Session Key** button to be hidden.
- 3. If the name of the appliance configuration record is **Default**, view the customer's case states and ensure that the **Condition** field in the UI Action displays the button for the proper case states.

For more information, please see <u>"Configure Case States" on page 13</u>.

#### Session Key Button Gives an "Unknown Host" Message

If you get an *Unknown host* error, there is essentially a communication issue from ServiceNow to the Remote Support deployment, unless the hostname is set incorrectly on the appliance configuration record.

Double-check the hostname on the appliance configuration record in ServiceNow. If it looks correct, contact your network team to determine if there is a network block in place, such as a firewall or network rule.

#### "Invalid Custom Field Code Name" Message

An *invalid custom field code name* error can occur when there is an attempt to generate a session key, but a custom attribute with that code name doesn't exist in the system. This can happen if a step is missed in the initial integration configuration.

Create the missing custom field and try to start another support session from ServiceNow.

## "Error Validating Parameter 'snow\_case\_id': The Session Attribute is Invalid" Message

An error validating parameter 'snow\_case\_id': The session attribute is invalid message can occur when there is an attempt to generate a session key, but a custom attribute with that code name doesn't exist in the system. This can happen if a step is missed in the initial integration configuration.

Create the missing custom field and try to start another support session from ServiceNow.

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#### ServiceNow and BeyondTrust Integration Network Diagrams

#### ServiceNow-Remote Support Integration Network Diagram



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#### ServiceNow-Remote Support Integration Mid Server Network Diagram

