

Lifecycle Integration Adapter for Aras Innovator
Version 1.0

User's Guide



Note

Before using this information and the product it supports, read the information in “Notices” on page 16.

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Overview

The IBM® Lifecycle Integration Adapter (LIA) for Aras Innovator is a connector based on the Open Services for Lifecycle Collaboration (OSLC) standard. OSLC is an HTTP-based protocol that uses unique URLs to identify data so that you can link to resources in other products. See the OSLC standard at <https://open-services.net/>

The adapter is a web application, which integrates the IBM Collaborative Lifecycle Management (CLM) applications with Aras Innovator®. The adapter establishes two-way communication between Aras Innovator and the CLM applications. Version 1.0 links Aras Innovator with the following CLM applications:

- IBM Rational Team Concert™ (Change Management)
- IBM Rational® DOORS Next Generation (Requirements Management)

Administrators for Aras Innovator can install and configure the adapter, establish friend relationships between servers, and associate projects in the CLM applications with the adapter. For more information on installing and configuring the adapter, see the *LIA for Aras Innovator Installation Guide*.

They can establish friend relationships between the following servers and the adapter. The Jazz server details are saved in Aras Innovator preferences.

- Aras Innovator server
- Jazz™ Team servers

During installation, administrators must import the OSLC item types and relationships into Aras Innovator, so they can customize the linked Aras Innovator item types. From then on, other users, such as the product and project managers, systems engineers, and electrical and mechanical engineers, can then use the adapter to link standard Aras Innovator items with artifacts in CLM applications.

Anyone with permission can open an instance of an Aras Innovator item type, such as a Part, ECR, ECO, and so on, and link to a CLM artifact, such as a task, defect, story, or requirement. Links can also go in the other direction. These links help track and manage the linked items throughout the item's lifecycle. Use the adapter to perform the following tasks:

- Create a new CLM artifact from Aras Innovator.
- Create a new Aras Innovator item from CLM applications.
- Link an Aras Innovator item with an existing CLM artifact.
- Link a CLM artifact to an existing Aras Innovator item.

To understand how the adapter works, consider the following example.

Example: Linking Aras Innovator parts with defects in Rational Team Concert.

The adapter links data between Aras Innovator and CLM applications, thus allowing traceability and visibility of data from both systems. To understand how it works, consider the example of a vehicle that experiences excessive vibration in the front-end suspension. A customer raises a complaint with the support team, and the engineering team has to resolve the problem. After receiving this complaint, the project manager raises an ECR and links it to the following items:

- The front-end suspension assembly *Part* in Aras Innovator
- The mechanical *change request* in Rational Team Concert

The change request is assigned to a mechanical engineer who proposes a redesign of the sway-bar bushing to significantly reduce the vibrations. The sway-bar bushing is a sub-part of the entire front-end suspension assembly *Part* in Aras Innovator. Through the adapter, the mechanical engineer can link the sway-bar bushing part to the mechanical change request in Rational Team Concert and then perform the necessary actions.

The link makes it easy for the engineer to track the redesign process from either Aras Innovator or Rational Team Concert. If any details are updated in the Aras Innovator part, these details are reflected in the linked change request in Rational Team Concert. Thus, Product Lifecycle Management (PLM) tools gain seamless access to data managed by CLM applications. Likewise, the implementation is connected back into Aras Innovator. This data integration provides useful insights and can help drive important decisions.



Managing the OSLC links for item types



On installing the adapter, the following OSLC-enabled item types are added to Aras Innovator, by default:

- PR
- Express DCO
- Express ECO
- Part
- ECR
- ECN

You can also enable the OSLC links for other item types. The following sections lists the tasks to manage the OSLC-enabled item types. You can enable the OSLC links from the **OSLC Resource Types** item type, modify, and delete them, as required.

Enabling the OSLC links for item types

1. Log in to Aras Innovator, from the navigation tree, expand **Administration** > **OSLC**, and then double-click **OSLC Resource Types** to open it.
 2. On the top menu bar, click add  to create a new item.
 3. Enter the name and description for the item.
 4. In the **OSLC Interface** pane:
 - a. Select **Change Request** or **Requirement** from the **OSLC type** list. If you select **Change Request**, the OSLC-enabled item type acts as a change request when linking from and to it. If you select **Requirement**, it acts as a requirement when linking from and to it.
 - b. From the **Exposed Item Type**, click  and search for an item type. Aras Innovator enables linking for this item type. **Remember:** The system defined **Change management** and **Design** item types are OSLC-enabled by default. If you select them as the exposed item type, you can't save the OSLC Resource Type. Search and select any other user defined **Change Management** or **Design** item types, or item types from **Document**, **Portfolio**, and **Sourcing**.
- Important:** Don't change these two properties after you link them to a CLM artifact. If you change them, the link to the CLM artifact breaks.
5. In the **Links Tab** pane, enter a name for the tab in the **Tab Name** field.
Tip: After Aras Innovator enables the OSLC links for an item type, this tab is added in the relationship grid of that OSLC-enabled item type.

6. On the **OSLC UI Preview** tab, add properties for the item type.
 - a. Click  to add a row.
 - b. From the newly added row, click the  icon.
 - c. Click the **Run Search** icon to search the item type. From the search results, double-click the item type to add it to the tab.

Important: For version 1.0, you must add the **item_number** property and a string property that identifies the exposed item type, for example, **name**. In the next step, add the Resource Description Framework (RDF) URLs for these properties. When you search an item type from CLM applications, you see only those properties for which you add the URLs. See more in the next step.



Tip: Add the properties having only string and integer as the data types. If you add *name* and *description*, for example, as the properties of the item type, you can see them in the preview in CLM applications, when you hover over the linked Aras Innovator item type.

7. **Important:** On the **OSLC UI Preview** tab, you must add two URLs for the properties. You must add both these URLs here to avoid errors, when you search an item type from CLM applications. The search results are displayed as `<identifier>:<title>` that contain the values of the properties for which you set these URLs.

You must add these URLs:

- o <http://purl.org/dc/terms/identifier> – You must add it only for the **item number** property. When you search the item type from CLM applications, the results show the item number as the `<identifier>`. If you don't set this URL for the **item number** property, you cannot open the item type from CLM applications after searching and linking to it.
- o <http://purl.org/dc/terms/title> – You can add it for any property that has a string value. When you search the item type from CLM applications, the results show the string value as the `<title>`.

8. On the **OSLC Create Dialog Property** tab, add properties for the item type.

- a. Click  to add a row.
- b. Click the  icon in the grid to search the item type.

Remember: When searching, enter the same item type that you entered in the **Exposed Item Type** field.

- c. From the search results, double-click the item type to add it to the tab.

Tip: Add the properties having only string and integer as the data types. If you add *name* and *description*, for example, as the properties of the item type, then you can see them in the preview in CLM applications, when you create a new Aras Innovator item.

9. Click  to save the item.

Modifying the OSLC-enabled item type

Enabling the OSLC links for an item type includes defining properties for that item type and setting the RDF URLs for those properties. All this information is used when you create or link to an existing resource from either Aras Innovator or CLM applications.

From the **OSLC Resource Type** that contains the information that is defined for the exposed item type, all the other details can be modified, except the following details in the **OSLC Interface** section:

- **OSLC Type**
- **Exposed Item Type**

Important: After the administrators have defined the properties and the corresponding RDF URLs for the exposed item type, avoid modifying them, unless absolutely necessary.

Deleting the OSLC-enabled item type

1. Log in to Aras Innovator and from the navigation tree, click **Administration**, then click **OSLC**, and open **OSLC Resource Types**.
2. Search the OSLC Resource type that you want to delete.
3. Right-click the OSLC Resource Type and click **Delete**.

After you delete the OSLC Resource type, delete the corresponding relationship types.

1. From the navigation tree, open **Relationship Types**.
2. Search the OSLC Resource Type that you deleted.
3. From the table, right-click the relationship type that you want to delete and click **Delete**.

Tip: The value in the **Source Item Type** column shows the exposed item type. Referring to this value you can identify the relationship types for that item type.

4. Optional: Repeat step 3, if there are multiple relationship types.

Linking to CLM artifacts from Aras Innovator

After enabling the OSLC links for an Aras Innovator item type, you can establish relationships between these item types and CLM artifacts. With the adapter, you can work across both products:

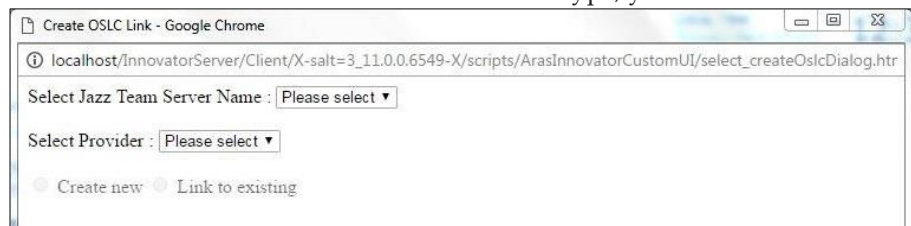
- Create a CLM artifact from Aras Innovator
- Link to an existing CLM artifact from Aras Innovator

Creating a new CLM artifact from Aras Innovator

1. In the navigation tree, open the OSLC-enabled item type.
Remember: You can add a new Change Management work item or a Requirement Management artifact only from an OSLC-enabled item type. To enable the OSLC links for an item type, see “Managing the OSLC links for item types” on page Managing the OSLC links for item types3.

2. Go to the **OSLC Links** tab and click add .

Tip: *OSLC Links* is the default name for the tab, however, if it was changed when the OSLC links were enabled for an item type, you see that name.



The Create OSLC Window

3. In the **Select Jazz Team Server Name** list, select the CLM application that is linked to Aras Innovator.
Important: The system opens the CLM Authentication window either for the first login or after an active CLM application session times-out. The default session time-out is set to five minutes.
If you see the CLM Authentication window, enter your login credentials and click **OK**. If you don't see it, proceed to step 4.
4. From the **Select Provider** list, select the project area.
5. Click **Create New**.
6. For Rational Team Concert, enter the details for the work item, as required. For Rational DOORS Next Generation, enter the details for the artifacts. Click **OK**. The new artifact is created in the CLM application, and it is linked with that OSLC-enabled item type. You can see it on the **OSLC Links** tab. If you hover over this link, you will see a preview with the details.

Table in the OSLC Links tab


Important: The table in **OSLC Links** tab has two columns; the **Link** column shows the CLM artifact and the **OSLC Link Type** shows the assigned label. These labels depend on what you are linking from Aras Innovator to which CLM applications. Following table lists these labels and describes how they get assigned.

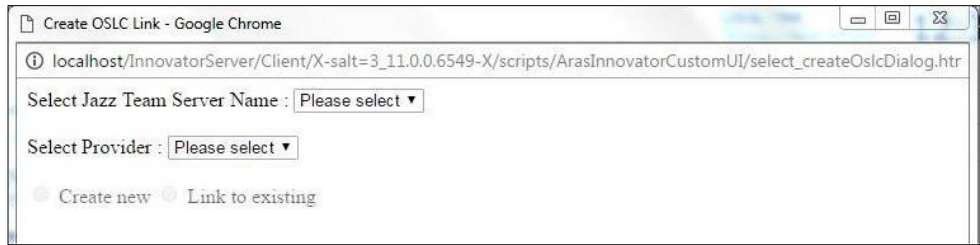
Label	Description
Affected By	Displayed when you link an Aras Innovator Requirement to Rational Team Concert.
References	Displayed when you link an Aras Innovator Requirement to Rational DOORS Next Generation.
Related Change Request	Displayed when you link an Aras Innovator Change Request to Rational Team Concert.
Tracks Requirement	Displayed when you link an Aras Innovator Change Request to Rational DOORS Next Generation.

Labels in the OSLC Links tab

Linking an Aras item with an existing CLM artifact

- In the navigation tree, open the OSLC-enabled item type.
Remember: You can add a new Change Management work item or a Requirement Management artifact only from an OSLC-enabled item type. To enable the OSLC links for an item type, see “Managing the OSLC links for item types” on page 3.

- Go to the **OSLC Links** tab and click add .
Tip: *OSLC Links* is the default name for the tab, however, if it was changed when the OSLC links were enabled for an item type, you see that name.



The Create OSLC Link window

3. From the **Select Jazz Team Server Name** list, select the CLM application that is linked to Aras Innovator.
Important: The system opens the CLM Authentication window either for the first login or after an active CLM application session is timed-out. The default session time-out duration is set to five minutes.
If you see the CLM Authentication window, enter your login credentials and click **OK**. If you do not see it, proceed to step 4.
4. From the **Select Provider** list, select the project area.
5. Click **Link to existing**.
6. For Rational Team Concert, search for an existing work item:
 - a. Enter either the work item number or words in the title to search for the work item.
 - b. Select the work item and click **OK**. The OSLC-enabled item type is linked to the work item.
7. For Rational DOORS Next Generation, search for an existing artifact.
 - a. Enter either the artifact ID or words in the description to search it.
 - b. Select the artifact and click **OK**. The OSLC-enabled item type is linked to the artifact.

Now you see a link to this new work item or artifact on the **OSLC Links** tab. If you hover over this link, you see a preview of the details.

Linking to Aras Innovator items from CLM applications

After installing the adapter, you must configure it:

- Establish a friend relationship between the Jazz Team server and LIA for Aras Innovator.
- Whitelist the CLM applications.
- Associate projects within Rational Team Concert and Rational DOORS Next Generation with the adapter.

For the configuration steps, see pages 23-28 of the *LIA for Aras Innovator Installation Guide*. After the projects are associated with servers you can access Aras Innovator from CLM applications:

- Create a new item type in Aras Innovator from CLM applications.
- Link a CLM artifact with an Aras Innovator item type.

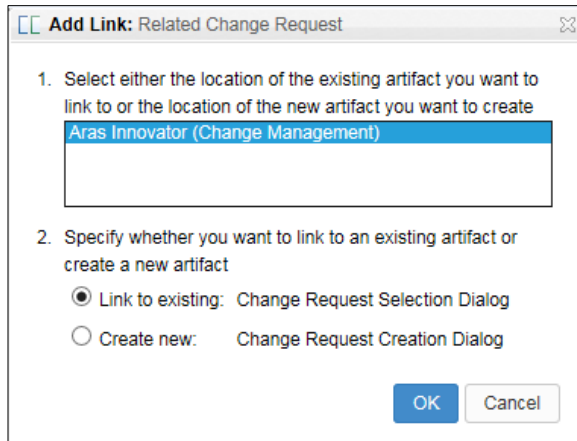
Creating a new item type in Aras Innovator from Rational Team Concert

1. Log in to Jazz Team Server, go to Rational Team Concert, and open the project that is associated with the adapter.
2. Browse and open the existing work item that you want to link to Aras Innovator.
3. Click the **Links** tab. In the **Links** area, from the **Add Related** list:
 - To link to a change request in Aras Innovator, click **Add Related Change Request**
 - To link to a requirement in Aras Innovator, click **Add Implements Requirement** or **Add Tracks Requirement**.

Important: The options you see in the list depend on the configurations done during project associations. However, these link types are not supported in version 1.0: **Affected by Defect**, **Tracks**, **Add Contributes To**, **Add Affects Plan Item**. Do not use them. For more information, see *Associating Projects* in the *LIA for Aras Innovator Installation Guide*.

The **Add Link** window shows what you need to create a link:

- a. A service provider list where you can select a project area.
- b. Options to either link the artifact to an existing Aras Innovator item type, or if you don't find the one you need, create a new item type.



The Add Link: Related Change Request window


4. Depending on the link type in step 3, you see these service providers: **Aras Innovator (Requirements Management)** or **Aras Innovator (Change Management)**. Select one and then select **Create new: Change Request Creation Dialog**, and click **OK**.
5. Expand the list to view all the OSLC-enabled item types from Aras Innovator.
6. From the list, select the item type that you want to add to Aras Innovator. For every item type, you can add the properties that were enabled in step 7 on page 4.
7. Enter the values for the properties.
8. Click **Create** to add the new item type in Aras Innovator.

After you add the new item type in Aras Innovator, a link to this item type is added in the **Links** area. You can hover over this link to view the details.

Creating a new item type in Aras Innovator from Rational DOORS Next Generation

1. Log in to Jazz Team Server, go to Rational DOORS Next Generation, and open the project that is associated with the adapter.
2. Browse and select the artifact that you want to link to Aras Innovator.
3. At the lower right, click **Links**. The links pane expands.

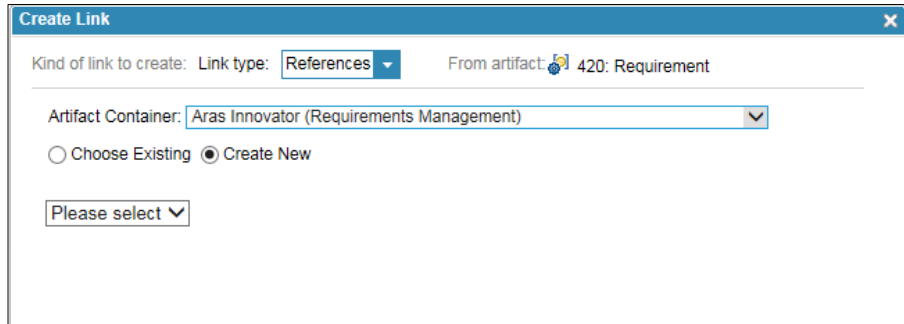


4. In the **Links** pane, click the links  icon to add a link to the artifact:
 - To link to a requirement in Aras Innovator, click **References**
 - To link to a change request in Aras Innovator, click **Implemented by** or **affected by** or **Tracked by**

Important: The options that you see here depend on the configurations done during project associations. For more information, see *Associating Projects* in the *LIA for Aras Innovator Installation Guide*.

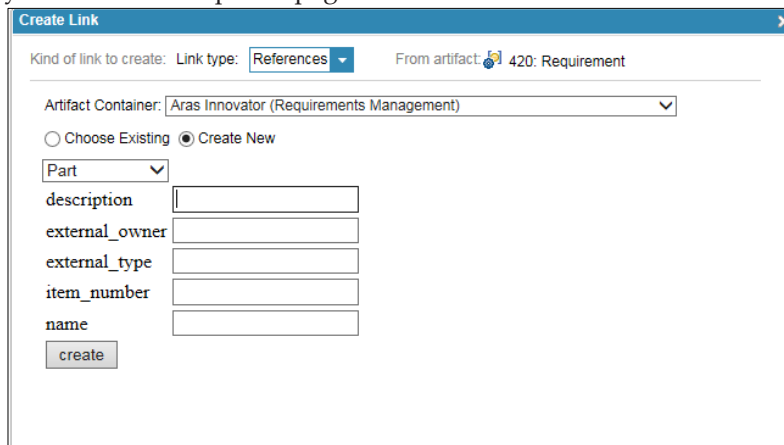
5. Depending on the link type you select above, you see these service providers:

Aras Innovator (Requirements Management) or Aras Innovator (Change Management) in the **Artifact Container** list. Select the service provider and click **Create New**.



The *Create Link* window

- From the list, select the OSLC-enabled item type. You see the properties that you entered in step 7 on page 4.



Properties for the selected OSLC-enabled item type

- Enter the values for the properties.
- Click **create** to add the new item type in Aras Innovator.

Linking a work item from Rational Team Concert to an Aras Innovator item type

- Log in to Jazz Team Server, go to the Rational Team Concert, and open the project area that is associated with the adapter.
- Browse and open the existing work item that you want to link to Aras Innovator.
- Click the **Links** tab. In the **Links** area, from the **Add Related** list:
 - To link to a change request in Aras Innovator, click **Add Related Change**

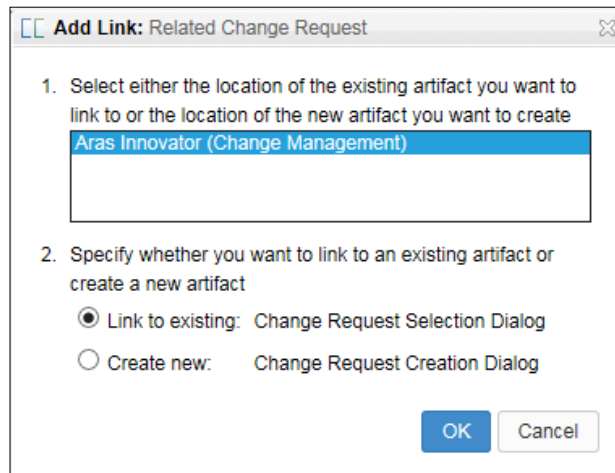
Request

- To link to a requirement in Aras Innovator, click **Add Implements Requirement** or **Add Tracks Requirement**

Important: The options that you see in the list depend on the configurations done when associating the projects. However, these link types are not supported in version 1.0: **Affected by Defect, Tracks, Add Contributes To, Add Affects Plan Item**. Do not use them. For more information, see *Associating Projects in the LIA for Aras Innovator Installation Guide*.

The **Add Link** window shows what you need to create a link:

- A list of service providers where you can select a project area.
- Options to either link the work item to an existing Aras Innovator item type or if you don't find the one you need, create a new item.



The Add Link: Related Change Request window

4. Depending on the link type in step 3, you see these service providers: **Aras Innovator (Requirements Management)** or **Aras Innovator (Change Management)**. Select one and then select **Link to existing: Change Request Selection Dialog** and click **OK**.
5. In the **Change Request Selection Dialog** window, search for the OSLC-enabled item type. Enter the properties that were set on page 4.
6. From the results, select the item type and click **OK** to establish a link to this OSLC-enabled item type.

After you establish the link to the item type, you see the link in the **Links** area of the work item. Hover over this link to view the details.

Linking an artifact from Rational DOORS Next Generation to Aras Innovator item type

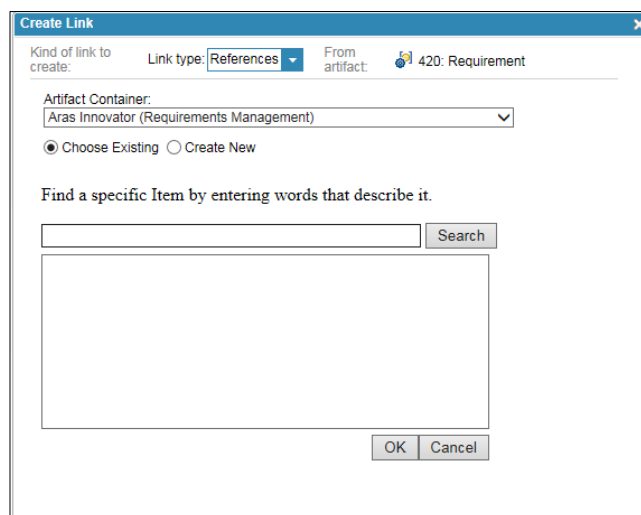
1. Log in to Jazz Team Server, go to Rational DOORS Next Generation and open the project that is associated with the adapter.
2. Browse and select the artifact that you want to link to Aras Innovator.
3. In the lower right, click **Links**.



4. Click the links icon to add a link to the artifact:
 - To link to a requirement in Aras Innovator, click **References**
 - To link to a change request in Aras Innovator, click **Implemented by** or **affected by** or **Tracked by**

Important: The options that you see here depend on the configurations done during project associations. For more information, see *Associating Projects* in the *LIA for Aras Innovator Installation Guide*.

5. Depending on the link type you select above, you see these service providers: **Aras Innovator (Requirements Management)** or **Aras Innovator (Change Management)** in the **Artifact Container** list. Select the service provider and click **Choose Existing**.



The Create Link window

6. Enter the values of the properties that were set on page 4, to search for the Aras Innovator item type and click **Search**.
7. From the search results select the Aras Innovator item type.
8. Click **OK**. The requirement is now linked to the selected item type.

Troubleshooting information

For the list of known issues and workarounds, see the *LIA for Aras Innovator Version 1.0 Release Notes*. Also, see the Troubleshooting section on page 31 of the *LIA for Aras Innovator Installation Guide*.

Radio buttons unavailable when linking from Rational Team Concert

When adding or linking to an existing item in Aras Innovator from Rational Team Concert, you select an option from the **Add Related** list. If the radio buttons in the **Add Link** window are unavailable, check if you have selected any of the following link types:

- **Affected by Defect**
- **Tracks**
- **Add Contributes To**
- **Add Affects Plan Item**

Do not select any of these link types as they are not supported in version 1.0 of the adapter. For more information, see *Associating Projects* in the *LIA for Aras Innovator Installation Guide*.

Error when establishing OSLC links to CLM applications using Internet Explorer browser

When you are establishing OSLC links to CLM application, if you see the following error "LIA for Aras Innovator may be down", try these steps:

Adding the JTS server URL as a trusted site

1. From the Windows start menu, open "**Internet options**".
2. Go to the **Security** tab and then select "**Trusted sites**".
3. Click the **Sites** button.
4. In the **Add this website to the zone** field, enter the JTS server URL and click **Add** to add the trusted website, for example, `https://jtsserver`
5. Click **Close** to exit.

If these steps don't resolve the error, try the steps on the next page.

Resetting the Internet Explorer browser

1. From the Windows start menu, open "**Internet options**".
2. Go to the **Advanced** tab and then click the **Reset** button.
3. Select the Delete personal settings check box.
4. Click **Reset**. This resets the Internet settings.
5. Click **Close** to exit.

If the above steps **Resetting the Internet Explorer browser** and **Adding the JTS server URL as a trusted site** do not resolve the error, use other supported browsers (Mozilla Firefox or Google Chrome).

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