QAD Business Events User Guide

QAD Adaptive

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Contents

QAD Business Events Change Summary

The following table summarizes significant differences between this document and previous versions.

Date/Version	Description	Reference
November 2025	Initial publication.	--

Chapter 1: Introduction

This chapter describes the business value of business events and the QAD solution for implementing this functionality.

Overview

This section describes the core aspects and business value of business events.

QAD Solution

This section describes the solution that QAD developed to meet the business events requirements.

Overview

The Business Events functionality is designed to notify you of any events that occur within a business application and are associated with specific business entities. It enables publishing the corresponding business object data to the topics of your event streaming platform in a predefined format and allows your external systems to access that data.

Note Event topics used to publish business event data on the event streaming platform are grouped in local clusters.

Business events are triggered by various changes and actions within the system. Here are some examples that may trigger business events:

- An internal status of a business object is changed. For example, the status changes to "Approved".
- One or more fields are updated in a business object. For example, a field value changes from ”In Progress” to "Complete".
- The event is manually triggered in the business logic code.

Important The system always executes code on the business layer to generate business events.

QAD Solution

QAD developed the following screens to set up platform integration and configure business events:

- Business Events
- Business Events Data
- Republish Business Event
- Integration Platform Setup

To start working with the Business Events functionality, perform the necessary configuration of business events and platform integration. For more information about the setup, see Setting Up Business Events and Setting Up Integration Platform.

Chapter 2: Setting Up Business Events

This chapter describes how to set up business events, use the Business Events and Business Events Data screens, and move the configured business events between environments.

Business Events Screen

This section describes the functionality and purpose of the Business Events screen.

Business Events Data Screen

This section describes the functionality and purpose of the Business Events Data screen.

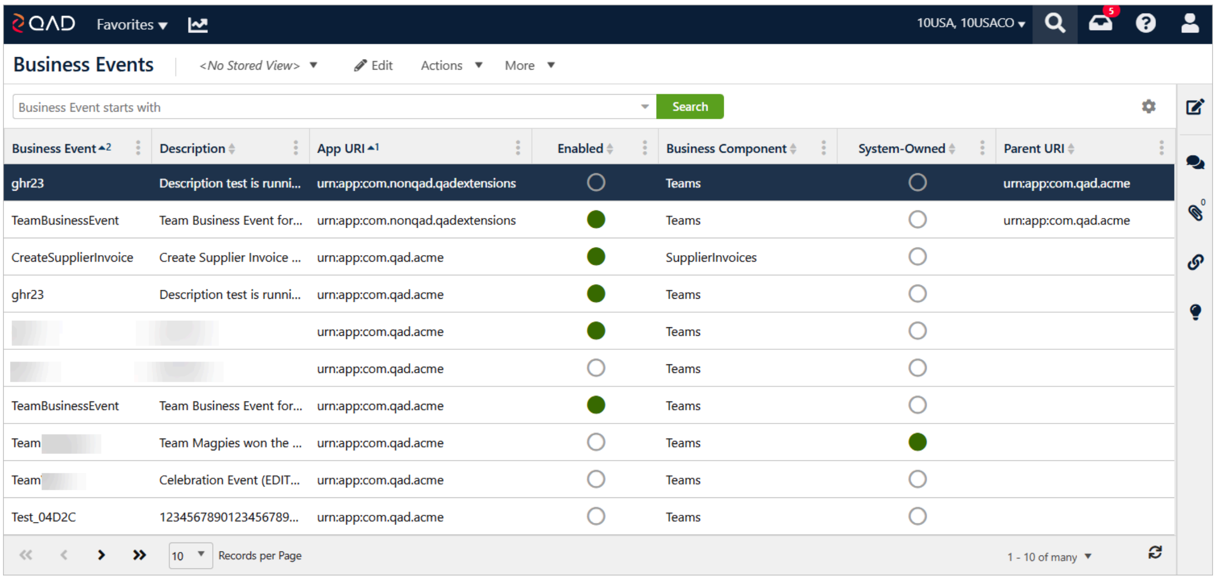
Moving Business Events between Environments

This section describes how you can move the configured business events between environments.

Business Events Screen

On the Business Events screen, you can view and edit the business events that are displayed in a summary grid.

Important You cannot directly edit the business events created by QAD or the system-owned business events. To configure data of such business events, create a copy by clicking the **Copy** button in the **Actions** menu at the top of the Business Events screen. You can create only one copy at a time.



Business Events Screen

The Business Events summary grid contains the following columns:

Business Event

Business event name.

Description

Short summary of the main function of the current business event.

App URI

Indicates the URI of the app where the business event was raised. App URI values for system-originated business events contain the "com.qad" QAD namespace. For copied business events, the App URI values contain the word “extensions” at the end, for example, urn:app:com.qad.extensions, and the ParentURI is specified in the corresponding field.

Enabled

An indicator of whether a business event is enabled in the system. The following options are available:

Gray circle: the business event is disabled.

Green circle: the business event is enabled.

Note You can enable or disable a business event by selecting or clearing the Enable checkbox on the Business Event page. For more information, see Main Panel.

Business Component

A business component that is linked to the business event.

System-Owned

An indicator of whether the business event is owned by the system. The following options are available:

Gray circle: the business event is not owned by the system. You can edit any data in such business events.

Green circle: the business event is owned by the system. You cannot edit data in such business events, but you can configure Conditions and update the Republish section for them.

Parent URI

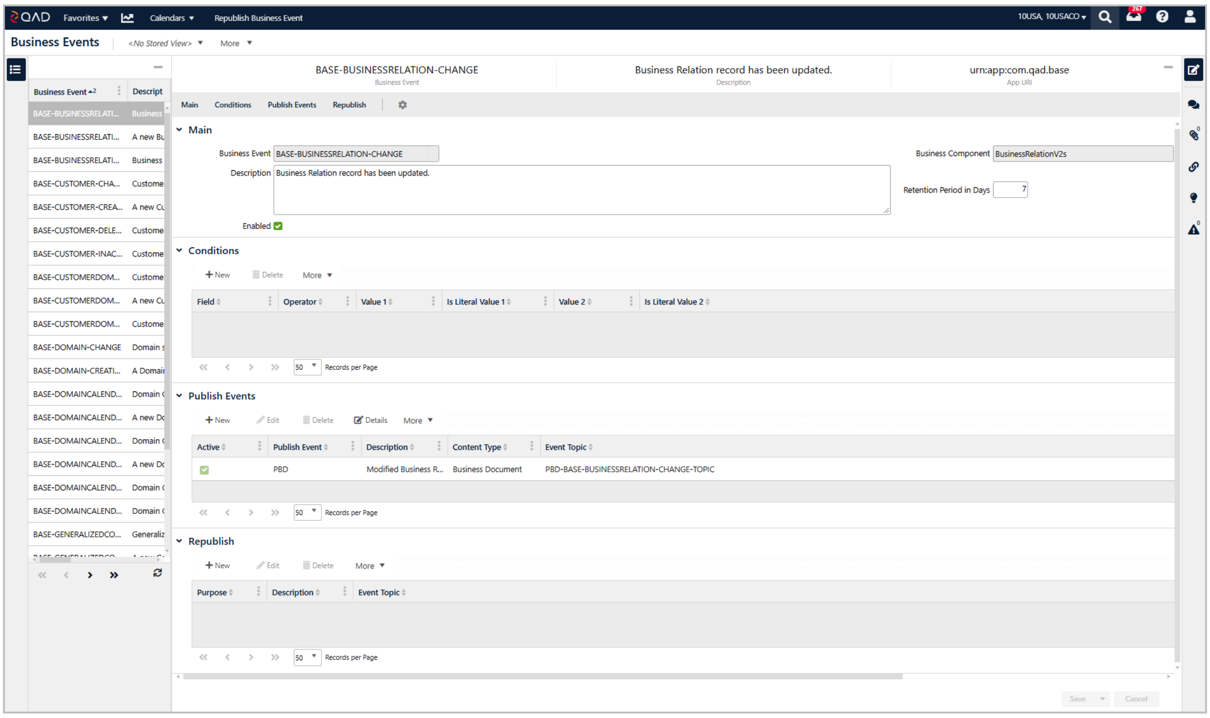
For the copied business events, the Parent URI field indicates the URI of the original business event from which the data was copied.

Note You cannot add new business events to the Business Events grid. To request additional business events, contact QAD.

To view or configure a business event, double-click the needed record or select it in the list and click the **Edit** button at the top of the Business Events screen. The Business Event page appears. At the top of the page, you can see the business event name, description, and the URI of the app the selected business event is associated with. At the center of the page, you can view the detailed information about the selected business event or edit the needed data on the following panels:

- Main Panel
- Conditions Panel
- Publish Events Panel
- Republish Panel

Important For the business events created by QAD and for the system-owned business events, you can only edit data on the above-mentioned panels if you use a copy of a business event.



Business Events Page

Main Panel

The Main panel allows you to view basic information about the selected business event and configure the primary data.

Note You can edit values on the Main panel only for the business events that are not system-owned. For system-owned business events, you can only edit data in a business event copy in the Conditions and Republish panels.

On the Main panel, fill in the following fields:

Business Event

This field is read-only. It indicates the name assigned to the business event in the system. The business event name consists of the app name, business component name, and the business event type. Business event names must be described in capital letters and divided by a hyphen (-). For example, BASE-BUSINESSRELATION-CHANGE.

Description

Enter a summary of the main function of the current business event. For example, the Business Relation record has been updated.

Important The maximum number of symbols for the business event description is 256.

Enabled (checkbox)

Select the checkbox to enable the business event. Clear the checkbox to disable the business event. By default, the checkbox is cleared.

Business Component

This field is read-only. It indicates the name of the business component associated with the business event. For example, BusinessRelationV2s.

Retention Period in Days

Enter the needed number of days to indicate the duration of time to keep and maintain business event data in the database before it is deleted or archived.

The default value for this field is 7.

Conditions Panel

The Conditions panel allows you to create specific conditions that define when a business event is triggered or executed. Using the Conditions panel, you can perform the following actions:

- Create a condition by clicking **+New**.
- Delete a condition by selecting it in the grid and clicking **Delete**.

Note The **Delete** and **+New** buttons are only enabled for the business events that are associated with a business component.

On the Conditions panel, fill in the following fields:

Field

Indicates the field associated with the business component. Click the lookup icon and select the needed field from the list.

Operator

Select the needed operator in the drop-down menu.

Value 1

If the **Literal Value 1** checkbox is selected, you can enter any value. If the **Literal Value 1** checkbox is cleared, click the lookup icon and select the needed value from the list generated by the system.

Is Literal Value 1 (checkbox)

Select the checkbox to enter any value in the **Value 1** field. Clear the checkbox to select the value from the lookup menu generated from the system. By default, the checkbox is selected.

Value 2

This field is only enabled if you select **Range** in the **Operator** drop-down menu. If the **Literal Value 2** checkbox is selected, you can enter any value. If the **Literal Value 2** checkbox is cleared, click the lookup icon and select the needed value from the list generated by the system.

Is Literal Value 2 (checkbox)

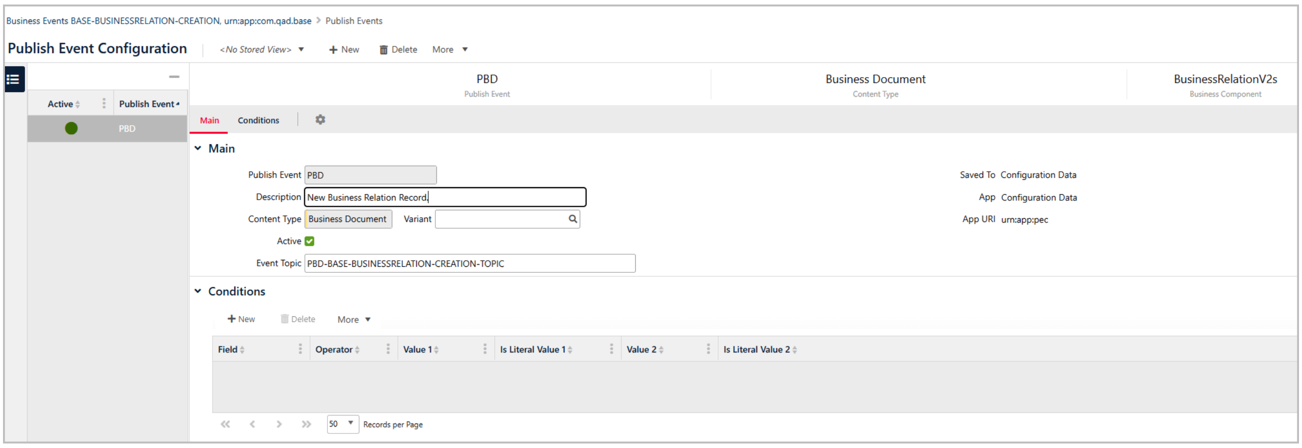
This checkbox is only enabled if you select **Range** in the **Operator** drop-down menu. Select the checkbox to enter any value in the **Value 2** field. Clear the checkbox to select the value from the lookup menu generated from the system. By default, the checkbox is selected.

Publish Events Panel

Note You can edit the values in the Publish Events panel only for the business events that are not system-owned.

The Publish Events panel allows you to define the publishing details for the business event, including its content type and event topic. Using the Publish Events panel, you can perform the following actions:

- Create a publish event by clicking **+New**.
- Edit an event by selecting it and clicking the **Edit** button, or by double clicking the event.
- Delete an event by selecting it and clicking **Delete**.
- View additional details about an event by selecting it and clicking the **Details** button. The Publish Event Configuration window appears, where you can update the Main information and configure the needed conditions for the selected publish event. For more information about the Conditions panel, see [Conditions Panel](#).



Publish Event Configuration Window

Note The **Delete** and **+New** buttons are only enabled for the business events that are associated with a business component.

On the Publish panel, fill in the following fields:

Active (checkbox)

Select the checkbox to activate the publish event. Clear the checkbox to deactivate the publish event.

Publish Event

Enter the publish event name. This field is only enabled when you create a new publish event.

Description

Enter a short summary of the main function for the publish event. For example, Modified Business Relation Record.

Content Type

This drop-down is only enabled when you create a new publish event. Select the needed content type in the drop-down menu, such as Business Document, Business Component, or Event Only. The content type defines the payload of the business event in the following way:

- For the Business Document content type, the system publishes the entire entity along with all changes that happened in the scope of the business event.
- For the Business Component content type, the system publishes the entire entity along with the changes that happened to a business component in the scope of the business event.
- For the Event Only content type, the system publishes a notification that the business event was triggered, without specifying any additional information or carrying any business object. It publishes a notification with the Event name.

  Note If the selected business event is not associated with a business component, then you can select just the **Event Only** content type.

Variant

This field is only enabled if you select Business Document in the Content Type field. Click the lookup to select an existing Business Document Variant or create a new one from scratch. If you populate the Variant field, the system publishes the specified Business Document Variant containing the changes.

Note For more information about Business Document and Business Document Variant content types, see Chapter 5: Business Document vs Business Document Variant.

Event Topic

Enter the event topic name for your event streaming platform. This event topic will be used to publish the business event instances.

Note You can define your own topics. If you specify a topic that does not exist in the event streaming platform queue, it creates a new topic when the event is triggered. In this case, the business event flow works fine, but the consuming system cannot receive the event data as it cannot recognize the topic. To access the published data, the consuming systems must have information about the topics you define.

Important The **Event Topic** field value is case sensitive. You need to be careful when entering the topic name—if you make a mistake in the topic name, the event streaming platform will not recognize it and will create a new topic in the queue.

Republish Panel

The Republish panel allows you to define the republishing details for the business event if certain data needs to be republished. Using the Republish panel, you can perform the following actions:

- Create a republish event by clicking **+New**.
- Edit a republish event by clicking **Edit**.
- Delete a republish event by clicking **Delete**.

On the Republish panel, fill in the following fields:

Purpose

Enter the purpose code of the republishing.

Description

Enter a short summary of the main function for the republishing.

Event Topic

Enter the event topic name for your event streaming platform.

Note You can define your own topics. If you specify a topic that does not exist in the event streaming platform queue, it will create a new topic when the event is triggered. For more information about republishing business events, see Republish Business Events.

Important The **Event Topic** field value is case sensitive. If you make a mistake in the topic name, the event streaming platform will not recognize it and will create a new topic in the queue.

Business Events Data Screen

When a business event is raised, the system creates a record on the Business Events Data screen before this data is sent to the event topic.

To view the business event data, double-click the needed business event record or click the Open button at the top of the Business Events Data screen. The business event data page opens. At the top of the page, you can see the business event record name, business component, and the timestamp indicating when the business event was raised. The format for the timestamp is the following: MM-DD-YYYY HH:MM.

At the center of the page, you can view the detailed information about the selected business event record on the Main panel. The Main panel allows you to view information in the read-only mode. The following fields are available:

Business Event

Indicates the name assigned to the business event in the system. The business event name consists of the business component name and business event type. For example, BASE-BUSINESSRELATION-CHANGE.

Business Component

Indicates the name of the business component associated with the business event. For example, BusinessRelationV2s.

Is Processed (checkbox)

Indicates if the business event record is successfully processed by the system or not.

Timestamp

Indicates the date and the time when a business event was raised. The format for the timestamp is the following: DD-MM-YYYY HH:MM.

Purpose

Indicates the purpose code for publishing the business event. For more information about this field value, see [Republish Business Event Screen](#).

Business Event Data

Indicates the business event payload sent to the system in the JSON format. This data includes information about the changes that happened after the business event was triggered.

App URI

Indicates the URI of the app where the business event was raised.

Content Type

Indicates the content type of the business event, such as Business Document, Business Component, or Event Only.

Variant

Contains the Business Document Variant information if you configure it for the business event. If there is no Variant configured for the business event, the field remains blank.

Event Topic

Indicates the event topic name for your streaming platform.

Indentifier

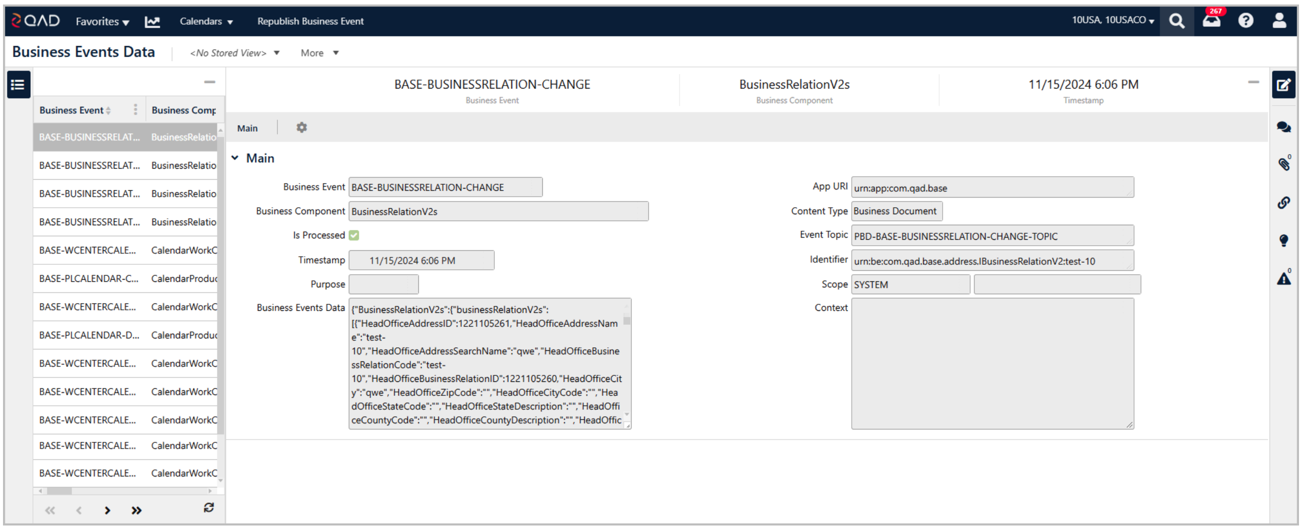
Indicates the element data impacted by the business event raise.

Scope

Indicates the scope of data impacted by the business event raise. For example, System, Domain 10USA, and so on.

Context

Indicates the context for the raised business event.



Business Events Data Page

Moving Business Events between Environments

You can move configured business events between environments using the standard YAB Install procedure.

To prepare an app package with the business event you want to move, perform the following steps:

1. Create a custom app where you will configure the needed business event.
    a. Access **Apps** and click **+New**.
    b. In the **App** field, specify the name for your custom app.
    c. Click **Save**.
2. Set the created custom app as **Active** in your environment.
    a. Access **My Developer Settings**.
    b. In the **Active App** field, select **Use Custom** and search for your custom App in the lookup.
    c. Click **Save**.
3. In the pop-up window that opens, click **Reload Now** to refresh the page and apply the changes.
4. In **Business Events**, select the business event that you want to modify. Click **Actions -> Copy.**
5. Modify the copied business event, add conditions, and perform other actions, as needed. Click **Save**.
6. Access **Apps**. Select **Actions->Package**. Click **Submit** to run the script and send the results to your inbox.

    Note Running the script at this stage may take a while.

7. In your inbox, select the latest notification with the following topic: **OS Script Processing: Create app package**. Click **Download**.

When you download the app package, you can move it to another environment using the standard YAB Install procedure or contact QAD Cloud Services for further assistance.

Chapter 3: Setting Up Integration Platform

This chapter describes the setup steps that you must perform to work with the business event functionality, as well as the features of the Integration Platform Setup and Business Event Scope Configuration screens.

Overview

This section describes the purpose of performing the Integration Platform setup.

Integration Platform Setup

This section describes the steps you must complete to set up the functionality.

Overview

Tenants' data in the Integration Platform must be isolated from other tenants and secured on the event streaming platform data sources. To ensure that event topics are secured for a single tenant, perform the Integration Platform setup and link tenants to corresponding domains in the system. This setup routes the published business event data to the desired Integration Platform tenant(s) when using the Business Event functionality.

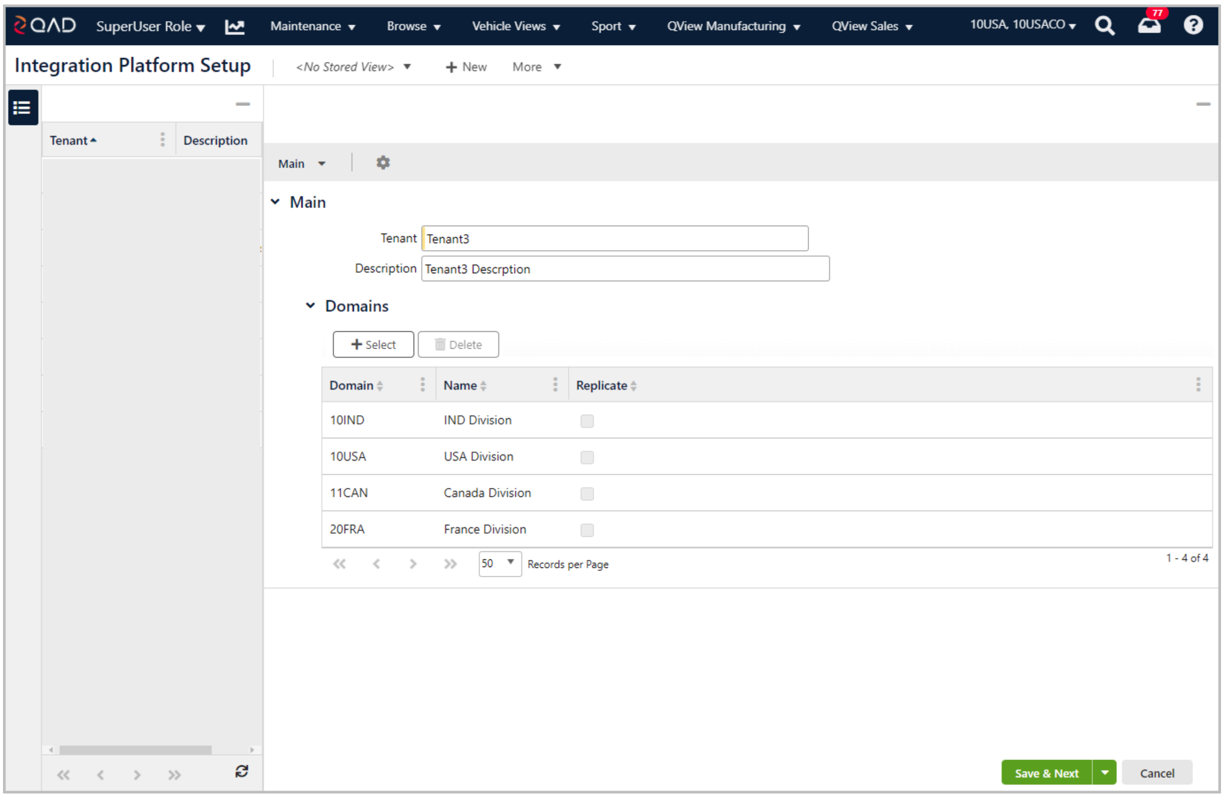
Note The Integration Platform setup is usually performed by a System Administrator and forms the basis of routing Business Events to the desired downstream systems.

Multiple domains can co-exist within the same application instance. So, the Integration Platform tenants can contain several domains and application instances.

Integration Platform Setup

To set up the connection between tenants and domains, perform the following steps for each tenant:

1. Access the Integration Platform Setup Screen.
2. Click **New** at the top of the page.
3. On the Main panel, populate the following fields:
    a. **Tenant**: Specify the name of the Integration Platform tenant.
    b. **Description**: Specify the description for the setup.



Integration Platform Setup

4. On the Domains panel, click **Select** and select the needed domain value from the Active Domain Lookup window that opens. You can select one or several domains that you want to link to the

tenant. To delete any of the domains you added, select the needed record in the list and click **Delete**.

5. Select the **Replicate** checkbox for domains whose messages you want to publish to the IP cluster of the event streaming platform. It enables the system to identify which messages from the initially published data must be picked from the local cluster and replicated to the IP cluster.

   Note In the backend, the topics with messages of the selected domains are prepended with "replicate_". For example, if an event is published to **TopicA** from a domain under **Tenant1** with the **Replicate** checkbox selected, the final topic name will be **replicate_Tenant1_TopicA** .

   Important You cannot manually define a topic name starting with “replicate”.

6. Click **Save** to save the record. Alternatively, you can click **Save & Next** to save the created record and open a blank page to create a new record in one click.

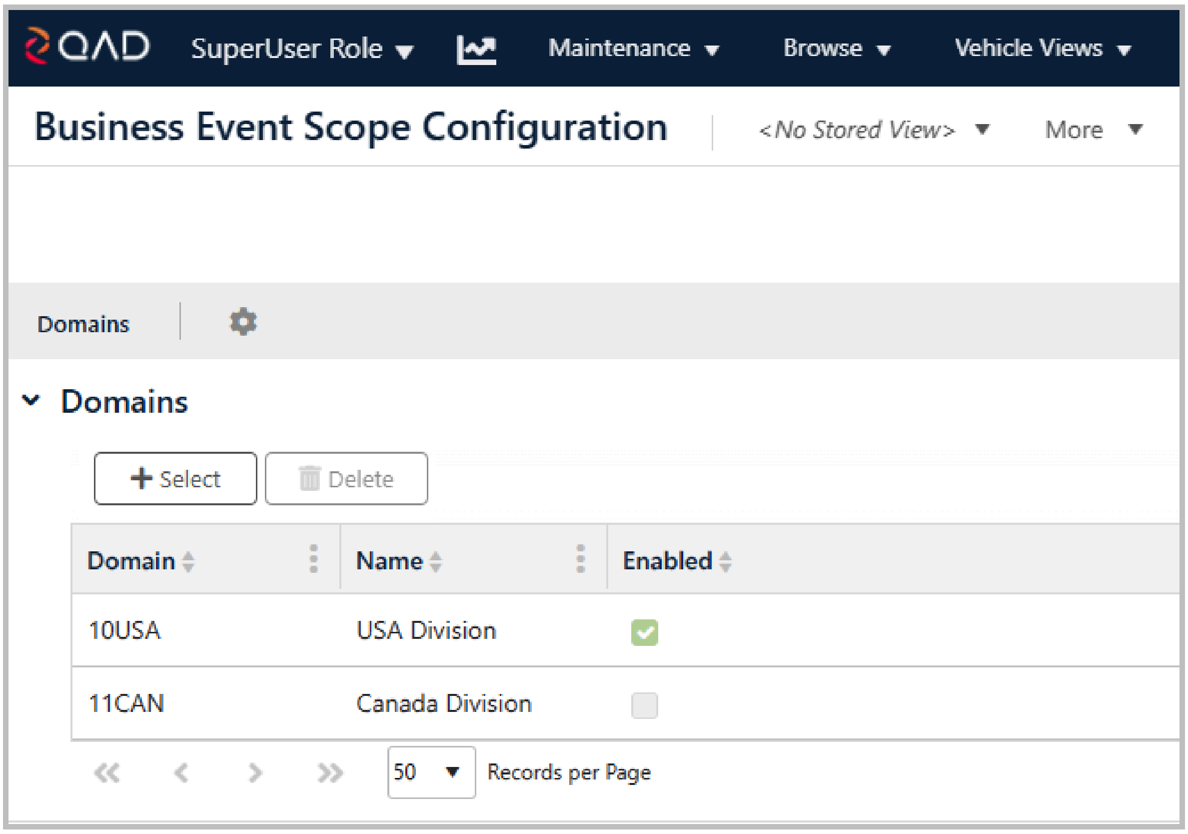
Business Event Scope Configuration

To restrict business event configuration by domains, access the Business Event Scope Configuration screen and perform the following steps:

1. On the Domains panel, click **Select**.
2. In the Active Domain Lookup that opens, select the domain that you want to enable for the business events that you configure.
3. Click **OK**.

   Note To add more domains, repeat steps 1-3.

4. To enable the needed domain(s), select the **Enabled** checkbox in the domain grid.
5. Click **Save** to save your settings.



When you perform the above setup, the business event will only be triggered if it occurs in the selected domain(s).

Chapter 4: Business Events Functions

This chapter describes the Republish Business Event screen and Force Publish Business Event functionality.

Republish Business Event Screen

This section describes the functionality and the purpose of the Republish Business Events screen.

Force Publish Business Event Functionality

This section describes the purpose of the Force Publish Business Events Data functionality.

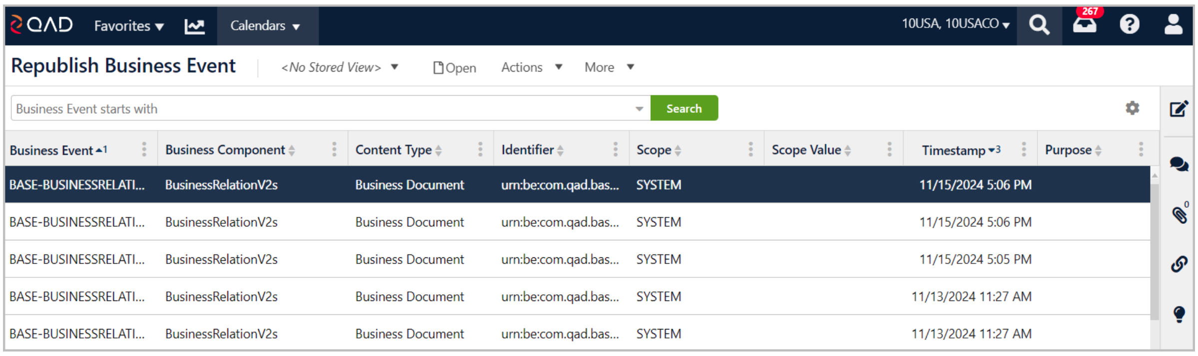
Republish Business Event Screen

The Republish Business Event screen allows you to republish the business event data when needed. For example, if the data that was published earlier got lost.

Note To republish several business events, you must select business events with the same name only.

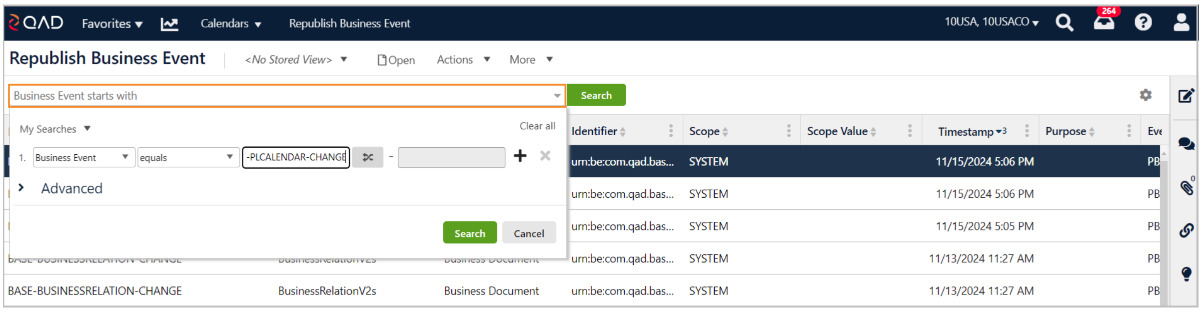
To republish a business event, perform the following steps:

1. Access the Republish Business Event screen.



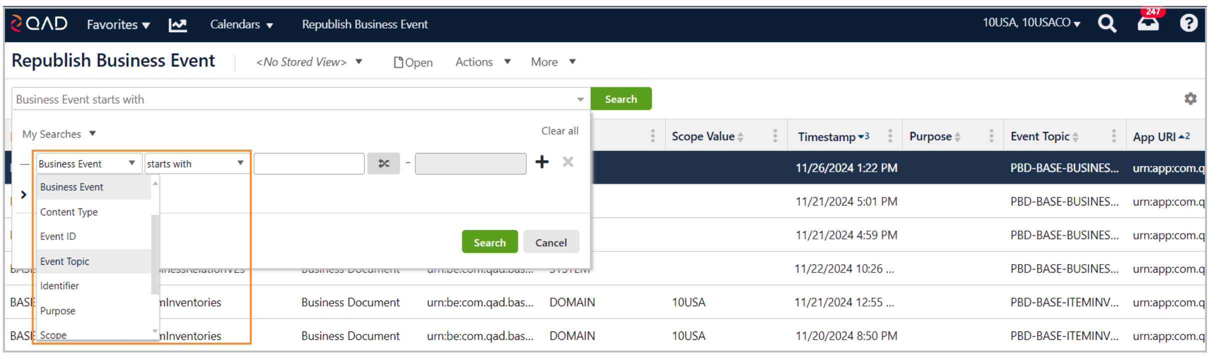
Republish Business Event Screen

2. In the filter, specify the required business event, and click **Search**.

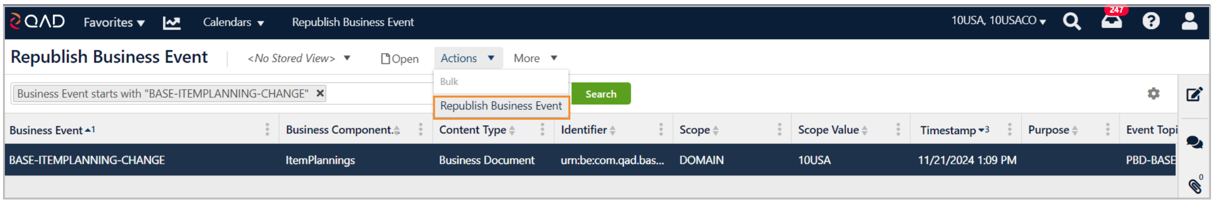


Republish Business Event Filter

You can also use the My Searches filter to add additional requirements. For example, App URI, Business Component, Business Event, Content Type, Event IT, Event Topic, Identifier, Purpose, Scope, Scope Value, and Timestamp.

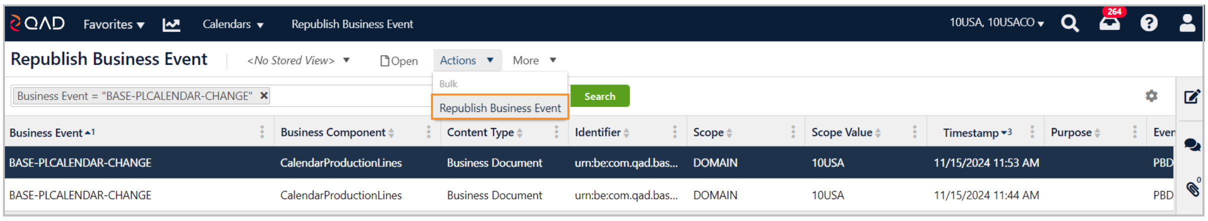


Republish Business Events Filter, My Searches



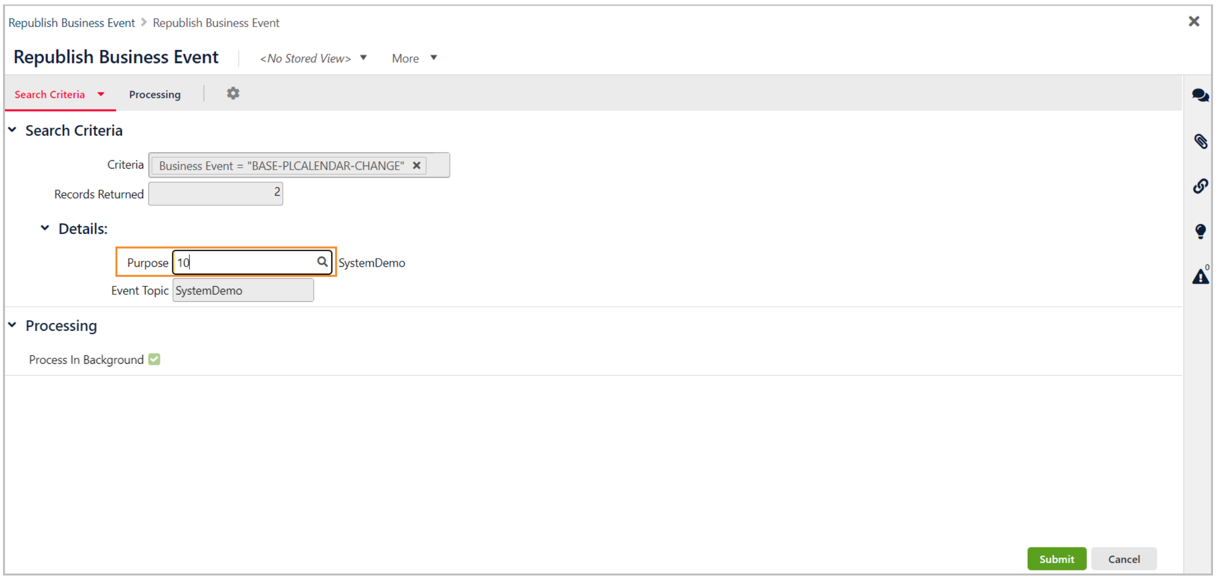
Republish Single Business Event

3. Click **Actions** -> **Republish Business Event**.



Republish Business Event Button

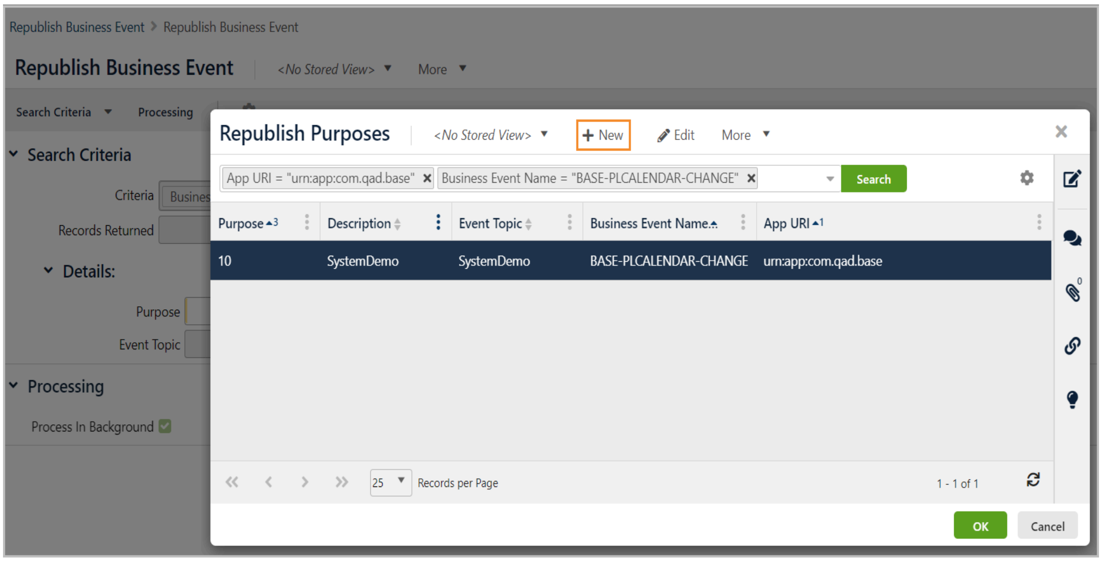
4. On the page that opens, use the lookup to select the **Purpose** and click **Submit**. The Event Topic field is populated automatically after you specify the purpose code.



Republish Business Event, Search Criteria, and Processing

Note You can also add a new Republish Purpose by performing the following steps:

1. In the Purpose field, click the lookup icon, and then select + **New**.



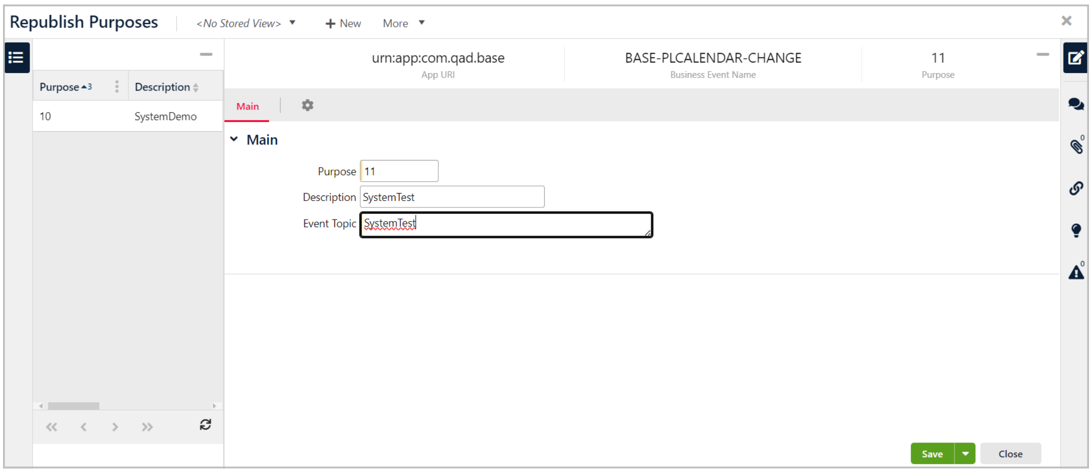
Adding a New Republish Purpose

2. Fill in the following fields:
   a. **Purpose**: the code of the republish purpose.
   b. **Description**: the description of the republish purpose.
   c. **Event Topic**: the event topic name for the event streaming platform.

   Note You can define your own topics. If you specify a topic that does not exist in the event streaming platform queue, it will create a new topic when the event is triggered.

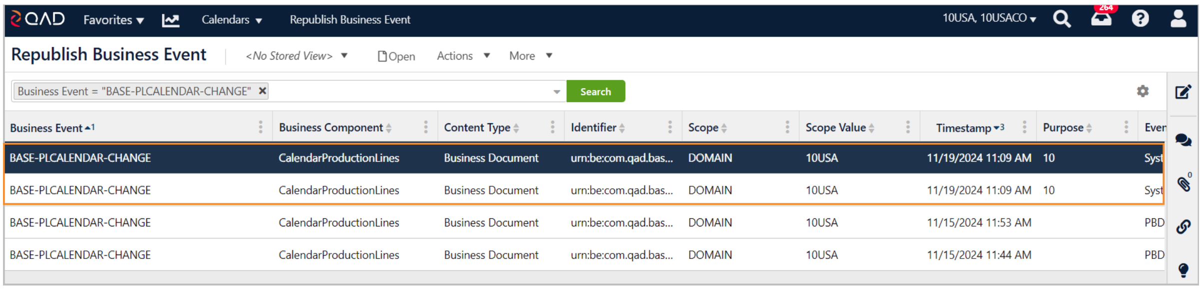
   Important The **Event Topic** field value is case-sensitive. If you make a mistake in the topic name, the event streaming platform will not recognize it and will create a new topic in the queue.

3. Click **Save** and **Close**.



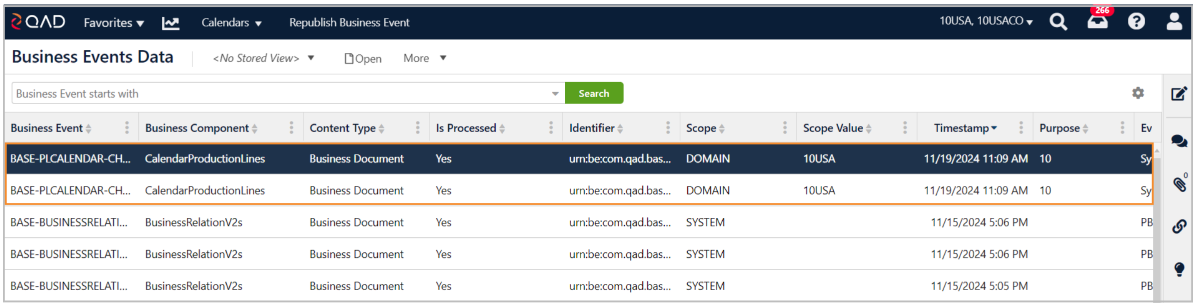
Adding a New Republish Purpose Page

5. Update the Republish Business Event screen to see the changes.



Republish Business Event, Updated Screen

6. Access the Business Events Data screen to view the record of the republished business events. For more information about the Business Events Data screen, see [Business Events Data screen](#).



Business Events Data Screen

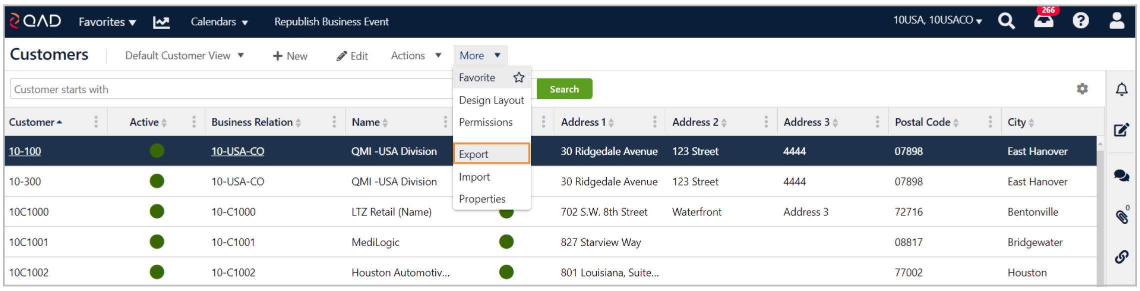
Force Publish Business Event Functionality

The Force Publish Business Event functionality allows you to publish the selected records to an event topic.

Note You do not need to use third-party applications to extract the data directly from the QAD database.

To force publish a business event, perform the following steps:

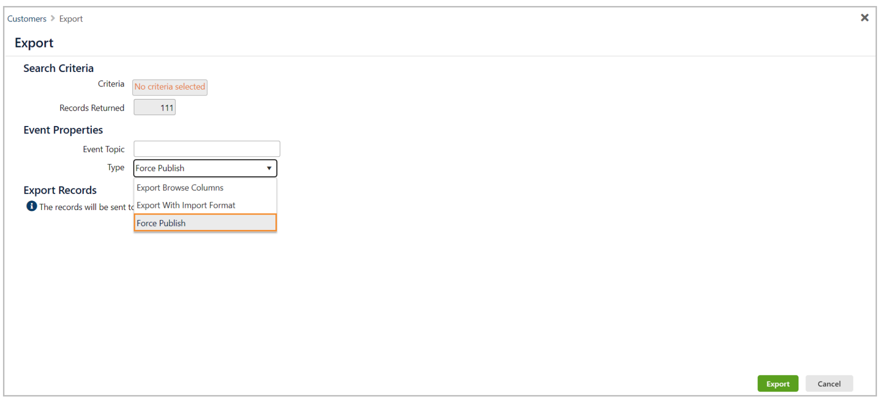
1. Access the required screen where you want to force publish the business event. In the **More** drop-down menu, select **Export**.



Customers Screen

2. On the Export page, fill in the following fields:
   - **Criteria**: This field is read-only. It displays any browse search criteria that you have applied.
   - **Records Returned**: This field is read-only. It displays the number of records returned according to the search criteria.
   - **Event Topic**: Enter the event topic name for your event streaming platform.
     Note You can define your own topics. If you specify a topic that does not exist in the event streaming platform queue, it will create a new topic when the event is triggered.

     Important The **Event Topic** field value is case-sensitive. If you make a mistake in the topic name, the event streaming platform will not recognize it and will create a new topic in the queue.
   - **Type**: select the Force Publish option.
3. Click **Export**.



Force Publish Business Events Screen

Chapter 5: Business Document vs Business Document Variant

This chapter provides an overview of Business Documents and Business Document Variants, explains the key differences between them, outlines their business value, and describes the required setup steps.

Business Document

This section describes the functionality and the purpose of Business Documents.

Business Document Variant

This section describes the functionality and the purpose of Business Document Variants.

Business Document

A **business document** represents a structured collection of related business components that are logically grouped together for the purpose of application integration—both inbound and outbound. These components are organized using a **parent-child relationship**, ensuring a clear and consistent structure. A typical example is the **Sales Order** business document, which includes components such as **SalesOrderHeader** (parent) and **SalesOrderLine** (child).

Why Use Business Documents?

Business documents simplify and streamline integration by allowing you to work with an entire set of related data as a single unit. Instead of processing each component (for example, headers, lines, notes, and so on) separately, you can handle the complete business process in one transaction.

For example, when integrating with the **Sales Order** business document, the system processes all related components—such as **SalesOrderHeaders, SalesOrderLines**, and **Notes**—together. This eliminates the need for multiple integration points, reduces complexity, and ensures data consistency across the application.

Business Value

- **Efficiency**: Fewer integration calls reduce processing time and system load.
- **Data Integrity**: Working with grouped components minimizes the risk of partial or inconsistent data updates.
- **Simplified Development**: Developers can design integrations around complete business processes rather than separate components.
- **Scalability**: A consistent model makes it easier to scale and maintain integrations over time.

By leveraging business documents, your integration strategy becomes more robust, coherent, and aligned with how real-world business processes operate.

Business Document Variant

A **Business Document Variant** is a customizable subset of a standard Business Document. It allows you to tailor the data structure by selectively removing fields or relationships that are not relevant or, on the contrary, by adding fields and relationships for a particular integration scenario.

Business Value of Using Variants

- **Improved Performance**: Transmit only the required data to reduce payload size and improve integration speed.
- **Simplified Compliance**: Easily delete sensitive or unnecessary data to meet data privacy regulations or partner-specific requirements.
- **Increased Flexibility**: Adapt a single Business Document structure to multiple use cases without redefining it from scratch.
- **Faster Implementation**: Reduce development and testing time by working with a streamlined version of the document.

By using Business Document Variants, organizations gain greater **control and efficiency** in their integration strategies—enabling the reuse of core business structures while tailoring them for specific contexts or partners.

Setting up Business Document Variant

To create a separate Business Document Variant record, access Business Document Variants and click **+New**. On the page that opens, fill in the following fields:

Main Panel

Business Document

Click the lookup icon and select the Business Document record to associate with the created Business Document Variant.

Business Document URI

This field is populated automatically when you select the value in the Business Document field.

Name

Specify a name for the current Business Document Variant.

Description

Add a description for the current Business Document Variant.

Active

Clear this checkbox to deactivate the current Business Document Variant. By default, the checkbox is selected.

Saved To

Select if you want to save the business document variant to App Data or Configuration data. Based on the setup, you can export and import the corresponding document variant data.

App

The field is automatically populated based on the value you specify in the Saved To field.

App URI

The field is populated automatically based on the value you specify in the Saved To field.

Last Modified Date

The field is automatically populated with the date the Business Document Variant was last modified.

Last Modified by

This field is automatically populated with the account name of the user who last modified the current Business Document Variant.

Association Panel

Associated BC

Select the Business Component that you want to associate with the Business Document that you specified on the Main panel.

Associated BC URI

The field is populated automatically based on the value you specify in the Associated BC field.

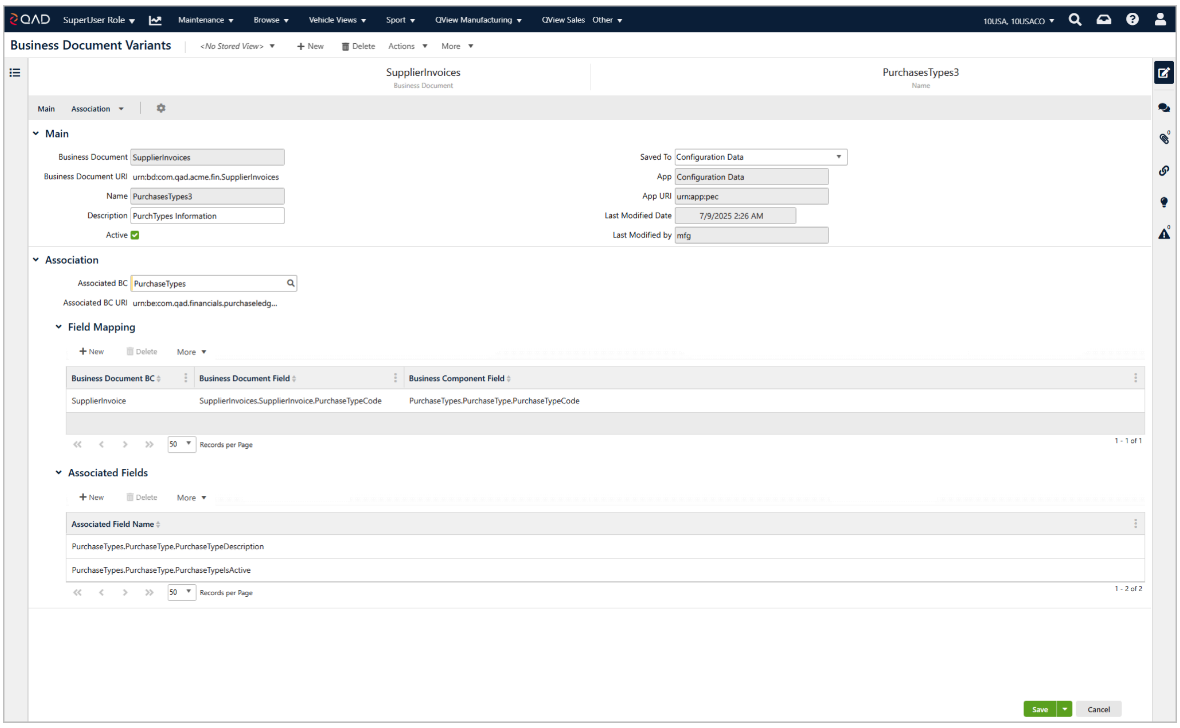
On the *Field Mapping subpanel*, connect the corresponding fields of Business Document and Business Component by performing the following steps:

1. Click **+New**.
2. Click the lookup icon in the Business Document Field column and select the needed value in the window that opens. Click **OK**.
3. Click the lookup icon in the Business Component Field column and select the needed value in the window that opens to match it with the Business Document. Click **OK**.

On the *Associated Fields subpanel*, specify any additional information you want to see in your Business Document Varian by performing the following steps:

1. Click the lookup icon.
2. Select a corresponding field value in the window that opens.
3. Click **OK**.

As a result, the business document variant payload will include the additional information you specify when a corresponding business event is raised.



Business Document Variants

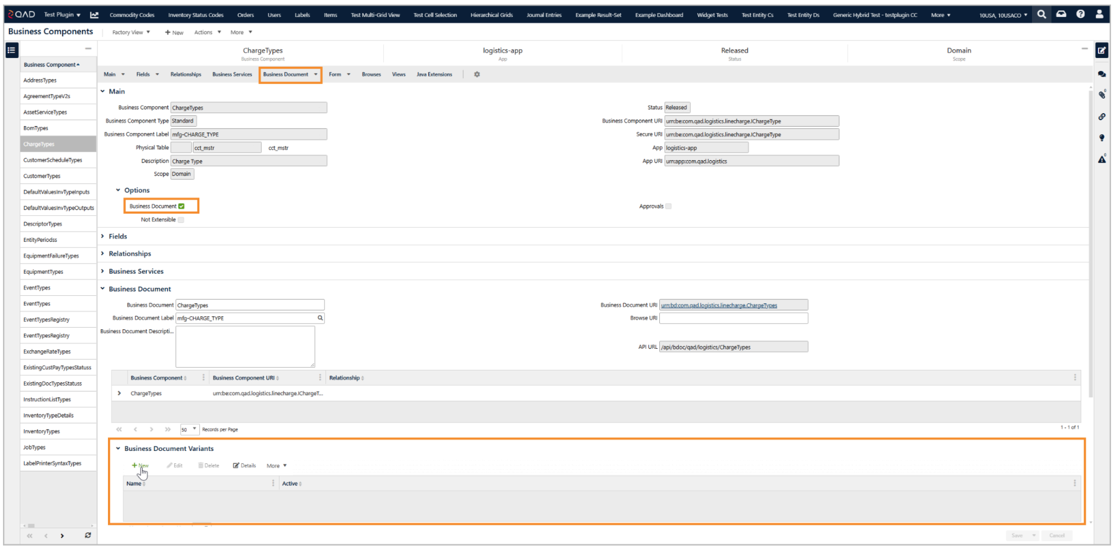
Integration of business document variant in the Business Component Screen

For business components that are part of a Business Document and have the Business Document option enabled, you can configure Business Document Variants directly from the Business Components screen. This integrated setup makes variant management more accessible and convenient.

To access and configure a Business Document Variant from the Business Component page, perform the following steps:

1. Select the corresponding Business Component and open the Business Component page.
2. Click the **Business Document** tab to navigate directly to the Business Document panel.
3. On the **Business Document Variant** subpanel, click **+New** to start configuring a variant for the current business component.
4. On the page that opens, define the settings for the new Business Document Variant. For more information about configuration, see [Setting up Business Document Variant](#).

Note When you configure business document variants from a business component page, the system populates the business document information automatically.



Business Components, Business Document Variants

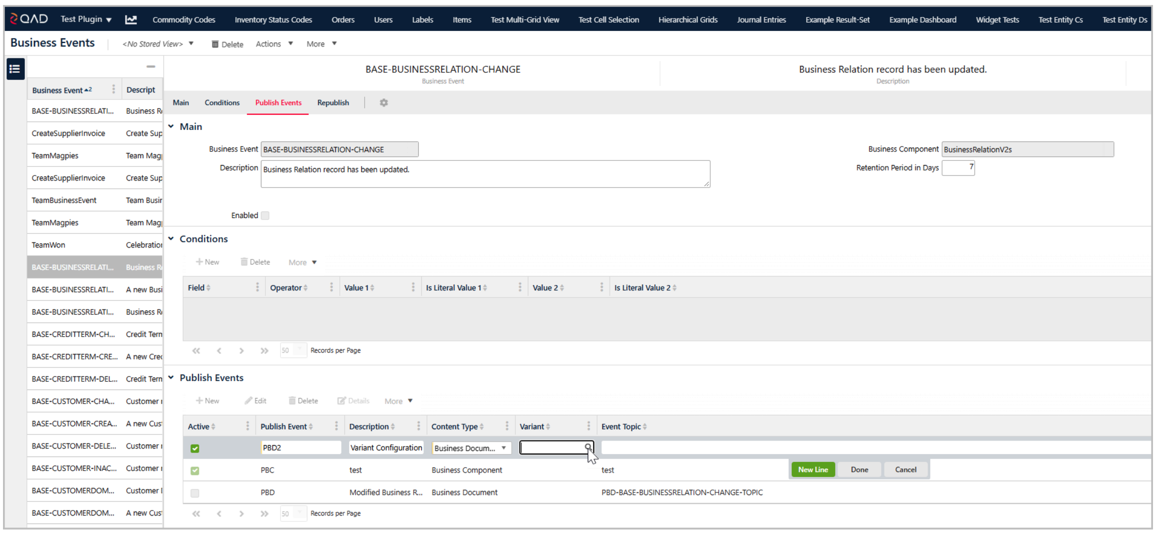
Integration of business document variant in the Business Events Screen

You can configure Business Document Variants directly from the Business Events screen via the Publish Events panel.

Important: The functionality is only available for Publish Events where **Content Type** is set to **Business Document**. For other content types the Variant column is disabled.

To configure a Business Document Variant, perform the following steps:

1. Navigate to the Publish Events panel.
2. Create or edit a Publish Event. For more information about configuring publish events, see Publish Events Panel.
3. In the Content Type field, select Business Document. This enables the Variant field.
4. Click the lookup icon in the Variant field.
5. In the window that opens, click ***+New*** to create a new Business Document Variant.
6. Complete the configuration as described in Setting Up Business Document Variant.



Business Events, Publish Events Panel