



TIBCO® AuditSafe

User Guide

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Product Overview

TIBCO® AuditSafe is a cloud-native TIBCO product component that can be used to store the audit trail of business transactions across different applications.

It lets you connect to your cloud or on-premise applications to import information so that you can start logging key audit events.

You can view an overview of the recent transactions and event-related data. On the dashboard, easily find a transaction, a chain of transactions, and even a complete hierarchy of complex transactions using easy-to-navigate graphical views. Also, it allows you to customize the views to display what you want to see, and hide what you do not.

Moreover, TIBCO AuditSafe helps you to avoid non-compliance fines. You can now easily log the history of your business transactions.

TIBCO® Auditsafe Terminology

This topic provides a brief description of the terms that describe events or the chain of events in TIBCO® Auditsafe.

Business Process

The chain of successive and chronological events that need to be recorded. For example: an Order process, a Trade process, a Claim process, an Invoicing process, a Payment process, and so on.

Transaction

A unique business process for instance. For example, an order, a trade, a claim, an invoice, a payment, and so on.

Audit Events

The states of a business process that are considered important to record. For example, order fulfillment, order placement, claim filing, payment authorization, and so on.

Event Status

The status of an Audit Event. For example, whether the event started, failed, is in progress, is successful, or is completed.

Logging in to TIBCO AuditSafe

After installing and deploying TIBCO AuditSafe, you can log in to TIBCO AuditSafe using the following credentials:

- Username: tasadmin
- Password: Password

You can also log in to TIBCO AuditSafe by using either the Single Sign-on (SSO) authentication option or the LDAP authentication option.

You can configure these authentication options on the TIBCO BusinessConnect™ Container Edition Admin UI.

For more information on configuring the SSO authentication, see the OIDC Server topic in the *TIBCO BusinessConnect™ Container Edition, Trading Partner Management* guide.

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Concepts

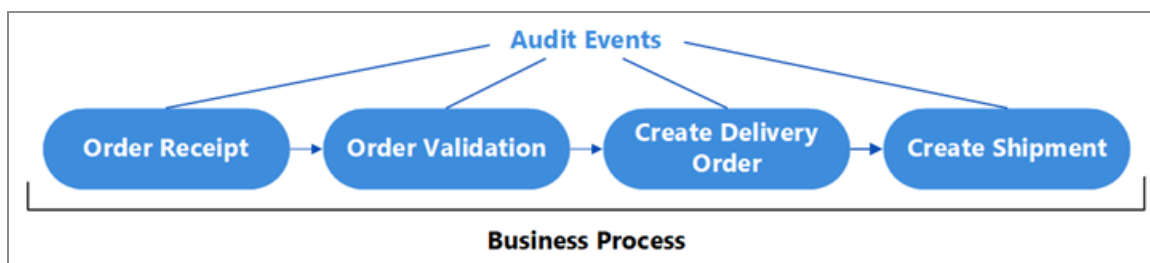
Before you begin using TIBCO® Auditsafe, familiarize yourself with audit trail concepts. By using TIBCO® Auditsafe, you gain an understanding on how your transactions work and can analyze the past and present of your business.

Need of an Audit Trail

The audit trails help you to track events that occur during transactions. For example:

- When healthcare providers communicate with healthcare insurers, they track the services provided for billing purposes.
- Businesses selling a product, track the items from the factory, to warehouse distribution, to delivery to a customer.
- Bank that processes payments from one person (or agency) to another, tracks that the money was available before it was sent, and that it was received.

These types of business make several transactions in a day. Each transaction has a life cycle consisting of at least one, and in most cases multiple data-points (called events), and must be completed for the transaction to conclude. The data-points (or events) that begin and complete a transaction are a business process. Sometimes, the events may also occur in a sequential order. The life cycle of these processes should be logged, recorded, and analyzed to determine if the process was interrupted at any point.



Single Transaction Event

A single end-to-end activity of the business process is called a transaction. Each transaction is usually assigned a numeric or alphanumeric value. For a consumer, this may be the invoice number or Order number that you see when you make a purchase. Within TIBCO

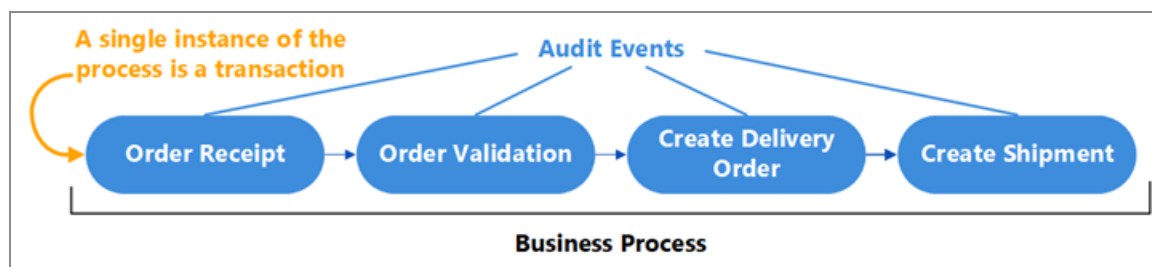
AuditSafe, this assigned value is called a `transaction_ID`. This information is set up during configuration and allows you to track a single transaction from beginning to end.

In addition, each audit event within a transaction contains information that is also configured during setup:

Each event uses a customer-assigned `event_id`. This identifies each event within a transaction. If an `event_id` is not configured during setup, the system uses a time stamp to chronologically chain events containing the same transaction ID.

Each event also contains different stages. For example, when an order is placed its status is “New” and when the customer's credit is validated, it may move to a status of “In Progress”, and so on.

The `transaction_ID` is common for all of these events and event statuses.

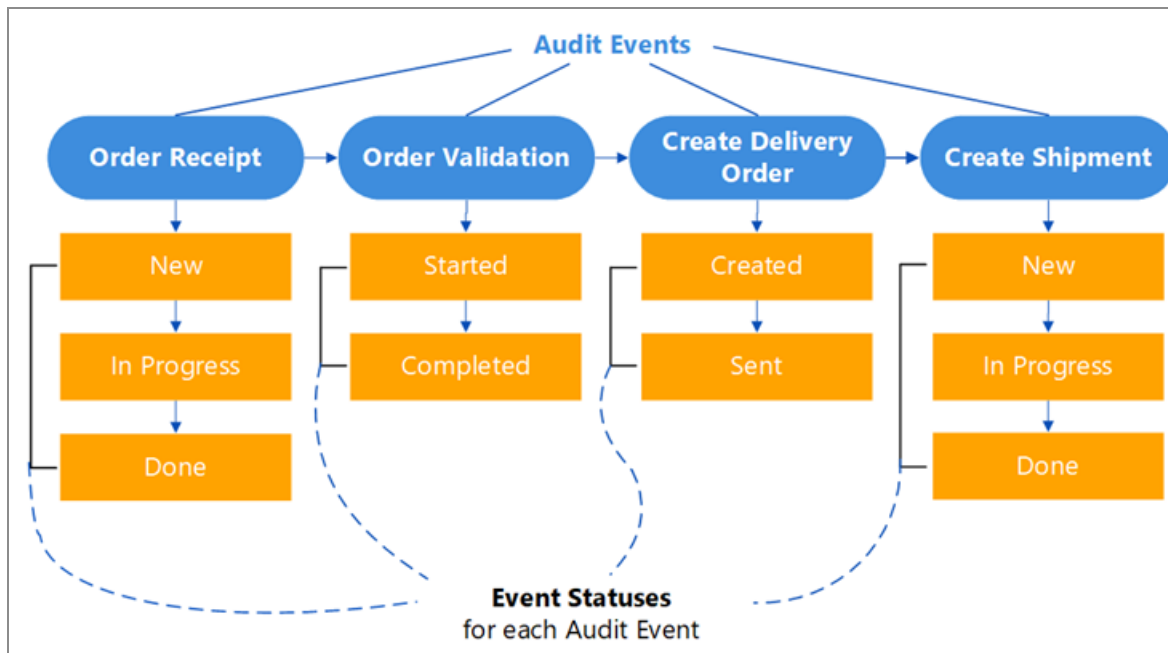


Audit Event and Event Status

Each audit event can contain different statuses. For example, the Order Receipt can contain at least one event status that must occur before the transaction moves to the next audit event (Order Validation) in its lifecycle.

An event status for an audit event could be: New, In Progress, or Done, or it might contain all 3. All event statuses associated with an audit event must be completed, before the transaction can move to the next audit event.

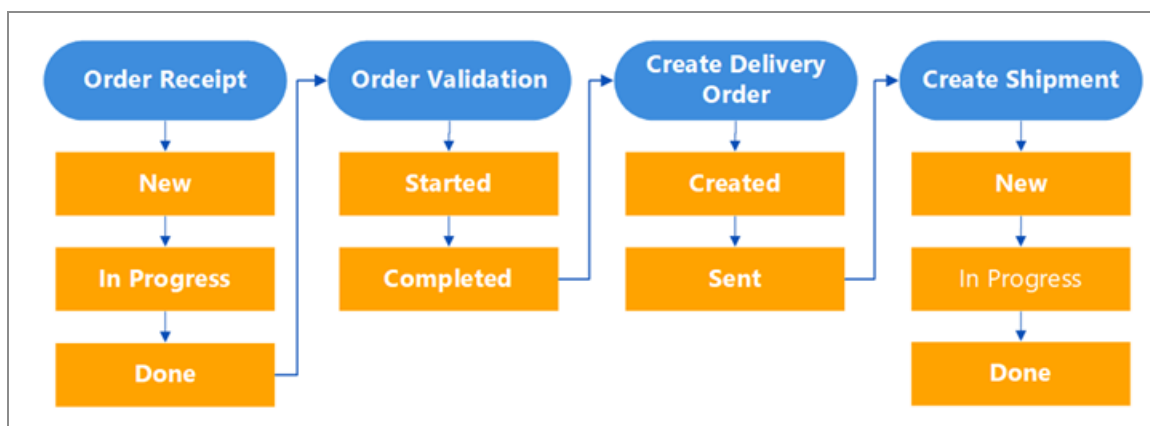
You can use the same event statuses within different audit events as shown below.



To understand how this works together, consider an example of a simplified Wholesale Order-to-Delivery process that contains the Audit Events: Order Receipt, Order Validation (to check availability), Create Delivery Order, and Create Shipment.

A single audit event may contain many event statuses that can be tracked and logged. After all the event statuses are completed for an audit event, the transaction moves to the next audit event in the business process. As seen below, the Order Receipt audit event moves to the Order Validation audit event.

For Order Validation, the event status of Started is where the system may check to see which warehouse contains the item. After the item is located, the event status changes to Finished and the transaction moves to the next audit event where a Delivery Order is created, and so on.



Transaction ID

The transaction ID ties audit events and event statuses together and works with a branched process. Each instance of a business process in a transaction is assigned a `transaction_ID` and all audit events within a transaction are assigned an `event_id`.

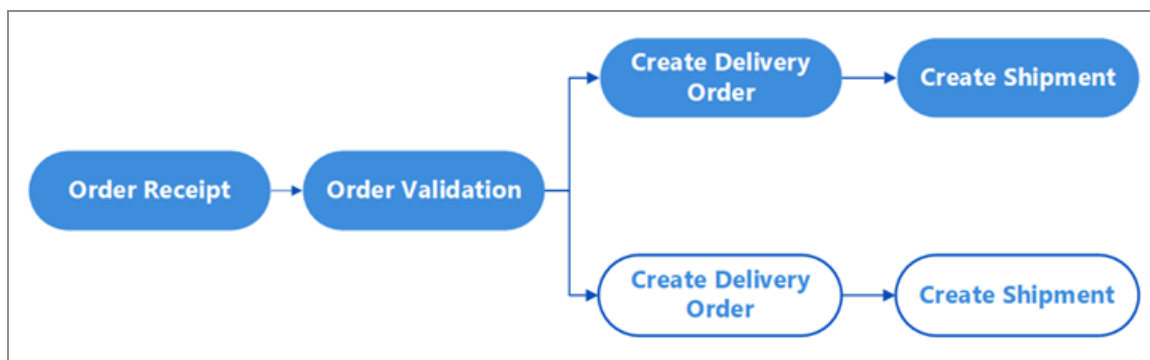
The `transaction_ID` allows any audit event tied to the ID, to be linked to the next audit event within the process, resulting in a chronological chain of all audit events.

Chaining complex or branched transactions, however, requires both `event_id` and `parent_id` data. It is used when a set of events branch off the main flow.

For example, this may happen where one item in an order is available in one distribution warehouse, and the other two items are available in a different warehouse. This means that two delivery orders are created. The items are then shipped separately from the different centers.

To connect these branched workflows, the `event_id` of the previous event in a chain is used as a `parent_id` to identify the hierarchy and succession. Using this relationship allows a user to view the parent-child relationships for the audit trail of the entire business transaction. If a parent ID was not configured, timestamps are used to chain the audit events into a chronological audit trail.

The `transaction_id` connects these events so that you can see what is occurring along both branches. This allows you to track and analyze any points along the branched path. See the following example.



How to Post and Get Events

To work with events, you must first set up a connection between your application and TIBCO AuditSafe and Post or Get events by using the following method:

Use a TIBCO ActiveMatrix BusinessWorks™ Plug-in for TIBCO AuditSafe to connect to applications running on TIBCO ActiveMatrix BusinessWorks™ and TIBCO ActiveMatrix BusinessWorks™ Container Edition, to post events to or get events from TIBCO AuditSafe.

Getting Started with TIBCO AuditSafe

To import data to view your transactions or events, you must first configure and map your application schema to the TIBCO AuditSafe fields by using the TIBCO ActiveMatrix BusinessWorks™ Plug-in. You can access TIBCO AuditSafe with your login credentials.

To try the process and review the steps to upload data, see the following:

- [Process Overview](#): Overview of how to configure the application.
- [Download a Sample Project](#): Information on downloading and extracting a sample project file.
- [Running the Sample Project](#): Information on how to create a project, import a project, and run a sample project.

Process Overview

After you are logged into TIBCO® Auditsafe, you can evaluate the process to create a project and import data. The following steps explain a brief overview of the process:

1. Download the .zip file that contains a sample project.
2. Create Audit events and Event status from the **Settings** tab.
3. Open TIBCO Business Studio to import the sample project.
4. Upload the sample project.
5. Configure and map your application schema to the TIBCO® Auditsafe fields and configure the TIBCO® Auditsafe Shared Resource Connection packaged in the sample before running the process.
6. View the data you imported after running the process.

Start by downloading the .zip file.

For more information, see [Download a Sample Project](#).

Download a Sample Project

To download a sample project, perform the following steps:

- In the left pane on the TIBCO AuditSafe page, click **Connectors** to open the page.
- In the TIBCO ActiveMatrix BusinessWorks™ Plug-in bar, click the **Download** icon to download a sample project.
- Extract the `BWAuditSafeDemo.zip` file to an AuditSafe folder.

The sample project is a `BWAuditSafeDemo.zip` file that contains an Order process workflow. Later, you can use this file as a guide to create your own flow by performing these tasks:

- Editing the workflow
- Editing the input parameters to match your workflow

Each workflow stage can have an audit event and an event status associated with it that are different from audit event/event status for other workflow items.

Running the Sample Project

You must install TIBCO ActiveMatrix BusinessWorks™ and TIBCO ActiveMatrix BusinessWorks™ Plug-in for TIBCO AuditSafe before running the sample project.

You must configure the TIBCO AuditSafe Shared Resource Connection packaged in the sample before running the process.

Before you begin

Ensure that you have downloaded and imported the sample project.

Procedure

1. In the Project Explorer view, expand **BWAuditSafeDemo.module**.
2. Expand **Resources** > **bwauditsafedemo.module**.
3. Double-click **AuditSafeConnection.tasconnectionResource** to configure the TIBCO AuditSafe Connection, and then click **Test** to validate your connection.

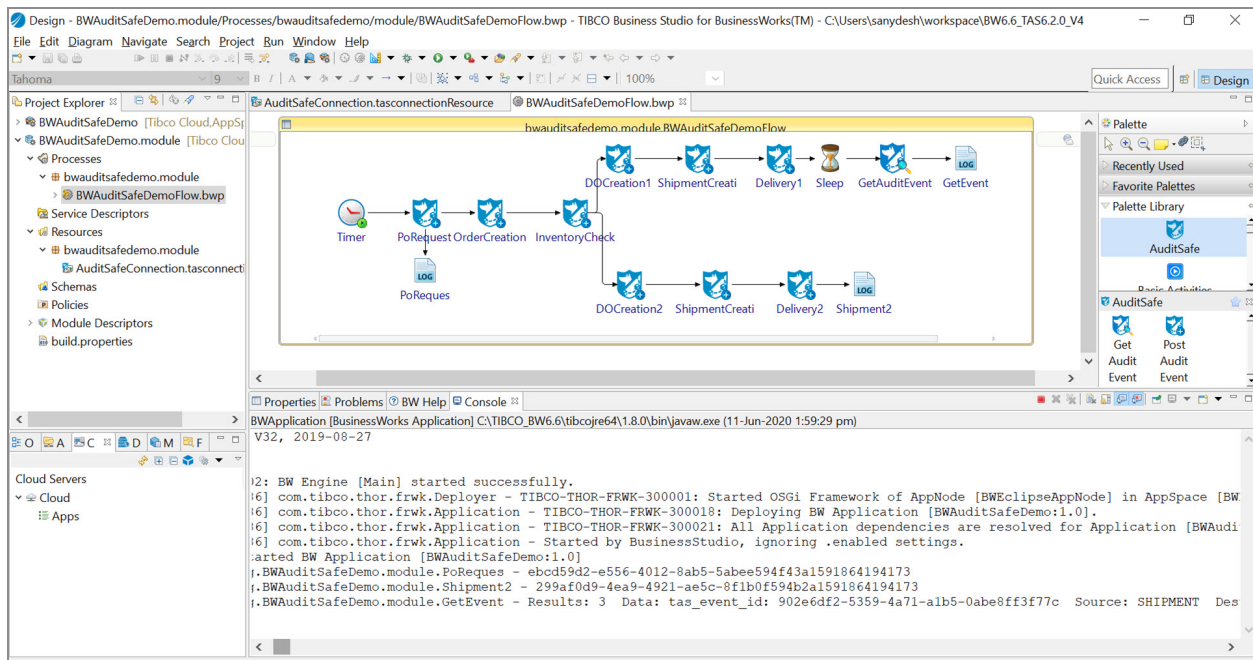
i Note: To connect with the TIBCO AuditSafe On-Prem server, ensure that you have selected the **On-Prem Version** checkbox and use port 31001.

4. After successfully connecting to the TIBCO AuditSafe server, expand **Processes > bwauditsafedemo.module**.
5. Double-click **BWAuditsafeDemoFlow.bwp**.
6. To configure the properties of an activity, click any one of the activities in the flow displayed in the Process Editor, and then click the **Input** tab in the **Properties** view.
7. On the toolbar, click the **Save** icon to save your changes after every update.
8. From the menu, click **Run > Run Configurations**.
9. In the **Run Configurations** dialog box, expand **BusinessWorks Application**, and click **BWApplication**.
10. In the right panel, click the **Applications** tab, select the process of the imported projects, and then click **Apply**.
11. To run the process, click **Run**.
12. After the process runs successfully, click the stop icon to stop the process in the Console view.
13. To run the process with the predefined properties of the activity, skip Step 6.

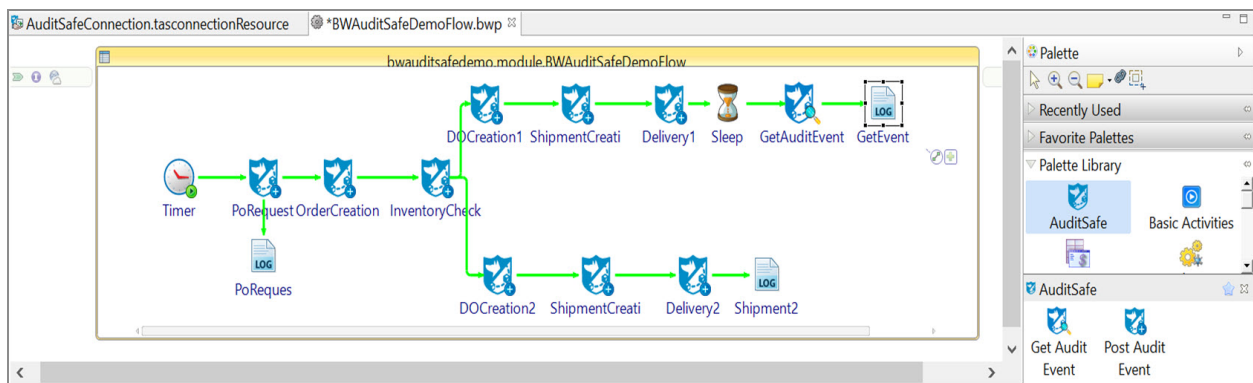
Result

The output of the process run in the Run mode.

Output in Run mode

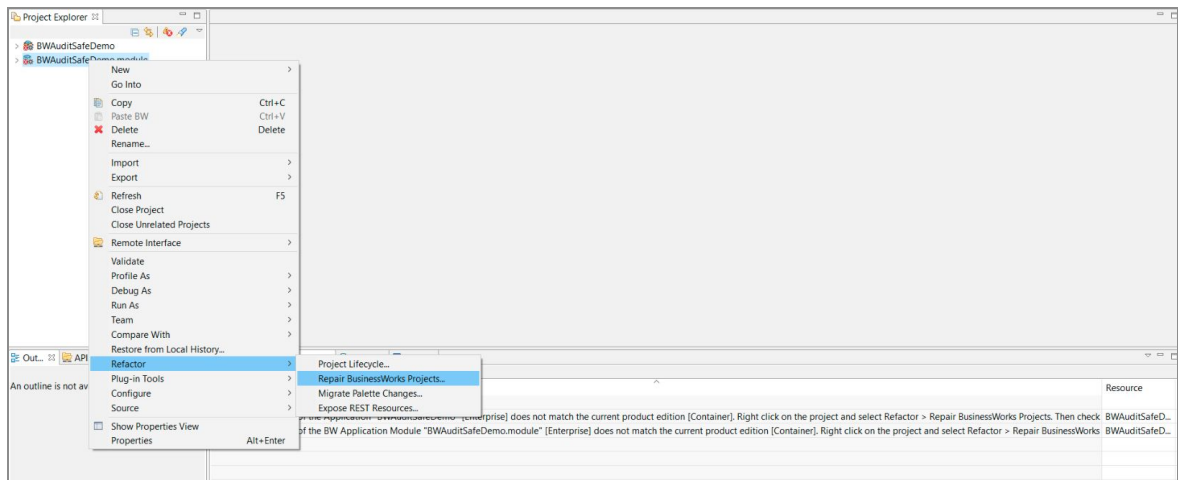


The output of the process run in the Debug mode.
Output in Debug Mode

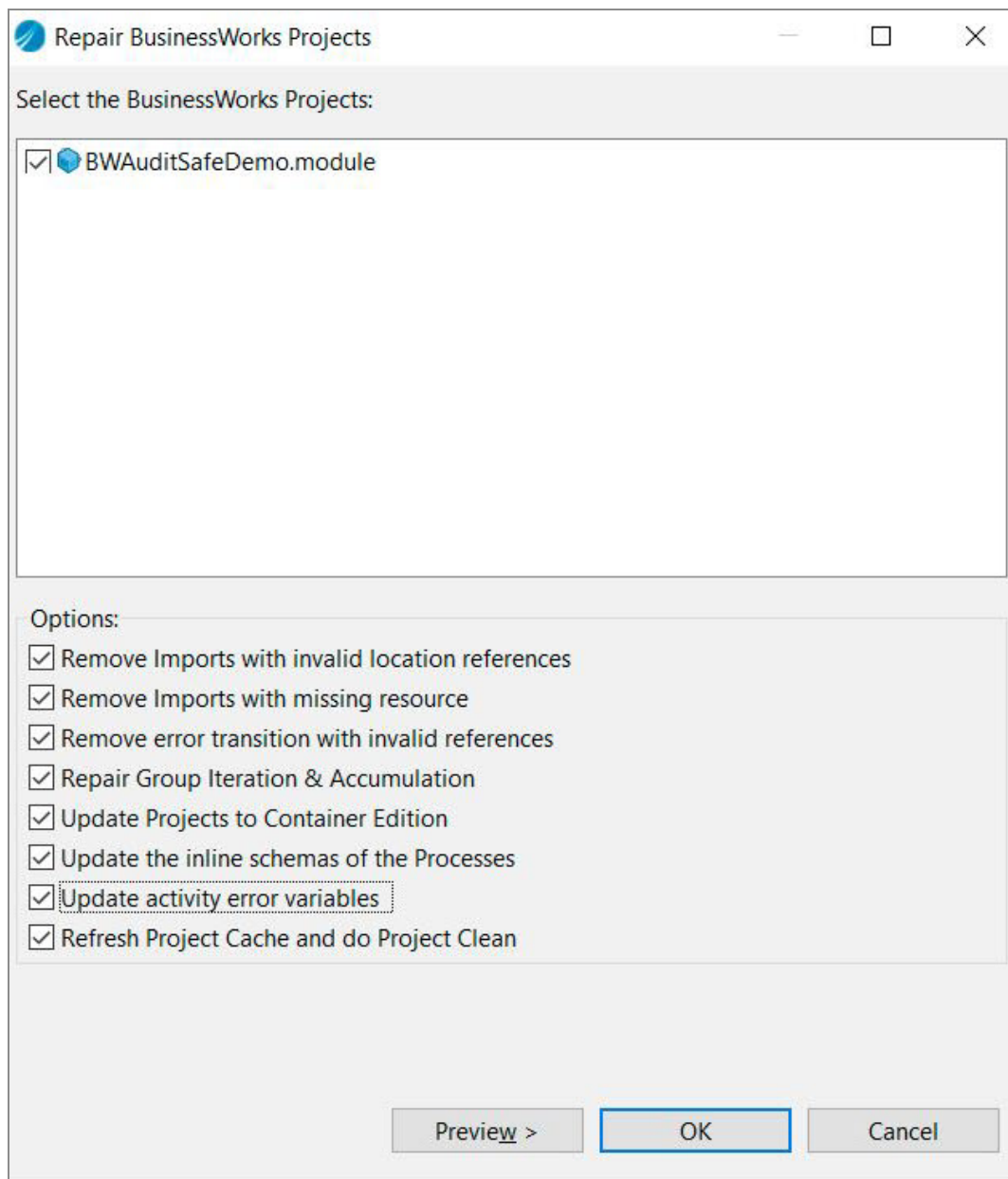


When you use the plug-in with the TIBCO BusinessWorks™ Container Edition 2.3.4, perform the following steps to avoid the design-time errors before running the sample project:

- Right-click **BWAuditSafeDemo.module** in the Project Explorer view, and then click **Refactor > Repair BusinessWorks Projects**.



- Select all the check boxes displayed on the Repair BusinessWorks Projects dialog and then click **OK**.



Repeat the above steps for the **BWAuditSafeDemo** project folder.

Navigating TIBCO® Auditsafe Tabs for Users

The TIBCO® Auditsafe interface has two following tabs for users in the left pane.

Home Tab

The Home page tab contains a dashboard where you can view a Business Process Summary, and view events by Audit Event and Event Status. The event-types are color-coded, to make them easy to distinguish.

- Use the **Switch to demo mode** toggle button to switch to a demo mode, where a default existing data from the back end is displayed to showcase the AuditSafe features.
- Use the **Refresh** icon refresh to refresh the page.
- Use the **Filter** icon to display different views of your data.
You can choose between the following options:
 - Last 30 days
 - Last 7 days
 - Today
 - Custom - Use this option to set a custom date range and time. The display changes dynamically once both start and end dates are entered. A dropdown allows you to select a different start year and month.

Transactions Tab

The **Transactions** tab allows you to view, filter, export, and search transactions.

From the **Transactions** tab, you can perform the following tasks:

- Sort transactions by columns.
- View Transaction Details and Payload information.
- Change the column view from the Settings dialog box.
- Search for transactions using filters.

The Transactions page displays 20 records with details such as transaction ID, audit event, status, source, destination, time, and description of each transaction. The newest transactions are listed first. Page through the display to see older records. You can sort the transactions by category, or search for records of a specific type. The number of search records returned is limited to 10,000 audit events or a maximum of 500 pages. Also, see [Pagination Limit for Searches](#).

Sort Transactions

Sort transactions by clicking the arrows on a column (category) heading.

To re-order the columns, click the category name to select it, and drag it to a different location on the page.

The default sort is by date and time, so the newest transactions appear at the top of the list.

Transaction Details

Click a transaction in the list to see more details.


View the transactions using either a Diagram view or a List view. Switch between the two views by clicking the icon on the top-right. The diagram view also displays related transactions.

Payloads

A payload is a file attached to an event that may contain more information about the transaction or the event. Any event within a transaction can contain a payload.

Only text files such as .txt, .xml, or .json files can be attached as payloads. No other file-types are accepted.

A payload can be viewed by clicking on it.

 **Note:** Any payload larger than 5MB must be downloaded before it can be viewed.

To view the Payload, perform the following task.

1. Click the transaction to view the details, and then click the event containing the payload.
2. Click the payload icon to view the file.
3. Click the download icon payload icon to download the attachment.

Customize Views

The **Settings** icon allows you to select which columns to display.

1. Click the gear icon to view the list and select the check boxes for the columns you want to view.
2. Click **Apply** to save your choices.

Saved Views
hghgg

Diagram Property
Transaction ID

Group By
Time

Columns

Display for columns [Restore to default columns](#)

☒ Audit Event ☒ Business Process ☒ Description ☒ Destination

☒ Source ☒ Status ☒ Time ☒ Transaction ID

☐ Category ☐ Gateway Instance Information ☐ Group Control Number ☐ Host Initiates

☐ ID ☐ Instream Error ☐ Int Control Number ☐ Interchange ID

☐ Interchange Qlfr ☐ Last Operation ☐ Location ☐ Operation ID

Customize Extra Properties Search Criteria

Extra properties [Select Option:](#) all

☒ Category ☒ Outbound AS2 Message ID ☒ Host Initiates ☒ Operation ID

☒ Severity ☒ Txn Control Number ☒ Instream Error ☒ Segment

☒ Int Control Number ☒ TransactionID ☒ Type ☒ Protocol Name

☒ resend ☒ Group Control Number ☒ Segment Location ☒ Interchange ID

☒ Gateway Instance Information ☒ ID ☒ Last Operation ☒ Interchange Qlfr

☒ Expand/Collapse for similar Transaction ID

Save as **Apply**

Customize your view by using the following options:

Option	Description
Saved Views	Use this option to select your preferred transaction view. To save your preferences in the saved views list, select Save as and enter the name of the view.
Diagram Property	<p>Use this option to see the grouping events based on the same value of the selected extra property under Diagram Property.</p> <p>The dropdown list displays extra-properties that are selected under the Customize Extra Properties option.</p>

Option	Description
Group By	Use this option to group results by category. To do this, select a category from the dropdown.
Columns	Select the checkbox next to the category to display the columns you want to view.
Customize Extra Properties Search Criteria	Limit the extra properties that are searched under Select dropdown list on the Transactions tab.
Expand/Collapse for similar Transaction ID	Select this checkbox to group all the events with same transaction ID.

Search for Transactions Using Filters

The search feature in AuditSafe is powerful and easy to use. It allows you to search and sort using multiple criteria. When searching, you can use the **Search Transactions** field, the **Sort Columns** field, or use the **Column search** option.

For more information about these searches and how to combine them to narrow the results, see [Searching Transactions](#).

Searching Transactions

TIBCO AuditSafe has robust searching capabilities with a variety of ways to search through transactions and events. Searching allows you to look for patterns and analyze the records.

The search features in AuditSafe are powerful and easy to use. You can filter your searches by constricting them to columns, to values with columns (categories) or search using date/time ranges. These are only a few of the options available.

Throughout this topic are suggestions and recommendations on how to target your searches and limit the number of results.

When you search transactions, the search finds matching records even if a category (or column) is not displayed. Hide or show categories by selecting them from the **Settings** dialog box. For more information, see [Customize Views](#) in the **Transactions** tab.

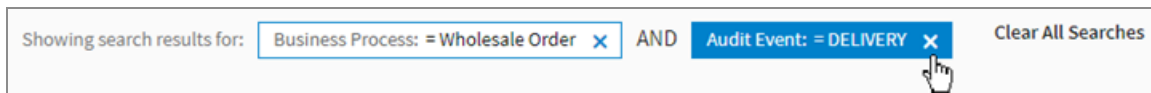
Pagination Limits for Searches

Pagination for search results is limited to 500 pages. If your search returns more results than the limit, you receive a message requesting that you refine the search criteria.

Some suggestions to improve your search results are to add criteria such as tighter Date limitations, or limiting transaction searches to specific columns. See Using Search for guidelines.

Clearing a Search

Clear a search by clicking X (delete) on a search box or by selecting the **Clear All Searches** option on the right.



For complex searches using multiple terms across multiple columns, clicking X clears only that section of the search. Other search parameters remain active and the search is revised using the remaining options.

Using Search

When searching, you can use one of the following options or combine them to narrow the results:

- Sorting Transactions
- Search using the Transactions Field
- Search using Column Search

Sorting Transactions

Sort any column is the simplest option that uses the down/up arrow to sort the results in ascending or descending order. This option is most helpful after you create a complex search, since it allows you to sort on a smaller set of results.

Using Search Transactions

The **Search Transactions** field, which appears at the top of the transaction list allows you to search using one of the following options.

Keyword: Select this option to enter any word or part of a word.

Columns: Columns are listed alphabetically. Select a column from the list.

User-defined terms: These are terms created by you and are listed under a divider. They appear in alphabetical order.

On the **Transactions** page, the search dropdown list displays limited extra properties based on the transaction type.

These search-types can be combined to create a complex search. After you have entered all of the search criteria. Click **Find** to view the results.

1. Click the **Select** dropdown to choose a category.
2. Click in the **Search Transactions** field, select a search option, and enter a word.
3. As you begin to enter a word, the system displays the available options.
4. Select an option and press **ENTER** to add it to your query. Continue adding options to narrow your returns.
5. After you have created your query, click **Find** to list the results.
6. Click the **Delete** icon to remove a search term.

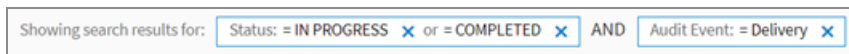
Search Transactions contains the following options:

Option	Description
=	Equals: Finds an exact match for a term. Entering the first few letters list matching options. Select one and press ENTER. If an exact match is not available, no items are listed.
!=	Not Equal to: Use this option to exclude terms from your search.
~	Like: Enter a few letters to list items containing a matching string.

Creating Searches from Search Transactions

- Searching for values within the same category is an OR search.
For example: Search Audit Event for Delivery or DO Creation to find all transactions that contain those values.
- Searching for values between 2 or more categories is an AND search. You can combine the two search-types to narrow your results.
For example: Search Status for Pending OR Completed, AND search Audit Event for Delivery.

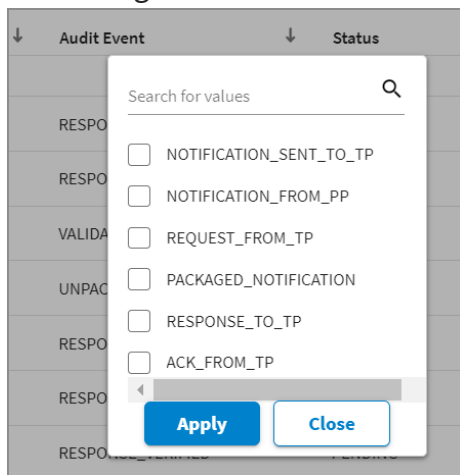
The system automatically segments your query into OR and AND searches as seen in the following example:



Using Column Search

You can combine the Search Transactions searches with column-based search, or use it as a separate and quick way to search transactions using the values available in that column.

1. To search a column, click the column name to open the column search dialog. The dialog lists available values within that column.



2. Scroll to view the list or search for values using the search box. The search narrows the available choices as you enter a term. Note that the search is NOT case-sensitive.

Search for values

Event

- ☐ scribe Event
- ☐ 21 BW Event
- ☐ 22 event
- ☐ API Event
- ☐ BW11 Event

Apply Close

3. Select the checkbox next to a term to select it.
4. Click **Apply** to confirm your choices.
5. The search is modified to include only the values you selected for the column.

Showing search results for: Business Process: = Wholesale Order AND Audit Event: = DELIVERY or = INVENTORY CHECK

6. Open the column search at any time to remove existing, or select additional terms from any column. The search bar displays the changes and the search results are immediately modified.

Administration Settings and Information

TIBCO® Auditsafe contains two tabs that can only be viewed and edited by users with administrator rights. Users without administrator rights have view only access.

The [Settings Tab](#) allows you to add or edit Audit Event and Event Status configurations.

The [Connectors Tab](#) lists the connectors and REST APIs available in TIBCO® Auditsafe. Click the download button to download a connector, or on the TIBCO® Auditsafe REST API link to navigate to the REST API page.

Administrators also have permission to perform the following:

The [Users Tab](#), which describes how to invite users to TIBCO® Auditsafe to view or manage data, and how to disable access for users.

For information on input and output settings when setting up a connector, see the following options:

[PostAuditEvent Input and Output Settings](#): Contains a list and description of all the settings available to set up a workflow.

[GetAuditEvent Input and Output Settings](#): Contains a list and description of the settings available to pull information about events.

Settings Tab

Use **Settings** to create a new Audit Event or Event Status.

Configure an Audit Event or an Event Status

From the Audit Event or Event Status tab:

1. Click **Add Audit Event** or **Add Event Status** to add a new Audit Event or Event Status.
2. Edit or change the Audit Event or Event Status name using the **Edit** icon.
Changing the name of an Audit Event or Event Status does not change the Audit

Event or Event Status name for existing transactions. The edited name is applied only to transactions created after the change was made.

3. Delete the Audit Event or Event Status by using the **Delete** icon.
Deleting an Audit Event or Status does not delete the Audit Event or Event Status name for existing transactions. However, the deleted Audit Event or Event Status name no longer appears for any newly created transactions.

On **Event Status Configuration** tab, you can now add an Email address to get a notification once a transaction with the selected status is posted.

The Validate Option

Use the Validate option to check that field values in the inserted messages match the values predefined in Audit Event and Event Status.

If there is no match, the message is not processed and does not appear in the list.

Data Exporting, Archiving and Purging

The Data Archiving and Purging feature allows you to configure what kind of data you want to archive, purge, and export. Each month an index is created in the format <name of the month> <yyyy>. You can open or close each month's data. When you click **Open**, the data is visible and when you click **Close**, the data is archived. This improves **Search** capabilities. You can purge the data that you do not want. Select the index that you want to purge or delete and click **Purge**. The data is deleted permanently. You can export the data you want by clicking the download icon under **Export**. In the Export Data, dialog box, select the number of records per file, and click **Download**.

Data Retention

The Data Retention feature allows you to retain data for a specific period. By default, this is configured to save data for a maximum of 18 months. The data is automatically purged when it crosses 18 months. If you want to extend the data retention period beyond 18 months, contact TIBCO support.

For an unlimited data retention, the value is set to 0.

To change the number of months you want to retain the data, complete the following steps.

1. Select the number of months from the **How many months for data retention** list.
2. Click **Save**.

The changes are effective from the first of the following month.

Payload Access Control

The Payload Access Control feature allows you to set access controls on payloads.

You can use the following features to perform the following tasks.

- **Allow Payload View:** To allow or restrict viewing and downloading the payloads.
- **Payload encryption:** To allow or restrict encrypting the payloads.

You can enable payload encryption only after you create a key. Alternatively, you can enable an existing key using the Key Management feature.

Key Management

You can use this feature to create a new key and/or enable an existing key.

1. Click **Create New Key**.
2. Enter the new key name.
3. Click the **Tick** icon.

The key details - key name, a public key, and private key are displayed.
4. Click **Copy** to copy the private key.
5. Save the private key for easy future retrieval.



Caution: Do not click **Close** if you have not saved the private key.

6. Click **Close**.

The private key is created.

7. Click the **Enable/Disable** toggle key to enable the private key.

You can enable the encryption for payload only after you create a key and enable it or enable an existing key using the **Key Management** feature.

Email Server Configuration

You can use this tab to configure the email server.

1. Enter values for SMTP server host * and SMTP server port number.
2. Enter username and password.
3. Select the **Enable SSL** checkbox.
4. Click **Test Connection** to verify if the connection is successful.

Email Group Configuration

You can use this tab to add multiple email groups with multiple email IDs. Once an event is posted, the email group receives a notification based on the status and business process selection.

Connectors Tab

You must set up a connection between your application and TIBCO® Auditsafe and post events using one of the following two methods. Each method contains a sample workflow that can be downloaded and used as a guide.

- TIBCO ActiveMatrix BusinessWorks^(TM) Plug-in allows you to connect applications running on TIBCO ActiveMatrix BusinessWorks and TIBCO ActiveMatrix BusinessWorks Container Edition, allows you to post events to TIBCO® Auditsafe.
- TIBCO Flogo® Connector allows you to download a sample JSON file to create a connector with Flogo Enterprise.
- TIBCO® Auditsafe Payload Decryption Tool allows you to decrypt the payload content. If you have an encrypted payload (that you got it as a response from a REST API), use this decryption tool to decrypt the payload to view the actual content.
- TIBCO® Auditsafe REST API allows you to securely post and query audit events generated by your business. For detailed information about the Swagger API, click the TIBCO® Auditsafe REST API link on the Connectors page.

Users Tab

The Users tab allows you to create users and assign roles to the different users.

You can manage users by performing the following:

- Searching for a User
- Creating a User
- Editing Users
- Deleting Users

Searching Users

In addition to entering the name of the users or selecting it from the list, you can use the Search function to find a specific user as followed:

1. Enter the search string in the **Search** field to search a user.
The names of one or more users that correspond to the search criteria only are displayed.

Adding Users

To add a new user, perform the following steps:

1. Enter name of the user in the **User** field, email in the **Email** field, and password in the **Password** field.
2. To assign a role to a new user, select a role from dropdown menu in the **Role** field.
3. Click **Save**.

Editing Users

To edit existing users, perform the following steps:

1. On the AuditSafe Users page, click any one of the users you wish to edit from the User column.
The details of the selected user are displayed in the **User**, **Email**, **Password**, and **Role**

fields.

2. Edit the user details in the **Add Users** tab.
3. Click **Save**.

Deleting Users

To delete one or more users:

i Note: You cannot delete the Admin User and the logged in user.

1. On the AuditSafe Users page, select one or more users that you wish to delete and then click **Delete** icon.
2. On the pop-up dialog box, click **OK**.

Configure TIBCO® Auditsafe PostAuditEvent

The following table lists the settings available when uploading data, and describes how they relate to the Columns within the TIBCO® Auditsafe application. For example, map your business processes to biz_proc to display them in the Business Process column.

Activity Input

Use the following to map your input.

Input

Parameter	Column Name	Description
biz_proc	Business Process	<i>Mandatory.</i> The type of business process that needs to be tracked, such as: an Order process, a Trade process, a Purchase Order process, a Claim, or a Payment, and so on. Each business process contains an audit trail of events, and event statuses.

Input(Continued)

Parameter	Column Name	Description
audit_event	Audit Event	<i>Mandatory.</i> An audit event is an event in a business process that must be recorded, for example: Order Accepted, Payment Authorized, Payment Settled, Order Cancelled, Order Filled, Claim Filed, Claim Adjusted, Order Routed, Order Shipped, and so on. Each stage of the workflow uses an audit_event.
event_desc	Description	<i>Mandatory.</i> A user-defined description for the audit event.
event_status	Status	<i>Mandatory.</i> Provides a status for an audit event, such as whether the order placement is: Pending, Failed, Processed, In Progress, or Completed. Each audit event uses at least one event_status.
transaction_id	Transaction ID	<i>Mandatory.</i> A transaction is an instance of a business process. For example, an Order business process can have many order transactions. The ID is a unique identifier assigned to a business transaction. Having a common Transaction ID allows an audit event tied to this ID to be linked to the next audit event, resulting in a chronological chain of all audit events. This eventually forms a linked model of events, which can be viewed graphically on the details page. For a single chain of events, only a Transaction ID is required, since TIBCO® AuditSafe chains the events based on timestamps. Chaining complex or branched transactions

Input(Continued)

Parameter	Column Name	Description
		requires event_id and parent_id data.
event_id	N/A	User-assigned ID for a specific audit event. If an event_id is not configured, TIBCO® Auditsafe uses the timestamp to chronologically chain events that have the same Transaction ID (transaction_id). For branched workflows, if an event_id is available, it is assigned as a parent ID for the following audit event.
parent_event_id	N/A	The event_id, or if one was not configured then the tas_event_id of the previous event in a chain, is used as a parent_event_id to identify the hierarchy and succession. A parent_event_id is used when a set of events branch off the flow. Using this relationship allows a user to view the parent-child relationships for the audit trail of the entire business transaction. In the absence of a Parent ID, timestamps are used to chain the audit events into a chronological audit trail.
event_source	Source	Identifies the originating point of an event trigger. It could be a non-physical logical entity (such as, a Credit Checker program), an actual business department (Warehouse Department, Shipping Department), or an application/system (CRM, OMS, Purchasing System) through which the transaction flows. Example for an Order: When an event moves from the OMS (Order Management System) to the

Input(Continued)

Parameter	Column Name	Description
		WMS (Warehouse Management System) This is useful if or when you want to search for all (or any) transactions that have been processed by a particular department, system, or logical entity.
event_destination	Destination	Identifies the destination endpoint of an event, for example: when an event moves from the OMS (Order Management System) to the WMS (Warehouse Management System). Or, it could be the API being called by the source (a system originating the API call), or the system having the web service that receives a message from the message source. This is useful when you need to search for a transaction that has been processed by a specific department, system, or logical entity.
event_timestamp	Time	<i>Mandatory.</i> You can use the date function <code>datetime.current.Datetime()</code> , to dynamically generate a GMT timestamp. Or you can explicitly provide a timestamp value. However, any value you provide must use the GMT format: <code>YYYY-MM-DDThh:mm:ssZ</code> .
payload	N/A	Additional information regarding an event. Could be an XML or JSON file, a PDF document that is uploaded to the system for later reference.
extra_props	String	<i>Optional.</i> User-defined additional properties used to describe an event other than the input fields provided.

Input(Continued)

Parameter	Column Name	Description
		<p>Lists two additional fields for an event: prop_name and prop_value. For example: The prop_name can be an Invoice number and prop_value can be any value that describes the property, in this example, it would be an Invoice number.</p> <p>Note: You can add multiple properties for an event. Sample entry: [{"prop_name": "Invoice Number", "prop_value": "I12345"}, {"prop_name": "PO Number", "prop_value": "P12345"}]</p>

Activity Output

Use the following parameters to map your output.
Output

Output Setting	Description
tas_event_id	A system-generated ID, for each event is sent to TIBCO® Auditsafe. In the absence of a user-generated event_id, the tas_event_id is used as a Parent ID for subsequent events in branched workflows (to form a tree structure).
event_id	An event_id is used (if one was provided) when data is pushed to TIBCO® Auditsafe. This ID can be used as the Parent ID for subsequent events in branched workflows.

Output Setting	Description
transaction_id	The transaction_id is used when data is pushed to TIBCO® Auditsafe. A Transaction ID allows an audit event tied to this ID to be linked to the next audit event, resulting in a chronological chain of all audit events.



Note: For details on how to update an audit event, see [Update Audit Event](#).

Configure TIBCO® Auditsafe GetAuditEvent

The following table lists and describes the settings available for GetAuditSafe.

Activity Input

Use the following to map your input for GetAuditEvent.

Input

Input settings	Function or type	Description
audit_event	Audit Event	An event within a business process such as: Order Accepted, Payment Authorized, Payment Settled, and so on.
biz_proc	Business Process	The business process such as: a Claim, or a Payment, and so on.
tas_event_id	Event ID	Returns information about the specified range of user-assigned IDs (if configured) or by the timestamp.

Input(Continued)

Input settings	Function or type	Description
event_status	Status	The status of an audit event, such as whether it is: Pending, Failed, Processed, and so on.
event_source	Source	Use to specify the originating point of an event trigger. For example: When an event moves from the OMS (Order Management System) to the WMS (Warehouse Management System) This is useful if or when you want to search for all (or any) transactions that have been processed by a particular department, system, or logical entity.
event_destination	Destination	Identifies the destination endpoint of an event. For example: When an event moves from the OMS (Order Management System) to the WMS (Warehouse Management System). This is useful when you need to search for a transaction that has been processed by a specific department, system, or logical entity.
transaction_id	Transaction ID	The unique identifier assigned to a business transaction
event_start_timestamp	N/A	Enter a timestamp for the point in time when you want to begin the search. The timestamp can be in one of the following formats: YYYY-MM-DDThh:mm:ssZ or YYYY-MM-DD. The default start value is

Input(Continued)

Input settings	Function or type	Description
		01/01/1970 (1970-01-01). Use with event_stop_timestamp to filter query results by using the timestamp of the transaction.
event_stop_timestamp	N/A	Enter a timestamp for the point in time that you want to end the search. The timestamp can be in one of the following formats:YYYY-MM-DDThh:mm:ssZ or YYYY-MM-DD. The default stop value is the current timestamp. Use with event_start_timestamp to filter query results by using the timestamp of the transaction.
Exact Match	Boolean	Enter true to return an exact match. For example: Entering TIBCO only returns TIBCO and not TIBCO or TIBCO. The default setting is false.
extra_props	User-defined	Use when specifying extra properties. Two conditions, prop_name and prop_value can be defined.
Include Event Payload	Boolean	Enter true to include payload in the response. The default setting is false.
Only Get Total Count	Boolean	Enter true to return only the total count of the response events. The default setting is false. If you set this parameter, you do not need to set the Sort by Column parameter.

Input(Continued)

Input settings	Function or type	Description
Set Return Limit	Number	Use to specify a limit for the total number of events returned. The default setting is 1000. If the number of results requested is smaller than the actual number of results, you receive a message about the actual number. However, the system only displays the number of events requested.
Sort by Column	String	Use to sort the data by Column name.
Descending Order	Boolean	Enter true to display results in descending order. The default setting is false.

Activity Output

The following is a list of output for GetAuditEvent.

Output

Parameter	Description
totalResults	Returns the total count of events for the Get request.
errorMessage	Error or warning message details: WARNING MESSAGE: A Warning message explains the issue, and then, allows you to continue. For example, if the totalCount returned is larger than the limit set in the request, the warning message explains the limit. ERROR MESSAGE: If there are exceptions when performing the query,

Parameter	Description
	you may receive an error message. In this case, you are asked to resubmit the query. For example, if you set a very large limit (such as 2000000) and trigger the system timeout, you are requested to refine the query.
audit_event	Returns data about events that are in the specified state.
biz_proc	Returns the business process-type.
create_timestamp	Digital record that denotes the time at which an event was created in AuditSafe.
event_desc	Returns information about audit_events by the specified description string.
event_id	User-assigned ID for a specific audit event. If an event_id is not configured, TIBCO® Auditsafe uses the timestamp to chronologically chain events that have the same Transaction ID (transaction_id).
event_destination	Returns the destination of the specified event.
event_source	Returns the source of an event.
event_status	Returns data about events that are in the specified status.
event_timestamp	Returns the date and time of an event.
extra_props	User-defined additional properties used to describe an event other than the input fields provided. Lists two additional fields for an event: prop_name and prop_value. The prop_name can be an Invoice number and prop_value

Parameter	Description
	can be any value that describes the property, in this example, it would be an Invoice number.
parent_event_id	The event_id, or if one was not configured then the tas_event_id of the previous event in a chain, is used as a parent_event_id to identify the hierarchy and succession. A parent_event_id is used when a set of events branch off the flow.
payload	Additional information regarding an event. Could be a TXT, XML, or JSON file, that is uploaded to the system for later reference.
tas_event_id	Returns information about the specified or specified range of user-assigned IDs (if configured) or by the timestamp.
transaction_id	Returns data about the specified transaction identifier (often by time, or numeric range, or both).



Note: For details on how to update an audit event, see [Update Audit Event](#).

Update Audit Event

You can update an audit event for any property by providing the `tas_event_id`.

Before you begin


- `x-atmosphere-token` of the deployed AuditSafe
- `tas_event_id` of the event


To update an audit event, perform the following steps:

1. Navigate to the AuditSafe Swagger url `<machine_ip>:<port>/swagger/index.html`
2. Under **Events API**, expand **PUT /events/update/{tas_event_id}**
3. Click **Try it out**, and provide `x-atmosphere-token`, `tas_event_id` in the required fields.
4. Edit the body by adding only fields that you wish to change and modify the JSON body. The rest of the information is removed from the body.
5. Click **Execute**.

Result

The audit event is updated.

 **Note:** `auditsafeHistoryLog` extra property is added to the Transactions page, where you can view the modified version history.

 **Note:** The request cannot have empty JSON values.

System Requirements

Current versions of the following browsers are supported:

- Google Chrome
- Mozilla Firefox



Note: The minimum required resolution for the TIBCO® AuditSafe site is 1440x900 pixels.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The documentation for TIBCO® AuditSafe is available on the [TIBCO® AuditSafe Product Documentation](#) page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

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requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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