onestream

BAI Parser Solution

PV800 SV101

Table of Contents

Overview

BAI Parser Solution is a OneStream MarketPlace solution that enables you to preview and upload BAI file data received from your banking institutions directly into your workflows.

With BAI Parser Solution you can:

- Import BAI files received from banks directly into OneStream without parsing the data file in advance.
- Import a single BAI file that includes balances and transactions without the need to split the file.
- Preview imported BAI files to verify information and check for missing data.
- Load data directly into workflows and store each data file to view throughout the year.
- Work cross-functionally with other OneStream feature sets, such as Transaction Matching, so you can access all your data in one unified interface.

Setup and Installation

This section contains important details related to the planning, configuring, and installation of your solution. Before you install the solution, familiarize yourself with these details.

See MarketPlace Solution Modification Considerations.

Dependencies

Component	Description
OneStream 8.0.0 or later	Minimum OneStream Platform version required to install this version of BAI Parser Solution.

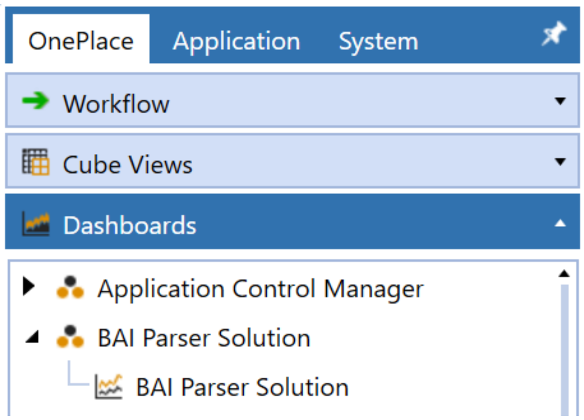
Install BAI Parser Solution

1. On the OneStream MarketPlace Dashboard, go to **MarketPlace** > **BAI Parser Solution**
2. On the **BAI Parser Solution** page, in the **Platform Version** drop-down list, select the appropriate OneStream Platform version.
3. In the **Solution Version** drop-down list, select the most recent version. Click **Download**.
4. Log into OneStream.
5. On the **Application** tab, go to **Tools** > **Load/Extract**.
6. On the **Load** tab, use the **Select File** icons to locate the solution package. Click **Open**.
7. When the solution file name appears, click **Load**.
8. Click **Close** to complete the installation.

Set Up BAI Parser Solution

The first time BAI Parser Solution runs, it guides you through the table setup process.

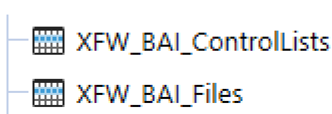
- In OneStream, go to **OnePlace** > **Dashboards** > **BAI Parser Solution** > **BAI Parser Solution**.



Create Tables

1. Click **Step 1: Create Tables**.

   This step may be necessary when upgrading, even if tables are already present. BAI Parser Solution will not remove existing tables, but will modify table structures and add new ones if necessary.

2. When setup is complete, click **Step 2: Launch Solution** to open BAI Parser Solution.

Package Contents

The Workspaces Maintenance Unit provides the user interface for BAI Parser Solution and includes the required Dashboard Groups, Components, Data Adapters, Parameters, and files.

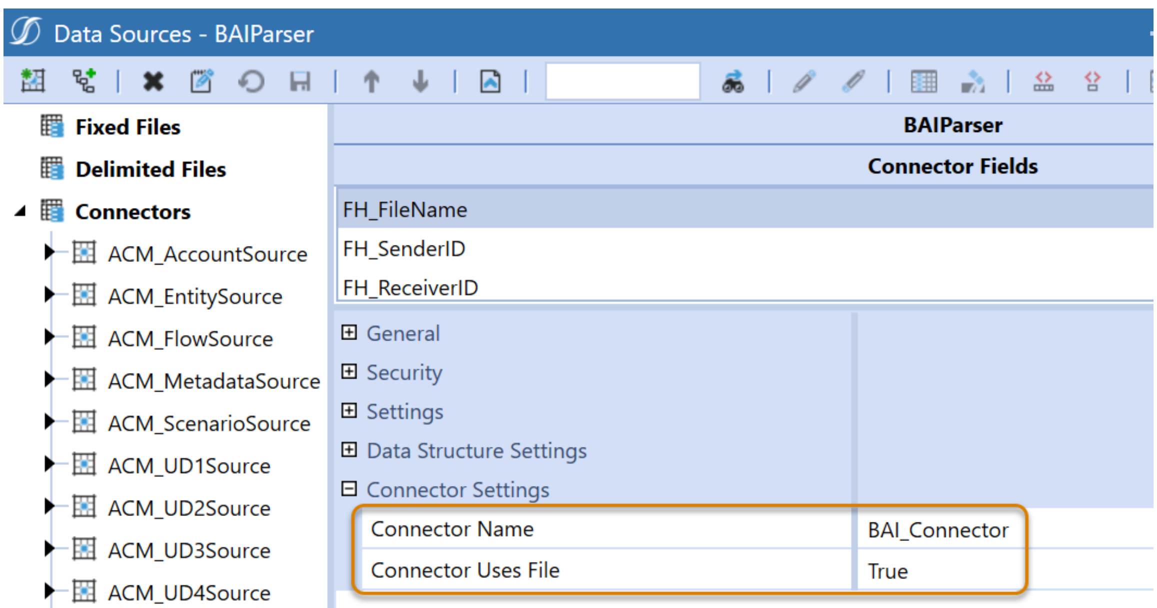
BAI Dashboard Configuration

Set up the BAI Dashboard to preview BAI files before adding them to workflows.

Data Source

BAI Parser Solution uses a Connector Data Source. Navigate to **Application** > **Data Collection** > **Data Sources** to set up the source.

1. Select or create a data source.
2. Under **Connector Settings**, set **Connector Name** to **BAI_Connector**.
3. In the **Connector Uses File** drop-down menu, select **True**.



4. Click the **Save** icon.
5. Set the **Data Type** for **Scenario** and click the **Save** icon.
6. Set the **Data Type** for **Time** and click the **Save** icon.
7. Select **Amount** > **Connector Settings**.

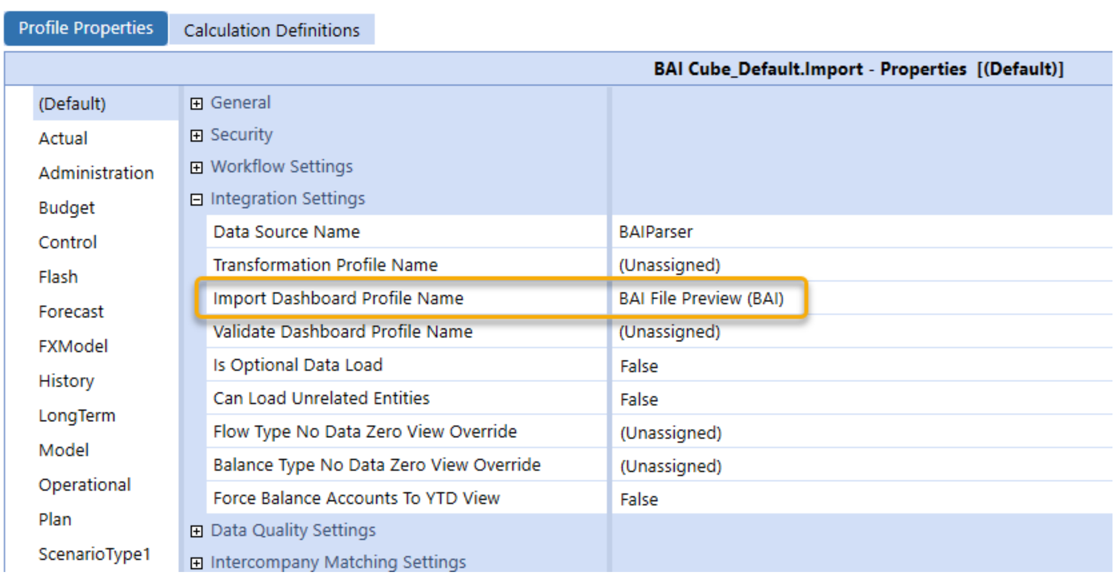
8. Set the **Source Field Name** to a **Connector Field** such as AH_Amount and click the **Save** icon.

   > **NOTE:** Scenario, Time, and Amount must be configured. All other settings are optional.

Workflow Setup

Finalize workflow setup by navigating to **Application** > **Workflow** > **Workflow Profiles**.

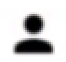
1. Select or create a workflow profile to be used with BAI files.
2. Click **Import**.
3. In the **Profile Properties** tab expand **Integration Settings**.
4. Set **Data Source Name** to the name of the data source you created.
5. Set **Import Dashboard Profile Name** to **BAI File Preview (BAI)**.



6. Click the **Save** icon.

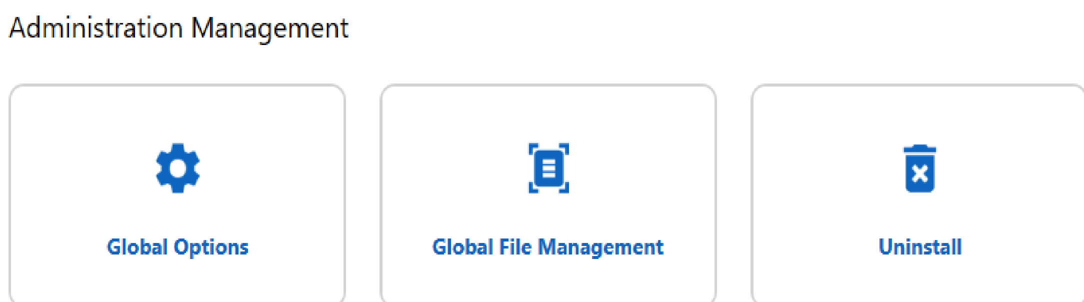
> **NOTE:** Using the BAI Dashboard Preview is optional. Use Load and Transform to import BAI files without using the BAI dashboard.

Administration Management

 Accesses the **Administration Management** page.

The Administration Management page centralizes tasks for BAI Parser Solution system administrators so you can:

- Manage Global Options.
- Use Global File Management to view BAI files for all workflow profiles, scenarios, and time periods outside of the Preview dashboard.
- Access Uninstall options.

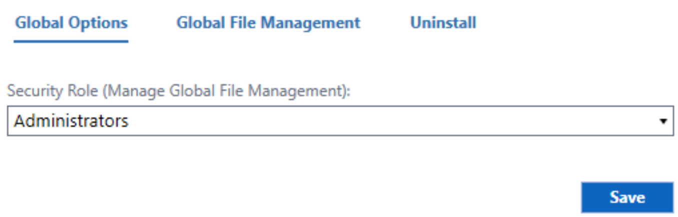


Global Options

Global Options enables administrators to set security roles that determine which groups have access to Global File Management.

To set the security role for a group to view Global File Management:

1. Click the **Global Options** tile or quick link.
2. Select the **Security role (Manage Global File Management)** drop-down menu and select a security group.



3. Click the **Save** button.

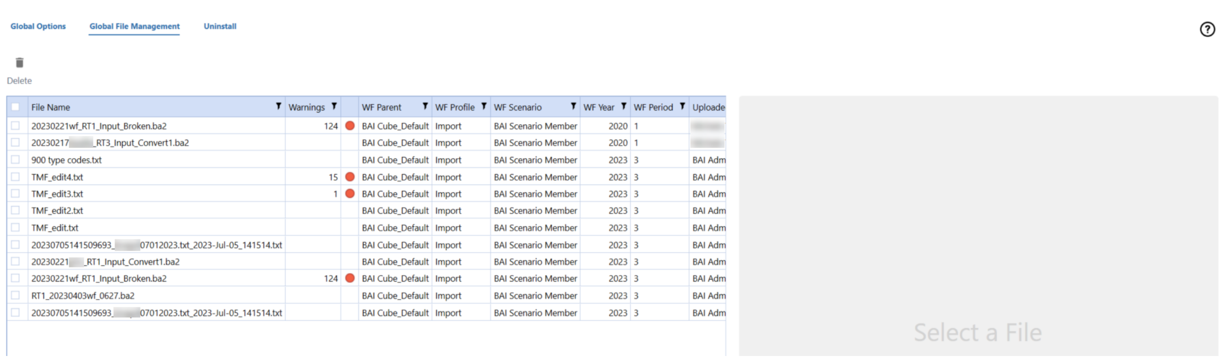
The group selected can access the BAI Parser Solution Dashboard on OnePlace and the Administration Management page using the Administration Management icon. Once on the Administration Management page, users will only see the Global File Management tile.

Global File Management

Global File Management enables administrators to view uploaded BAI files for all workflow profiles, scenarios, and time periods outside of the Preview dashboard. Click the **Global File Management** tile or quick link to view all BAI files.

> **NOTE:** The BAI Parser Solution does not require you to upload directly to the solution. You can load and automate files through the workflow. BAI files uploaded directly through the workflow process appear in the File Management overview grid, Global File Management overview grid, and in the File Source drop-down on the Preview dashboard.

Overview Grid



The overview grid displays the following column information:

- **File Name**: The name of the file

  > **NOTE:** File names can appear more than once.

- **Warnings**: Total number of warnings that appeared in the file. A red dot to the right of the column indicates a warning.
- **WF Parent**: The workflow parent used to import the file
- **WF Profile**: The workflow profile used to import the file
- **WF Scenario**: The workflow scenario used to import the file
- **WF Year**: The year of the workflow.
- **WF Period**: The workflow period used to import the file. The number shown is based on the period setup of your OneStream application.

  > **Example:** Applications set to monthly display 1-12 for each month of the year.

- **Uploaded By**: User who uploaded the file
- **Upload Date**: Date the file was uploaded

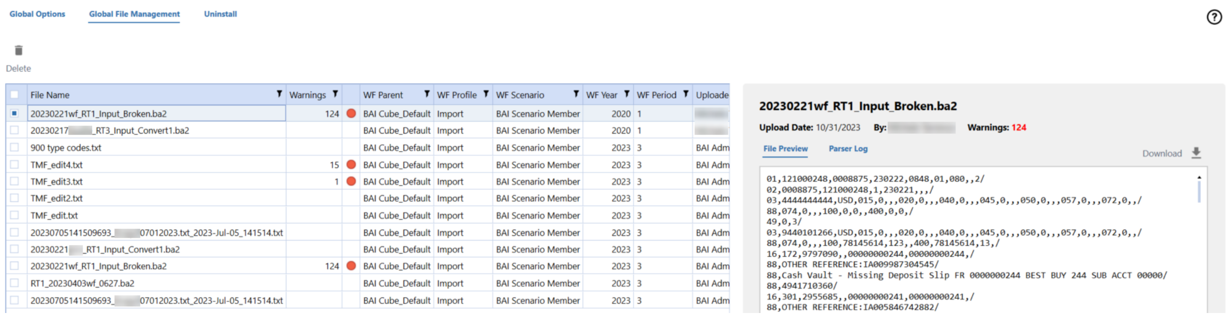
Use the parameter filter to refine the data in the overview grid.

Export Grid Data

To export content from the overview grid, right-click in the grid and select **Export**.

File Preview

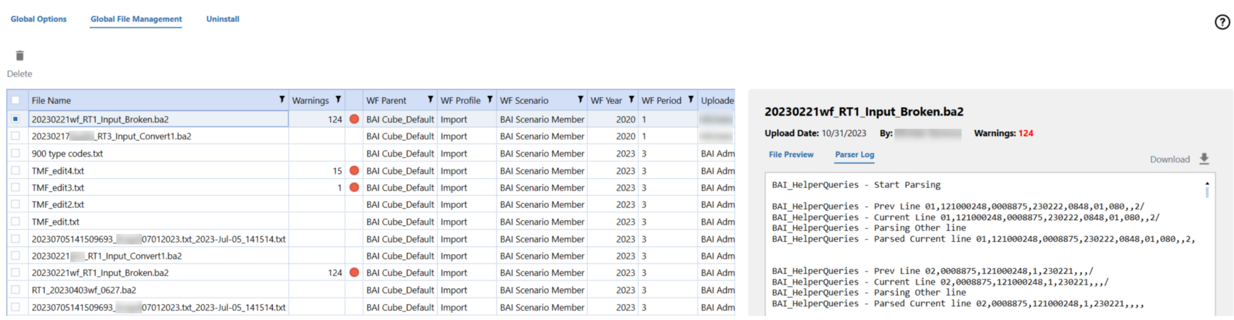
Click any file in the overview grid to preview the file. The preview pane defaults to the **File Preview** tab, which displays the raw BAI file.



Click the **Download** icon to download the data.

Parser Log

Use the **Parser Log** tab on the preview pane to display the parsed results of the generated file.



Click the **Download** icon to download the log.

Delete Files

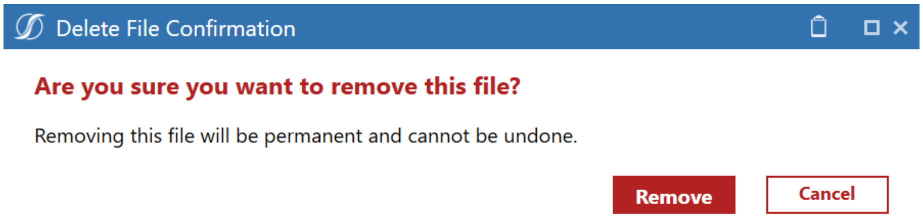
You can manage the list of files displayed in the overview grid on Global File Management by deleting files. Deleted files will only be deleted from the BAI Parser Solution. All data uploaded to a workflow will be preserved.

To delete a file:

1. On the **Global File Management** page, select the file or files to delete.

2. Click the **Delete** icon.

3. On the **Delete File Confirmation** dialog box, click the **Remove** button to delete the file from the grid.

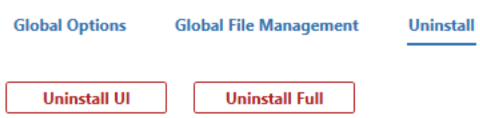


> **NOTE:** Deletion is permanent and cannot be undone.

Uninstall

Use the Uninstall tile to remove BAI Parser Solution interface or the entire solution. If part of an upgrade, any modifications performed on standard BAI Parser Solution objects are removed.

1. On the **Administration Management** page, click the **Uninstall** tile or quick link.
2. Select either **Uninstall UI** or **Uninstall Full**.



- **Uninstall UI** button to remove BAI Parser Solution, including related dashboards and business rules, but retain the database and related tables.

  > **NOTE:** For some releases, perform this step before accepting a new solution version as some of the dashboards or other objects may have changed. Choose this option to update BAI Parser Solution without removing the data tables. The Release Notes indicate if an overinstall is supported.

  > **NOTE:** If BAI_Connector is linked to a data source it will not uninstall with the Uninstall UI option.

- **Uninstall Full** button to remove all related data tables, data, and BAI Parser Solution dashboards and business rules. Choose this option to completely uninstall BAI Parser Solution or to perform an upgrade that is so significant in its changes to the data tables that this method is required.

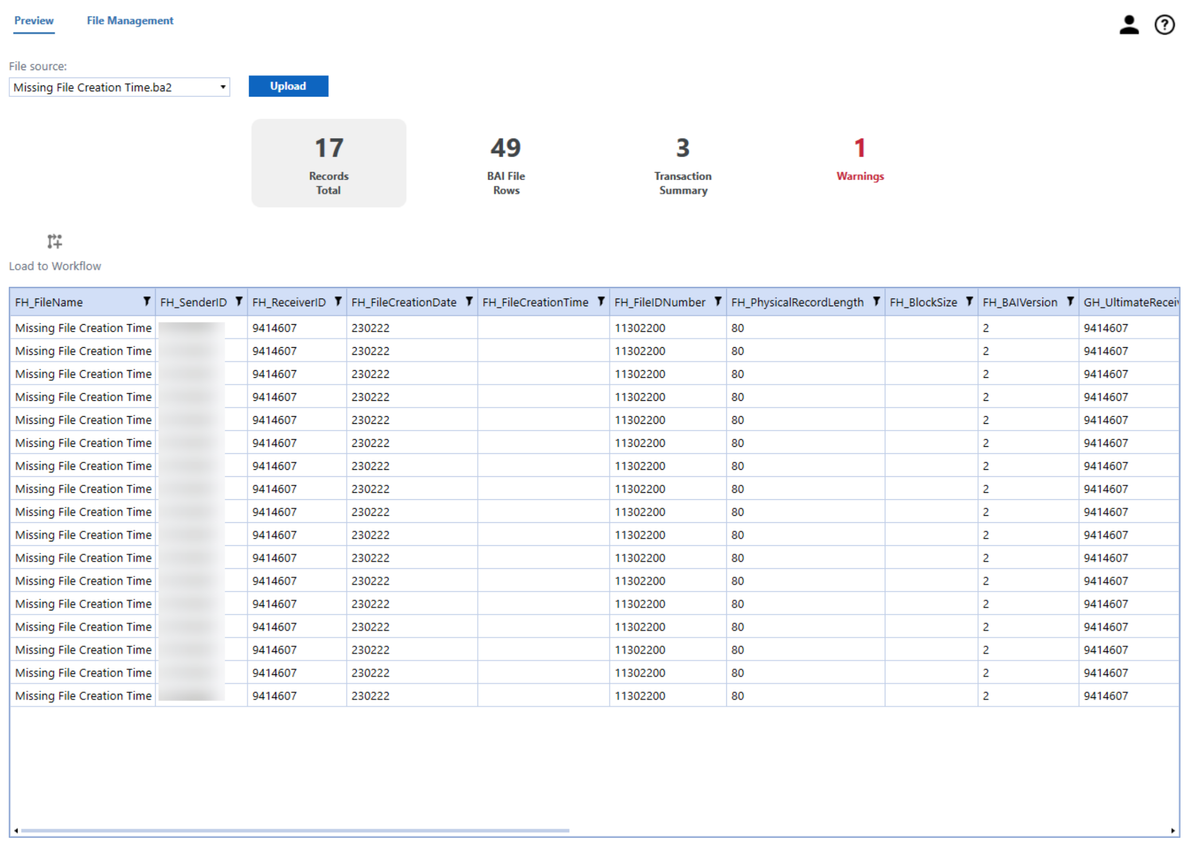
  > **NOTE:** If BAI_Connector is linked to a data source it will not uninstall with the Uninstall Full option.

  > **CAUTION:** Uninstall procedures are irreversible.

3. On the **Confirm** dialog box, click the **Uninstall** button to proceed.

Preview Dashboard

Use the Preview dashboard to upload BAI files from your banking institution into OneStream. Data is automatically parsed during the upload process and is shown in a readable format in a preview grid. Key performance indicators (KPIs) are shown for the uploaded file. Data in the grid will change when a KPI is clicked. Once a file is verified, load the data directly into your workflow.



Preview Grid

The preview grid populates when a new BAI file is uploaded or a previously uploaded file is selected from the File Source drop-down list. Data in the grid is view only and can be filtered by clicking the parameter icon.

When a file is selected, the grid displays the following column information:

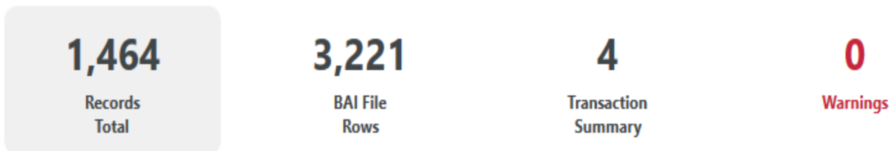
- FH_FileName
- FH_ReceiverID
- FH_FileCreationTime
- FH_PhysicalRecordLength
- FH_BAIVersion
- GH_OriginatorID
- GH_AsOfDate
- GH_CurrencyCode
- AH_CustomerAccountNumber
- AH_TypeCode
- AH_ItemCount
- AH_ImmediateAvailability
- AH_MoreThanOneDayAvailability
- AH_TimeHHMM
- AH_TypeCodeTransaction
- AH_TypeCodeRelatedTo
- TH_Amount
- TH_ImmediateAvailability
- TH_MoreThanOneDayAvailability
- TH_TimeHHMM
- TH_CustomerReference
- TH_TypeCodeDescription
- TH_TypeCodeLevel
- AT_AccountControlTotal
- GT_GroupControlTotal
- GT_NumberOfRecords
- FT_NumberOfGroups
- BAI_Status
- FH_SenderID
- FH_FileCreationDate
- FH_FileIDNumber
- FH_BlockSize
- GH_UltimateReceiverID
- GH_GroupStatus
- GH_AsOfTime
- GH_AsOfDateModifier
- AH_CurrencyCode
- AH_Amount
- AH_FundsType
- AH_OneDayAvailability
- AH_DateYYMMDD
- AH_TypeCodeDescription
- AH_TypeCodeLevel
- TH_TypeCode
- TH_FundsType
- TH_OneDayAvailability
- TH_DateYYMMDD
- TH_BankReference
- TH_Text
- TH_TypeCodeTransaction
- TH_TypeCodeRelatedTo
- AT_NumberOfRecords
- GT_NumberOfAccounts
- FT_FileControlTotal
- FT_NumberOfRecords

Export Grid Data

To export content from the overview grid, right-click in the grid and select **Export**.

Key Performance Indicators

After a BAI file is uploaded or selected from the drop-down list, KPIs are displayed. The layout of the preview grid changes when a KPI is clicked, populating with details of the selected metric.



Records Total

The Records Total KPI shows the total number of parsed rows in the BAI file. Data for this KPI displays by default in the preview grid after a file is uploaded.

BAI File Rows

BAI File Rows shows the total number of rows in the raw BAI file. Click the KPI to view the raw, imported version of the BAI file.

Transaction Summary

The Transaction Summary rows KPI shows the number of individual account transactions in the BAI file. Click the KPI to view a list of transactions.

The following columns will display in the summary grid:

- FH_FileName
- FH_SenderID
- FH_ReceiverID
- FH_FileCreationDate
- FH_FileCreationTime
- FH_FileIDNumber
- FH_BAIVersion
- AH_CustomerAccountNumber
- AH_CurrencyCode
- AH_TypeCode
- AH_Amount
- AH_ItemCount
- AH_FundsType
- AH_ImmediateAvailability
- AH_OneDayAvailability
- AH_DateYYMMDD
- AH_TimeHHMM

Click any transaction in the summary grid to view more detailed information. A new grid displays below the summary grid and shows the following information:

- TH_TypeCode
- TH_Amount
- TH_FundsType
- TH_ImmediateAvailability
- TH_OneDayAvailability
- TH_MoreThanOneDayAvailability
- TH_DateYYMMDD
- TH_TimeHHMM

Warnings

The Warnings KPI shows any discrepancies found in the file, such as missing, required data or monetary transactions that do not total the associated summary balance. Click the Warnings KPI to view the flagged transactions.

Upload BAI Files

IMPORTANT: A Record Code must be included in the file or the upload will fail.

To upload a file into OneStream:

1. From the **Preview Dashboard** click the **Upload** button.
2. Use File Explorer to select the file to upload and then click **Open**.

The name of the uploaded file appears in the drop-down list. The preview grid is populated with the file data.

View Previously Uploaded Files

View uploaded files using the File Source drop-down list on the Preview dashboard. The files in the drop-down list are specific to the workflow Point of View. If no files have been uploaded for the current time period, the drop-down list will be blank.

> **Example:** When viewing the January workflow, all files uploaded in that month can be viewed in the drop-down list. If you are in the current month and no files have been uploaded, the drop-down list will be empty.

> **NOTE:** The BAI Parser Solution does not require you to upload directly to the solution. You can load and automate files through the workflow. BAI files uploaded directly through the workflow process appear in the File Management overview grid, Global File Management overview grid, and in the File Source drop-down on the Preview dashboard.

Load Files to Workflows

The **Load to Workflow** icon enables users to import data from the BAI file to their current workflow.

> **NOTE:** Files can be imported to workflows even if a workflow has been completed. You cannot add data to workflows that are locked.

To load the data to the workflow:

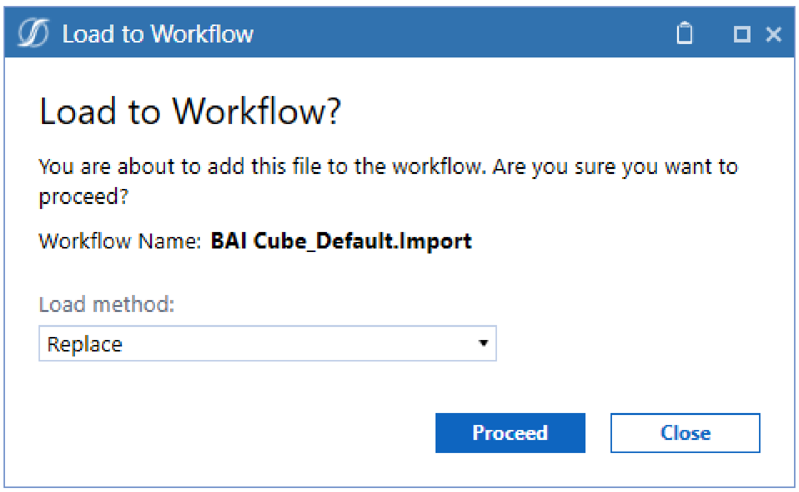
1. From the **Preview dashboard** upload a new BAI file or select a file from the File Source drop-down list.
2. Click the **Load to Workflow** icon.
3. On the **Load to Workflow** dialog box, use the **Load method** drop-down list to select from the following options:
    a. **Replace**: This will clear all data for the previous file that correlates with the specific Source ID and replace it with the new file's data. This can be done even if the previous data has already been loaded into the Cube. Once the file is re-loaded, the user will need to complete all Workflow Tasks and load the new data into the Cube.

b. **Replace (All Time)**: Replaces all Workflow Units in the selected Workflow View (if multi-period). Forces a replace of all time values in a multi-period workflow view.

c. **Replace Background (All Time, All Source ID's)**: Replaces all Workflow Units in the selected Workflow View and all Source ID's in a background thread while the new file parse or connector execution is running. The delete is being performed while parse is being performed.

d. **Append**: This is used when additional rows are added to a source file and need to be loaded into the Stage. This will not change any of the data already loaded for the source file. It will only add rows that were not included in the previous file load.

4. Click the **Proceed** button to import the file to the workflow.



5. Click the **Close** button to exit the dialog box.

NOTE: Completed uploads display as green. When re-uploading a completed file, the new upload can be verified by looking at the upload timestamp under the status and confirming the ID number.

File Management

Use File Management to view all previously uploaded BAI files for the selected workflow, scenario, and time period.

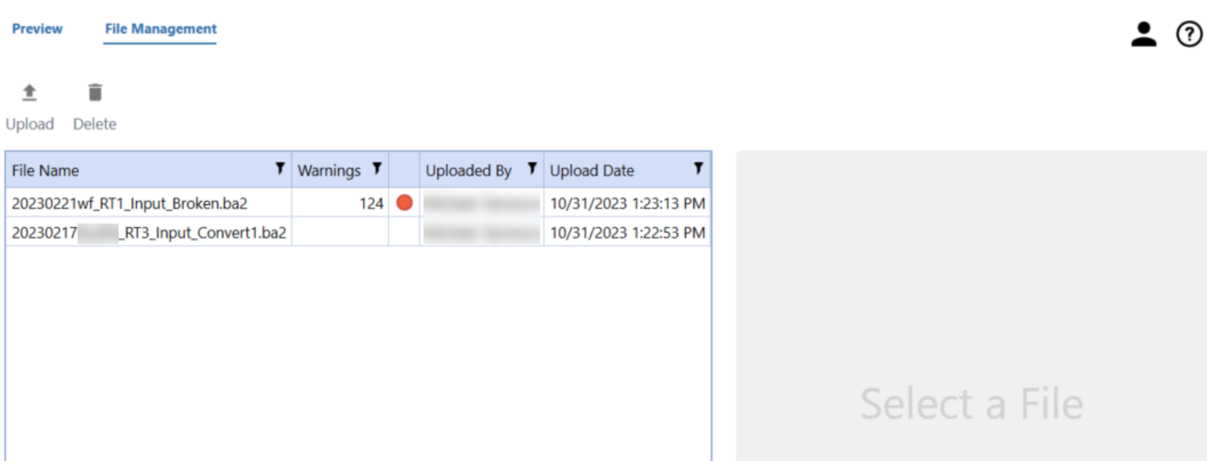
> **NOTE:** Only administrators can view all previously uploaded files for all workflow profiles, scenarios, and time periods. See Administration Management.

Overview Grid

The overview grid displays uploaded files for the current workflow.

> **NOTE:** The BAI Parser Solution does not require you to upload directly to the solution. You can load and automate files through the workflow. BAI files uploaded directly through the workflow process appear in the File Management overview grid, Global File Management overview grid, and in the File Source drop-down on the Preview dashboard.

> **NOTE:** Only the most recent 100 files are displayed.



The grid displays the following column information:

- **File Name**: The name of the file

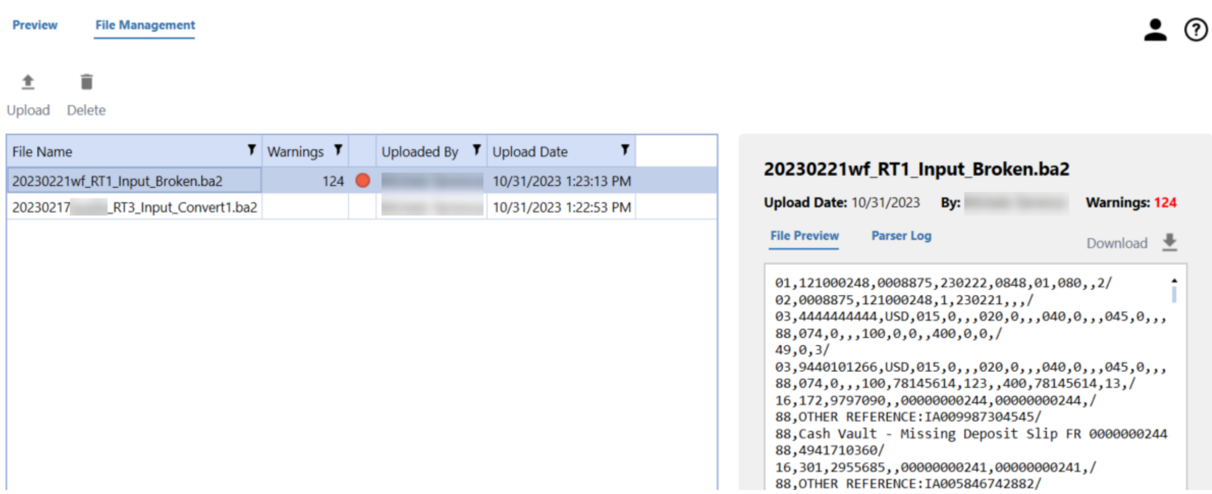
  > **NOTE:** File names can appear more than once.

- **Warnings**: Total number of warnings that appeared in the file. A red dot to the right of the column indicates a warning.
- **Uploaded By**: User who uploaded the file
- **Upload Date**: Date the file was uploaded

Use the parameter filter to refine the data in the overview grid.

File Preview

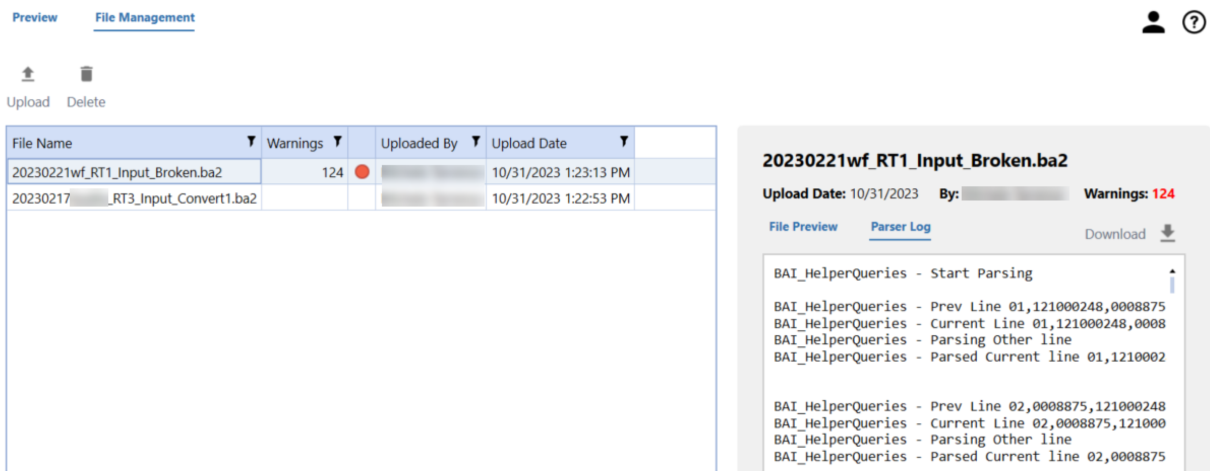
Click any file in the overview grid to preview the file. The preview pane defaults to the **File Preview** tab, which displays the raw BAI file.



Click the **Download** icon to download the data.

Parser Log

Use the **Parser Log** tab on the preview pane to display the parsed results of the generated file.



Click the **Download** icon to download the log.

Export Grid Data

To export content from the overview grid, right-click in the grid and select **Export**.

Upload Files

Upload files from File Management to view in the Preview dashboard.

To upload a file:

1. From **File Management**, click the **Upload** icon.
2. Use File Explorer to select the file to upload and click **Open**.

Once uploaded, the file appears in the:

- Overview grid on the File Management dashboard.
- Preview grid on the Preview dashboard.
- File Source drop-down on the Preview dashboard.

Delete Files

You can manage the list of files displayed in the overview grid on File Management by deleting files. Deleted files will only be removed from the BAI Parser Solution. All data uploaded to a workflow will be preserved.

To delete a file:

1. From **File Management**, select the file to delete.
2. Click the **Delete** icon.
3. On the **Delete File Confirmation** dialog box, click the **Remove** button to delete the file from the grid.

Help and Miscellaneous Information

This page contains solution documentation.

Display Settings

OneStream and MarketPlace solutions frequently require the display of multiple data elements for proper data entry and analysis. Therefore, the recommended screen resolution is a minimum of 1920 x 1080 for optimal rendering of forms and reports.

Package Contents and Naming Conventions

The package file name contains multiple identifiers that correspond with the platform. Renaming any of the elements contained in a package is discouraged in order to preserve the integrity of the naming conventions.

Example Package Name:`BAI_PV8.0.0_SV101_PackageContents.zip`

Identifier	Description
BAI	Solution ID
PV8.0.0	Minimum Platform version required to run solution
SV101	Solution version
PackageContents	File name

Solution Database Migration Advice

A development OneStream application is the safest method for building out a solution with custom tables such as this one. The relationship between OneStream objects such as workflow profiles and custom solution tables is that they point to the underlying identifier numbers and not the object names as seen in the user interface. Prior to the solution configuration and to ensure the identifiers match within the development and production applications, the development application should be a recent copy of the production application. Once the development application is created, install the solution and begin design. The following process below will help migrate the solution tables properly.

See also: *Managing a OneStream Environment* in the *Design and Reference Guide*.

1. In the production OneStream application, install the solution and create the data tables. See Configure the OneStream Application Server for Database Server Connection settings and installation details.

2. Data tables are created in the OneStream Development application during the solution installation. Using the Microsoft Data Migration Assistant, copy the data from the tables to the Production Microsoft SQL Server Database. Only the Microsoft SQL Administrator should run the migration assistant.

> **IMPORTANT:** This process has the potential to overwrite existing table data in the production application database if data already exists.

MarketPlace Solution Modification Considerations

A few cautions and considerations regarding the modification of MarketPlace solutions:

- Major changes to business rules or custom tables within a MarketPlace solution will not be supported through normal channels as the resulting solution is significantly different from the core solution.

- If changes are made to any dashboard object or business rule, consider renaming it or copying it to a new object first. This is important because if there is an upgrade to the MarketPlace solution in the future and the customer applies the upgrade, this will overlay and wipe out the changes. This also applies when updating any of the standard reports and dashboards.
- If modifications are made to a MarketPlace solution, upgrading to later versions will be more complex depending on the degree of customization. Simple changes such as changing a logo or colors on a dashboard do not impact upgrades significantly. Making changes to the custom database tables and business rules, which should be avoided, will make an upgrade even more complicated.