

User Guide

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About the add-on

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Concepts overview

The TIBCO EBX® Digital Asset Manager Add-on allows you to manage digital asset storage, classification, and versioning. Once you've created a storage location, you can use the add-on to upload assets and enrich them with metadata.

Note:

You can also use the add-on's API to connect to a third-party digital asset management system. This allows you to use the third-party tool for management purposes, but still link assets to TIBCO EBX® data model fields.

The asset governance process can include adding descriptive metadata to assets, creating versions, deactivating/deleting and backing up and restoring assets. The add-on allows you to perform these tasks from simple-to-navigate screens. See [Managing digital assets](#) for more information.

Asset storage in Drives

The EBX Digital Asset Manager Add-on uses *Drives* as physical storage locations for assets. You can use Drives as part of asset governance by creating one for asset types, assets from different sources or, any other organizational requirement. For information on creating a, and uploading assets into a Drive, see [Getting started with the add-on](#).

Digital asset components

A *Digital asset component (D.A.C.)* links a storage location (Drive) to a data model field configured to use the add-on. You can then attach assets from the Drive to the field. For example, a data

model table containing product information could have a field containing assets that show one or more views of the product.

How this guide is organized

This guide contains the following sections:

SECTION	CONTENTS
Getting started	This section covers initial add-on configuration. Most of the steps in this section require administrative privileges.
Uploading and attaching assets	This chapter describes how to upload assets to a Drive and attach them to a data model field. Add-on configuration must be complete prior to performing these tasks.
Previewing assets	This chapter describes behavior when previewing assets.
Configuring asset filters	This chapter outlines the different types of filters the add-on offers.
Managing digital assets	Digital asset governance can include managing basic asset information, tags, metadata and versions—all topics covered in this section. Additionally, this section discusses how to create a backup of, and restore assets.

Getting started

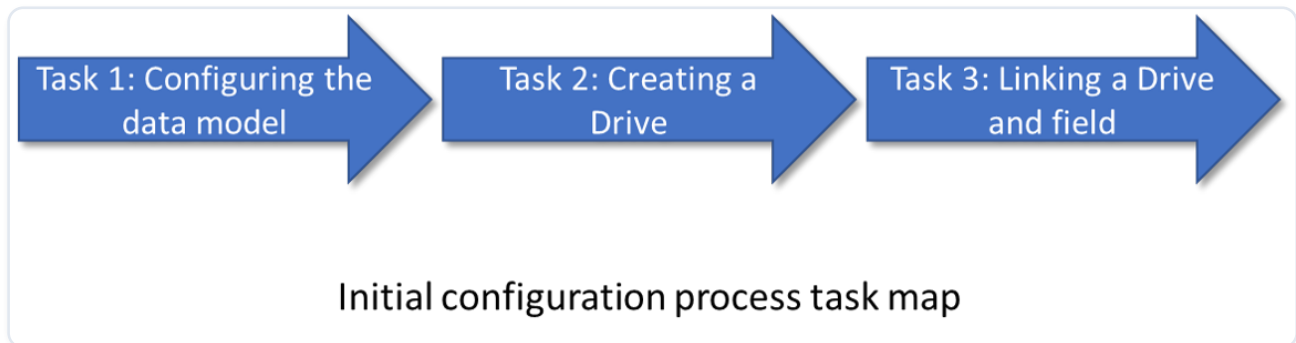
- [Configuration process overview](#)
- [Configuring the data model](#)
- [Creating a Drive](#)
- [Linking a Drive and data model field](#)

Configuration process overview

Assets uploaded using the add-on can benefit from its management capabilities. In order to upload, store and link assets with a data model, you must complete the configuration tasks below:

- Add a media field to a data model using the **mediaType** data type. For detailed steps to complete this task, see [Configuring the data model](#).
- Create an asset storage location, or *Drive*. For detailed steps to complete this task, see [Creating a Drive](#).
- Use a *Digital asset component (D.A.C.)* to link the media field and Drive. For detailed steps to complete this task, see [Linking a Drive and data model field](#).

The following map summarizes the tasks required to complete this process:

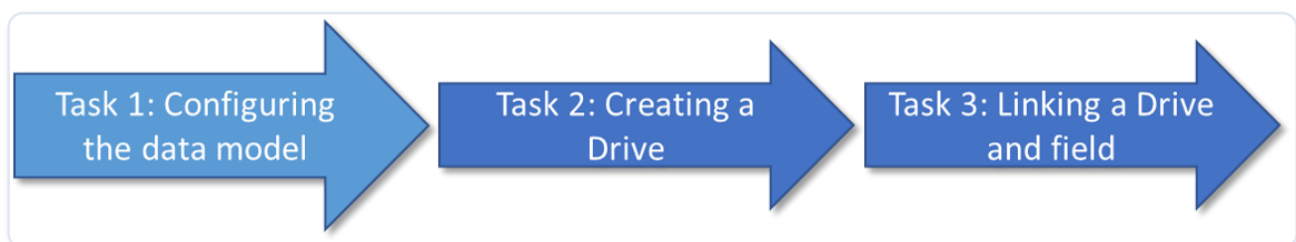


Configuring the data model

- [Configuration task map](#)
- [Steps to complete Task 1](#)

Configuration task map

The following map shows where you are in the add-on configuration process:



The following section outlines the steps to complete Task 1: Configuring the data model.

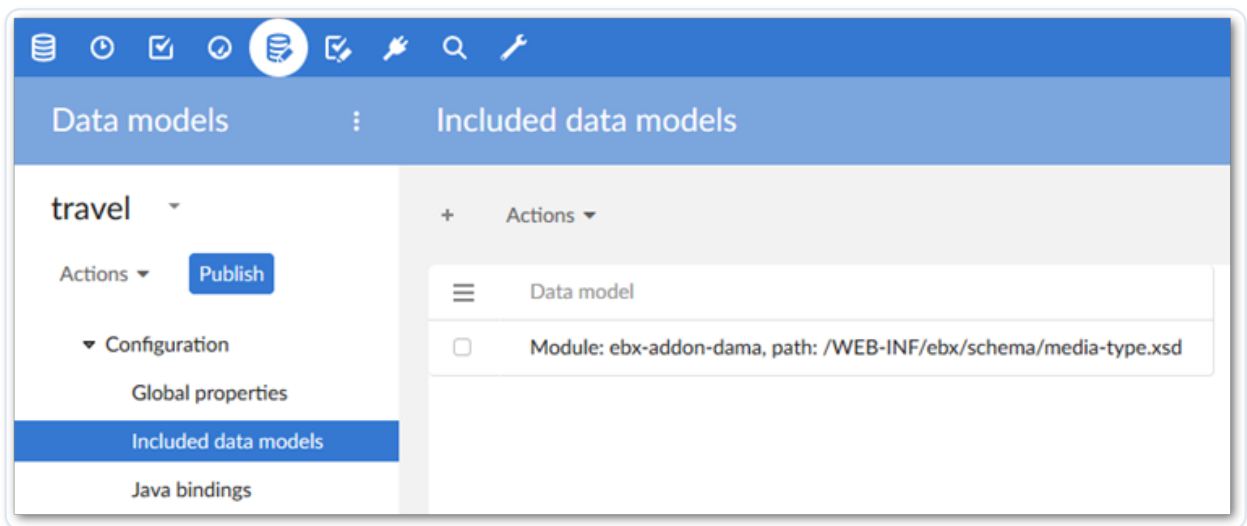
See also:

- [Creating a Drive](#)
- [Linking a Drive and data model field](#)
- [Configuration process overview](#)

Steps to complete Task 1

To attach a digital asset to a record, you must add a field to the data model. This field's data type must be set to **mediaType**. The following steps describe how to accomplish this:

1. Locate and open an existing, or create a new data model to which you want to add asset management capabilities.
2. In the **Navigation** pane, open *Configuration > Included data models* and click the + icon to add a data model.
3. Select the **Packaged in module** option and in the **Model properties** group, choose **ebx-addon-dama** for the **Module name** and select **/WEB-INF/ebx/schema/media-type.xsd** for the **Path in module** field.



4. After saving and closing, create a field using the **mediaType** data type in the desired table by selecting **Create child** from the table's services menu and using the following options:
 - Enter a name and optionally a label and description.
 - For the **Kind of element**, select **Group**.
 - Select **Reuse an existing type**.
 - Select **Included data models** as the **Data type** and choose **Media type** from the drop-down menu.

Add an element

Configure the new element

Name *

Label and description

English (United States)

Area Views

French (France)

Kind of element

☐ Field
 ☒ Group
 ☐ Association

☒ Reuse an existing type

Data type *

☐ Current data model
 ☒ Included data models

- Use the group's **Minimum/Maximum number of values** properties to specify the number of assets that users can attach to this field. If you are using this field to display images on a tile view, the **Maximum number of values** property must be set to `1`. Additionally, the group can only contain one field; the media type field.

Attention:

If you configure options for this field's **Default views and tools**, it can prevent users from accessing asset management functionality. Additionally, the value of a Path variable for a **Media type** field must specify an absolute path. If not, a `PathAccessException` is thrown.

6. After clicking **Create**, you can publish the data model and, if needed, create a dataset.

See also:

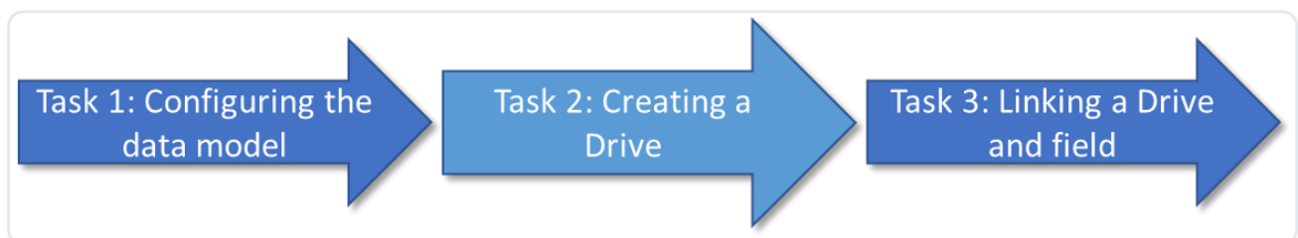
- [Creating a Drive](#)
- [Linking a Drive and data model field](#)
- [Configuration process overview](#)

Creating a Drive

- [Configuration task map](#)
- [Steps to complete Task 2](#)
- [Troubleshooting Drive error messages](#)

Configuration task map

The following map shows where you are in the add-on configuration process:



The following section outlines the steps to complete Task 2: Creating a Drive.

See also:

- [Linking a Drive and data model field](#)
- [Configuring the data model](#)
- [Configuration process overview](#)

Steps to complete Task 2

A Drive specifies an asset storage location and options related to acceptable file size and storage limitations. The following example points to a location on the local machine, however the API also

allows you to point to a cloud storage location. For more information, see the *Java API* documentation.

To create a Drive:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Drive* and open the **Drive** table. This table stores asset storage configuration information.
2. Create a new *Drive* configuration. When filling required fields, you can hover your mouse over the property and click the **?** icon to view online help, or you can refer to the [Drive group](#) section in this guide. The following image and list highlight some configuration options.

Drive id 7ED487D4-AD48-4DB1-A7E9-B3E87FD2590E

Label and description English (United States)
 French (France)

Connector **1** Default connector

Physical root path /NewDrive

User permission **2** 1.

- Profile admin admin (admin)
- Allow to view digital asset of other user ☒ Yes ☐ No
- Maximum allowed file size 52

Reject duplicates ☒ Yes ☐ No

Max usable space **3** 1,024 (MB)

Physical used space 103.63 (MB)

Physical free space 920 (MB)

Image configuration **4** Config for Large Images

Asset name pattern [not defined]

Restrict file upload ☐ Yes ☒ No

Blacklisted extensions

Encrypt files No

Built-in No

1)	Connector: Set the type of connector to use for this Drive: • Amazon S3: Allows you to create a Drive where assets are stored and managed in an Amazon S3 bucket. • Azure Blob: Allows you to create a Drive where assets are stored and managed in Microsoft Azure. • Custom connector: Allows you to connect to an externally managed location by using a custom implementation. • External manager: Allows you to use the API to connect to an externally managed storage location. • Default connector: Allows you to create a default Drive where asset storage and management tasks are handled by the add-on. Physical root path: (For Default connector) Specify the physical storage location for assets. External management class: (For External manager) Specify the class that defines an externally managed storage location. See Connecting to alternative storage locations for more information.
2)	Specify Drive level permissions.
3)	Determine the maximum amount of physical disk space this Drive can use for asset storage.

4)	Create a custom image configuration to set limits on the physical size (width/height) of uploaded images.
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Troubleshooting Drive error messages

The following table provides troubleshooting tips for *Drive* configuration error messages.

MESSAGE	CAUSE
Your path is a file; not a folder	The path specified in the Physical root path field points to a file when it should point to a folder.
You do not have write permission in this folder	The add-on does not have sufficient system permission to manage assets in the specified location. You may need a system administrator to raise permission levels, or use a different storage location.
This folder is not empty	You will see this message if the storage location you choose already contains files. When creating a new Drive, the storage location should be empty to avoid potential duplication of an asset's unique identifier.
Cannot create folder using this path	If the folder you specify doesn't exist, the add-on checks whether it can create the folder using the specified path. This message displays when it cannot create the folder automatically.
Comment	Displays comments applied to this asset version.
Current version	Indicates whether this version is considered the current version.
Digital asset	The digital asset of which this is a version.

See also:

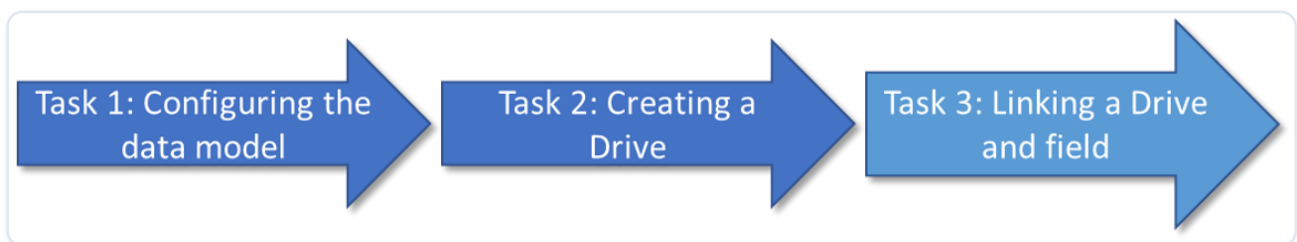
- [Linking a Drive and data model field](#)
- [Configuring the data model](#)
- [Configuration process overview](#)

Linking a Drive and data model field

- [Configuration task map](#)
- [Steps to complete Task 3](#)
 - [Enabling thumbnail display and upload in the tabular view](#)

Configuration task map

The following map shows where you are in the add-on configuration process:



The following section outlines the steps to complete Task 3: Linking a Drive and field.

See also:

- [Creating a Drive](#)
- [Configuring the data model](#)
- [Configuration process overview](#)

Steps to complete Task 3

To complete the final configuration task you link the data model field and Drive created in Tasks 1 and 2, respectively.

The following steps show how to link the media field you created in the data model with the Drive (storage location):

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > D.A.C* and open the **Digital asset component** table and create a new record.
2. Fill the required fields, save and close. It is important to note that by default no restrictions apply to the types of files users can upload. If you want to exclude certain file types, you can enable the **Restrict file upload** option and select acceptable types in **Supported extensions** field. The add-on includes a set of default image extensions. If you want to allow other file types, you can create them in the **File extension** table located in the **Reference data** domain. Additionally, you can use the **Blacklisted extensions** field to manually exclude available file types.

Additionally, the final required property, **Tag cloud**, isn't available to edit until you've saved the initial configuration.

The following image highlights D.A.C. functionality:

Code: LandscapesDAC

Label and description: English (United States) Landscape DAC

Drive: LandscapesDrive

User permission: 1. Profile: admin admin (admin)

Open Drive: Yes (selected) No

Detach: Yes (selected) No

Maximum allowed file size: 52 (MB)

Image configuration: Default image configuration

Data model: Publication: travelAgency

Field path: /root/Location/views

Custom filter:

Asset name pattern: [not defined]

Restrict file upload: No

Blacklisted extensions: [not defined]

Display configuration: [Mosaic] Default mosaic configuration

Table view configuration: [not defined]

Drive view: [Mosaic] Default mosaic configuration

Tag cloud: Actions

Label and description: Built-in

Default tag cloud: No

Buttons: Save, Save and close, Revert, Close

1)	Link the physical storage location selected in the Drive menu to the Media-type field in the data model.
2)	Options to govern asset upload: • Asset name pattern: Select a regular expression to enforce a naming convention for asset physical file names. The add-on will prevent users from uploading files if their names do not match this pattern. • Restrict file upload: When enabled, the Supported extensions group displays and allows you to specify an approved set of file extensions for upload. • Blacklisted extensions: Enter a list of file extensions you want the add-on to blacklist.
3)	These options determine: • How assets display after users attach them to data model fields. • Whether the asset thumbnails display in the table views and how they display in the Drive view.

Enabling thumbnail display and upload in the tabular view

You can specify that an asset's thumbnail and an icon to upload and attach assets display when viewing a table. You can also customize the thumbnail display size. Enabling upload of assets from the tabular view is convenient for end users since they won't have to open each record to attach assets. Additionally, users can preview and download assets from the tabular view.

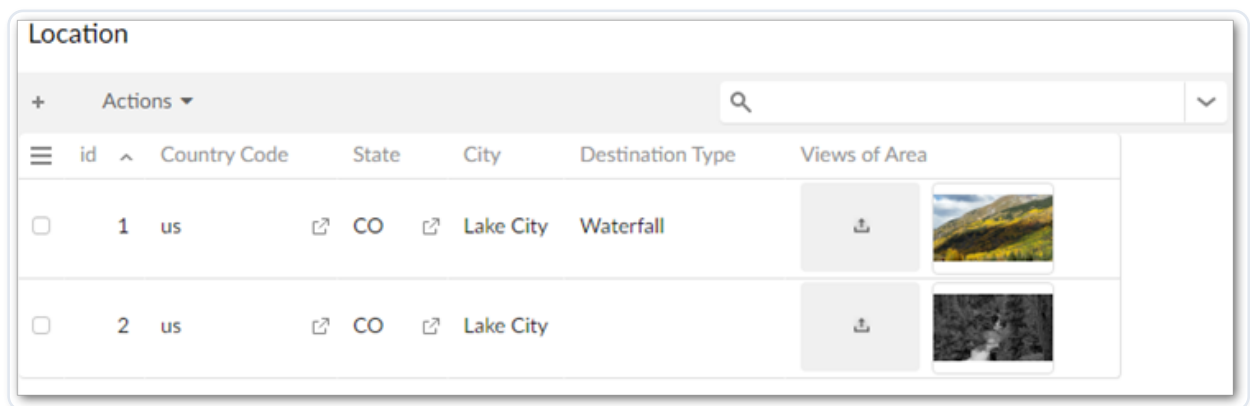
Thumbnail display behaves as follows:

- When no assets are attached, the field is left blank.

- If multiple assets are attached, the first thumbnail displays. Or if multiple types of assets are attached, the first asset whose type supports thumbnails displays.
- If the asset type does not support thumbnails, the type's icon displays. When no icon is specified for the asset type, the default icon displays.

To enable table display of thumbnails and allow upload and attach:

1. If one does not already exist, create a view configuration and set the **View mode** to **Table view**. For instructions on creating a view configuration, see [Specifying the view mode](#).
2. Open the D.A.C. associated with the data model field that you want to display thumbnails.
3. Use the **EBX tabular view** drop-down menu to select the desired view configuration.
4. Save and close. The following image shows an example thumbnail display:



	id	Country Code	State	City	Destination Type	Views of Area
☐	1	us	CO	Lake City	Waterfall	
☐	2	us	CO	Lake City		

See also:

- [Creating a Drive](#)
- [Configuring the data model](#)
- [Configuration process overview](#)

Uploading and attaching assets

- [Overview](#)
 - [Setting the upload mode](#)
- [Using quick upload mode](#)
- [Using standard upload mode](#)

- Upload and automatically attach assets
- Upload and attach in a Drive
- Upload assets via administrative access
- Attaching existing assets to a field

Overview

The add-on provides standard and quick-upload functionality. Administrators can use permission settings to determine this behavior. See [Setting the upload mode](#) for more information. Even when quick-upload is available, users can still access the **Drive** to upload and attach assets. See the following sections for more information:

- [Using quick upload mode](#)
- [Using standard upload mode](#)

Setting the upload mode

Administrators can specify which upload mode users can access. If you enable quick-upload, users will not see notification of duplicate assets, or errors indicating upload of invalid assets. For instance, if a user attempts to upload a file that does not meet conditions specified in D.A.C. settings, the file displays in the field with a red border and will not be attached to the field when saving.

To change the upload mode:

1. In the add-on's administrative area, navigate to and open the D.A.C. on which you want to adjust settings.
2. Open the appropriate user permission group and set the **Allow to quick upload and attach** property to the appropriate setting. Save and close.

Using quick upload mode

Use the following steps to upload and automatically attach an asset to a field:

1. Create a new, or open an existing record in the dataset containing the **media type** field to which you want to attach an asset.
2. Click the **Upload** button that displays in the **media type** field. Note: You cannot use the **Upload** option when the maximum number of assets are already attached to the field.

The screenshot shows a 'Actions' pop-up window. At the top, there's a dropdown menu labeled 'Actions'. Below it, there's a form with several fields: 'id' with a red error icon and the value '1', 'Country Code' with the value 'us', 'State' with the value 'CO', 'City' with the value 'Silverton', 'Destination Type' with the value 'Mountain', and 'Views of Area' with the value '[not defined]'. To the right of the 'Country Code' and 'State' fields are external link icons. Below the 'Views of Area' field, there are two buttons: 'Drive' with an external link icon and 'Upload' with an upload icon. A hand cursor is pointing at the 'Upload' button.

3. In the pop-up window that displays, you can browse to select the files to upload and attach to the field. Once the add-on finishes attaching assets, you can edit their information. See [Management overview](#) for more information. Also, note that the quick-upload option displays no errors, or warnings during the upload process. However, if you've attempted to attach an assets that violates requirements for this field, it displays with a red outline indicating an error and it will not be attached to the field when saving. You can mouse over the asset to see information pertaining to the error.
4. After assets have been attached to the field, be sure to save before exiting.

Using standard upload mode

The following topics describe how to upload assets and attach them to a data model field:

- [Upload and automatically attach assets](#)
- [Upload and attach in a Drive](#)
- [Upload assets via administrative access](#)
- [Attaching existing assets to a field](#)

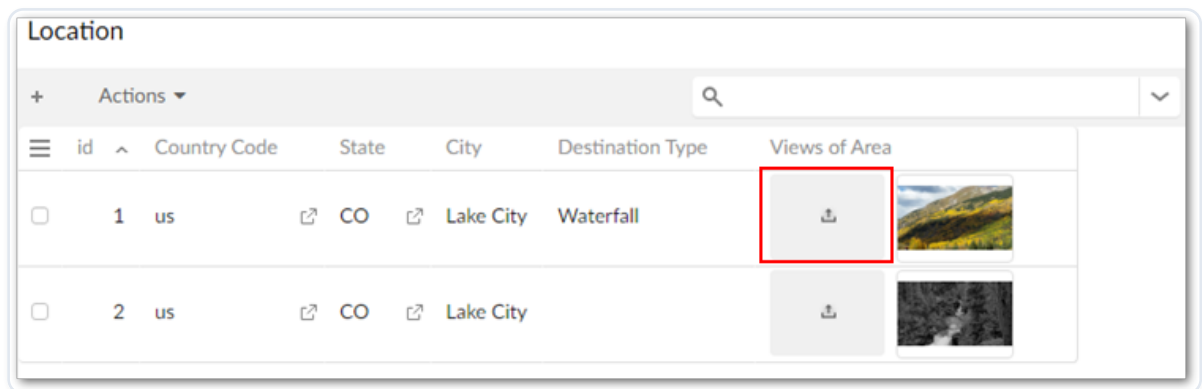
Attention:

The field and Drive must be properly configured before uploading and attaching assets. See [Linking a Drive and data model field](#) for more information.

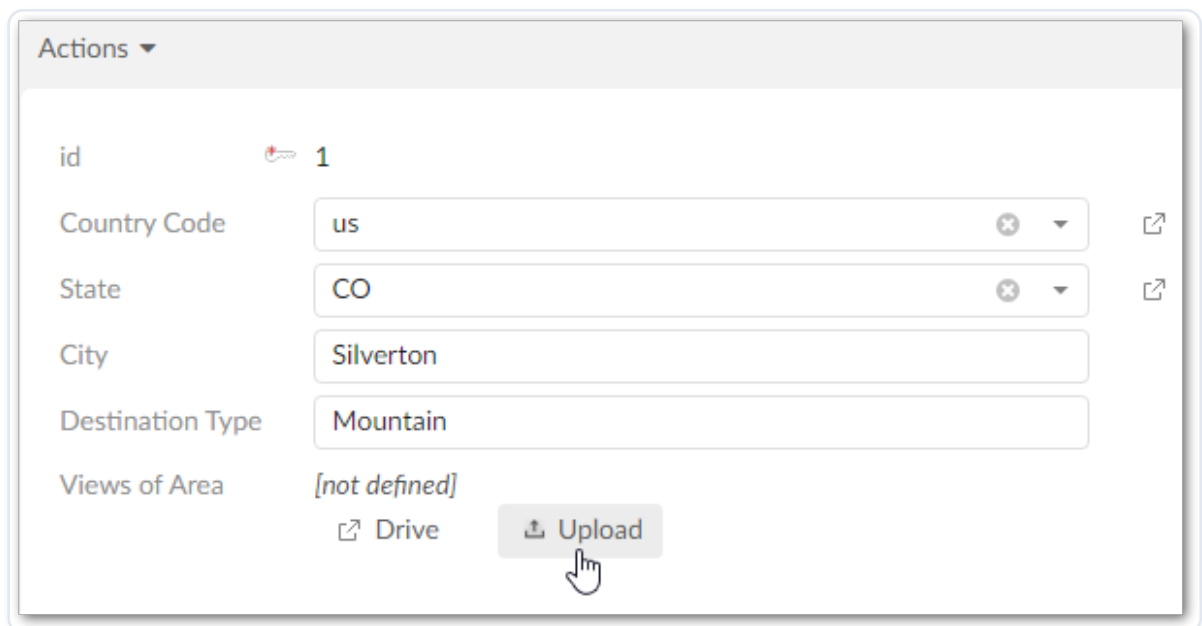
Upload and automatically attach assets

If the Drive linked with a field doesn't contain the desired asset, use the following steps to upload and automatically attach an asset to a field:

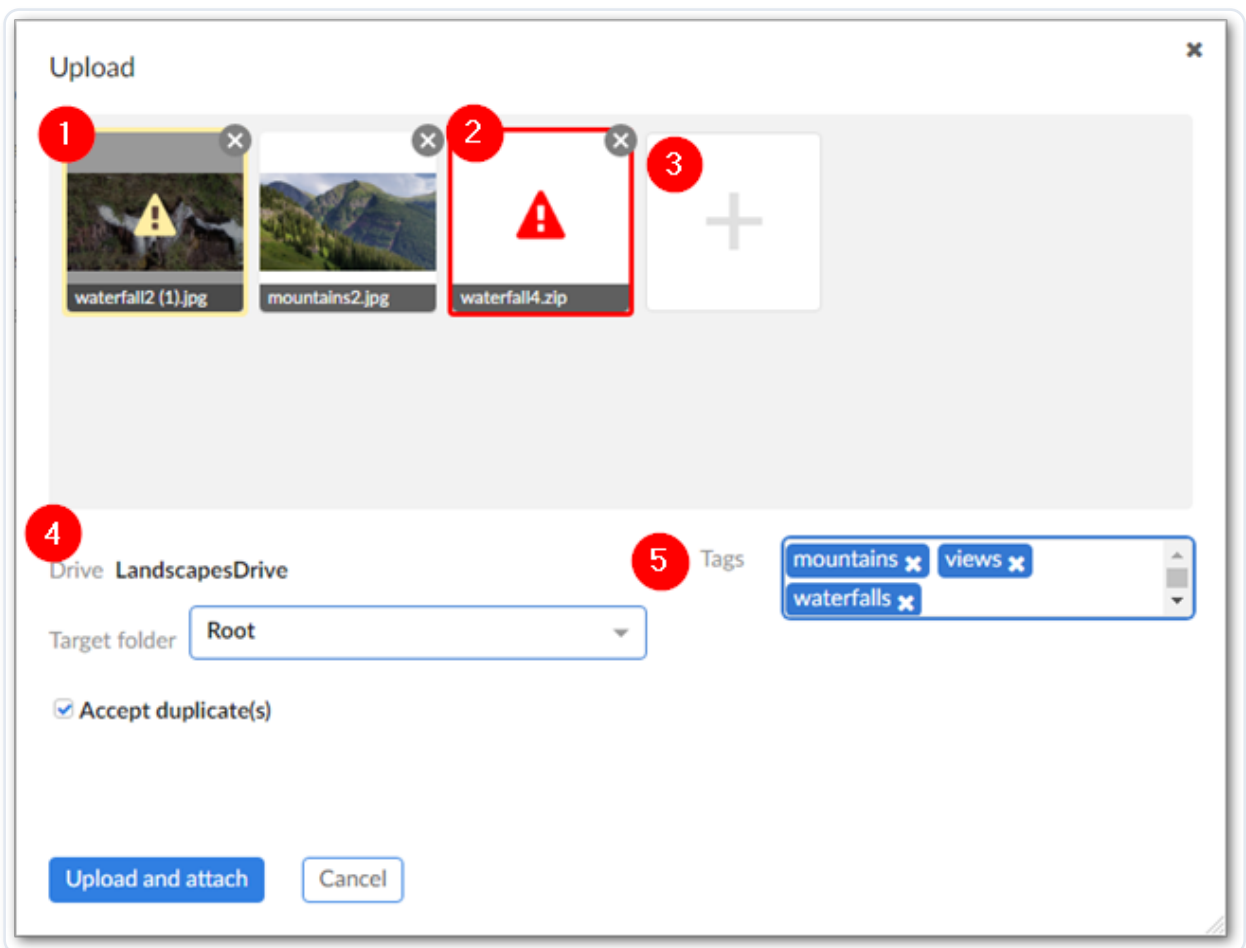
1. Initiate the upload process in one of the following ways:
 - If enabled by an administrator, select the upload icon that displays in the tabular view.



- Create a new, or open an existing record and click the **Upload** button that displays in the **media type** field. Note: You cannot use the **Upload** option when the maximum number of assets are already attached to the field.



2. In the pop-up window that displays, you can drag and drop, or browse to select the files to upload and attach to the field. The following image highlights features in the upload screen. Once the add-on finishes attaching assets, you can edit their information. See [Management overview](#) for more information.



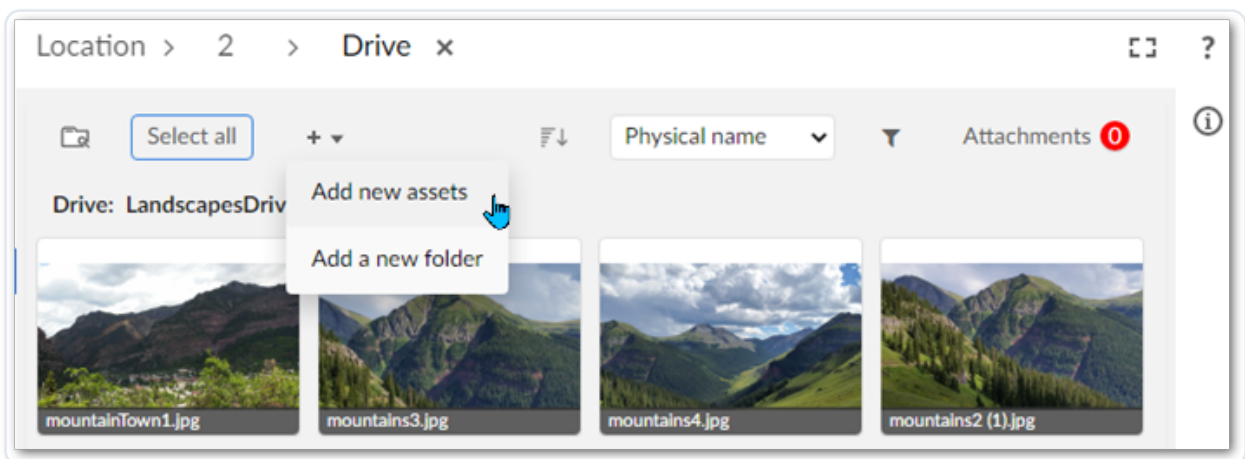
1)	If your Drive is configured to allow duplicates, the yellow icon overlay indicates an identical asset exists in the Drive. Use the Accept duplicate(s) option below to accept or reject upload of duplicates. When duplicates are not allowed, the red icon overlay displays and you cannot upload the asset.
2)	The red icon overlay indicates the asset does not meet D.A.C requirements. Mouse-over the icon for additional information.
3)	Select to browse your file system for another file to upload.
4)	Drive indicates where these assets are uploaded. Use the Target folder menu to

	select a folder location for the uploaded assets.
5)	Enter the tags to apply to the assets included in this upload.

Upload and attach in a Drive

The following steps describe how to upload an asset and attach it to a field using the **Drive** view:

1. Create a new, or open an existing record in the dataset containing the **media type** field to which you want to attach an asset.
2. Click the **Drive** button that displays in the **media type** field to open the **Drive** view.
3. In the **Digital assets** pane mouse over the **+** menu and select **Add new assets**.



4. In the pop-up window that displays, you can drag and drop, or browse to select the files to upload. If you've dropped files into the upload window and want to browse to select additional files, just click the large plus thumbnail. The upload window also allows you to add tags which the add-on applies to each asset in this upload. When adding tags, you can select from existing, or create new tags by adding text and clicking the **Enter** key.
5. Click **Attach and upload**. Note that you have the additional option here of selecting **Upload** to upload assets to the Drive without attaching them to the field. Once assets have uploaded, you can select them to perform additional actions. The [Management overview](#) section covers related topics in more detail.

Upload assets via administrative access

If you have administrative privileges, you can use perform the following steps to upload an asset:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Digital asset* and from the **Digital asset** table's **Actions** menu and select **Upload a new digital asset**.
2. Browse to select the desired file.
3. You can create a label, description, version name, comments and tags. When adding tags, you can select from existing, or create new tags by adding text and pressing the **Enter** key.
4. Use the **Drive** drop-down list to indicate the Drive to which you want to add this asset.
5. Click **Upload**. After the process completes, the upload window refreshes and you can repeat these steps to upload additional assets.

Once you've uploaded assets, you can manage information such as label, description, state, tags and other metadata. The section, [Management overview](#), covers the asset management topic in detail.

Attaching existing assets to a field

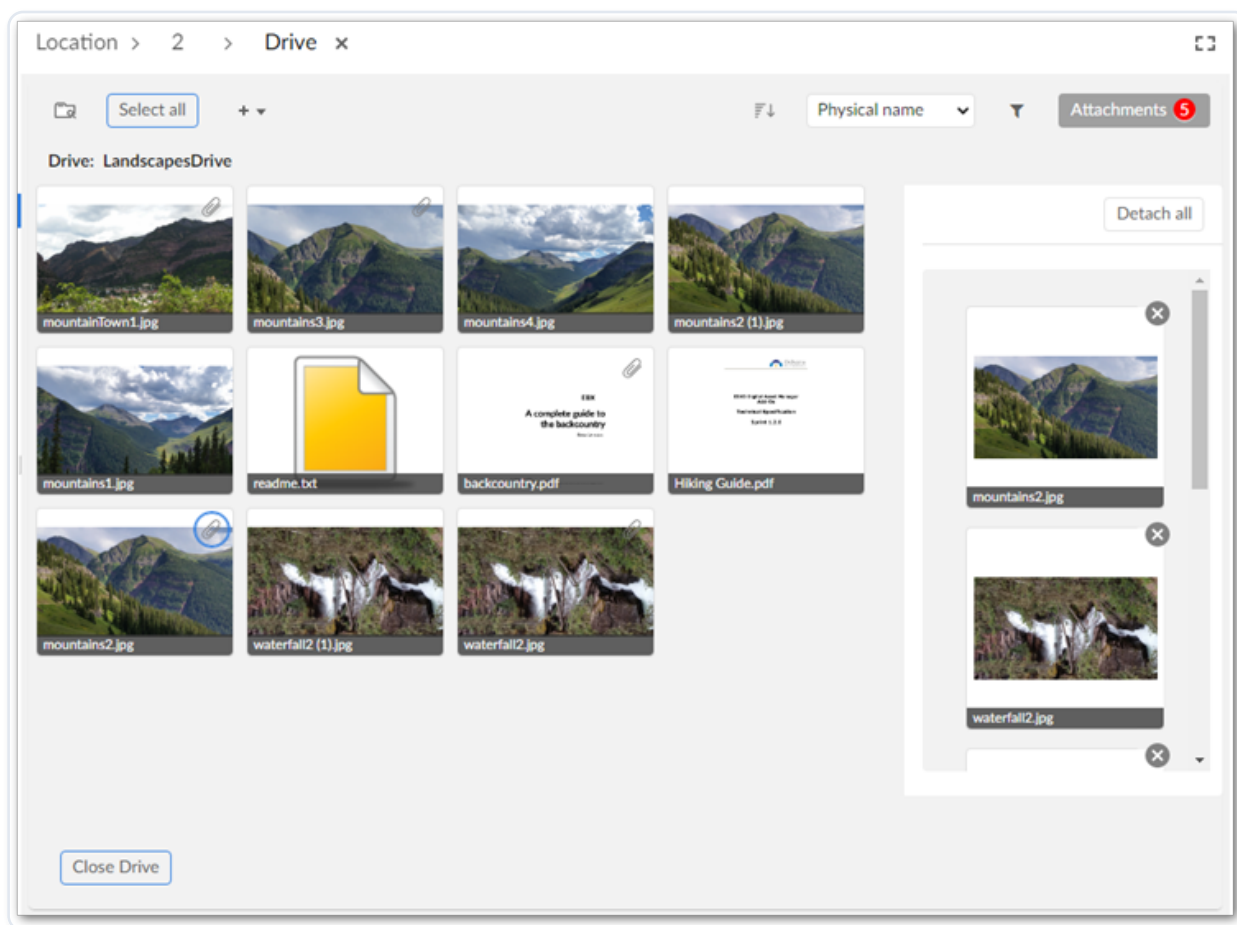
If you have previously used the add-on to upload files to a Drive, you can quickly attach them to the field by:

1. Clicking **Drive** to open the **Drive** view.

The screenshot shows a web interface for managing digital assets. At the top, there is a header bar with the text 'Actions' and a dropdown arrow. Below this, there is a form with several fields: 'id' (with a key icon and the value '1'), 'Country Code' (with a dropdown menu showing 'us'), 'State' (with a dropdown menu showing 'CO'), 'City' (with a text input field showing 'Silverton'), 'Destination Type' (with a text input field showing 'Mountain'), and 'Views of Area' (with a text input field showing '[not defined]'). To the right of the 'Country Code' and 'State' fields, there are icons for deleting (an 'x' in a circle) and linking (an external link icon). Below the 'Views of Area' field, there are two buttons: 'Drive' (with an external link icon) and 'Upload' (with an upload icon). A mouse cursor is pointing at the 'Drive' button.

2. Attach assets:
 - Individual assets: Hover your mouse over an asset and select the paperclip icon.
 - Multiple assets: Select multiple assets and click the paperclip icon at the top of the screen.

3. Select one or more assets to attach. Select **Attachments** to show thumbnails of any assets attached to the field. Detach all assets by selecting **Detach all**, or select individual assets to open a preview with additional actions available.



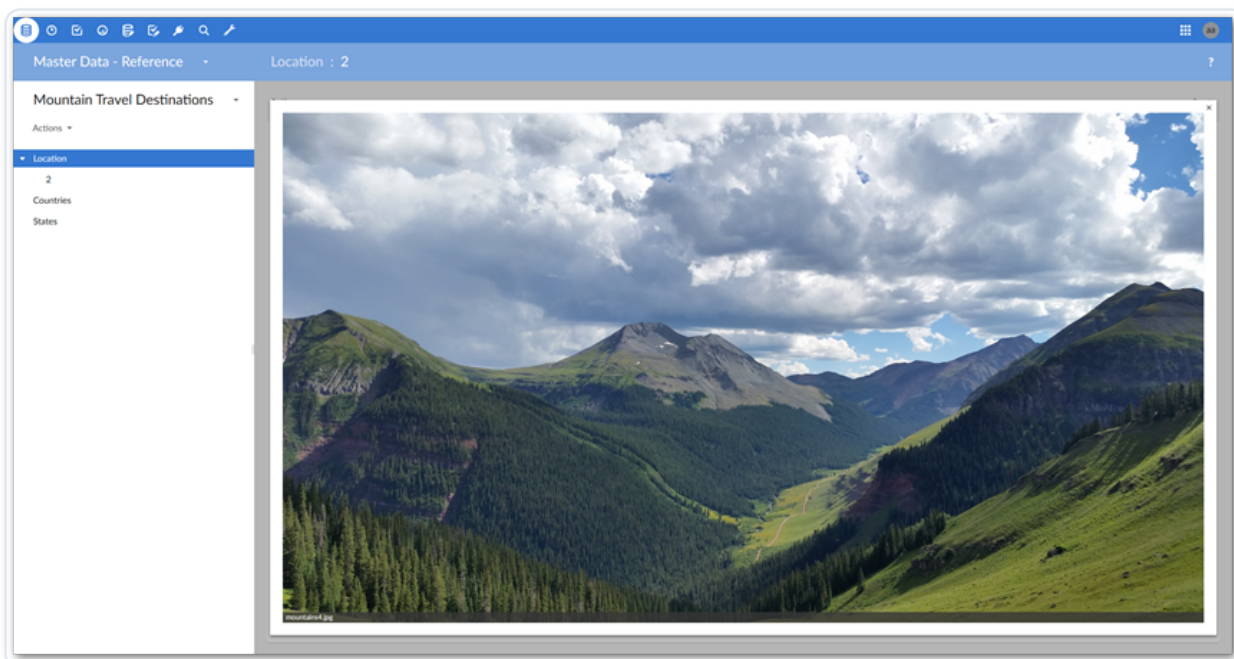
Previewing assets

For supported file types, the add-on opens a preview when:

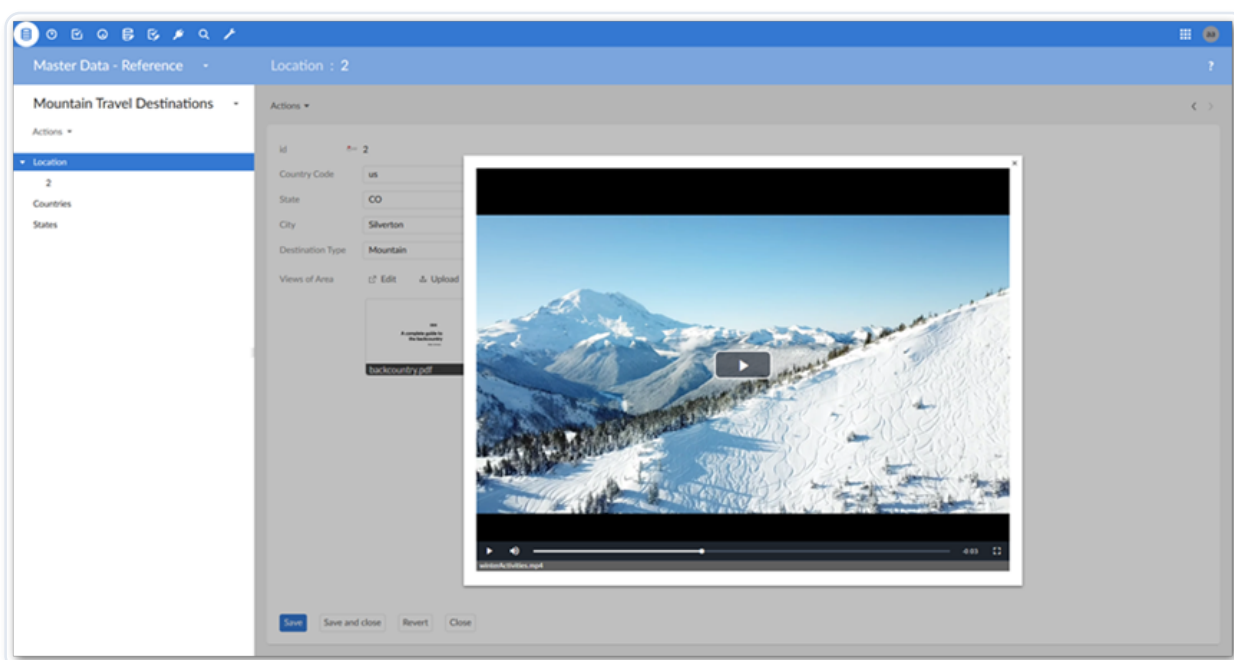
- You hover your mouse over an asset and select the  icon.
- You click an asset's thumbnail when viewing a table.

If you preview:

- an image: the add-on displays a full-size view and you can click to zoom.



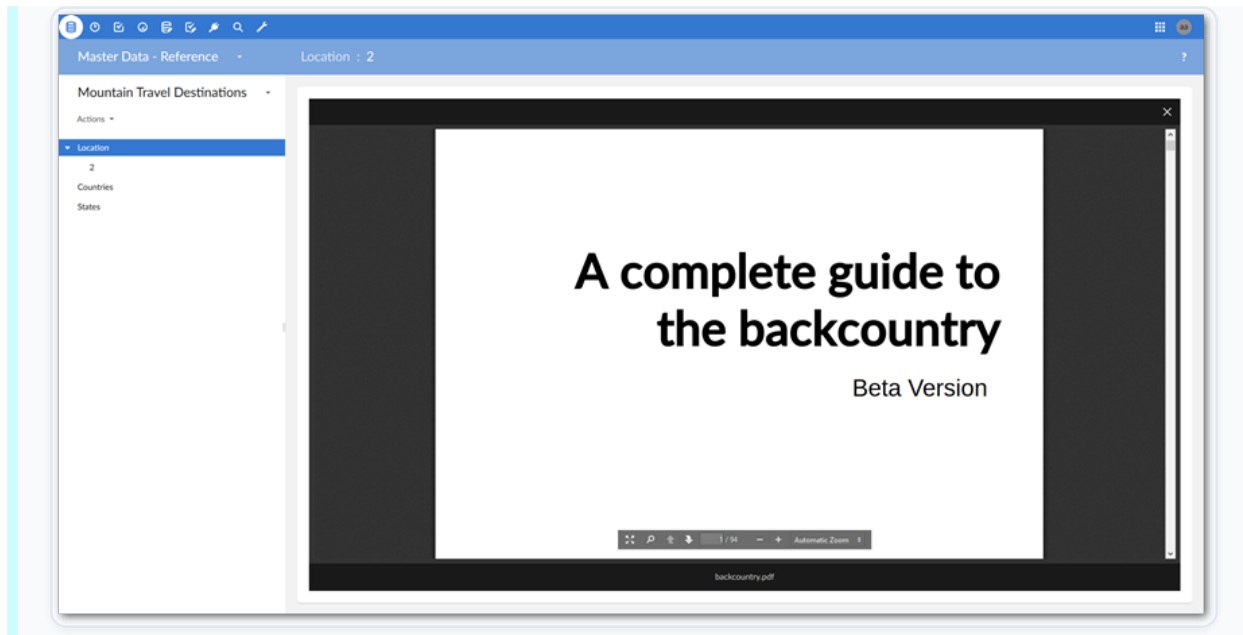
- a video: the add-on automatically plays the video and enables basic playback controls.



- a document: the add-on loads the document for viewing. From the preview, you can access standard viewer features such as zoom, navigation, and search.

Note:

To preview DOC files in some languages, such as Vietnamese, Japanese, and Chinese, their respective language packs must be installed on the deployment environment.



[Management overview](#) describes additional options available when previewing an asset from the **Drive** view. The following table provides additional information pertaining to asset previews:

ASSET TYPE	NOTES
MP4	Currently, the add-on supports previewing and thumbnail generation for videos with the H.264 codec and AAC, or MP3 audio format.
PDF	The add-on does not support: • Text search for older PDFs that use JPEG2000, or JBIG formats. • Previewing files larger than 20MB.
Documents (DOCX, PPTX, XLS, XLSX)	The add-on performs some conversion to display document previews. Certain style elements may display differently in the preview. If the add-on cannot create a preview, an error message displays and it allows you to download the asset. When viewing PPT or PPTX previews, text is not selectable and the search function is

ASSET TYPE	NOTES
	disabled. Also, note that previews of charts in these document types do not display. The add-on supports preview functionality for Word 2007 and newer DOCX files.

Configuring asset filters

- [Overview](#)
- [Filtering records containing assets](#)
- [Adding a custom filter](#)

Overview

The add-on includes the following types of filters that administrators can configure:

- Filters can apply to tables and display records based on the presence of attached digital assets. Once configured, users can filter records using the EBX® table filter. For more information, see [Filtering records containing assets](#).
- A Java class can implement a programmatic filter that only allows users to view assets that meet certain criteria. Once a developer implements the class, an administrator can include it as part of a D.A.C. configuration. The filter is essentially transparent to users as the add-on automatically applies it when they view assets. For more information, see [Adding a custom filter](#).

Filtering records containing assets

Administrators can activate a filter that allows users to display records based on the presence of attached assets. To enable filtering:

1. Open the desired model in the DMA.
2. Navigate to *Configuration > Add-ons* and create a new record.
3. In the **Name** field, select **Digital Asset Manager**.
4. Save, close, and publish the data model.

Users can access filter functionality via the EBX® table filter. The filter's **TIBCO EBX® Digital Asset Manager Add-on search** group displays all fields in the current table configured to accept asset attachments. For each field specify a value of:

- **is null** to show records without attachments in this field.
- **is not null** to show records with attachments in this field.

1 - 2 of 2 ▾

View ▾

▾ Search

Add a criterion ▾

Apply Actions ▾

▸ Text search

▸ Validation search ☐

▾ TIBCO EBX™ Digital Asset Manager Add-on search ☐

Views of Area ▾

is not null ▾

Documents ▾

is null ▾

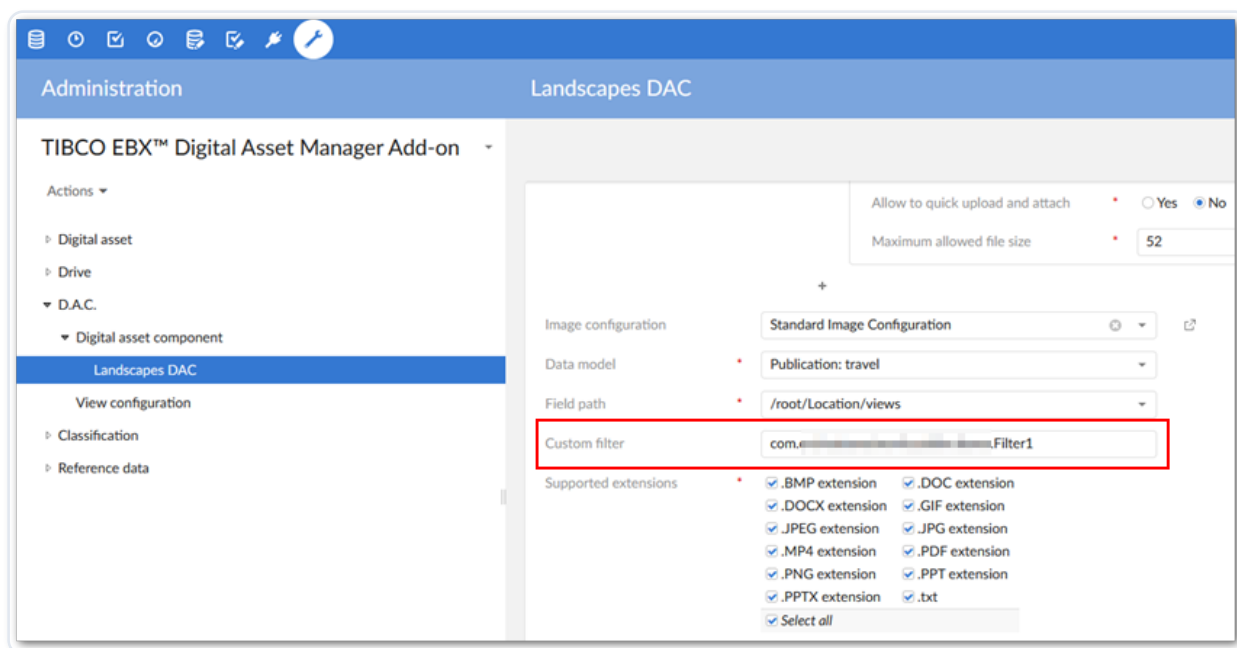
Apply

Adding a custom filter

A custom filter implemented in a Java class can provide fine-grained control over what users can view in the add-on's **Drive** view. See the API documentation for information on the interface and methods required for this type of filter. Once the class has been created, configuration only requires that you include the filter class in a D.A.C. configuration. The process is outlined below:

1. Open the desired record in the **Digital asset component** table.

2. In the **Custom filter** field, enter the fully qualified name of the Java class that implements the filter.



3. After saving and closing filter, the add-on applies filter functionality. The assets displayed for users in the **Drive** view are based on their permissions and the filter.

Managing digital assets

- [Management overview](#)
- [Editing asset information](#)
- [Tags and tag clouds](#)
- [Managing digital asset versions](#)
- [Additional configuration options](#)
- [Finding and removing unused assets](#)
- [Enabling asset management from perspectives](#)

Management overview

- [Overview of digital asset management](#)
 - [Moving assets to other Drives or folders](#)
 - [Sharing assets](#)

Overview of digital asset management

The add-on makes it quick and easy to find the specific digital asset you need with sophisticated searching, sorting, and information editing capabilities. In addition to options available to administrators, users can launch the following activities from the **Drive** view:

- Upload new assets.
- Attach assets to a data model field.
- Use criteria to sort and filter assets.
- Select assets to view their details.
- Download, share, deactivate and delete assets.
- Move assets from one Drive to another.
- Create folders and move assets between folders

To access the **Drive** view:

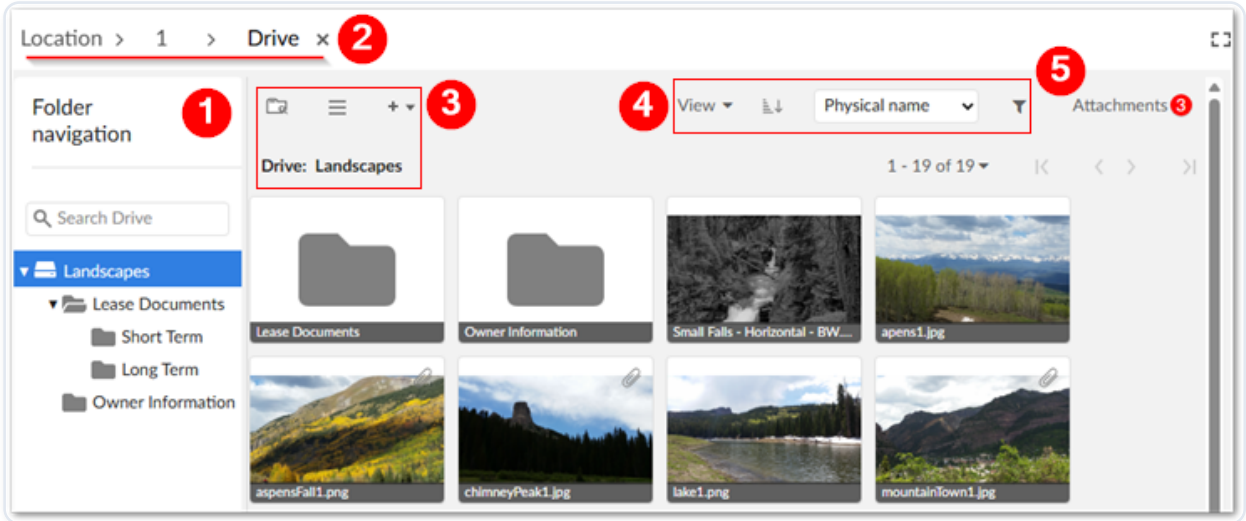
- Navigate to and open a data model record containing a field attached to a Drive.
- As shown below, click the **Drive** button.

The screenshot shows a web interface for a data model record. At the top, there is a header bar with the text "Actions" and a dropdown arrow. Below this, the record details are displayed. The fields and their values are as follows:

Field	Value	Actions
id	1	
Country Code	us	[X] [Dropdown] [Share]
State	CO	[X] [Dropdown] [Share]
City	Silverton	
Destination Type	Mountain	
Views of Area	[not defined]	[Drive] [Upload]

The "Drive" button, which includes a folder icon, is highlighted with a hand cursor pointing at it.

The following image and list highlight some components of this view (with no assets selected):



1)	The Folder navigation pane allows you to switch between available Drives and folders.
2)	The breadcrumb shows the current table and record.
3)	• The  icon toggles displays of this Drive's folder pane. • Click Select all to select all assets in this Drive. After selecting all, or individual assets, additional icons display that allow you to interact with the selections. • The + menu includes two options that allows you to upload new assets and create new folders for this Drive. Once you create a new folders, you can select and move assets to them by clicking the  and using the displayed options to select the desired folder.

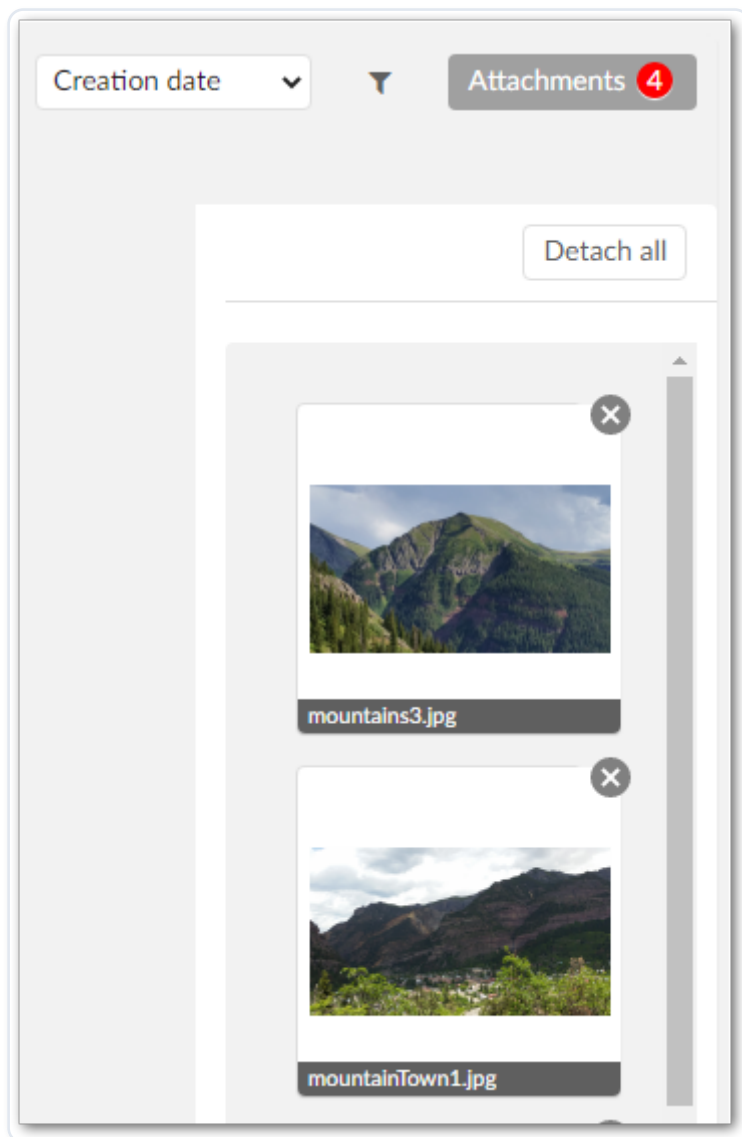
4)	• Use the View menu to switch between Grid view and List view. The grid option displays larger thumbnails and fewer assets and folders. The more compact list option displays assets and folders in a table layout with additional details visible. • Set the sort order to ascending or descending and use the drop-down menu to specify the sort criteria.
5)	Use the filter and Attachments pane to locate assets and view assets attached to the current field, respectively.

As shown below, you can use the filter to locate assets. You can:

- Enter keywords and search the asset's label, description, and physical name. Use the menu to specify whether the search looks for the *exact* search term, or text that *contains* the search term. This option defaults to **Contains**.
- Filter results using file extensions and asset types.
- Use creation date, last update, and asset tags to filter results.

The screenshot shows the 'Attachments' pane in the TIBCO EBX interface. At the top, there is a 'Creation date' dropdown and an 'Attachments' header with a red badge showing '4'. Below this is a search section with a 'Search' input field and an 'Exact' dropdown. Underneath the search bar are two rows of filter buttons: the first row contains 'bmp x', 'doc x', 'docx x', 'gif x', and '+12'; the second row contains 'PDF x', 'Document file type x', and '+3'. Below the filters are two sections for date selection: 'Creation date' and 'Last update'. Each section has two rows of date pickers, each consisting of a date input field, a calendar icon, a date '13', and a close 'x' icon. An 'Apply' button is located below the date sections. At the bottom, there is a 'Tags' section with three tags: 'mountains', 'views', and 'waterfalls'.

Select **Attachments** to display this pane and manage assets attached to the current field. Select **Detach all** to detach all assets from this field, or individually remove them using the corresponding **X** icon:



When you select an asset in the **Attachments** pane, an enlarged view displays. From this view you can use the icons in the top-right corner to:

- Download the selected asset. A window displays and allows you to choose the download location.
- Deactivate the asset. After deactivating an asset, only administrators can re-activate it. A deactivated asset no longer displays in the **Drive** view. To re-activate the asset: Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Digital asset*. In the **Digital asset** table, double-click the asset to activate. Use the **State** drop-down list to update the asset, save, and close.
- Permanently delete the asset. When you permanently delete an asset, the add-on physically deletes it from the Drive.
- Share via email. Opens your email client with the selected asset attached to a new email.

Administrators can perform the same actions mentioned above. Additionally, they can use the add-on's administrative tools to backup/restore assets. The following sections describe how to:

- Edit an asset's basic information. See [Editing asset information](#).
- Create *Tag clouds* and *tags*, and apply them to assets. See [Tags and tag clouds](#).
- Create new versions of an asset and choose the asset considered the current version. See [Managing digital asset versions](#).
- Create metadata categories and apply them to assets, backup and restore assets, configure additional Drive options, and set user permissions. See [Additional configuration options](#).

Moving assets to other Drives or folders

You can move assets and folders to other Drives and folders. This can help you organize and classify your assets. This feature is also useful when you want to use a new Drive with an existing DAC.

To move assets to another Drive:

1. Open the Drive containing the assets you want to move.
2. Click to select the desired assets or folders.
3. Select the  icon.
4. Use the **Move to** pop-up to select the destination Drive and folder, then click **Confirm**.

To move assets or folders to another folder:

5. Open the Drive containing the assets you want to move.
6. Click to select the desired assets or folders.
7. Use one of the following methods to move the selections:
 - Drag the selected items to the desired folder in the Drive view.
 - Select the  icon, use the options in the pop-up to select the destination, and click **Confirm**.

Sharing assets

The add-on allows you to share assets via links in email, permalinks, or asset URLs. To share assets:

1. Open the Drive containing the assets you want to share.

2. Select one or more assets. Note that if you want to share using a URL, only select a single asset.

Note:

The URL link expiration time defaults to 30 minutes. However, an administrator can adjust this limit in the `ebx.properties` file using the `ebx.addon.dama.rest.token.timeout` property.

3. Click the



icon and choose how you want to share the asset.

Editing asset information

- [Overview](#)
- [Editing asset metadata](#)

Overview

Modifications to asset metadata are either isolated, or applied globally. Your access rights, and where you make the change from determine their scope. When changes are isolated, they only impact the current dataspace. For example, when you make changes in a child dataspace, they do not propagate to the parent. Global changes are propagated to any location where an asset is used. If you:

- Are a business user and access edit functionality from a record's details view, any changes you make are isolated to the current dataspace.
- Have administrative privileges and access edit functionality using the **Manage digital assets** service, changes apply globally. When editing assets with this method, the **Manage digital assets** screen might not reflect changes users have made using the **Drive** view. Note that as an administrator you can still edit from a record's details view if you want to keep your changes local.

When you delete a D.A.C, any asset modifications made in the local dataspace (that are related to the deleted D.A.C) are lost. Assets are reset to their initial state.

Note:

The above behavior applies to asset versions, labels and descriptions. Changes to tags, state, and custom metadata are always applied globally.

Editing asset metadata

To edit an uploaded asset's general information, tags, metadata, and manage versions:

- As shown below, in the mediaType field, users can hover their mouse over an asset and select the information icon. If the record is read-only, its information displays, but actions aren't permitted.

Attention:

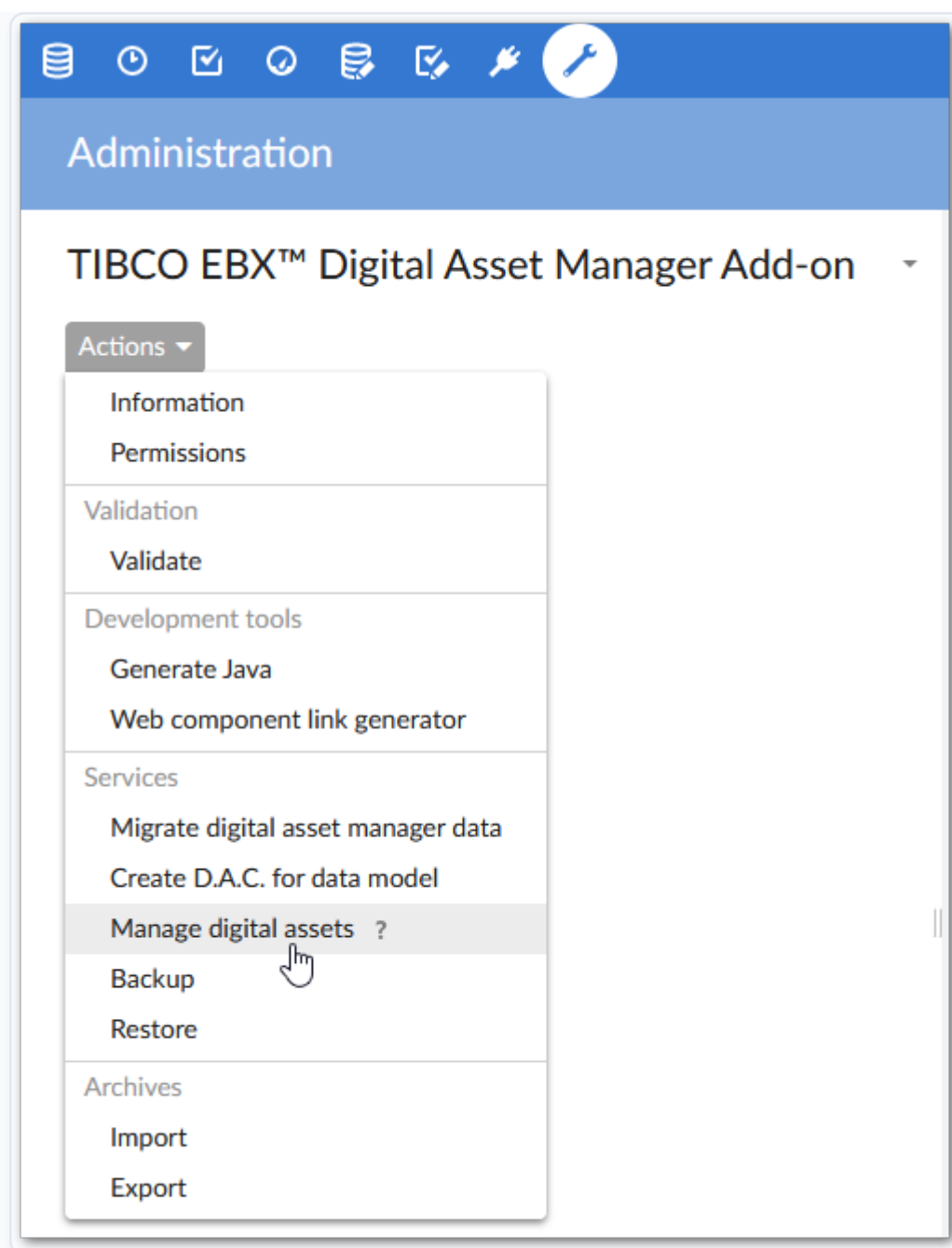
Changes made using this method are isolated to the current dataspace.

The screenshot displays the 'Actions' menu in the TIBCO EBX Digital Asset Manager. The menu is open, showing a list of actions for the selected asset. The actions include 'id', 'Country Code', 'State', 'City', 'Destination Type', and 'Views of Area'. The 'Country Code' field is set to 'us', 'State' is 'CO', 'City' is 'Silverton', and 'Destination Type' is 'Mountain'. The 'Views of Area' section shows 'Drive' and 'Upload' options. Below the form, there are three asset thumbnails: 'winterActivities.mp4' (a video player), 'mountains4.jpg' (a landscape image), and 'aspensFall1.png' (a landscape image). A hand cursor is hovering over the 'aspensFall1.png' thumbnail, and an 'Information' tooltip is visible next to it.

- From **TIBCO EBX® Digital Asset Manager Add-on**, administrators can select **Manage digital assets** from the **Actions** menu. This view allows you to switch between Drives to edit any asset. Once you've located it, click the desired asset and in the **Details** pane, click the **Edit** icon above the image.

Attention:

Changes made using this method are propagated to all dataspace.



The following three tabs display in the **Edit digital asset** screen:

- The **Information** tab allows you to view and edit the asset's label, description, state and tag information. You can only edit the asset's state if you have sufficient permissions. The following section, [Tags and tag clouds](#), describes these features in more detail.

Location : 1 > Digital Asset Manager - Edit digital asset

Information Version management Custom metadata

Physical name aspensFall1.png

Label and description * ▾ English (United States)
 aspensFall1.png

▸ French (France)

Creation date 09/08/2018 07:05:57

Last update date 09/08/2018 07:09:22

Digital asset type Image file type

File extension .PNG extension

State Activated



aspensFall1.png

Tags

mountain views x mountains x
 outdoor activities x Fall colors x

Manage associated tags.

- The **Version management** tab allows you to create new asset versions, edit the version name and comment attributes, delete asset versions, download versions, and select the current version. The [Managing digital asset versions](#) section covers these topics.

Location : 1 > Digital Asset Manager - Editor > Digital Asset Manager - Edit digital asset

Information Version management Custom metadata

New version ▾

File * aspens_Fall.png Select a file to upload as the new version.
The file extension must be the same as the digital asset's extension.

Version name Optionally, provide a name and comments.

Comment

Current version ☒ Specify whether the new asset is the current version and whether to update the label shown in the Editor.

Update label ☒

Digital asset versions

	Physical name	Version name	Comment	Current version	
	aspensFall1.png	High Resolution		☒	  
	aspensFall1.png	Low Resolution		☐	  

Set an existing version as the current version. Use the icons to edit attributes, download a copy of, or remove a version.

- The **Custom metadata** tab allows you to add custom metadata to an asset. See [Creating metadata categories](#) for more information.

Tags and tag clouds

- [Working with tags](#)
 - [Creating tags and applying them to assets](#)
- [Using tag clouds](#)

Working with tags

Tags provide descriptive metadata about assets. By creating tags based on relevant keywords that accurately define and describe assets, you enable filters and searches to retrieve the best results. To ensure consistency and accuracy, it's a good practice to double-check all asset metadata against an expected outcome.

A *tag cloud* facilitates grouping of related tags. A single tag can belong to multiple clouds. Administrators can make one or more tag clouds available to each D.A.C.

As described in the following section, you can create tags dynamically when uploading assets, or predefine tags to apply to assets at anytime.

Creating tags and applying them to assets

You can create tags in the following ways:

- When uploading an asset, you can enter a new, or select an existing tag. If you enter a new tag, the add-on automatically adds it to the asset and stores the new tag for later use. The add-on stores these tags in the tag clouds associated with this field through the D.A.C.
- If you have access to EBX® administrative features, you can navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Classification* and use the **Tag** and **Tag cloud** tables for creation. These tags will be available to users when uploading or editing an asset.

In addition to applying tags when uploading an asset, you can add tags when:

- Editing an asset:
 - When viewing an asset, click the **Edit** icon to display the **Edit digital asset** screen.
 - From the **Information** tab, you can add, or remove tags. Just be sure to save your changes and refresh the asset when finished.
- Managing assets as an administrator. While under *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on*, open the **Actions** menu and select **Manage digital assets**. Select the desired asset and click the **Edit** icon to add, or remove tags.

Using tag clouds

If you have administrative privileges, you can create tag clouds and manage which tags are included in each cloud. The following steps describe the process:

1. In the **TIBCO EBX® Digital Asset Manager Add-on** administration area, navigate to *Classification > Tag cloud*.
2. Click the '+' icon to create a new *tag cloud* and provide a label and description.
3. After saving, you can add tags to this cloud by creating new, or using the **Actions** menu to associate existing tags with this cloud.

You can open any tag cloud and use its **Actions** menu to:

- Associate existing tags with this cloud.

- Delete tags from the system.
- Remove tags from the cloud.
- Duplicate tags for modification (tags must be unique)
- Move tags from this cloud to a different cloud.

Managing digital asset versions

Keeping versions of digital assets allows you to re-purpose versions, or revert to an older version if needed. Even though multiple asset versions may exist, only versions designated as the current version display in the **Mosaic** and **Drive** views.

Note:

You can attach duplicate files to the same field. When the add-on sees that the asset is a duplicate, a screen displays that allows you to preview the asset and choose whether to continue, or cancel.

To create a new version of an asset or change the current version:

1. Access the **Edit digital asset** view:

- When viewing a record with attached assets, select an asset's



icon. Any changes made to the asset's version are isolated to the current dataspace.

- Administrators can select **Manage digital assets** from a dataset's **Actions** menu. Then select an asset to open an expanded view and select the



icon. Any changes made to the asset's version are propagated to all dataspace.

2. Select the **Version management** tab. (If you do not need to upload a new file and are only switching to a different version, tick the radio button in the **Current version** column of the desired asset, and skip to step 7).

Note:

From this view, administrators can delete asset versions by selecting versions to delete and clicking *Actions > Delete versions*. There must be at least one version of an asset. An error message displays if you try to delete the only version.

3. Browse to upload a new file. The uploaded file must have the same file extension as the original asset.
4. Optionally, add a **Version name**, **Comment** and select the **Current version** checkbox to automatically make this the current version. If you designate this asset as the current version, you can also enable the **Update label** option. This option updates the asset's label shown in the **Drive** view to the current version's file name.

Location : 1 > Digital Asset Manager - Editor > Digital Asset Manager - Edit digital asset

Information **Version management** Custom metadata

New version ▾

File * aspens_Fall.png Select a file to upload as the new version.
The file extension must be the same as the digital asset's extension.

Version name Optionally, provide a name and comments.

Comment

Current version ☒ Specify whether the new asset is the current version and whether to update the label shown in the Editor.

Update label ☒

Digital asset versions

	Physical name	Version name	Comment	Current version	
	aspensFall1.png	High Resolution		☒	  
	aspensFall1.png	Low Resolution		☐	  

Set an existing version as the current version. Use the icons to edit attributes, download a copy of, or remove a version.

5. Click **Create new version**. The add-on automatically applies any existing tags and metadata to the new version.
6. Save and close to exit.

Additional configuration options

- [Creating metadata categories](#)

- Backing up and restoring
- Allocating Drive disk space
- Limiting image size
- Specifying the view mode
- Whitelisting and blacklisting file formats
 - Adding new file extensions
- Setting user permissions

Creating metadata categories

In addition to tags, the add-on allows you to create your own categories of metadata to enrich assets. After applying metadata categories to assets, you can further describe the assets by adding metadata values. To perform these tasks:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Reference data > Metadata nature* and create a new record to define a category of metadata.
2. Access the **Edit digital asset** view:
 - When viewing a record with attached assets, select an asset's  icon.
 - Administrators can select **Manage digital assets** from a dataset's **Actions** menu. Then select an asset to open an expanded view and select the  icon.
3. Select the **Custom metadata** tab and add a new value. While in this tab, you can also edit and remove existing metadata. Be sure to save and refresh after completing your changes.

Backing up and restoring

The add-on allows you to take a single action to create a backup of all the assets it manages. When you restore the files, you'll have to enter new paths for Drives included in the backup.

To create a backup:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on*.
2. From the *Actions* menu > *Services* group, select **Backup**.

3. Enter a name for the zip file and click **Backup**.

The screenshot shows a web interface titled 'Backup'. At the top right, there is a user profile 'admin admin' with a status indicator. Below the title bar, there is a text input field labeled 'Backup file name' with the value 'MyBackupFileName'. Below this is a section titled 'Backup details' containing a table with three columns: 'Drive', 'Original location', and 'Zip file name'.

Drive	Original location	Zip file name
[ON] Icon drive	C:\Users\csste\AppData\Local\Temp\ebx.platform.modules\ebx-addon-dama\icon	\driveFileFolders\[ON] Icon drive.zip
Landscapes	H:\ADDDON Docs\Data\DAM Drives\DAM 1\Landscapes	\driveFileFolders\F2FCC41D-714F-40DD-8C36-CFA3F486114F.zip

4. After the process completes, you can select **Download** to save a copy of the backup file.

To restore assets:

5. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on*.
6. From the *Actions* menu > *Services* group, select **Restore**.
7. Click **Choose file** to navigate to the backup file's location.
8. After selecting the file click **Next**.
9. A table listing all backed up Drives displays. Enter new paths, and click the **Restore** checkbox for Drives you want to restore. An important note: *If you choose not to restore specific Drives, they will no longer be available.*
10. Click **Restore**.

Allocating Drive disk space

When you create a Drive configuration, you point to a system folder to use as the *Drive's physical location*. You can specify how much space you want to allocate to the Drive with the **Max usable space** property. Once asset storage reaches this threshold, you can no longer upload assets to this *Drive*, unless you physically delete assets to make room.

Limiting image size

You can use an image configuration to limit the physical size (width/height) of images. Once you've created a configuration, you can add it to any Drive, or D.A.C. The configuration used by a D.A.C. cannot allow for larger images than that used by the Drive.

Specifying the view mode

A view configuration determines how assets display when attached to a data model field.

Administrators can create configurations and use them in D.A.C.s. To create a view configuration:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > D.A.C. > View configuration*.
2. When you open an existing, or create a new record you can choose from the following options:
 - **Mosaic view:** Displays a tiled view of the assets. When you select this option, you'll be able to set the number of assets that display in rows and columns. You can also choose whether the view scrolls vertically, or horizontally to display additional assets.
 - **List view:** Displays assets in vertical list.
 - **Table view:** Enables display asset thumbnails when viewing a table. Use the available options to set the thumbnail size.
3. Decide whether assets display as their associated icons, or as thumbnails. When you choose:
 - To display icons, the assets display with their associated icon (if one exists).
 - To display thumbnails, you can set the thumbnail size and whether users can select an asset to expand it.
4. Choose whether quick action icons always display, or only display when users mouse over an assets thumbnail.

The following list of sample images show the outcomes of using the options mentioned above.

- List view using thumbnails:

Location : 2

Actions ▾

id

2

Country Code

us

✕ ▾

↗

State

CO

✕ ▾

↗

City

Silverton

Destination Type

Mountain

Views of Area

↗ Drive

⬆ Upload

▷ backcountry.pdf

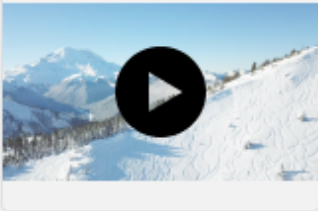
🗑

▷ txticon.png

🗑

▼ winterActivities.mp4

🗑



▷ mountains4.jpg

🗑

▷ aspensFall1.png

🗑

- List view using icons:

Location : 2

Actions ▼

id
2

Country Code
us

State
CO

City
Silverton

Destination Type
Mountain

Views of Area
Drive Upload

backcountry.pdf
i

txticon.png
i

winterActivities.mp4
i

mountains4.jpg
i

aspensFall1.png
i

Use the quick-access icons to view/edit asset information, import a new version, or delete the asset.

When an asset does not have an associated icon, a default icon displays.

- Mosaic view with thumbnails:

Location : 2

Actions ▾

id  2

Country Code  ▾ 

State  ▾ 

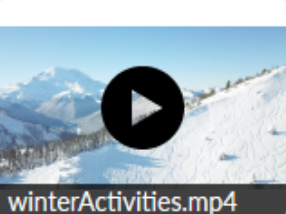
City

Destination Type

Views of Area  Drive  Upload


backcountry.pdf


txticon.png


winterActivities.mp4

- Mosaic view with icons:

Location : 2

Actions ▾

id  2

Country Code  ▾ 

State  ▾ 

City

Destination Type

Views of Area  Drive  Upload

 backcountry.pdf   

 txticon.png   

 winterActiviti...   

 mountains4.jpg   

 aspensFall1.png   

Whitelisting and blacklisting file formats

By default, the add-on allows upload of all file types. However, you may want to allow a set of file formats and block others, whitelist and blacklist respectively. The add-on allows you to add to a set of predefined file extensions. At the Drive level, you can restrict asset upload to only these file extensions. Alternatively, you could manually enter file extensions to blacklist. The D.A.C. level inherits permissions specified at the Drive level. However, you can override these settings. For example, you may have two different D.A.C.s linked to the same Drive. You could change permissions in the D.A.C.s so that only one of them can upload PDF files.

The following two settings are located in *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on* in the **Drive** and **Digital asset component** tables:

- When enabled, the **Restrict file upload** option in a Drive record restricts asset upload to only the asset file types listed in the *Reference data > File extension* table. When enabled in a D.A.C. record, you can further refine restrictions by selecting options in the **Supported extensions** field. If you would like to include additional file extensions in the **Supported extensions** list, see the [Adding new file extensions](#) section below.
- The **Blacklisted extensions** option only displays when the **Restrict file upload** option is disabled. This field allows you to manually enter file extensions to exclude from a Drive or D.A.C. You can use commas, semi-colons, periods, or whitespace to separate a list of extensions to blacklist. For example: `exe` , `bat` , `msi` , etc.

Adding new file extensions

To enable upload and management of additional file formats:

Note:

The following steps require administrative privileges.

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Reference data > File extension*.
2. Create a new record and fill in the following fields:
 - **Business code:** A user friendly name for this file extension.
 - **Filename extension:** Enter the filename suffix used to identify this file type.

- **Digital asset type:** Choose an asset type from the drop-down list. This list populates with options from the **Digital asset type** table. You can create types in the table, or click **+** **Create** in the drop-down list to create a new type.
- **Icon** → *Select*, or upload an icon used to identify this file extension type. The add-on stores all icons in the **Icon drive**.

3. Save and close.

Setting user permissions

If you have administrative access, you can set user permissions. Drives and D.A.C.s apply permission settings to user profiles and grant/restrict viewing, uploading, downloading, versioning and deleting. With the ability to apply permissions at two levels (*Drive/D.A.C.*), you can fine-tune asset management.

As an example, you may want allow a user to upload assets to a Drive. However, you may not want this same user to upload, attach, or edit any assets attached to a particular field. To accomplish this, you can grant appropriate access for the Drive and restrict access with the *D.A.C.*

Note:

The add-on supports EBX® restriction policy functionality. For more in-depth information on restriction policies, see the *EBX® User Guide and Reference Guide*.

Finding and removing unused assets

The add-on provides functionality to locate and remove assets not attached to a field—an effective way to tidy-up the **Digital asset** table. As described below, administrators use a two part process to identify unused assets and select assets for removal:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Digital asset*

and select the **Digital asset** table.
2. From the table's **Actions** menu, select **Identify unused assets**. After analysis, the add-on displays only assets not attached to a field.
3. Select any assets you wish to remove and from the table's **Actions** menu, select **Permanently Delete (Physically delete)**. Press **OK** in the warning dialog to remove all selected assets.

Enabling asset management from perspectives

Administrators can attach the **Manage digital asset** service to EBX® perspectives. This service allows full control over all assets contained in a Drive. See the EBX® product documentation for more information on creating perspectives and how they work.

To add add-on functionality to a perspective:

1. Select **Manage digital assets** from the **Action** menu.

The screenshot shows a configuration window for the action '[ebx-addon-dama] Manage digital assets'. The window has a title bar with the action name and a close button. Below the title bar is a section labeled 'Input parameters' which contains four fields: 'Service key' with the value 'ebx-addon-dama@manage_asset_uiservice', 'Dataspace' with the value 'Reference', 'Dataset' with the value 'travel', and 'Drive' with the value '25CD7EBC-CA09-4B26-AC84-D6FEFE93A667'. Below the 'Input parameters' section is a 'Selection on close' dropdown menu set to '[not defined]'. At the bottom of the window are four buttons: 'Save', 'Save and close', 'Revert', and 'Close'.

2. Use the required **Dataspace** and **Dataset** fields to specify the location of the media type fields.
3. Enter one or more Drive id's—which can be found in the add-on's **Drive** table—in the **Input parameters** group **Drive** field. When entering multiple Drives, separate the entries using a semicolon. If you leave this field blank, the perspective will be able to access any Drive associated with the specified dataset.

Configuring an external Drive

The add-on allows administrators to create a Drive that connects to an externally managed asset storage location. For example, you could connect to a cloud storage location. This allows externally managed assets to be attached to EBX® data model fields.

A developer must programatically implement connection details and any third-party requirements using the add-on's API. For details and examples, see [Connecting to alternative storage locations](#). Once necessary implementation steps are complete, you can create a Drive that connects to external storage by:

1. Navigating to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Drive* and open the **Drive** table. This table stores asset storage configuration information.
2. Creating a new *Drive* configuration. When filling required fields, you can hover your mouse over the property and click the ? icon to view online help, or you can refer to the [Drive group](#) section in this guide. The following image highlights some configuration options for an external Drive.

Cloud storage location

Services ▾

Drive id * BD4B220E-FAD7-4EAE-A303-D64AB745E74D

Label and description * ▾ English (United States)

Cloud storage location

This Drive connects to an externally manage storage location.

▸ French (France)

Connector * External manager ▾

External management class * ExternalGoogleManagerDefinition ⓘ ▾

User permission * 1 ▾

Profile * Mary Manager (manager) ▾

Restriction policy * ☐ Yes ☒ No

Allow to upload new asset * ☒ Yes ☐ No

Allow to upload new version * [not supported]

Allow to change current version * [not supported]

Allow to share and download * ☒ Yes ☐ No

Allow to delete * ☒ Yes ☐ No

Note that the ability to upload to an externally managed storage location might be disable programatically.

Specifies the Java class that defines the external storage management requirements.

+ Save Save and close Revert Close

3. After saving and closing, you can link the Drive to a data model field using a Digital Asset Component (D.A.C.). For instructions, please see [Configuring the data model](#) and [Linking a Drive and data model field](#).

Connecting to an Amazon S3 bucket

- [Concepts overview](#)

- [Configuring a Drive and Amazon S3 connector](#)

Concepts overview

Administrators can create a Drive that connects to an Amazon S3 storage location. This allows you to attach assets to fields in EBX® while managing their storage outside of EBX®. Most add-on features are available when using this type of Drive. However, the add-on does not handle versioning in this case and its features are disabled.

Setup requires updating EBX® configuration properties in addition to add-on configuration tasks. The following section provides the steps to complete these tasks.

Attention:

Some steps require access to the server where EBX® is running and others require administrative access to add-on configuration settings.

Configuring a Drive and Amazon S3 connector

To configure a Drive to use an Amazon S3 connector:

1. Add the following properties to your `ebx.properties` file:

- `ebx.addon.dama.aws.accessKey=<YourAccessKey>`
- `ebx.addon.dama.aws.secretKey=<YourSecretKey>`

Note:

You might be required to stop and restart your server to complete this step.

2. From the **Administration** panel, select: *TIBCO EBX® Digital Asset Manager Add-on > Drive > Drive*.
3. Create a new record.
4. After adding a label and description, use the **Connector** menu to select **Amazon S3**.

Fill in the required fields. If you have questions about one of the properties, hover your mouse over it and select the '?' to view its tooltip.

Please note that:

- The **Bucket name** is validated to ensure input is valid, but the name you enter must match your S3 bucket.
- The **Folder name** can be selected from existing folders, or you can click **Create** to add a new folder.

5. After saving and closing, you must [create a D.A.C.](#) to connect the Drive to a data model field.

Connecting to Azure

- [Concepts overview](#)
 - [Authentication methods](#)
- [Configuring a Drive and Azure connector](#)
- [Retrieving Microsoft Entra ID values](#)
 - [Retrieval through Azure Portal](#)
 - [Validation](#)
- [Retrieving the Storage Account Key](#)
 - [Retrieval through Azure portal](#)
 - [Security considerations](#)

Concepts overview

Administrators can create a Drive that connects to an Azure storage location. This allows you to attach assets to fields in EBX® while managing their storage outside of EBX®. Most add-on features are available when using this type of Drive. However, some asset metadata cannot be propagated to Azure, such as labels, descriptions, and tags. The metadata can be added in EBX®, but not stored in Azure.

Attention:

Digital assets stored in Azure cannot use the % symbol in the file name. See the official Microsoft Azure documentation for more information.

Setup requires updating EBX® configuration properties in addition to add-on configuration tasks. The following section provides the steps to complete these tasks.

Attention:

Some steps require access to the server where EBX® is running and others require administrative access to add-on configuration settings.

Authentication methods

You can choose from the authentication methods described in the following table:

OPTION	WHY CHOOSE THIS	WHAT YOU CONFIGURE
Microsoft Entra ID (recommended)	• Least privilege: assign only required blob roles (e.g. Storage Blob Data Contributor). • Rotation: secrets/certificates can be rotated without regenerating account keys. • Auditability: operations are attributed to a service principal identity. • Policy: supports Conditional Access and governance controls. • Risk reduction: avoids distribution of long-lived shared keys.	App registration (client ID/secret or certificate), RBAC role assignment, tenant ID

OPTION	WHY CHOOSE THIS	WHAT YOU CONFIGURE
Shared Key (fallback/legacy)	Short-term migration or temporary access when Entra ID isn't available	Storage account name and one account key

Configuring a Drive and Azure connector

To configure a Drive to use an Azure connector:

1. Select and configure one authentication method in you `ebx.properties` file:

- **Recommended: Microsoft Entra ID (Azure AD)**

Add all of the following properties:

- `ebx.addon.dama.azure.tenant.id=<tenantId>`
- `ebx.addon.dama.azure.client.id=<clientId>`
- `ebx.addon.dama.azure.client.secret=<clientSecret>`

See also:

- [Retrieving Microsoft Entra ID values](#)

Attention:

Use Entra ID for least-privilege (RBAC), secret rotation, individual audit trails, and to avoid exposing a full storage account key.

- **Alternative: Storage Shared Key**

Add: `ebx.addon.dama.azure.storageAccountKey=<storageAccountKey>`

See also:

- Retrieving the Storage Account Key

Attention:

Shared key grants full access. Prefer Entra ID unless migration or temporary fallback is required.

Note:

If both Entra ID and a shared key are configured, Entra ID is used.

Note:

A server restart may be required after changing these properties.

2. From the **Administration** panel, select: *TIBCO EBX® Digital Asset Manager Add-on > Drive > Drive*.
3. Create a new record.
4. After adding a label and description, use the **Connector** menu to select **Azure Blob**.

Fill in the required fields. If you have questions about one of the properties, hover your mouse over it and select the '?' to view its tooltip.

Please note that:

- The **Storage account name** is validated to ensure input is valid, but the name you enter must match your Azure account information.
- The **Container** can be selected from existing folders, or you can click **Create** to add a new folder.

5. After saving and closing, you must [create a D.A.C.](#) to connect the Drive to a data model field.

Retrieving Microsoft Entra ID values

Use the Microsoft Azure Portal to obtain the following identifiers required for Entra ID authentication:

- Tenant ID
- Client (Application) ID
- Client Secret (or certificate)

Retrieval through Azure Portal

The Microsoft Azure Portal UI can change over time. If the following steps do not match what you see, refer to the latest Microsoft Azure documentation.

1. Tenant ID: Navigate to **Microsoft Entra ID > Overview** and copy the **Tenant ID**.
2. Client ID: Go to **Microsoft Entra ID > App registrations**, select the application (service principal), copy the **Application (client) ID**.
3. Client Secret: In the same application, open **Certificates & secrets**, create a new client secret, copy its value immediately (it will be hidden later). Record expiration for rotation.
4. Assign RBAC: Open the Storage Account, select **Access control (IAM)**, add role assignment (e.g. `Storage Blob Data Contributor`) to the application.

Validation

Be sure to confirm role propagation (this may take a few minutes).

Retrieving the Storage Account Key

The storage account key grants broad access to the account. Prefer Microsoft Entra ID whenever possible. Use a key only for legacy scenarios or temporary fallback.

Retrieval through Azure portal

The Microsoft Azure Portal UI can change over time. If the following steps do not match what you see, refer to the latest Microsoft Azure documentation.

1. In Azure Portal, go to **Storage accounts** and select your account.
2. Open **Access keys** (In the UI, this might display under **Security + networking** or **Settings**).

3. Click **Show keys**.
4. Copy either **key1** or **key2** value. Use only one key in the property:
`ebx.addon.dama.azure.storageAccountKey=<storageAccountKey>` .
5. Optional: Regenerate a key (only after confirming all dependent services are updated). Rotate one key at a time to avoid outages.

Security considerations

When using a storage key, be aware of the following:

- Treat the key as a secret; never commit it to version control.
- Use key rotation and document last rotation date.
- Restrict distribution; prefer using service principals (Entra ID) for RBAC and audit trails.
- Remove the property when migrating to Entra ID to avoid unintended fallback.

Connecting to SharePoint

- [Concepts overview](#)
- [Configuring a Drive and SharePoint connector](#)

Concepts overview

Administrators can create a Drive that connects to a Microsoft Sharepoint storage location. This allows you to attach assets to fields in EBX® while managing their storage outside of EBX®. Most add-on features are available when using this type of Drive. However, some metadata such as labels, descriptions, and tags can be added in EBX® but are not propagated to SharePoint.

Setup requires updating EBX® configuration properties in addition to add-on configuration tasks. The following section provides the steps to complete these tasks.

Attention:

Some steps require access to the server where EBX® is running and others require administrative access to add-on configuration settings.

Configuring a Drive and SharePoint connector

To configure a Drive to use a SharePoint connector:

1. Add the following properties to your `ebx.properties` file:

- `ebx.addon.dama.sharepoint.client.id=<YourClientId>`
- `ebx.addon.dama.sharepoint.secret.id=<YourSecretId>`
- `ebx.addon.dama.sharepoint.tenant.id=<YourTenantId>`

Note:

You might be required to stop and restart your server to complete this step.

2. From the **Administration** panel, select: *TIBCO EBX® Digital Asset Manager Add-on > Drive > Drive*.
3. Create a new record.
4. After adding a label and description, use the **Connector** menu to select **SharePoint**.

Fill in the required fields. If you have questions about one of the properties, hover your mouse over it and select the '?' to view its tooltip.

5. After saving and closing, you must [create a D.A.C.](#) to connect the Drive to a data model field.

Connecting to Google Drive

- [Concepts overview](#)
- [Configuring a Drive and Google Drive connector](#)

Concepts overview

Administrators can create a Drive that connects to a Google Drive storage location. This allows you to attach assets to fields in EBX® while managing their storage outside of EBX®. Most add-on features are available when using this type of Drive. However, some metadata such as labels, descriptions, and tags can be added in EBX® but are not propagated to Google Drive.

Setup requires updating EBX® configuration properties in addition to add-on configuration tasks. The following section provides the steps to complete these tasks.

Attention:

Some steps require access to the server where EBX® is running and others require administrative access to add-on configuration settings.

Configuring a Drive and Google Drive connector

To configure a Drive to use a Google Drive connector:

1. Point to your Google Drive credentials file location by adding the following property to your

```
ebx.properties file: ebx.addon.dama.google.credentials.file=<path  
_to_json_file>.
```

Note:

You might be required to stop and restart your server to complete this step.

2. From the **Administration** panel, select: *TIBCO EBX® Digital Asset Manager Add-on > Drive > Drive*.
3. Create a new record.
4. After adding a label and description, use the **Connector** menu to select **Google Drive**.

Fill in the required fields. If you have questions about one of the properties, hover your mouse over it and select the '?' to view its tooltip.

5. After saving and closing, you must [create a D.A.C.](#) to connect the Drive to a data model field.

Performing bulk actions

- [Overview](#)
- [Bulk upload](#)
- [Attaching assets with batch processing](#)

Overview

Uploading and attaching assets with the add-on's **Upload** and **Attach** services works well when you have a limited number of assets because:

- You are limited to uploading 300 assets at one time.
- You need to open each record to attach assets.

To save time and effort when you are working with a large number of assets, you can perform a bulk upload of zipped assets and then optionally attach assets automatically with batch processing. The following sections cover these topics:

- [Bulk upload](#)
- [Attaching assets with batch processing](#)

Attention:

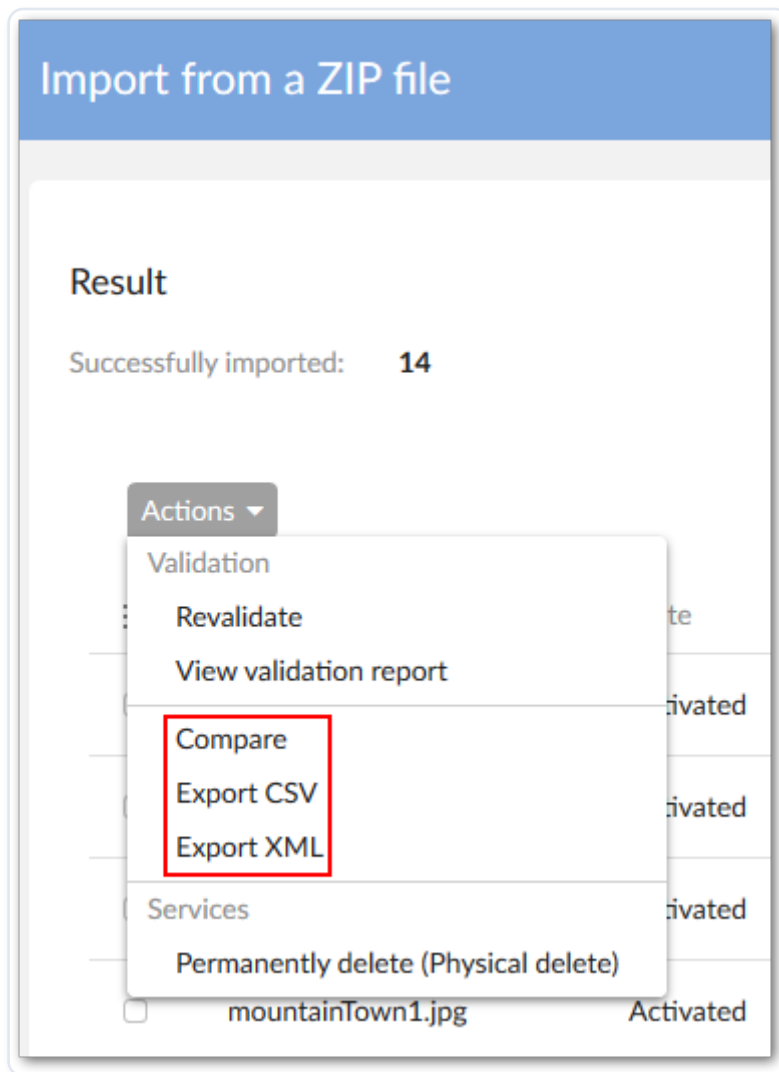
To perform a bulk upload of assets, you must have access to the **Administration** panel. Additionally, to automatically attach assets, you must have access to the most recent version of the EBX® Data Exchange Add-on (New).

Bulk upload

To perform a bulk upload:

1. Navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on > Digital asset* and selecting the **Digital asset** table.
2. Open the **Actions** menu and select the **Import from a ZIP file** service.
3. Fill in the required fields:
 - Browse to select the desired file.
 - Specify the upload location using the **Drive** menu.
 - Set the action to take if existing folders are encountered: keep the existing, and the imported folders; replace the existing folders with the imported folders. Note this option is only available when importing to a Drive managed by EBX®.
4. After clicking **Import**, the add-on keeps you apprised of its progress and displays a result page upon successful completion.

- From the **Result** page's **Actions** menu (shown below), you can export a report of the results, or select multiple records to compare. Also, if the import fails, you can download a copy of the log file.



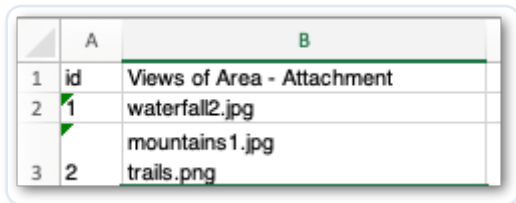
Attaching assets with batch processing

The EBX® Data Exchange Add-on (New) can automatically attach assets using the CSV or Excel import services. When performing the import, you use the **Digital asset UUID lookup** transformation function in the **Mapping** screen.

Pre-requisites:

- A working EBX Digital Asset Manager Add-on configuration, including Drive and D.A.C., that links the Drive to the table location where you want to attach assets.
- The Drive linked to the table must already contain the assets you want to attach.
- The latest version of the EBX® Data Exchange Add-on (New)

- A CSV or Excel file to map record primary keys and physical file names of assets. This file specifies where to attach assets and must include the following:
 - Columns that correspond to the primary key and Media-type fields of the records that you want to attach assets to. For example, in the following image the first column is the table's PK and the second is the media-type field.



	A	B
1	id	Views of Area - Attachment
2	1	waterfall2.jpg
		mountains1.jpg
3	2	trails.png

- The fields in the Media-type column must contain a list of the file names of assets already uploaded to a Drive. Only exact names are valid and must include the file extension. Use the list separator defined in the EBX® Data Exchange Add-on to distinguish between file names in the list.

Attention:

To obtain a CSV or Excel file with all primary keys and the columns ready for assets, you can perform an export with only the PK and media-type fields mapped.

The following instructions describe how to export a file containing the primary keys and corresponding asset file names, and then use an import operation to automatically attach assets. If you already have a file with primary keys and file names mapped, skip to Step 2.

1. Export primary key and Media-type fields:
 - a. Navigate to the table where assets are already attached to fields.
 - b. From the table's **Actions** menu, select *Data Exchange (New) > Export CSV* or *Export Excel*.
 - c. Select **Mapping**.
 - d. Delete all mappings, except for the primary key field. You can optionally delete all fields in the target table, except for the primary key and Media-type fields.
 - e. From the list **Transformation functions**, under **Cross reference**, drag the **Digital asset name lookup** function to the mapping area.
 - f. In the source table on the left, expand the Media-type field, and drag its connection point to the input of the transformation function.

- g. Connect the output of the transformation function to the corresponding field in the target table.
- h. Click **Export** and save the file.

2. Import generated the file to automatically attach assets:

- a. Navigate to the table where you want to import assets.
- b. From the table's **Actions** menu, select *Data Exchange (New) > Import CSV or Import Excel*.
- c. Use the **Source** option to select the file containing the primary keys and lists of assets.
- d. Select **Mapping**.
- e. Apply the **Digital asset UUID lookup** transformation function:

Note that if a mapping was automatically generated, you must delete it before completing the following steps.

- i. From the list **Transformation functions**, under **Cross reference**, drag the **Digital asset UUID lookup** function to the mapping area.
- ii. In the source table on the left, drag the connection point from the field containing the list of assets to the input (left side) of the transformation function.
- iii. Connect the output of the transformation function to the Media-type field in the target table.
- f. Select **Import**.

If an error occurs for individual records or assets, the import will continue with the other records and assets. Any errors that occur display on the import result screen.

Displaying images in EBX® Tile view

Overview

You can create a tile view in EBX® that displays a field's digital asset (only image file types are supported). In the data model, you must ensure that the media type field is a group containing a single field with its **Maximum number of values** property is set to **1**.

To create a tile view:

1. Open the table you want to create the view for, select *View > Create a new view*.

2. For the **View mode** select **Tile view**, fill in any other desired information, and click **Next** at the bottom of the screen.
3. Enter the view's required title and click the icon next to the **Image** field.
4. Click the wand icon to set the **Default image URL** or **URL** and select **Media type** from the menu.

A suggested configuration might be to set the **URL** field to display attached images and to set the **Default image URL** to a static resource. This setup will display a default image whenever a media type field doesn't have an attached asset or the attachment can't be found.

5. After making any desired changes to the other settings, select **Create and apply** at the bottom of the screen.

Mapping CJK Fonts

- [Overview](#)
- [Configuration Steps](#)
 - [Object property Descriptions](#)

Overview

To ensure correct handling of multilingual Chinese, Japanese, and Korean (CJK) characters, create a CJK font mapping file and reference it in your `ebx.properties` file.

Attention:

The JSON file used for the mapping must be saved using UTF-8 encoding to correctly handle multilingual CJK characters.

Configuration Steps

To create a mapping file referenced by `ebx.properties`:

1. Use the `ebx.addon.dama.cjk.font.mapping.file.path` to set the path to the CJK font mapping JSON file in your `ebx.properties` file. Use an absolute or relative path. For example:

```
ebx.addon.dama.cjk.font.mapping.file.path=C:\fonts\cjk-font-mapping.json
```

2. Create the JSON font mapping file. This file must contain an array of objects, where each object defines a CJK font mapping.

Example of the JSON structure:

```
[
  {
    "fontName": "Yu Mincho",
    "cjkName": "游明朝",
    "path": "C:\\fonts\\yumin.ttf"
  },
  {
    "fontName": "Noto Sans CJK JP",
    "cjkName": "源ノ角ゴシック",
    "path": "/opt/fonts/NotoSansCJKjp.otf"
  },
  {
    "fontName": "Malgun Gothic",
    "cjkName": "맑은 고딕",
    "path": "C:\\fonts\\malgun.ttf"
  }
]
```

See below for descriptions of the [JSON object properties](#).

3. Ensure the following conditions are met for the font files:

- The font file specified in the `path` property exists locally and is readable by the TIBCO EBX® Digital Asset Manager Add-on.
 - File permissions allow the Add-on to access the font file. On Windows, ensure no other process is locking the file.
 - The following font file types are supported: `.ttf` and `.otf`.
4. Validate the JSON file for correct syntax and encoding. If the file is missing, unreadable, or invalid, errors will be logged and the font mapping will not be applied.

Object property Descriptions

The following properties are used within each object in the JSON array:

- **fontName** The English name of the font.
- **cjkName** The corresponding Chinese, Japanese, or Korean font name. Mixed scripts are supported.
- **path** The absolute or relative path to the font file on the local file system.

Migrating to version 6

Use the following steps to migrate the add-on from a version that is compatible with EBX® 5.9.X to a version compatible with 6:

1. In the environment containing the old version of the add-on, navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on*.
2. From the **Actions** menu, select *Archives > Export*.
3. In the environment containing the new version of the add-on, navigate to *Administration > User interface > TIBCO EBX® Digital Asset Manager Add-on*.
4. From the **Actions** menu, select *Archives > Export*.

Note that since there is not a direct mapping of all properties from version 5 to 6, some tables will have errors. Complete the following step to resolve these errors.

5. From the **Actions** menu, select **Migrate digital asset manager data**.

The following lists some of the terminology changes take place between versions 5 and 6 (other changes are very minor):

- Drive type --> Connector

- File system --> Default connector
- External management --> External manager
- Display configuration --> Record detail view
- Editor configuration --> Drive view configuration

Developer Guide

- [REST overview](#)
- [REST service operations \(deprecated\)](#)
- [Setting the URL expiration for assets](#)
- [Alternative storage locations](#)
 - [Connecting to alternative storage locations](#)
 - [Example Implementation](#)
- [Java API](#)

REST overview

- [Introduction](#)
- [Special character encoding](#)
- [Generating the OpenAPI Specification](#)

Introduction

The TIBCO EBX® Digital Asset Manager Add-on allows access to its services using a RESTful API. The add-on follows the OpenAPI Specification (OAS) to document its REST API. This allows you to use tools such as Swagger to generate and interact with our REST documentation. It is not our intent to document how to use these tools here. However, the following example shows one of the more basic ways to view the REST API documentation.

Special character encoding

The add-on uses custom rules where special characters in primary keys or field names must be encoded in the REST call. Instead of beginning the encoding with the `%` symbol, it must use an `_`. For example:

- A `|` character is encoded as `_7C`
- A `_` character is encoded as `_5F`
- A `/` character is encoded as `_2F`

Generating the OpenAPI Specification

To generate the add-on's OAS:

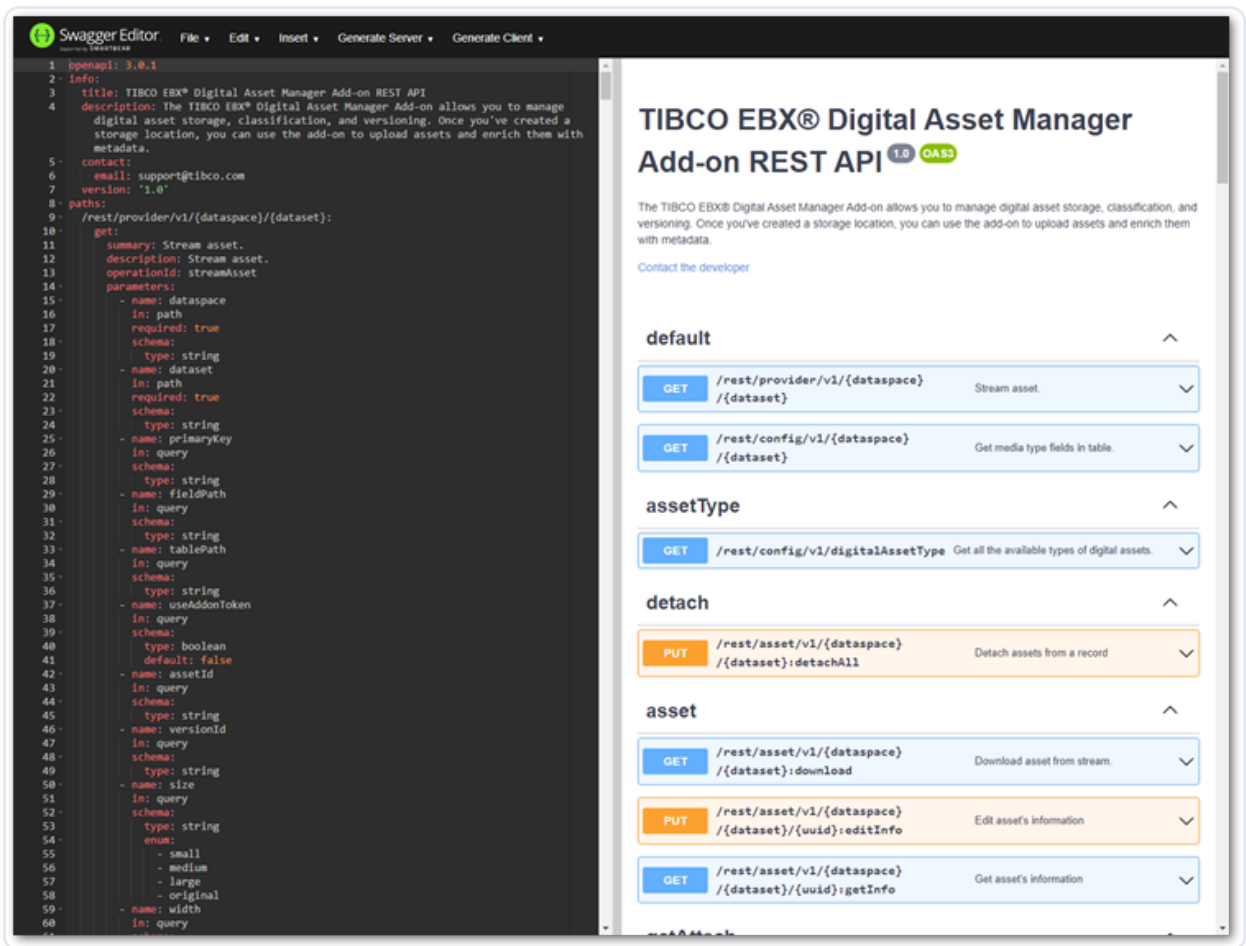
1. Use a tool such as Postman to send a GET request to one of the following endpoints on your EBX® server:

Note:

Your EBX® log in credentials are also required to access the following endpoints and can be entered in your REST client. For example, via Postman's **Authorization** tab.

- <http://:/ebx-addon-dama/rest/v1>
 - <http://:/ebx-addon-dama/rest/v2> This version includes endpoints that support searching for assets using multiple types and extensions and criteria matching.
 - <http://:/ebx-addon-dama/rest/v3> This version includes endpoints that support searching for assets in folder.
2. Ensure the response is formatted in JSON.
 3. Save the response to a file.
 4. Open a web browser and navigate to Swagger Editor: <https://editor.swagger.io/>.
 5. Select *File > Import file* to import the add-on's specification.

The editor displays the formatted text on the left and HTML on the right.



Setting the URL expiration for assets

When you use the REST or Java API to get an asset's URL, that token is only valid for a set amount of time. You can specify the time limit in the `ebx.properties` file by changing the value of `ebx.addon.dama.rest.token.timeout`. This property defaults to a value of 1800 seconds (30 minutes).

Alternative storage locations

- [Connecting to alternative storage locations](#)
- [Example Implementation](#)

Connecting to alternative storage locations

- [Overview](#)
- [High-level flow](#)
- [Implementing registration and definition classes](#)
 - [Custom Connectors](#)

- [External Manager Connectors](#)

Overview

The add-on's API allows you to access alternative asset storage locations. An "alternative" storage location could be one which requires credentials and a third-party API to access. For example, assets might be stored in the cloud on Google Drive or AWS. Alternatively, you may already use a third-party tool to manage digital assets but, you want to enable data model access to these assets. Since these types of locations and use cases require management outside of EBX®, we refer to these as *externally managed storage locations*.

The headings below outline high-level implementation steps. See [Example Implementation](#) for an example implementation.

High-level flow

Several steps are required to implement access to an externally managed storage location. Those in a developer role perform most steps; as noted below, EBX® administrators complete others:

- Implement the following:
 - A class that provides add-on functionality for external storage locations. This class can also specify asset tags and search functionality.
 - A definition of the class that implements the add-on's API. EBX® must register this definition class on repository startup or from a user-run service.
 - Any classes required by third-party tools. For example, helper classes that contain connection credential and error handling information.
- Ensure that any required libraries are deployed in the same location as your `ebx.jar` file. This would include any JAR files containing your classes that implement the add-on's API. See the EBX® *Development Guide* for more information on deployment requirements.
- Steps an EBX® administrator must complete in the UI:
 - If required, run the service that registers the external storage management class.
 - Create an add-on Drive and configure it to use external storage. Ensure proper settings for user permissions.
 - Create a D.A.C. to link the data model field and Drive. Ensure proper settings for user permissions.

For instructions, see [Configuring an external Drive](#).

Implementing registration and definition classes

The following sections describe how to implement:

- Custom Connectors
- External Manager Connectors

Custom Connectors

As shown below, the class you write to specify Drive options for an externally managed location must extend the `StorageManager` abstract class. The methods in this class enable operations on assets stored in an external location.

```
import com.orchestranetworks.addon.dama.common.util.*;

import com.orchestranetworks.addon.dama.ext.*;

import com.orchestranetworks.addon.dama.ext.bean.*;

import com.orchestranetworks.addon.dama.ext.exception.*;

import com.orchestranetworks.addon.dama.ext.resource.*;

import com.orchestranetworks.addon.dama.i18n.*;

public class ExternalStorageManager extends StorageManager
{
    // TODO populate with required methods.

    public ResourceIdentifier upload(Resource resource, ResourceIdentifier
target) throws DAMException
    {
        ...
    }
}
```

```
}
```

The below definition class which extends the add-on's `ConnectorManagerDefinition` can be used to register your external management class. Note that in this class you can also determine whether users can upload assets to the external storage location from the add-on's Drive view.

```
import com.orchestranetworks.addon.dama.ext.*;

import com.orchestranetworks.addon.dama.externalmanagement.search.*;;

import com.orchestranetworks.addon.dama.i18n.*;

public class ExternalConnectorManagerDefinition extends
ConnectorManagerDefinition

{

    // TODO populate with required methods.

    public StorageManager getStorageManager()

    {

        return new ExternalStorageManager();

    }

}
```

To make your Custom Connector storage location implementation available as an option in the UI, it must be registered. You can register the external storage management upon EBX® startup, or by implementing a service. For more information on module and service registration, see the EBX® documentation. To register the external storage manager, add the following code to your registration servlet or service dispatcher:

```
ConnectorManagerRegistry.registerConnector(new
ExternalConnectorManagerDefinition());
```

External Manager Connectors

As shown below, the class you write to specify Drive options for an externally managed location must implement the `ExternalManager` interface. The methods in this interface enable operations on assets stored in an external location.

```
import com.orchestranetworks.addon.dama.ext.exception.*;

import com.orchestranetworks.addon.dama.ext.resource.*;

import com.orchestranetworks.addon.dama.externalmanagement.*;

import com.orchestranetworks.addon.dama.externalmanagement.bean.*;

import com.orchestranetworks.addon.dama.externalmanagement.request.*;

import com.orchestranetworks.addon.dama.externalmanagement.response.*;

public class ExternalStorageDrive implements ExternalManager
{
    // TODO populate with required methods.
}
```

The below definition class which extends the add-on's `ExternalManagerDefinition` can be used to register your external management class. Note that in this class you can also determine whether users can upload assets to the external storage location from the add-on's **Drive** view.

```
import com.orchestranetworks.addon.dama.externalmanagement.*;

public final class ExternalStorageDriveDefinition extends
ExternalManagerDefinition
{
    // Creates a new ExternalManager based on your implementation
}
```

```

    public ExternalManager getExternalManager()

    {

        return new ExternalStorageDrive();

    }


    // Determines whether upload to the external storage location is
    enabled

    public boolean allowUpload()

    {

        return true;

    }

}

```

To make your external storage location implementation available as an option in the UI, it must be registered. You can register the external storage management upon EBX® startup, or by implementing a service. For more information on module and service registration, see the EBX® documentation. To register the external storage manager, add the following code to your registration servlet or service dispatcher:

```
ExternalManagerCatalog.add(new ExternalStorageDriveDefinition());
```

Example Implementation

- [Overview](#)
- [Sample external manager class](#)
 - [Class implementation](#)
 - [Search filter implementation](#)
 - [Asset creation](#)

- Asset deletion
- Asset retrieval
- Asset tags
- Sample definition class
- Registering your manager class
- Including third-party resources

Overview

This section provides a sample configuration by connecting to a Google Drive. Note these requirements are specific to Google Drive at the time of publishing and your requirements will vary depending on how you plan to implement the API.

Sample external manager class

As shown below, you can begin with a manager class that implements the `ExternalManager` interface. The sample includes search functionality, asset display, and other features. Keep in mind that although you can code most add-on features including download, upload and delete, administrators can still define permissions on these actions when creating the Drive and D.A.C in the UI.

Attention:

The samples below have several references to a helper class (not shown) that has been defined to meet requirements specific to making Google Drive API calls. The contents of your helper class will depend on implementation requirements.

The sections below provide the following samples:

- Class implementation
- Search filter implementation
- Asset creation
- Asset deletion
- Asset retrieval
- Asset tags

Class implementation

```
import java.io.*;

import java.math.*;

import java.net.*;

import java.util.*;


import jakarta.activation.*;


import com.onwbp.base.text.bean.*;

import com.orchestranetworks.addon.dama.*;

import com.orchestranetworks.addon.dama.common.*;

import com.orchestranetworks.addon.dama.ext.bean.*;

import com.orchestranetworks.addon.dama.ext.exception.*;

import com.orchestranetworks.addon.dama.ext.exception.DAMException;

import com.orchestranetworks.addon.dama.ext.resource.*;

import com.orchestranetworks.addon.dama.externalmanagement.*;

import com.orchestranetworks.addon.dama.externalmanagement.bean.*;

import com.orchestranetworks.addon.dama.externalmanagement.request.*;

import com.orchestranetworks.addon.dama.externalmanagement.response.*;

import com.orchestranetworks.addon.dama.models.*;

import com.orchestranetworks.addon.utils.*;
```

```

/**

 */

public class ExternalGoogleManager implements ExternalManager
{

    //Instance variable to access the helper class for the Google Drive

    private final Drive googleDrive;

    public ExternalGoogleManager()

    {

        try

        {

            this.googleDrive =
GoogleDriveAPIHelper.getInstance().getDriveService();

        }

        catch (Exception ex)

        {

            throw new RuntimeException(ex);

        }

    }

    //Sample method used to pass asset URL information to other methods

    private String getUrl(String externalId, String fileName, String
extension, boolean isDownload)

```

```

        throws UnsupportedOperationException

    {

        //The network location where EBX is running

        String host = "localhost:8080";

        String providerLink = "http://" + host

            + "/<your module name>/<your service dispatcher>?service=<your
service name>";

        StringBuilder urlDownload = new StringBuilder(providerLink);

urlDownload.append("&external_id=").append(URLEncoder.encode(externalId,
"UTF-8"));

        urlDownload.append("&fileName=")

            .append(URLEncoder.encode(this.getFileName(fileName,
extension), "UTF-8"));

        urlDownload.append("&extension=").append(extension);

        if (isDownload)

        {

urlDownload.append("&download=").append(Boolean.TRUE.toString());

        }

        return urlDownload.toString();

    }

```

```

    private LabelDescription getLabelDescription(String name, List<Locale>
locales)

    {

        if (AddonStringUtils.isEmpty(name))

        {

            name = DAMConstants.EMPTY_STRING;

        }

        List<LabelDescriptionForLocale> labelDescriptionForLocales = new
ArrayList<>();

        for (Locale locale : locales)

        {

            LabelDescriptionForLocale labelDesLocale = new
LabelDescriptionForLocale();

            labelDesLocale.setLocale(locale);

            labelDesLocale.setLabel(name);

            labelDesLocale.setDescription(name);

            labelDescriptionForLocales.add(labelDesLocale);

        }

        LabelDescription labelDescription = new LabelDescription();

        labelDescription.setLocalizedDocumentations(labelDescriptionForLocales);

```

```

        return labelDescription;
    }
}

```

Search filter implementation

```

public ExternalSearchAssetsResult searchAssets(ExternalSearchRequest
searchRequest)

{

    ExternalSearchAssetsResult result = new ExternalSearchAssetsResult();

    SearchFilter searchFilter = searchRequest.getSearchFilter();

    String keyword = (searchFilter == null) ? DAMConstants.EMPTY_STRING

        : searchFilter.getKeyword();

    try

    {

        FileList fileList =
this.googleDrive.files().list().setFields("*").execute();

        List<File> allFiles = fileList.GetFiles();

        List<File> filteredFiles = new ArrayList<>();

        for (File file : allFiles)

        {

            if (AddonStringUtils.isEmpty(keyword))

            {

```

```

        filteredFiles.add(file);

    }

    else

    {

        if (file.getName().contains(keyword)

            || file.getOriginalFilename().contains(keyword))

        {

            filteredFiles.add(file);

        }

    }

}

int size = filteredFiles.size();

int pageIndex = (searchRequest.getPageIndex() < 1) ? 1 :
searchRequest.getPageIndex();

int pageSize = (searchRequest.getPageSize() < 10) ? 10 :
searchRequest.getPageSize();

int startIndex = (pageIndex - 1) * pageSize;

int endIndex = startIndex + pageSize - 1;

if (endIndex > size - 1)

{

    endIndex = size - 1;

}

```

```

List<ExternalDigitalAsset> externalAssets = new ArrayList<>();

for (int i = startIndex; i <= endIndex; i++)

{

    File googleFile = filteredFiles.get(i);

    String downloadUrl = this.getUrl(

        googleFile.getId(),

        googleFile.getName(),

        googleFile.getFileExtension(),

        true);

    String previewUrl = this.getUrl(

        googleFile.getId(),

        googleFile.getName(),

        googleFile.getFileExtension(),

        false);

    ExternalDigitalAsset externalAsset = new
ExternalDigitalAsset();

    externalAsset.setLabelDescription(

        this.getLabelDescription(

            googleFile.getName(),

searchRequest.getHome().getRepository().getLocales()));

    externalAsset.setURL(previewUrl);

    externalAsset.setThumbnailURL(googleFile.getThumbnailLink());

```

```

        externalAsset.setDownloadURL(downloadUrl);

        externalAsset.setExtension(googleFile.getFileExtension());

        externalAsset.setAssetType(googleFile.getFileExtension());

        externalAsset.setId(googleFile.getId());

        externalAsset.setPhysicalName(googleFile.getName());

        externalAsset.setCreationDate(new
Date(googleFile.getCreatedTime().getValue()));

        externalAsset.setLastUpdatedDate(new
Date(googleFile.getModifiedTime().getValue()));

        externalAsset.setFileSize(new
BigDecimal(googleFile.getSize().longValue()));

        Map<String, String> metaDataMap = new HashMap<>();

        metaDataMap.put("mKey1", "mValue1");

        metaDataMap.put("mKey2", "mValue2");

        externalAsset.setMetaDatas(metaDataMap);

        externalAsset.setWidth(new Integer(300));

        externalAsset.setHeight(new Integer(200));

        externalAssets.add(externalAsset);
    }

    // Specifies the total digital assets of search results.

    result.setTotal(1000)

    result.setAssets(externalAssets);

```

```

    }

    catch (Exception ex)

    {

        throw new RuntimeException(ex);

    }

    return result;

}

```

Asset creation

```

public ExternalDigitalAsset createAsset(ExternalUploadAssetRequest
request)

{

    ExternalDigitalAsset asset = new ExternalDigitalAsset();

    File googleFile = new File();

    FileResource fileResource = request.getFileResource();

    String fileName = fileResource.getFile().getName();

    googleFile.setName(fileName);

    FileContent mediaContent = new FileContent(

        new MimeTypeMap().getContentType(fileName),

        fileResource.getFile());

    try

    {

```

```

        File googleFileUploaded = this.googleDrive.files()

            .create(googleFile, mediaContent)

            .setFields("*")

            .execute();

        asset.setId(googleFileUploaded.getId());

        asset.setPhysicalName(googleFileUploaded.getOriginalFilename());

        asset.setThumbnailURL(googleFileUploaded.getThumbnailLink());

        asset.setLabelDescription(

            this.getLabelDescription(

                googleFileUploaded.getName(),

                request.getHome().getRepository().getLocales()));

    }

    catch (IOException ex)

    {

        throw new RuntimeException(ex);

    }

    return asset;

}

```

Asset deletion

```
public OperationExecutionStatus deleteAsset(
    ExternalSingularRequest request,
    boolean isPhysicalDelete)
{
    OperationExecutionStatus status = new OperationExecutionStatus();
    try
    {
        this.googleDrive.files().delete(request.getExternalId()).execute();
    }
    catch (IOException ex)
    {
        status = new OperationExecutionStatus(new
        DAMException(ex.getMessage()));
    }

    return status;
}
```

Asset retrieval

```
public ExternalDigitalAsset getAsset(ExternalSingularRequest request)
throws DAMException
{

```

```

        ExternalDigitalAsset digitalAsset = new ExternalDigitalAsset();

        try
        {

            File file = this.googleDrive.files()

                .get(request.getExternalId())

                .setFields("")

                .execute();

            String urlDownload = this

                .getUrl(file.getId(), file.getName(), file.getFileExtension(),
true);

            String previewUrl = this

                .getUrl(file.getId(), file.getName(), file.getFileExtension(),
false);

            digitalAsset.setId(file.getId());

            digitalAsset.setPhysicalName(file.getOriginalFilename());

            digitalAsset.setLabelDescription(

                this.getLabelDescription(

                    file.getName(),

                    request.getHome().getRepository().getLocales()));

            digitalAsset.setURL(previewUrl);

            boolean isImage =
DigitalAssetExtension.parseExtension(file.getFileExtension())

```

```

        .getDigitalAssetContentType()

        .isImage();

    if (isImage)

    {

        digitalAsset.setThumbnailURL((previewUrl));

    }

    else

    {

        digitalAsset.setThumbnailURL(file.getThumbnailLink());

    }

    digitalAsset.setDownloadURL(urlDownload);

    digitalAsset.setAssetType(file.getFileExtension());

    digitalAsset.setExtension(file.getFileExtension());

    digitalAsset.setCreationDate(new
Date(file.getCreatedTime().getValue()));

    digitalAsset.setLastUpdatedDate(new
Date(file.getModifiedTime().getValue()));

    digitalAsset.setFileSize(new
BigDecimal(file.getSize().longValue()));

    Map<String, String> metaDataMap = new HashMap<>();

    metaDataMap.put("mKey1", "mValue1");

    metaDataMap.put("mKey2", "mValue2");

    digitalAsset.setMetaDatas(metaDataMap);

```

```

        digitalAsset.setWidth(new Integer(300));

        digitalAsset.setHeight(new Integer(200));

    }

    catch (IOException ex)

    {

        throw new DAMException(ex);

    }

    return digitalAsset;

}

public List<ExternalDigitalAsset> getAssets(ExternalPluralRequest
externalRequest)

{

    List<ExternalDigitalAsset> externalAssets = new ArrayList<>();

    for (String externalId : externalRequest.getExternalIds())

    {

        try

        {

            File file;

            try

            {

```

```

        file =
this.googleDrive.files().get(externalId).setFields("*").execute();

    }

    catch (Exception ex)

    {

        continue;

    }

    ExternalDigitalAsset externalDigitalAsset = new
ExternalDigitalAsset();

    externalDigitalAsset.setId(file.getId());

externalDigitalAsset.setPhysicalName(file.getOriginalFilename());

    externalDigitalAsset.setCreationDate(new
Date(file.getCreatedTime().getValue()));

    externalDigitalAsset

        .setLastUpdatedDate(new
Date(file.getModifiedTime().getValue()));

    externalDigitalAsset.setLabelDescription(

        this.getLabelDescription(

            file.getName(),

externalRequest.getHome().getRepository().getLocales()));

    String urlDownload = this

        .getUrl(file.getId(), file.getName(),

```

```

file.getFileExtension(), true);

        String previewUrl = this

                .getUrl(file.getId(), file.getName(),
file.getFileExtension(), false);

        externalDigitalAsset.setURL(previewUrl);

        externalDigitalAsset.setThumbnailURL(file.getThumbnailLink());

        externalDigitalAsset.setWidth(new Integer(300));

        externalDigitalAsset.setHeight(new Integer(200));

        externalDigitalAsset.setDownloadURL(urlDownload);

        externalDigitalAsset.setAssetType(file.getFileExtension());

        externalDigitalAsset.setExtension(file.getFileExtension());


        Map<String, String> metaDatas = new HashMap<>();

        metaDatas.put("metadata1", "metadata1");

        metaDatas.put("metadata2", "metadata2");

        externalDigitalAsset.setMetaDatas(metaDatas);


        externalDigitalAsset.setTags(Arrays.asList("tag1", "tag2"));


        externalAssets.add(externalDigitalAsset);

    }

    catch (IOException ex)

    {

```

```

        throw new RuntimeException(ex);

    }

}

return externalAssets;

}

```

Asset tags

```

public ExternalTagResult getTags(ExternalCommonRequest request)
{
    ExternalTagResult externalTagResult = new ExternalTagResult();

    Tag tag1 = new Tag();
    tag1.setCode("tag1");
    tag1.setFontSize("14");
    externalTagResult.getTags().add(tag1);

    Tag tag2 = new Tag();
    tag2.setCode("tag2");
    tag2.setFontSize("16");
    externalTagResult.getTags().add(tag2);
}

```

```

        return externalTagResult;
    }

```

Sample definition class

The following code sample shows how to instantiate the class you implemented above.

Additionally, note that you can use the `allowUpload()` to determine whether users can upload to the external storage location.

```

import com.orchestranetworks.addon.dama.externalmanagement.*;

public final class ExternalGoogleManagerDefinition extends
    ExternalManagerDefinition
{
    // Creates a new ExternalManager based on your implementation

    public ExternalManager getExternalManager()
    {
        return new ExternalGoogleManager();
    }

    // Determines whether upload to the external storage location is
    enabled

    public boolean allowUpload()
    {
        return true;
    }
}

```

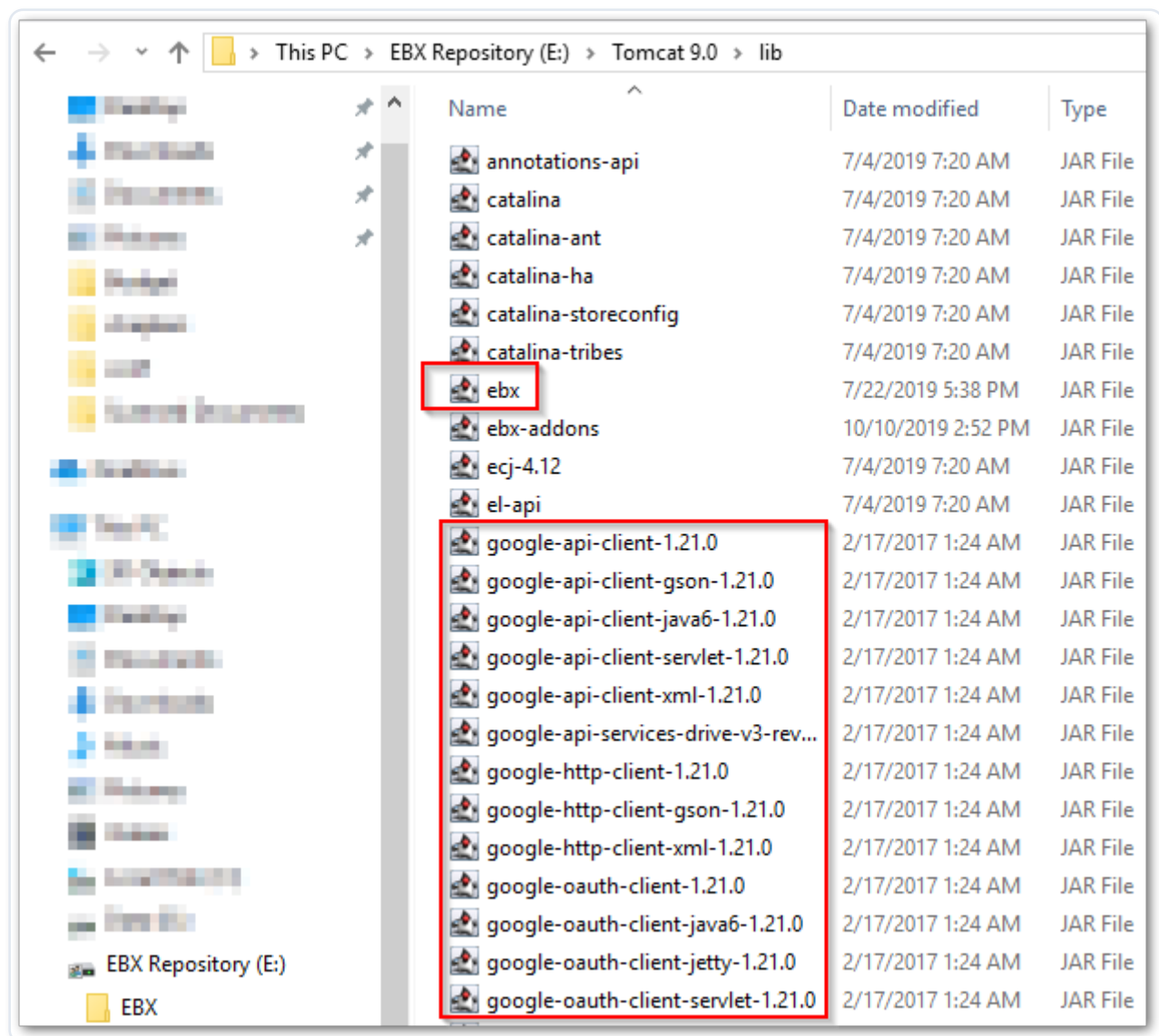
}

Registering your manager class

You can register your custom class either on repository startup or by running a service in the UI. For information on how to declare a module (for startup registration) or declare a user service, please see the *TIBCO EBX® Developer Guide*.

Including third-party resources

Any resources required by a third-party should be added to the same location as your `ebx.jar` file. As shown below the required libraries for the Google Drive API are deployed in Tomcat along with EBX®.



Java API Reference

- [TIBCO EBX® Add-ons 6.2.3 Java API](#)

Reference Guide

- [Add-on specific services](#)

Add-on specific services

Overview of add-on specific services

The TIBCO EBX® Digital Asset Manager Add-on provides several custom services that allow you to perform asset management-specific actions. To access these services open the **Actions** menu for the specified dataset, or table. The following describes the location of each service and its scope:

TIBCO EBX® Digital Asset Manager Add-on dataset

NAME/LOCATION/SCOPE	DESCRIPTION
The Migrate digital asset manager data service applies to the dataset.	Migrates previous add-on versions to the latest version.
The Create D.A.C. for data model service applies to the dataset.	Automatically creates a D.A.C. for a data model you specify. Before running the service, ensure that the data model contains a 'media type' field.
The Manage digital assets service applies to all assets in all Drives.	Allows you full control over any asset in any Drive.
The Backup service applies to the dataset.	Creates a backup of your digital assets.
The Restore service applies to the dataset.	Allows you to restore digital assets.

Drivetable

NAME/LOCATION/SCOPE	DESCRIPTION
The Delete all digital assets in selected drive(s) service applies to selected records.	Deletes all digital assets contained in the selected Drives.

NAME/LOCATION/SCOPE	DESCRIPTION
Change physical root path	Allows you to change the selected Drive's physical root path.

Digital assettable

NAME/LOCATION/SCOPE	DESCRIPTION
Identify unused assets	Locates any unused assets and filters the table display so that only those records display. An unused asset is one that is not attached to a field.
Import from a ZIP file	Allows you to perform a bulk import of assets from a ZIP file.
Export to a ZIP file	Allows you to export a selection of assets to a ZIP file.
The Create new version service applies to selected records.	Creates a new version of the selected asset.
The Upload new digital asset service applies to the table.	Allows you to upload a new digital asset.
The Activate service applies to the selected assets.	Allows you to active an asset from this screen.
The Deactivate (Logical delete) service applies to selected records.	Changes the selected asset's state to 'Deactivated'. You can return the asset to 'Activated', or another state by opening the asset and using the 'State' drop-down list.
The Permanently delete (Physical delete) service applies to selected records.	Physically removes the digital asset from the Drive.

Digital asset versiontable

NAME/LOCATION/SCOPE	DESCRIPTION
The Create new version service applies to the table.	Allows you to upload a new version of an asset.
The Delete digital asset version applies to selected records.	Physically removes the digital asset version.

Notices

- [Documentation and Support](#)
- [Legal and Third-Party](#)

Documentation and Support

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

- [How to Access TIBCO Documentation](#)
- [Product-Specific Documentation](#)
- [How to Contact Support for TIBCO Products](#)
- [How to Join TIBCO Community](#)

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Product-Specific Documentation

The documentation for the TIBCO EBX® is available on the [TIBCO EBX® Product Documentation](#) page. This page contains the latest version of each document.

The documentation for the TIBCO EBX® Add-ons is available on the [TIBCO EBX® Add-ons Product Documentation](#) page. This page contains the latest version of each document.

To view the documents for Add-on Bundles that are compatible with other versions of TIBCO EBX®, use the **Bundle version** menu to select the desired release.

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Release Notes

- [Version 6.2.3](#)
- [All release notes](#)

Version 6.2.3

- [New features](#)
- [Changes in Functionality](#)
- [Changes to third-party libraries](#)
- [Closed Issues](#)
- [Known Issues](#)

New features

This release contains the following new features:

Microsoft Entra ID support

Support has been added to enable Drive connections to Azure Blob Storage using Microsoft Entra ID (formerly Azure AD) with client secret credentials. When the `ebx.addon.dama.azure.tenant.id`, `ebx.addon.dama.azure.client.id`, and `ebx.addon.dama.azure.client.secret` properties are set, the connector authenticates via Entra ID. Otherwise, credentials default back to a storage account key. This added support enhances security (least privilege, rotation, auditability) by avoiding broad shared key usage. See the [Azure connection documentation](#) for details.

See also:

	• Connecting to Azure (authentication methods)
Improved metadata display	The Digital asset information tab now shows additional metadata: file size, image width, and image height. • Size is displayed in human-readable units (e.g., 1024KB → 1MB, 1024MB → 1GB). • For image and video assets, width and height are shown when available.
Usability improvements	Improvements in this release include: • Users can now perform folder management actions directly in the Folder navigation pane without leaving the view. This streamlines common workflows and reduces context switching. Available actions include: ◦ Creating a new folder in a specific Drive. ◦ Creating a new subfolder inside a folder. ◦ Editing a folder name. ◦ Deleting a folder (subject to permissions). • Users can now rapidly de-select assets in the Manage digital assets screen. Clicking anywhere in the workspace outside of asset thumbnails, or list rows now clears the current asset and folder selection.

Asset metadata synchronization	Asset metadata background synchronization has been included for assets added via a third-party server. This ensures the Digital asset information tab displays accurate dimensions for externally synchronized assets and improves consistency across Drives.
Font mapping support	Support has been introduced for custom Chinese, Japanese, Korean (CJK) font mapping in document previews. Administrators can provide a font mapping JSON file via the <pre>ebx.addon.dama.cjk.font.mapping.file.path</pre> property to map CJK font names to installed system fonts. This improves text rendering quality and coverage for CJK in DOCX-to-PDF conversion and other document preview workflows. See also: • Configuring CJK Font Mapping

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

Generating an asset permalink now opens a pop-up dialog showing the URL in a read-only field with a copy action and feedback. Previously, permalinks were generated silently without a dialog.

Changes to third-party libraries

This release contains the following changes to third-party libraries:

- Added `com.drewnoakes:metadata-extractor` dependency at version 2.19.0 to improve image and media metadata extraction (dimensions, EXIF).
- The Apache Commons Lang library was updated to version 3.20.0.
- `io.netty:netty-all` was updated to version 4.2.9.Final.
- `com.azure:azure-identity` was updated to version 1.18.1.
- Jackson Core was updated to version 2.21.1.
- Jakarta Servlet was updated to version 6.0.

Closed Issues

This release contains the following closed issues:

- Assets are uploaded normally even when navigate away before clicking **Upload** or **Upload and attach**.
- When using the REST API and updating or creating a record with no attached assets, the `getAttachment` response is incorrect.
- When a preview cannot be generated, the **No preview available** screen should display instead of a file not found error.
- The collapse/expand icon is missing in record details view when using the list view to display thumbnails.
- The tooltip for the **File size** column in the **Digital asset version** table is incorrect.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- When uploading assest from a Connector, the add-on is not able to recognize duplicate assets that were uploaded (not using the add-on) to an externally managed server.

- It is possible that some DOCX file previews might not generate when Microsoft Word is not installed. This is due to missing font files.
- If the **Cancel** button is clicked during a delete operation on 100 or more assets, the operation is not cancelled and assets are still deleted.
- When attempting to delete assets from 2 Drives in the same operation and one of the Drive's has an authentication issue, the displayed result states that all deletions failed. However, some assets are still deleted and the asset thumbnails in the UI display a `File not found` error.
- In certain cases the add-on is not able to preview DOCX files. This can occur when the file contains invalid characters, or unsupported elements, such as charts, floating tables, or other complex elements.
- In instances where PPTX files contain complex shapes, the add-on cannot generate a preview. This is due to a third-party technical limitation.
- The first time a large file is previewed, users might experience a delay while the preview is generated.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

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Version 6.2.3

New features

This release contains the following new features:

Microsoft Entra ID support	Support has been added to enable Drive connections to Azure Blob Storage using Microsoft Entra ID (formerly Azure AD) with client secret credentials. When the <code>ebx.addon.dama.azure.tenant.id</code> , <code>ebx.addon.dama.azure.client.id</code> , and <code>ebx.addon.dama.azure.client.secret</code> properties are set, the connector authenticates via Entra ID. Otherwise, credentials default back to a storage account key. This added support enhances security (least privilege, rotation, auditability) by avoiding broad shared key usage. See the Azure connection documentation for details. See also: • Connecting to Azure (authentication methods)
Improved metadata display	The Digital asset information tab now shows additional metadata: file size, image width, and image height.

	• Size is displayed in human-readable units (e.g., 1024KB → 1MB, 1024MB → 1GB). • For image and video assets, width and height are shown when available.
Usability improvements	Improvements in this release include: • Users can now perform folder management actions directly in the Folder navigation pane without leaving the view. This streamlines common workflows and reduces context switching. Available actions include: ◦ Creating a new folder in a specific Drive. ◦ Creating a new subfolder inside a folder. ◦ Editing a folder name. ◦ Deleting a folder (subject to permissions). • Users can now rapidly de-select assets in the Manage digital assets screen. Clicking anywhere in the workspace outside of asset thumbnails, or list rows now clears the current asset and folder selection.
Asset metadata synchronization	Asset metadata background synchronization has been included for assets added via a third-party server. This ensures the Digital asset information tab displays accurate dimensions for externally synchronized assets and improves consistency across Drives.

Font mapping support

Support has been introduced for custom Chinese, Japanese, Korean (CJK) font mapping in document previews.

Administrators can provide a font mapping JSON file via the

`ebx.addon.dama.cjk.font.mapping.file.path`

property to map CJK font names to installed system fonts. This improves text rendering quality and coverage for CJK in DOCX-to-PDF conversion and other document preview workflows.

See also:

- [Configuring CJK Font Mapping](#)

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

Generating an asset permalink now opens a pop-up dialog showing the URL in a read-only field with a copy action and feedback. Previously, permalinks were generated silently without a dialog.

Changes to third-party libraries

This release contains the following changes to third-party libraries:

- Added `com.drewnoakes:metadata-extractor` dependency at version 2.19.0 to improve image and media metadata extraction (dimensions, EXIF).
- The Apache Commons Lang library was updated to version 3.20.0.
- `io.netty:netty-all` was updated to version 4.2.9.Final.
- `com.azure:azure-identity` was updated to version 1.18.1.

- Jackson Core was updated to version 2.21.1.
- Jakarta Servlet was updated to version 6.0.

Closed Issues

This release contains the following closed issues:

- Assets are uploaded normally even when navigate away before clicking **Upload** or **Upload and attach**.
- When using the REST API and updating or creating a record with no attached assets, the `getAttachment` response is incorrect.
- When a preview cannot be generated, the **No preview available** screen should display instead of a file not found error.
- The collapse/expand icon is missing in record details view when using the list view to display thumbnails.
- The tooltip for the **File size** column in the **Digital asset version** table is incorrect.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- When uploading asset from a Connector, the add-on is not able to recognize duplicate assets that were uploaded (not using the add-on) to an externally managed server.
- It is possible that some DOCX file previews might not generate when Microsoft Word is not installed. This is due to missing font files.
- If the **Cancel** button is clicked during a delete operation on 100 or more assets, the operation is not cancelled and assets are still deleted.
- When attempting to delete assets from 2 Drives in the same operation and one of the Drive's has an authentication issue, the displayed result states that all deletions failed. However, some assets are still deleted and the asset thumbnails in the UI display a `File not found` error.

- In certain cases the add-on is not able to preview DOCX files. This can occur when the file contains invalid characters, or unsupported elements, such as charts, floating tables, or other complex elements.
- In instances where PPTX files contain complex shapes, the add-on cannot generate a preview. This is due to a third-party technical limitation.
- The first time a large file is previewed, users might experience a delay while the preview is generated.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.2.2

New features

This release contains the following new features:

- As a convenient way for an administrator to get an asset's UUID, it now displays in the UI as one of the attributes when viewing an asset in the **Digital asset** table.
- New REST API endpoints enable programmatic management and interaction with folders. This enhancement aligns folder-related REST operations with existing UI capabilities, improving automation and integration potential. Most endpoints for POST, PUT, and Delete were previously available, but were refactored to accommodate folder-related actions. This release includes the addition of new endpoints were added for GET search and download:
 - `/v1/folder/{dataspace}/{dataset}:search`
 - `/v1/folder/download`

- Previously, the Drive screen only supported a grid view, limiting the amount of visible information per asset and number of assets displayed. Users needed to open asset previews or access the **Version management** tab to see more details. Now you can switch between **Grid view** and **List view** in the Drive screen. The new **List view** displays assets and folders in a table layout with extended details, offering improved information visibility without requiring additional clicks.
- The file size limit for document previews was increased from 5MB to 20MB. Additionally, parts of the document can be previewed without waiting for the entire file to load.
- The documentation now includes instructions for encoding special characters in REST calls. See the *Developer Guide > REST overview* section for details.
- Performance was improved:
 - When deleting digital assets.
 - For operations on dataspace, such as creation, deletion, and dataspace merge.
- Usability improvements:
 - The top level of the **Folder navigation** pane now displays Drives. Users can browse and access folders within different Drives directly from the navigation pane. This change improves navigation by allowing direct access to all available Drives without requiring additional steps or context switching.
 - To make it easier to find a tag when filtering assets in the **Drive** view, tags now display in alphabetical order.
 - A progress bar was added to communicate the real-time status when deleting and uploading assets. Additionally, individual assets now also display progress indicators during the upload process.
 - After asset deletion or upload completes, the following statistics are now displayed for the total number of: processed assets, successfully deleted/uploaded assets, unsuccessfully processed assets.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release contains the following changes in functionality:

- The TIBCO EBX® Digital Asset Manager Add-on no longer supports previews for Word 2003 DOC files. The add-on continues to support preview functionality for Word 2007 and newer DOCX files.
- Previously, retrieving an asset's current version via the Java API always returned the version marked as current in the Drive. This behavior has changed. The API now returns the version that is current in the context of the specified dataset, which may differ from the Drive's current version.

Changes to third-party libraries

This release contains the following changes to third-party libraries:

- Updated Apache POI and related libraries (poi, poi-ooxml, poi-ooxml-full, poi-scratchpad) to version 5.4.1.
- Updated docx4j-JAXB-ReferenceImpl and docx4j-export-fo to version 11.5.2.
- Updated Azure libraries:
 - azure-core-http-netty to version 1.15.12.
 - azure-core to version 1.55.4.
 - azure-identity to version 1.16.2.
- Updated pdfbox, pdfbox-tools, fontbox, preflight, and xmpbox to version 3.0.5.
- Updated batik-all to version 1.18.
- Updated xmlgraphics-commons to version 2.10.

Closed Issues

This release contains the following closed issues:

- Digital assets are accessible via URL without having to log into EBX®.
- File names containing Chinese characters are incorrectly encoded.
- In the **Digital asset table**, users can still delete assets that belong to other users, even when they do not have permission to do so.
- The **Manage digital assets** screen is not accessible via IFrame.

- Only one table archive should be imported when multiple files are required.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- When uploading asset from a Connector, the add-on is not able to recognize duplicate assets that were uploaded (not using the add-on) to an externally managed server.
- It is possible that some DOCX file previews might not generate when Microsoft Word is not installed. This is due to missing font files.
- If the **Cancel** button is clicked during a delete operation on 100 or more assets, the operation is not cancelled and assets are still deleted.
- When attempting to delete assets from 2 Drives in the same operation and one of the Drive's has an authentication issue, the displayed result states that all deletions failed. However, some assets are still deleted and the asset thumbnails in the UI display a `File not found` error.
- In certain cases the add-on is not able to preview DOCX files. This can occur when the file contains invalid characters, or unsupported elements, such as charts, floating tables, or other complex elements.
- In instances where PPTX files contain complex shapes, the add-on cannot generate a preview. This is due to a third-party technical limitation.
- The first time a large file is previewed, users might experience a delay while the preview is generated.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.

- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.2.1

New features

This release contains the following new features:

- The REST API was updated to allow retrieval of an asset using its UUID. The endpoint for this API is: <http://ebx-addon-dama/rest/v1/asset/:getInfo>
- You can now share an asset via its URL. This allows you to share assets with colleagues that might not have access to EBX®. The URL link expiration time defaults to 30 minutes. However, an administrator can adjust this limit in the `ebx.properties` file using the `ebx.addon.dama.rest.token.timeout` property.
- When an administrator imports a ZIP file to an internal Drive, the folder hierarchy is now preserved. If an imported folder already exists in the Drive, you can choose to replace the existing folder, or keep both. Please note that this feature is not available for externally managed Drives (AWS, Microsoft Azure, Sharepoint, etc.).
- A new transformation function was added to the TIBCO EBX® Data Integration Add-on that exports asset file names, instead of their UUIDs. This provides a more streamlined approach to automatically attaching assets with CSV or Excel import operations.
- When searching for assets in a Drive, you can now switch between the **Exact** and **Contains** modes. The selected mode determines whether the search operation only returns results that *exactly* match the keyword, or that the results only *include* the search term.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

This release contains the following changes to third-party libraries:

- The Microsoft Azure Client Library for Identity was updated to version 1.14.1.
- The Kotlin Stdlib was updated to version 2.1.0.
- The Apache Commons IO library was updated to version 2.18.0.

Closed Issues

This release contains the following closed issues:

- It should not be possible to input the version name and comment when these fields are read-only.
- In certain cases, duplicate assets are not uploaded and attached in the tabular view when using the quick upload and attach.
- An issue occurs when trying to delete an asset version from the **** Edit digital asset**** screen.
- Externally managed assets cannot be previewed.
- The **Deactivate** icon does not display when previewing assets from the **Drive** and **Manage digital assets** screen.
- The **Detatch** icon displays even after attempting to attach an asset that is invalid.
- The **Tags** field on the **Upload new digital asset** screen is not aligned correctly.
- All attached assets display in-line in the tabular view.
- The filter criterion screen on the tile view is not aligned correctly.
- An error message displays when a duplicate internal Drive is created and the connector is changed to an externally managed Drive.
- The message does not display correctly when no assets were found in the Drive.
- An uploaded asset is duplicated and a **File not found** message displays on a custom Drive.
- Users can print a PDF using **Ctrl+P** even if the **Share and download** option in the D.A.C is disabled.
- A *File not found* error occurs on an asset preview.
- The correct error message should display when users try to download an image that does not exist from the **Edit digital asset** screen.

- Multiple asset download is not working on EBX® Container Edition.
- An issue occurs in the API when using `EditorFilterContext`.
- An error message is logged when opening a digital asset that is a document.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- It is possible that some DOCX file previews might not generate when Microsoft Word is not installed. This is due to missing font files.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.2.0

New features

This release contains the following new features:

- The add-on's **Migrate digital asset manager data** service can now successfully migrate configuration settings from versions of the add-on compatible with TIBCO EBX® version 5.9.X to version 6.X.

- The **Max usable space** option was added to configuration settings for external connectors. Administrators can use this option to specify how much space is used for Drives in externally managed storage locations.
- The REST API was updated to allow digital asset retrieval using an asset or version UUID. This update means that assets can be retrieved without having to be attached to a record.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The following libraries were updated:

- Jackson Databind was updated to version 2.16.0.
- Microsoft Graph was updated to version 5.8.0.
- Apache Commons Compress was updated to version 1.26.1.
- AWS Java SDK for Amazon S3 was updated to version 1.12.676.
- Nimbus JOSE JWT was updated to version 9.37.2.
- Reactor Netty was updated to version 1.0.45.
- Okio was updated to version 3.6.0.

Closed Issues

This release contains the following closed issues:

- Digital assets do not display after reverting the action of deactivating an attached asset.
- Digital assets still display in certain UI components after being deactivated.
- An error can occur if digital assets are deleted immediately after they are uploaded.
- The wrong asset version displays after changing an asset's version and downloading it.

- An error occurs when previewing a video in multiple UI components.
- The REST API response for `getAllAsset` is missing the `?` separator.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.1.3

New features

This release contains the following new features:

- It is now possible to create a tile view in EBX® that displays an image that is a digital asset.
- The UI when viewing a Drive was enhanced to include a pagination feature that displays the number of pages containing assets and allows you to navigate. Note, that when displaying the pagination information on a Drive connected to an externally managed location, the add-on cannot display the final page of assets if the API isn't implemented correctly. Please ensure the `ExternalSearchRequest` adds the total number of fields.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The Netty library was updated to version 4.1.100.Final.

Closed Issues

This release contains the following closed issues:

- An error message displays when Metadata nature includes the "|" character.
- Other user's assets can be moved to another Drive or folder even when the **Edit other user's assets** permission is disabled.
- **** Sort by Last update**** does not apply for folders when uploading or deleting assets under the folder.
- The add-on's services have fatal errors when deployed on WebLogic.
- The success message after moving only distinct assets is missing.
- A custom or externally managed Drive can be created even when mandatory fields are blank.
- The file not found thumbnail is not displayed in the Drive screen after moving folders that include assets.
- Invalid assets with **Asset name pattern** in DAC configuration for external management can be successfully uploaded and attached.
- The file not found thumbnail displays on the tabular view when deleting folders that include assets.
- Duplicate assets are not recognized when their file extensions have different letter case.
- An issue occurs in `EditorFilterContext`.
- The REST v2 documentation cannot be retrieved.

- Digital assets cannot be previewed from dataspace snapshots.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.1.2

New features

This release contains the following new features:

- You can now specify the expiration time limit for asset URLs in the `ebx.properties` file by changing the value of `ebx.addon.dama.rest.token.timeout`. This property defaults to a value of 1800 seconds (30 minutes). Also note that the `useAddonToken` parameter was removed from all REST endpoints.
- It is now possible to use drag and drop functionality to move assets between folders, and to move folders.
- The ability to change the downloaded size of assets that are images is now available when using the API.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The following third-party libraries were updated:

- The FasterXML jackson core library was updated to version 2.15.2.
- Guava: Google Core Libraries For Java was updated to version 32.0.1-jre
- Netty/All In One: NIO client server framework was updated to version 4.1.94.Final
- Batik aggregate artifact was updated to version 1.17
- Microsoft Azure Client Library For Blob Storage was updated to version 12.23.1

Closed Issues

This release contains the following closed issues:

- Other user's assets can be moved even when the **Edit other user's assets** permission is disabled.
- Multiple assets can not be simultaneously quick attached in the tabular view.
- After successful import, the success screen displays even when re-accessing the **Import from a ZIP file** service in the **Digital asset** table
- The Drive field should be disabled when creating new version from the **Digital asset** table.
- A SharePoint Drive can be created when it links to a folder name from in a different Drive on the EBX® server.
- A SharePoint Drive can be created that links to a document library that doesn't exist.
- When creating a new version of an asset that is the same as the existing asset in a Drive, the two assets cannot be downloaded at the same time.
- A new folder cannot be created within an Amazon S3 Drive.

- The message indicating a successful move does not display after moving only distinct assets.
- Externally managed assets can not be downloaded in the UI.

Known Issues

This release contains the following known issues:

- After a media type field is set to **Hidden in all views** and the data model is published, it is no longer possible to upload or edit assets in that field. This issue occurs even after permissions are set back to **Visible in all views** and the model is re-published.
- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.1.1

New features

This release contains the following new features:

- An option was added to Drive configurations that disables automatic synchronization between the add-on and an external Drive. When this option is disabled, it can help improve performance. You can synchronize manually as needed when viewing the Drive.
- Digital assets can now be migrated using the EBX® staging feature.
- Users with administrative access can now download a ZIP file of selected assets when viewing the **Digital asset** table. This provides a convenient way to download assets contained in different Drives.

- Digital assets that are images can now be resized when downloading.
- The **Image configuration** property is now available on Drives and Digital Asset Components for external storage locations. This property allows a maximum image size to be defined.
- The options to restrict file upload are now available for Drives and Digital Asset Components that connect to external storage locations.
- The filter that sorts digital assets can now also sort folders.
- This release contains the following API updates:
 - The Java API's `DigitalAsset` and `DigitalAssetVersion` classes now include `getSize()` to retrieve an image's size.
 - The responses from the following REST API endpoints now include the `size` property with `width` and `height` properties when the asset type is an image:
 - `:search`
 - `:getInfo`
 - `:getAttachment`
 - `:upload`

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The following third-party libraries were updated:

- Guava: Google Core Libraries For Java was updated to version 32.0.1-jre
- Netty/All In One: NIO client server framework was updated to version 4.1.94.Final

Closed Issues

This release contains the following closed issues:

- Users can edit an asset when opening an inherited record inside a child dataset.
- While searching in a Drive, nothing happens when typing.
- Other user's assets can be edited even when **Edit other user's assets** option is disabled in the DAC.
- Invalid assets can be successfully attached.
- The focus of the last selected folder is removed.
- The breadcrumb cannot react after accessing the asset information details screen.
- The order of assets is changed after deactivating the assets.
- The total number of assets on the Drive is incorrect when queried via the API.
- Several icons are not visible and assets cannot be previewed when using the search feature.

Known Issues

This release contains the following known issues:

- The add-on is not stable when deployed on a WebLogic application server. Fatal errors can occur when trying to use the add-on's services. The root cause is under investigation.
- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 6.1.0

Released: March 2023

New features

This release contains the following new features:

- A new built-in connector for Microsoft SharePoint is available.
- A new built-in connector for Google Drive is available.
- The add-on was updated to ensure compatibility with the new TIBCO EBX® staging feature. Use this feature to migrate configuration settings from one environment to another. See the EBX® documentation for more details. The available staging elements for the EBX Digital Asset Manager Add-on are the Digital Asset Components (DACs). Staging a DAC configuration will also stage any related Drive configurations, Image configurations, etc.
- The add-on was updated to ensure compatibility with the way TIBCO EBX® now handles URL encoding. Please see the EBX® release notes for more details.
- The ability to create folders in Drives and move assets between folders was added. This enables asset organization and classification. Folders can also be shared and downloaded.
- User Experience enhancements:
 - An advanced search mode is now available to search on inclusive or exclusive criteria types.
 - Multiple file extensions and digital asset types can now be applied when filtering assets in a Drive.
 - It is no longer possible to input a last updated date or creation date that is greater than the current date.
 - Asset URLs are now optimized when sharing the asset via email.
 - When choosing a Drive, you can now search for the desired Drive in the menu.
- REST API updates:
 - A new V2 REST API was added that includes:
 - An endpoint for the TIBCO EBX GO Add-on to retrieve asset information.
 - Endpoints to select and search for assets of multiple types, extensions, and criteria matches.
 - The V1 REST API can now physically delete assets. This includes assets uploaded by the current user and other users.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes the following changes to functionality:

- The permissions for deleting and deactivating assets were decoupled. When a user's permission to delete assets is restricted, they can still deactivate assets.
- The permission setting **Edit other user's assets** is now coupled with the ability to deactivate assets. When this setting is enabled, users can deactivate assets uploaded by other users and vice versa.

Changes to third-party libraries

This release contains the following changes to third-party libraries:

- Google library updates:
 - `Guava: Google Core Libraries For Java` to version 31.1-jre
 - `google-api-client` to version 2.0.0
 - `google-api-services-drive` to version v3-rev20220815-2.0.0
- YAML 1.1 parser and emitter for Java library was updated to version 2.0.
- JSON Small and Fast Parser library was updated to version 2.4.10.
- The FasterXML jackson core library was updated to version 2.14.2.
- The Apache Commons FileUpload library was updated to version 1.5.
- The iText library was removed. Note if you experience issues displaying DOCX files, you might need to manually deploy iText in your environment.

Closed Issues

This release contains the following closed issues:

- The wrong error message is displayed in the **Manage digital asset** screen when the **Region** and **Bucket** name do not match.
- The display is incorrect when registering a connector but not changing the S3 information of a Custom Drive.
- Wrong with deleted assets from Custom connector when we haven't reload the drive.
- It is not possible to upload into the Icon Drive in the **Manage digital assets** screen.
- The prefix incorrectly displays with the Icon Drive when creating a new version.
- An error message is displayed in Amazon S3 drive screen when clicking the Folder name combo-box.
- An unexpected error pop-up displays when uploading invalid files in the tabular view.
- An error thumbnail is displayed in the tabular view with the attached assets that are not moved to another drive.
- An HTML file is downloaded instead of the correct asset when accessing the **Edit digital asset** feature from the **Manage digital asset** screen.
- An image cannot be added when the media field is directly under the root in the data model.
- Documentation is missing from the REST API on multipart fields.
- An asset cannot be uploaded and attached when the maximum occurrence is set to 1.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.5.2

Released: February 2023

New features

This release contains no new features.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The Zip4j library for zip files and streams was updated to version 2.11.3.

The Microsoft Azure Client Library For Blob Storage library was updated to version 12.20.2.

Closed Issues

This release contains no closed issues.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.

- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.5.1

Released: November 2022

New features

This release contains no new features.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The FasterXML jackson-databind library was updated to version 2.13.4.2.

Closed Issues

This release contains no closed issues.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.

- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.5.0

Released: September 2022

New features

This release contains the following new features:

- A built-in connector is available for Microsoft Azure.
- An option is available to move assets from one Drive to another.
- User Experience enhancements:
 - Permission options renamed for clarity.
 - When removing assets from an upload, the confirmation dialog no longer displays each time an asset is removed.
 - Tabular view: pagination via next and previous actions is available when multiple assets are attached to a record.
 - When viewing an asset preview, the ESC key is a shortcut to closing the preview.
 - When viewing assets shared via a permalink or email, the attach icon, detach icon, and attachments pane are hidden.
- Asset previews are available by clicking the asset's thumbnail in the tabular view. Additionally, assets can be downloaded from the tabular view.
- Permission updates:
 - Two new permission options are available on Drive and D.A.C configurations: **Delete other user's assets** and **Edit other user's assets**.
 - The behavior of the **View other user's assets** permission was updated so that users with this permission have read-only access to other user's assets. They cannot edit or delete them.

- When the **Quick upload and attach** permission is enabled, it applies when uploading from the tabular view.
- The **Reject duplicates** setting is applied when:
 - Users upload assets from the record's details view (with quick upload and attach permission), or the tabular view.
 - Administrators upload an asset from the **Administration** panel, move an asset to another Drive, or upload a ZIP file.
- The ability to upload assets from the tabular view is manageable using the **Display the upload button** in the D.A.C configuration.
- When configuring an S3 connection, the folder is selectable from a list of existing folders. Alternatively, the option is available to create a new folder.
- When configuring an S3 connection, the bucket name is check for valid input.
- There is an option to delete asset versions from the **Version management** tab when accessing from the **Administration** panel.
- REST API Updates:
 - The REST API was refactored.
 - The `getInfo` endpoint was updated to include a list of all versions of an asset.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

This release contains no changes to third-party libraries.

Closed Issues

This release contains the following closed issues:

- If the server is not reloaded, deactivated assets can still be attached.
- The **Actions** menu does not display correctly.
- Files from an external Drive cannot be previewed in the **Edit digital asset** screen.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.4.1

Released: July 2022

New features

This release contains no new features.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The AWS Java SDK for Amazon S3 was updated to version 1.12.262.

Closed Issues

The URL generated by the Java API does not work with unrecognized file extensions.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.4.0

Released: June 2022

New features

A new REST API was published that conforms to the Open API Specification.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes the following changes to functionality:

- Deactivated assets no longer display in the **Attachments** pane.
- New records can no longer be created in the **Connector** table.

Changes to third-party libraries

This release contains no changes to third-party libraries.

Closed Issues

This release contains the following closed issues:

- The labels for the **Date from** and **Date to** icons in the **Filter** pane cannot be displayed.
- After previewing an asset, the other assets cannot be accessed.
- The sidebar is removed after uploading a new version.
- An error occurs when downloading an asset if its file name is in a language such as Vietnamese or Chinese.
- A default pattern class is include in the **Pattern** table.
- When **Allow to view asset of other user** is set to **No**, assets attached by one user are removed after another user attaches assets.
- Handle the exception when deleting a Drive.
- An uploaded PNG file with a transparent background displays with a black background.
- An error occurs when previewing DOC files that use languages such as Vietnamese, Japanese, and Chinese.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.

- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.3.2

Released: April 2022

New features

This release contains no new features.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

The Zip4j library was updated to version 2.10.0.

Closed Issues

This release contains no closed issues.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.3.1

Released: March 2022

New features

This release contains no new features.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

This release contains the following updates to third-party libraries:

- The Apache PDFBox and Apache FontBox were updated to version 2.0.25.
- The jQuery UI and UI widget libraries were updated to version 1.13.1.
- The jQuery library was updated to version 3.6.0.
- The Apache XML Graphics Commons library was updated to version 2.7.

- The debugger.js component was removed from the PDF.js library.
- The FasterXML/jackson-databind library was updated to version 2.13.2.1.
- The Zip4j library was updated to version 2.9.1.

Closed Issues

An error occurs in the media type field when the table has 2 primary keys and one data type is date.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.3.0

Released: February 2022

New features

This release contains the following new features:

- A new Drive configuration property allows administrators to choose whether to allow upload of duplicate assets to the given Drive.
- A new connector type allows a Drive location to be set to an Amazon S3 bucket. This allows you to attach assets to fields in EBX® while managing their storage outside of EBX®.

- Actions such as deletion, deactivation, downloading, and sharing can now be performed on multiple assets at once.
- When configured by an administrator, users now have the option of uploading and attaching assets directly from the tabular view. This prevents having to open each record to attach assets.
- The **Digital asset** table now displays a thumbnail of each digital asset.
- When uploading files, any files that have errors can now be removed before uploading.
- A new API is available that allows you to create a custom connector to link a field containing assets with a third-party tool.

Attention:

As the add-on is undergoing revision, the documentation's images and descriptions of some components might not exactly match the current UI.

Changes in Functionality

This release includes the following changes to functionality:

- The **Class** field is now hidden in the **Pattern** table.
- Two files with the same name can now be uploaded to a Drive. The add-on automatically appends a number increment to the file name.
- The `File not found` error no longer displays when all assets are removed from a Drive.
- When you delete a D.A.C, any asset modifications made in the local dataspace (that are related to the deleted D.A.C) are lost. Assets are reset to their initial state.

Changes to third-party libraries

This release contains no updates to third-party libraries.

Closed Issues

This release contains the following closed issues:

- An error message displays when opening a record that has an existing asset in the blacklisted extension.

- Error message should be shown as pop-up when deleting asset in Digital asset version table that does not have another version.
- Create new record submission is NOT prevented when there are errors in the **Pattern** table.
- In the **Upload** screen, the information related to the maximum allowed file size and restricted file upload are not displayed even though they are set up in the Drive/ DAC.
- The order of assets is changed after selecting another Drive.
- The original file name is changed when a user downloads an external asset.
- An incorrect error message is shown when a user tries to preview an asset from a deleted Drive.
- Can Input the letter or special character in the search page in the **Manage digital asset** screen.
- XLS and XLSX files don't display correctly when changing the asset's zoom level.
- Assets displayed in the **Drive** view don't display according to the view set in the D.A.C.
- The display of the tag value is incorrect.
- Unable to change Drive of existing asset via the **Digital asset** table in the **Administration** panel.
- An unexpected error message displays when leaving fields blank in the image configuration screen.
- The dropdown menu displays incorrectly when a Drive name is too long.
- The wrong screen is displayed when closing the **Edit digital asset** screen of sharing assets.
- SVG images do not display correctly.
- The error message is missing the rule pattern and it is not translated into French.
- The **Accept duplicate(s)** checkbox does not display when uploading existing assets.
- BMP images cannot be previewed even when smaller than 5MB.
- [EBXDAMA-1397](#) The `getAssetInformation` endpoint returns the incorrct calculated URL for `preview_url` , `defaultIcon` , `versions.URL` and `versions.preview_url` .

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.

- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.2.1

Released: December 2021

New features

This release contains no new features.

Changes in Functionality

This release includes no changes to functionality.

Changes to third-party libraries

This release contains the following updates to third-party libraries:

- The jQuery UI library was updated to version 1.13.0.
- The jQuery File Upload library was updated to the latest version.

Closed Issues

This release contains no closed issues.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.

- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.2.0

Released: November 2021

New features

This release contains no new features.

Changes in Functionality

This release includes the following changes to functionality:

- When configuring a Drive, you now select from a list of available connectors instead of Drive types. The following connectors are available in this release:
 - **Default connector:** Allows you to create a default Drive where asset storage and management tasks are handled by the add-on.
 - **External manager:** Allows you to use the API to connect to an externally managed storage location.
- The **Editor** is now the **Drive** view and you can no longer edit asset metadata from this view. All functionality, apart from editing, in this view remains the same. You can now access editing features by:
 - Selecting an asset's information icon when viewing a record.
 - Using the **Manage digital assets** service (available to administrators).
- Modifications to assets are no longer autocratically global in scope. Changes are now either isolated, or applied globally depending on your access rights, and where you initiate changes. When changes are isolated, they only impact the current dataspace. For example, when you

make changes in a child dataspace, they do not propagate to the parent. Global changes are propagated to any location where an asset is used. If you:

- Are a business user and access edit functionality from a record's details view, any changes you make are isolated to the current dataspace.
- Have administrative privileges and access edit functionality using the **Manage digital assets** service, changes apply globally. Note that as an administrator you can still edit from a record's details view if you want to keep your changes local.

Note:

The above behavior applies to all asset-specific information, except tags. Changes to tags are always applied globally.

Changes to third-party libraries

This release contains no updates to third-party libraries.

Closed Issues

This release contains no closed issues.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.1.1

Released: September 2021

New features

This release includes no new features.

Changes in Functionality

This release includes no changes in functionality.

Changes to third-party libraries

The Apache Commons Compress library was upgraded to version 1.21.

Closed Issues

This release contains no closed issues.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- When updating asset information in a child dataset, the parent dataset automatically updates also.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.1.0

Released: July 2021

New features

This release includes the following new features:

- Use batch processing to automatically attach assets. Note that this feature requires the EBX® Data Exchange (New) Add-on. See [Performing bulk actions](#) for more information.
- You can now specify that assets must meet minimum height and width requirements for upload.
- A regular expression can now be defined in a D.A.C or Drive configuration to enforce compliance of asset physical file names. If the name doesn't meet the specified pattern, users cannot upload the asset.
- Performance improvements were made when:
 - Importing assets with tags.
 - Importing assets from a zip file.
- The **Upload** screen now displays additional information about the Drive and D.A.C.

Changes in Functionality

Instead of uploading assets and then validating them, the add-on saves time by preventing upload of invalid assets. The following asset attributes are validated before upload to ensure compliance with configuration settings:

- File size
- File extension
- Image resolution
- Max Drive size on bulk upload
- File name compliance with specified regex patterns

Changes to third-party libraries

The Apache PDFBox, Preflight, pdfbox-tools, and XmpBox libraries were updated to version 2.0.24.

Closed Issues

This release contains the following closed issue: Users can see assets uploaded by other users even when permission settings prohibit this behavior.

Known Issues

This release contains the following known issues:

- Searching for assets in the media-type field using quick search is not supported. However, when previewing some file types, such as PDFs, you can search for text within the file.
- When updating asset information in a child dataset, the parent dataset automatically updates also.
- The configuration is not updated for the supported file extensions after users access the Digital Asset Manager widget.
- Document previews cannot display Vietnamese text.
- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Thumbnails of some uploaded SVG files do not display correctly.
- Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.

Version 2.0.1

Released: June 2021

Updates

The following library updates were made in this release:

- The Apache PDFBox, FontBox, pdfbox-tools, Preflight, and XmpBox libraries were updated to version 2.0.23.
- The Apache HTTPClient library was updated to version 4.5.13.
- The Apache Commons IO library was updated to version 2.8.0.
- The JAI ImageIO library was updated to version 1.4.0.
- The Zip4j library was updated to version 1.3.3.
- The Google Guava library was updated to version 30.

- The scripts.bundle.js and Google Guava version 29 were removed.

Bug fixes

This release contains the following bug fixes:

- An attached asset is hidden when its field is set to read-only in the dataset.
- When a media type field is set to 'Read-only', add-on features are still available when viewing record details.

Version 2.0.0

Released: March 2021

New features and updates

This release contains the following new features and updates:

- The TIBCO EBX® Digital Asset Manager Add-on has been updated to ensure compatibility with the TIBCO EBX® 6.0.0 GA release.
- Support was added to enable the preview of XLS and XLSX files.
- The API was updated to allow you to enable and disable certain features when managing an external Drive.
- The following updates were made to known limitations:
 - The following limitation was removed: The **Deactivated** state is still available for user although user does not have the right to deactivate any asset.
 - The following limitation was added: Previews of PPT, PPTX, DOC and DOCX files cannot display charts due to a limitation of the library used to generate the preview.
- The following libraries were updated or removed:
 - dom4j to v2.0.3
 - Jackson-databind to v2.10.0
 - Apache PDFBox (Fontbox, etc ...) v2.0.20
 - jaxb-api-2.1.jar to v2.1 and jaxb-impl-2.1.3.jar to v2.1.3
 - common-fileupload to v1.4
 - poi to v4.1.2

- batik-all to v1.13
 - jQuery_fileupload to v10.31
 - log4j and slf4j were removed
- APIs that were deprecated in previous versions of the add-on are no longer available. If you use any deprecated APIs, please refer to the list below for their replacements:

Attention:

All APIs in the following table are located in the `com.orchestranetworks.addon.dama` package.

DEPRECATED	REPLACEMENT
<code>AccessPermission</code>	<code>ext.enumeration.AccessPermission</code>
<code>DAMException</code>	<code>ext.exception.DAMException</code>
<code>DateRange</code>	<code>ext.bean.DateRange</code>
<code>DigitalAsset getAssetUUID()</code>	<code>ext.bean.DigitalAsset getAssetId()</code>
<code>DigitalAssetKey</code>	<code>ext.bean.DigitalAssetKey</code>
<code>AbstractDigitalAssetSpec</code>	<code>DigitalAssetSpec</code>
<code>DigitalAssetState</code>	<code>ext.enumeration.DigitalAssetState</code>
<code>DigitalAssetVersionKey</code>	<code>ext.bean.DigitalAssetVersionKey</code>
<code>DigitalAssetVersionSpec</code>	<code>ext.bean.DigitalAssetVersionSpec</code>
<code>DriveFactory</code>	<code>ext.factory</code>
<code>DriveManager</code>	<code>ext.DriveManager</code>
<code>DriveType</code>	<code>ext.bean.DriveType</code>

DEPRECATED	REPLACEMENT
Metadata OperationExecutionStatus	ext.bean.Metadata ext.exception.OperationExecutionStatus
ResourceIdentifier	ext.ressource.ResourceIdentifier
ResourceIdentifierFactory	ext.resource.ResourceIdentifierFactory
SearchContext ext.bean.SearchFilter	externalmanagement.search.SearchConfig externalmanagement.search.SearchFeature
Size	ext.bean.Size
SortBy	ext.enumeration.SortBy
StorageManager	ext.StorageManager
Version	ext.bean.DigitalAssetVersion

Note:

A validation error might prevent the **Backup** service from executing properly. If this occurs, open the validation report and select **Reinitialize validation report**. Then, re-execute the **Backup** service.

Version 1.8.8

Released: February 2021

Product updates

Google Guava was updated to version 30.1.

Bug fixes

An exception occurs in the add-on when using the **Manage digital asset** service.

Version 1.8.7

Released: January 2021

Product updates

This release contains the following library updates:

- Apache Standard Taglibs to version 1.2.3.
- Jackson Databind to version 2.11.2.
- Batik XML utility library to version 1.13.
- Apache Common Codec to version 1.13.

Bug fixes

Absolute URLs are not calculated as expected.

A NullPointerException is thrown while starting EBX.

Release Notes 1.8.6

Release Date: October 20, 2020

Bug fixes

A complete URL is required when sharing an asset by email.

Release Notes 1.8.5

Release Date: September 18, 2020

Updated features

This release contains the following feature updates:

- The following library updates were made: jQuery to v3.5.0, jQuery UI to v1.12.1, jQuery fileupload to v10.31, and Apache POI to v4.1.2. Additionally, DOCCConverter, OfficeConverter, PPTConverter, and PPTXConverter were updated.
- Support for the OpenJDK8 and Open JDK11 libraries has been included.

Bug fixes

The log was updated from INFO to DEBUG mode to display more readable results.

Release Notes 1.8.4

Release Date: June 23, 2020

New features and updates

This release contains the following feature updates:

- The add-on now provides administrators the option to activate assets when viewing them from the **Digital asset** screen. To perform this action, select the **Activated** option from the **Actions** drop-down menu.
- In the **Manage digital assets** screen, the **Drive** drop-down list is now sorted alphabetically.
- File formats listed in the **Blacklisted extensions** property cannot be attached from the **Editor** screen.
- Behavior has been updated to improve consistency in the way error messages display.
- When an administrator moves assets from an encrypted Drive to an unencrypted Drive, the add-on automatically decrypts assets. This functionality applies when moving assets in the opposite manner—decrypted to encrypted.
- The error message shown when users are not able to attach an asset has been updated.
- Support for JDK8 and JDK11 has been updated. Additionally, the docx4j, pdfbox, and jQuery libraries have been updated.

Bug fixes

This release contains the following bug fixes:

- The Esc key does not work correctly when previewing a document file in full-view mode.
- The search page service does not work correctly when previewing document assets.
- The first page of a document file cannot be completely displayed in full-view in the **Editor** or **Manage digital assets** screens.
- With assets that have tags, the **Last updated date** property is updated when saving and closing—even if there is no change to the asset.
- In the **Manage Digital Assets** screen, selected tags are not cleared after changing the Drive.

- Loading issue exceptions that link to the DOCX4J dependency prevent preview of DOCX files on Drives.
- The documentation and tool tips for the **Blacklisted extensions** should reflect the field behavior that listed extensions can also be separated by whitespace, semicolons, or dots.
- An unexpected message is given when users upload DOC/DOCX files (about 300kb) in the UI.
- All Drives are displayed in the **Manage digital assets** screen instead of the defined Drive when running the add-on service on a perspective.
- A NullPointerException is raised when the thumbnail displays an SVG default icon.
- There should be a complete URL for an asset which is shared via email.

Release Notes 1.8.3

Release Date: April 20, 2020

Updated features

When you use the REST API to retrieve an asset's URL, the returned JSON object includes the following new response parameters:

- `preview_url`: The URL of the asset preview.
- `defaulticon`: The URL of the default file extension icon.

Bug fixes

This release contains the following bug fixes:

- When using the add-on's REST API, the value returned in the URL field must be the URL of the original file and not the file preview's URL.
- If the uploaded file is >5MB, a thumbnail image based on the source file must not be generated.
- The DAMException log is updated when attempting to delete an asset that has been removed.
- An asset version cannot be deleted if its binary file has already been deleted.

Release Notes 1.8.2

Release Date: February 20, 2020

New features and updates

This release contains the following feature updates:

- Tooltips have been added for the **Drive** and **Tags** properties when uploading assets.
- PDF files that are less than 5MB can now be previewed.
- When using the API to get an asset's URL, the parameter in the returned JSON object now matches the protocol used in the request.
- The **Editor** can now be used to edit assets when using a TIBCO EBX® Cloud Instance.
- When viewing assets from a storage location managed outside of EBX®, PDF files can now be previewed in the **Editor**.
- If using an externally managed Drive location, the **State** field is now hidden when viewing information about an asset.
- The number of assets that can be included in a single upload has been increased to 300.
- When there are multiple versions of an asset, the displayed file size now updates to the current version of the asset.
- The thumbnail and preview display for SVG files has been updated. If the file includes animation, users can interact with it when previewing.

Bug fixes

This release contains the following bug fixes:

- Duplicated tags are not hidden when users add a tag with a space character, which already exists.
- A `TableTrigger` is fired in the add-on even when there is no change in the record.
- An error message should be raised when uploading assets on the **Editor** screen through a deleted D.A.C.
- A deactivated asset is missing in the attachment pane when it is deactivated from the **Manage digital assets** screen.
- The loading icons are not aligned with other thumbnails in the list when quickly uploading multiple assets from the **Edit digital asset** screen.
- Unexpected behavior occurs when uploading a file to create a new version from the Media type field.
- The API's `UIWidget` to disable modifications in the editor does not work.

- The system is not responsive after double-clicking on assets.
- A null pointer exception is thrown when the `ExternalManager`'s `getTags` API returns null.
- Users cannot preview assets in an external Drive from the **Edit digital asset** screen.
- After changing the label of a dataset, the download button is not available on the **Edit digital asset** screen.
- Incorrect behavior occurs when accessing a perspective using the **Manage digital assets** service.
- Change the default value for **All file extensions** from **0** to **""**.
- A blank screen briefly appears when attaching a large number of assets.
- An asset cannot be shared via email on the **Digital Asset Manager - Editor** screen on a Relational model.

Release Notes 1.8.1

Release Date: December 10, 2019

Updated behavior

The add-on no longer refreshes data model schemas by retrieving a list of all registered models in the repository.

Release Notes 1.8.0

Release Date: November 8, 2019

New features and updates

The following sections highlight the new features and updates for this release:

- [Features and enhancements](#)
- [API updates](#)

Features and enhancements

- You now have the option of enabling encryption upon Drive creation. This option encrypts all assets in a Drive so they can only be accessed by a user logged in to EBX®.

- When uploading multiple files, asset thumbnails now display immediately after upload of that asset is complete.
- A Drive can now be configured to access an externally managed storage location. For example, assets might be stored in the cloud on Google Drive or AWS. Alternatively, you might already use a third-party tool to manage digital assets but, you want to enable data model access to these assets. Note that API implementation is required for these types of use cases.
- To improve user experience in certain deployment environments, Spring configuration has been moved from hybrid to pure Java.
- It is no longer mandatory for Digital Asset Components to have associated tag clouds.
- A result page now displays after running the **Delete all assets in Drive** service.
- By default all file types are now supported and enabled for upload by the add-on. However, you can use two new properties **Restrict file upload** and **Blacklisted extensions** to whitelist and blacklist file extensions, respectively. See, [Whitelisting and blacklisting file formats](#) for more details.
- SVG files are now supported.

API updates

Using the add-on's API you can now access externally managed storage locations. These locations can include assets managed by third-party tools. In addition to linking to and displaying these assets in EBX® data model fields, you can:

- Search for and filter assets.
- Enable upload and deletion of assets.
- Attach and detach externally managed assets to EBX® data model fields.
- Display externally managed tags.

Known limitations

This release contains the following limitations:

- When accessing assets in an external Drive, error messages may display when selecting all assets. This can be the result of access limitations put in place by the third-party tool.
- Without width and height measurements, the thumbnail and content of an SVG asset are not properly displayed.

Bug fixes

This release contains the following bug fixes:

- The Vietnamese title of a downloaded file is wrong.
- A thumbnail label that contains HTML elements is not correctly displayed in the **Edit digital asset** screen.
- On the list view mode the thumbnail of an asset overlaps the outer border of the media type field.
- **Label and description** value is not saved after being modified in the **Digital asset** table.
- An user-unfriendly error page displays in the **Editor** and **Manage digital assets** screens when users attempt to download a non-existent asset.
- The error icon displays incorrectly when using quick upload.
- The **Select all** button does not work on the **Editor** screen after assets have been detached.
- The loading icon is not aligned with other thumbnails in the row when quickly uploading an asset.
- Assets cannot be displayed on the field when they are attached from the **Editor** screen and the view mode has been changed in the D.A.C.
- Incorrect behavior is presented when user selects the **Apply** checkbox on the search pane.
- A redundant header appears on the upload modal dialog from the **Icon** field on **File extension** record.

Release Notes 1.7.0

Release Date: June 20, 2019

New features and updates

The following sections highlight the new features and updates for this release:

- Features and enhancements
- API updates

Features and enhancements

- The **Manage digital assets** service can now be launched from EBX® perspectives. The service can allow users control over assets linked to one or more Drives.

- When choosing a new asset as the current version, the new asset's file name can be automatically populated to the **Editor** using the new **Update label** option.
- Add-on performance has been improved when a schema refresh is required.
- The Jackson library has been upgraded due to a security issue.
- The PhotoSwipe library has been removed from the add-on.
- When playing asset videos from within the add-on, the video is now streamed instead of downloaded.
- An asset thumbnail can now be displayed in EBX® tables. See [Enabling thumbnail display and upload in the tabular view](#) for more information. The following image shows an example of this feature:

Location

+ Actions ▾

id ^

Country Code

State

City

Destination Type

Views of Area

☐

1

us



CO



Lake City

Mountains



☐

2

us



CO



Silverton

Mountain



API updates

The API now includes the following; please refer to the *Java API* documentation for additional information and samples:

- The API now permits assets managed by third-party tools to be linked to data model fields.
- A custom filter can now be implemented that determines the assets displayed when users enter the **Editor**.
- Sample code has been added to demonstrate implementing cloud storage for assets.
- The Digital Asset `UIBean` has been replaced by `CustomWidget`.

Bug fixes

This release contains the following bug fixes:

- Text overlap occurs in the PDF version.
- Grant permission while calling DAM API in Script tasks.
- The loading icon persists when previewing a large video (more than 164MB).
- A blank page is shown when users access document files on UI Bean when the drive has been deleted by another user.
- An error is raised when accessing assets on UI Bean if the D.A.C. has been deleted by another user.
- A blank space appears on the 'Edit digital asset' and 'Import a new version' screens.
- The error message must be unified when user accesses an asset on DAM UI Bean in case the asset or the D.A.C. is deleted.
- An unreasonable message is given when user downloads assets from different screen.
- The scroll bar does not move down to the newest point on the upload modal screen.
- The search page box does not work when previewing document assets in Internet Explorer.
- The error message must be unified when a user accesses an asset on the **Editor** if the asset or the D.A.C. is deleted.
- Large videos (more than 164MB) cannot be downloaded.
- Error log at runtime occurs when deploy an add-on using UI Framework.
- A tag cannot be created when a user re-selects an existing tag on upload modal screen.
- A `NullPointerException` occurs while registering `DriveManager`.

Release Notes 1.6.0

Release Date: March 25, 2019

New features and updates

The following sections highlight the new features and updates for this release:

- [General updates](#)
- [Updates to the UI](#)

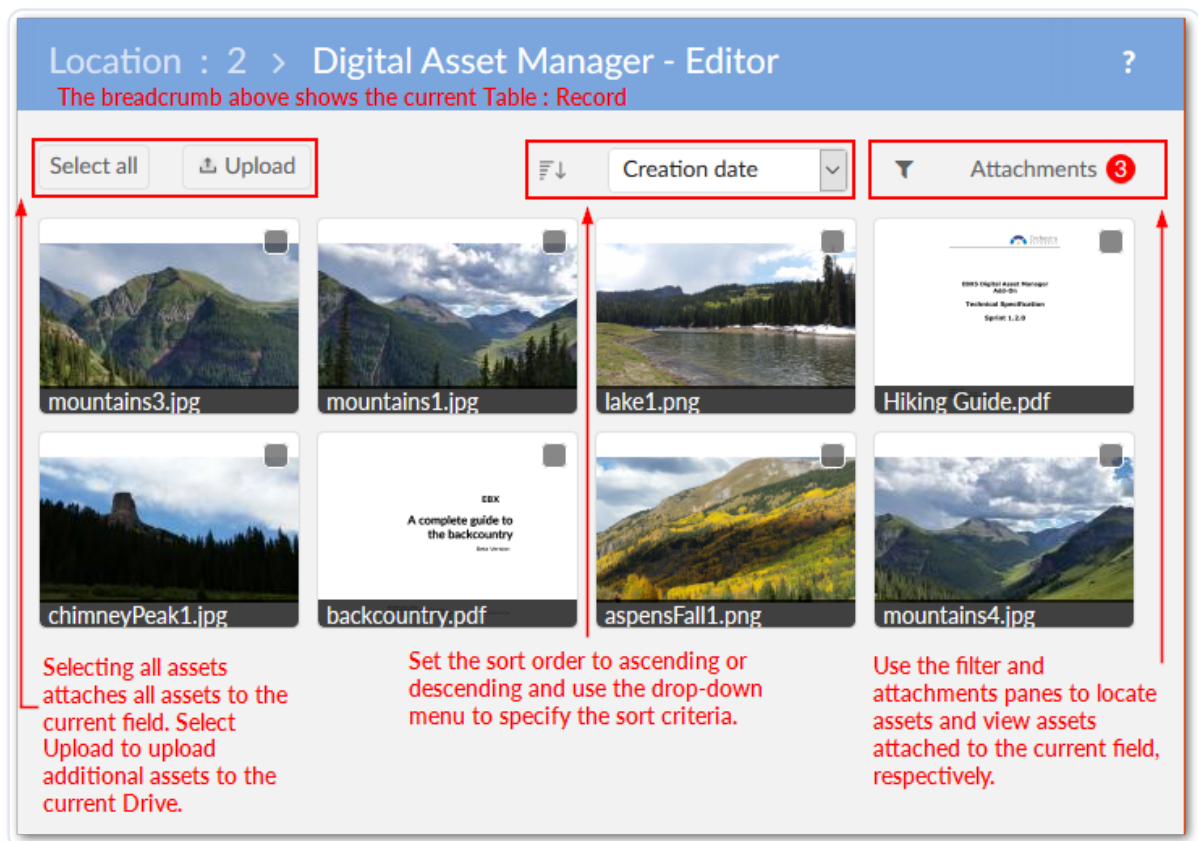
General updates

This release contains the following new features and updates:

- The add-on now supports TIBCO EBX® restriction policy functionality for user permissions.
- A programmatic filter can now be used to filter assets displayed in the editor.
- The `baseURL` parameter has been removed from the `DigitalAsset.getURL()` method.
- A public REST service has been provided to upload an asset.
- Documented code samples have been updated.
- Support has been added to take into account the new version of the TIBCO EBX™ Information Search Add-on (2.4.0).

Updates to the UI

- The **Manage digital assets** UI has been updated.
- The following updates were made to the **Editor** UI:
 - The UI is now responsive and automatically resizes based on the window or screen size.
 - Infinite scroll has been added to the **Editor** for assets and tags.
 - As highlighted in the image below, the UI layout has also been updated:



Bug fixes

This release contains the following bug fixes:

- The title of the download pop-up is incorrect when running the **Import from a ZIP file** service.
- A JavaScript error is raised in Internet Explorer when cancelling an upload.
- No message is given when user imports a ZIP file exceeding available server space.
- The user can change the current version without having sufficient permission.
- The error icon's red border no longer displays when a user hovers their mouse over the icon.

Release Notes 1.5.1

Release Date: December 14, 2018

Featured updates

The Creative Commons license has been moved from ECI to BAS.

Bug fixes

This release contains the following bug fixes:

- The **Identify unused asset** service does not work with assets on the media type field under a group.
- The **Identify unused asset** service does not work with assets on the media type field under a table belonging to a group.

Release Notes 1.5.0

Release Date: October 26, 2018

New features and updates

This release contains the following new features and updates:

- The new **Change physical root path** service allows you to update a Drive's storage location. Once updated all add-on related assets are migrated to the new location.
- REST services for TIBCO EBX™ GO Add-on have been implemented.

- Significant updates have been included to ensure compatibility with the EBX® 5.9.0 GA release.

Bug fixes

This release contains the following bug fixes:

- The **Permanently delete digital asset** and **Delete digital asset version** services do not work on a hierarchy view.
- Lack of a border and a text overflow when a tag has long text.
- Users cannot create tags containing quotation marks on the **Upload new digital assets** dialog.
- Users are not allowed to close the **Upload** pop up while uploading assets.
- Inconsistent display of **Upload** and **Edit** buttons between a media type field using **Quick upload and attach** and the UI.
- The display of service buttons on the thumbnail of asset on the Digital Asset Manager UI Bean are inconsistent.
- An error message occurs when users click **Select all** after detaching assets including the **File not found** items.
- The upload files process does not work properly.
- The search pane's tooltip on the **Editor / Manage digital asset** screen is wrong.
- An incorrect tooltip is displayed for the **Cancel** button in the **Importing assets** screen.

Release Notes 1.4.3

Release Date: November 29, 2018

Featured updates

The Creative Commons license has been moved from ECI to BAS.

Bug fixes

This release contains the following bug fixes:

- The **Identify unused asset** service does not work with assets on the media type field under a group.

- The **Identify unused asset** service does not work with assets on the media type field under a table belonging to a group.

Release Notes 1.4.2

Release Date: September 13, 2018

Featured updates

The Digital Asset Manager Add-on has undergone updates to ensure compatibility with the EBX® 5.8.1 fix M release.

Release Notes 1.4.1

Release Date: June 22, 2018

Bug fixes

Files cannot be uploaded due to a conflict with the jQuery library.

Release Notes 1.4.0

Release Date: May 2, 2018

New features

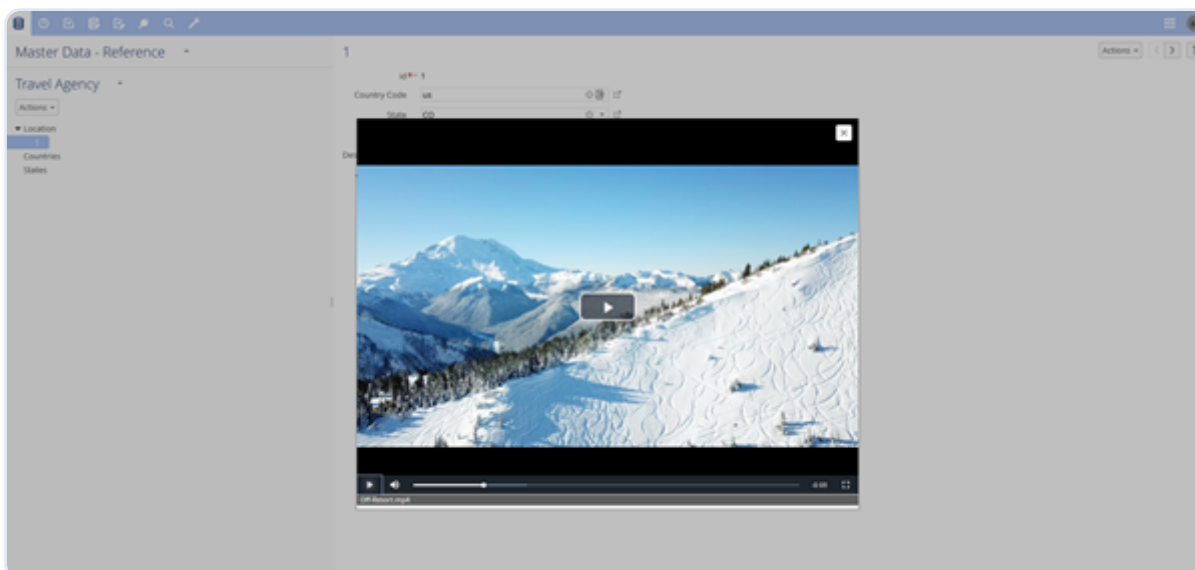
The following sections describe new features for the GA 1.4.0 release:

- [Previewing assets](#)
- [Importing assets in bulk](#)
- [Record filtering](#)
- [REST services](#)

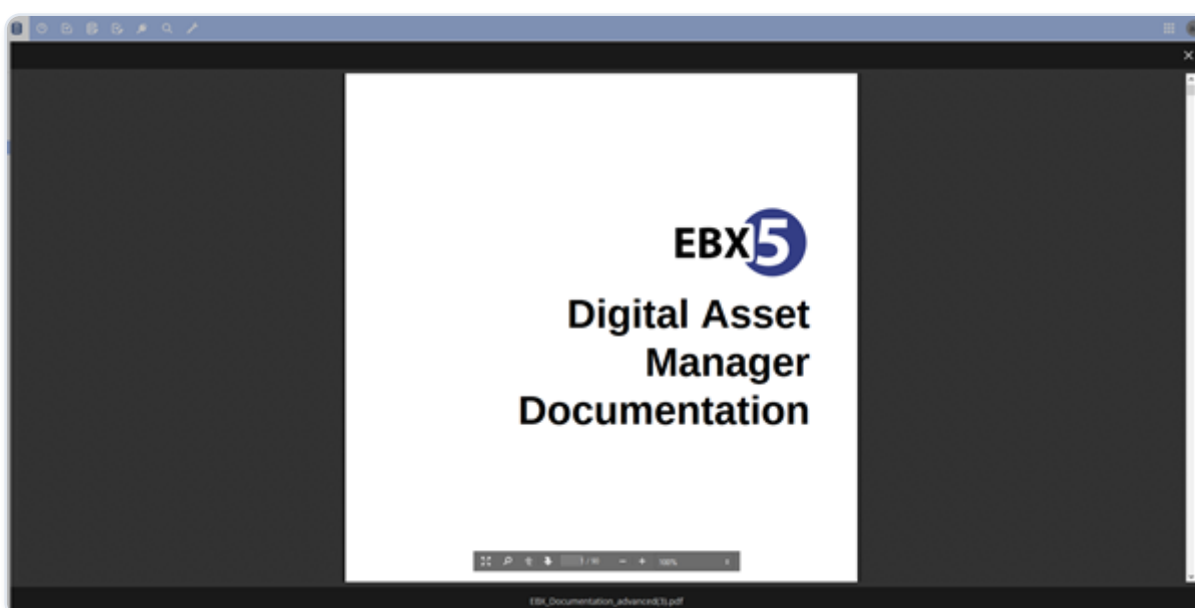
Previewing assets

The add-on now includes the ability to preview additional types of assets. See [Previewing assets](#) for more detailed information. The newly supported types are:

- MP4 files: When previewing, the add-on automatically starts the video and enables basic playback control.



- Document files: When previewing PDF, DOC, DOCX, PPT, or PPTX assets you can use standard document viewer features, such as zoom, navigation, and search.



Importing assets in bulk

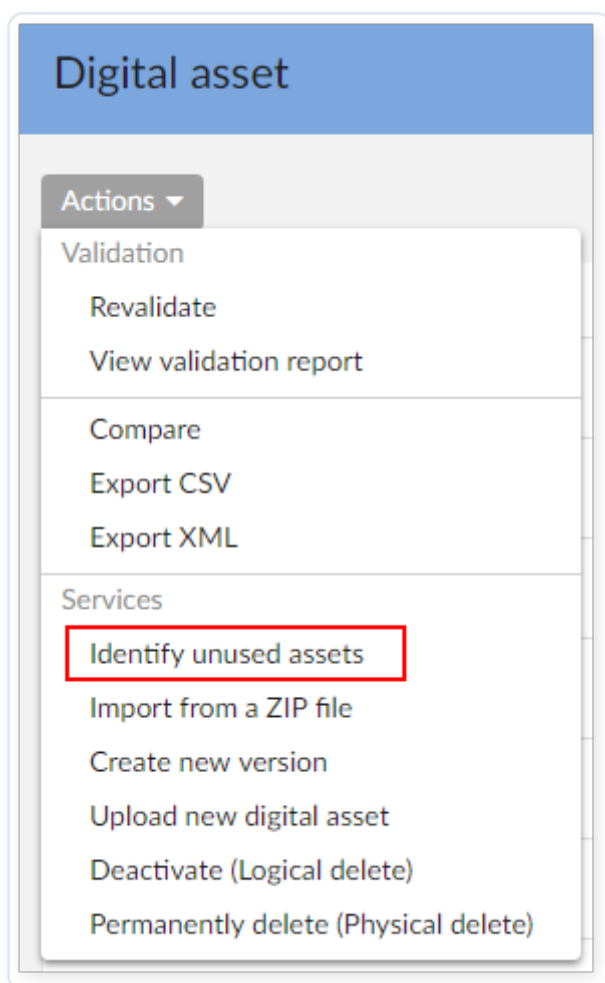
Administrators now have the option to perform a bulk upload of assets by importing a ZIP file. After import, the **Result** page's **Actions** menu enables:

- Download of a log file if the import failed.
- Comparison of two or more imported assets.
- Export of the report in CSV or XML format if the import was successful.

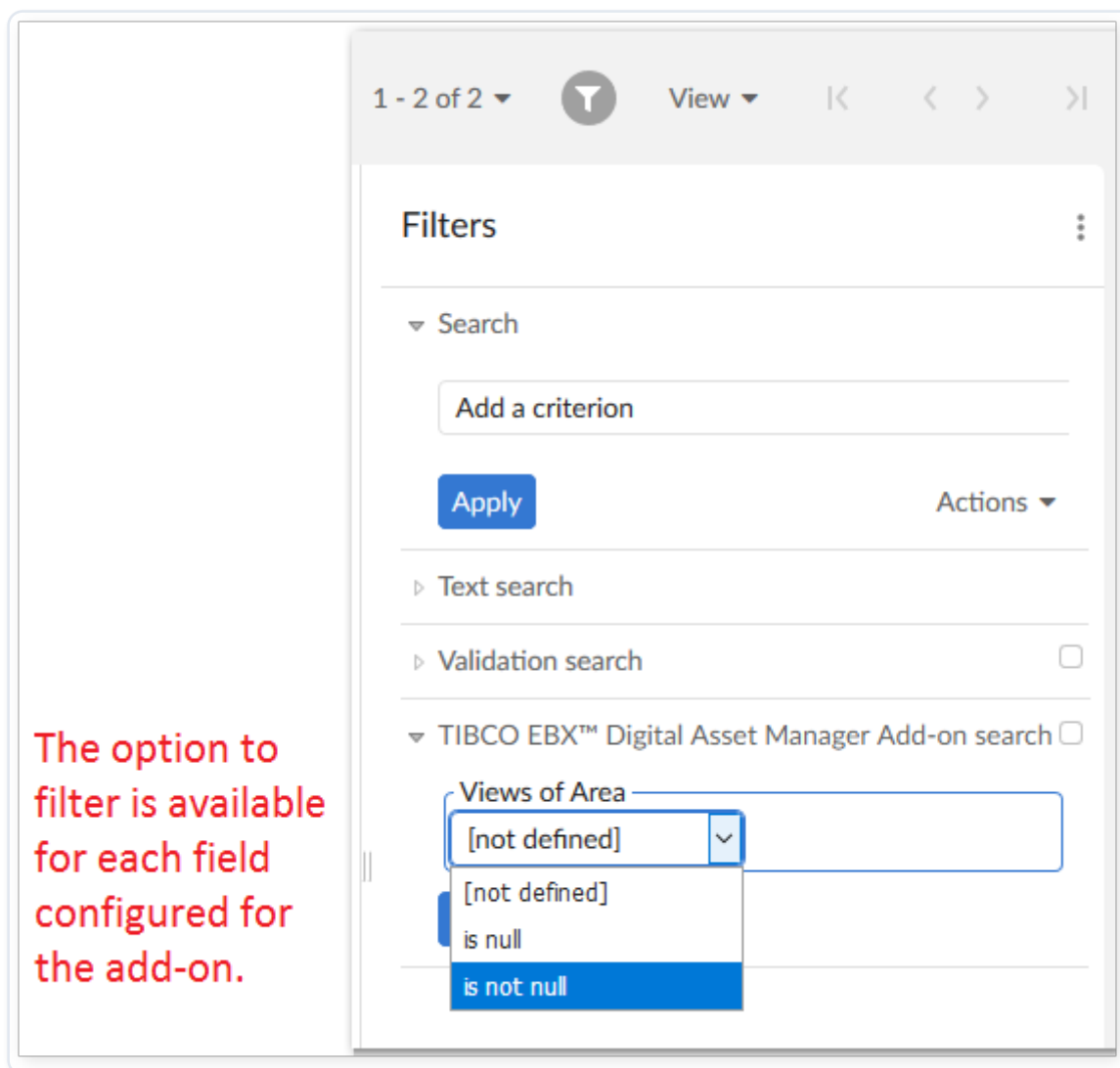
Record filtering

The add-on now provides the ability to filter the following types of records:

- Asset records that are not attached to a field. The new **Identify unused assets** service locates and displays all assets not attached to a field. From this view you can compare assets and export reports in CSV and XML formats. For more information, see [Finding and removing unused assets](#).



- Table records with no attached assets. The EBX® filter now contains the **Digital Asset Manager Add-on search** filter. The filter can be used to show/hide records that have attached assets. For more information, see [Configuring asset filters](#).



REST services

REST services are now available to:

- Get all digital assets from a Drive.
- Attach and detach assets from a field.

See [REST service operations \(deprecated\)](#) for examples.

Known limitations

This release contains the following limitations:

- A JavaScript error is raised in Internet Explorer when canceling an upload.
- The progress bar does not work properly when importing from a ZIP file.
- Document previews cannot display Vietnamese text.

- The video seek bar does not work properly when a user previews MP4 files in Google Chrome.

Bug fixes

This release contains the following bug fixes:

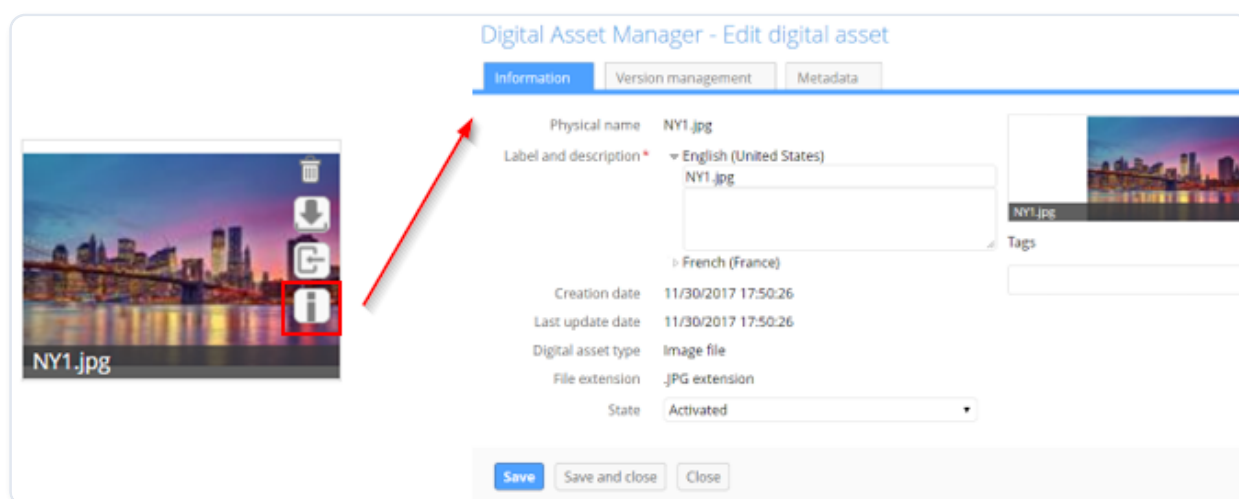
- Users can still view assets in the **Editor** after another user has deactivated the asset.
- Users can view other's assets even without sufficient permission in the D.A.C. or Drive.
- An error occurs on the loading page when clicking the 'Reset filter' button on the **Editor** screen.

Release Note 1.3.0

Release Date: December 15, 2017

Overview of features and enhancements

- [Usability improvements](#)
- A new **Information** icon is available on asset thumbnails. Clicking this icon opens the **Edit digital asset** screen where you can view detailed information about the asset, its versions, and its metadata.



- You now have the option of determining whether quick action icons always display on assets, or only when users mouse over the asset.
- When viewing asset versions, you can now download individual versions for comparison.

Digital Asset Manager - Edit digital asset

Information | **Version management** | Metadata

New version ▾ ← Use the 'New version' group to upload a new version of this asset.

File * No file selected.
The file extension must be the same as the digital asset's extension.

Version name

Comment

Current version ☐

Digital asset versions

	Physical name	Version name	Comment	Current version	
	Small Falls - Horizontal - BW.jpg	Black n White		☐	  
	Small Falls - Horizontal.jpg			☒	  

Specify the current version, edit the 'Version name' and 'Comment', download a copy, or remove a version.

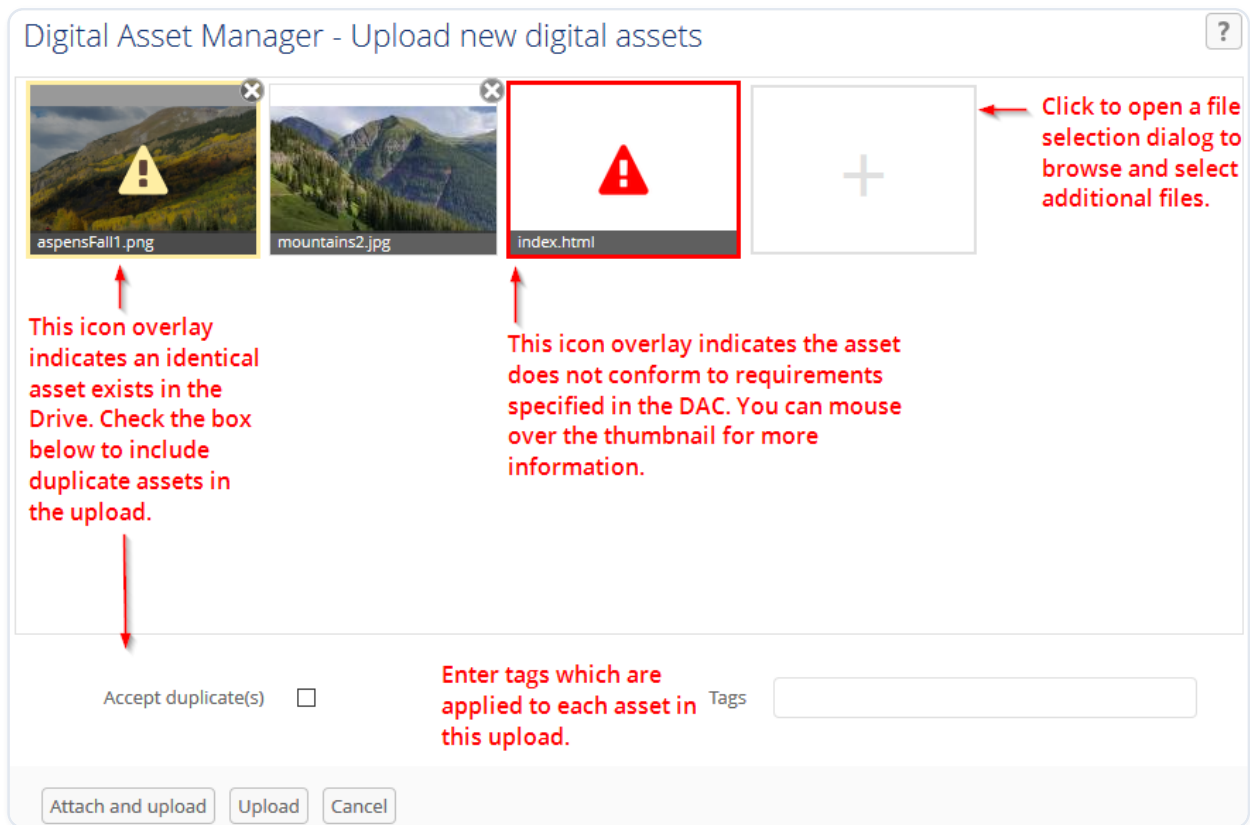
- New REST services are available that allow you to:
 - Retrieve an asset's URL.
 - Get all mediaType fields registered in Digital Asset Manager Add-on.
 - Get information about assets attached to a mediaType field.

Usability improvements

A large portion of the asset management process involves getting your assets into the manager. With this in mind, the latest version of the Digital Asset Manager Add-on provides the following usability improvements focused on helping you during the upload process (see [Uploading and attaching assets](#) for more information):

- Instead of bringing in assets individually, you can now upload and attach more than one asset at a time.
- A new quick-upload mode allows users to bypass pop-up dialogs and directly upload and attach assets. This mode integrates well with workflows.
- In addition to browsing to select files, drag-n-drop functionality is now included in the upload screen.
- Duplicate asset management during upload has been improved. The upload screen now indicates which assets are duplicate and you can choose whether to keep, or remove these assets during upload.
- When browsing for files to select during upload, the add-on applies a filter and only displays those extensions supported by the current D.A.C. configuration.

The following image highlights some of the aforementioned features:



Bug fixes

- The 'Tag' text box disappears in the 'Manage digital assets' screen after removing tag on an asset.
- The 'Drive' field is null and Tags are displayed after changing value of 'Drive' in the D.A.C.
- An error occurs on the Digital Asset Manager UI Bean and an exception is thrown in the log when users use an uncompleted list view.
- An error occurs and an exception is thrown in the log when running 'Attach' or 'Detach' with an uncompleted list view.
- A record cannot be created by using 'Duplicate record' on 'Drive' table in the 'TIBCO EBX™ Digital Asset Manager Add-on' dataset.
- An error occurs when the media type field is in a group with multiple elements.
- A newly uploaded asset is attached into the first occurrence in spite of being uploaded from another media type field.
- Overlap occurs in the 'Editor' screen on IE8.
- Users can create an image configuration even when the mandatory fields of 'Max width' and 'Max height' are empty.

- The 'Bin' icon is displayed without thumbnail on the Digital Asset Manager UI bean after detaching the asset on IE8.
- A user can still open the Editor screen without sufficient permission.
- An unsupported file can be attached to the 'File attachments' pane on the Editor screen.
- An exception is thrown in the log when inputting a value into the 'Metadata' table without choosing 'Metadata nature'.

Release Note 1.2.2

Release Date: November 7, 2017

New features

- You can now download assets contained in read-only records.
- It is now possible to upload a new asset version from the list view.
- A new REST service is available to retrieve a digital asset's URL.

Release Note 1.2.1

Release Date: October 16, 2017

New features

- Take into account the new version of TIBCO EBX™ Information Search Add-on (2.0.0).

Release Note 1.2.0

Release Date: September 6, 2017

New features

UI updates and improvements

- The Editor layout has been improved.
- Assets can be displayed in fields using a combination of settings that include using thumbnails, or icons and using a list, or tiled mosaic view.

- Display of asset thumbnails has been improved and also retains an image's original aspect ratio.

Functionality improvements

- User permissions have been expanded and can now be set at the Drive and D.A.C. levels.
- In the Editor, assets can be selected to shown an expanded view. Several options for downloading, editing, and sharing are available from the expanded view.
- Search, sort, and filter options available in the Editor have been updated.
- An asset's label description, version name and comments, and tags can be modified during upload.
- The following actions can be performed when mousing over an asset thumbnail: detach, download, or import of a new version.
- Tag domains have been replaced with tag clouds. Tag clouds can be used to organize tags and display them in the Editor.
- Duplicate assets can now be uploaded.
- Uploaded assets are saved in sub-folders so that the limitations of certain file systems don't prevent the upload of additional assets.

Bug fixes

- Users cannot run the Restore service when they do not have delete permission on a Drive contained in the backup file.
- There is a redundant 'Upload new digital asset' dialog when users upload an asset.
- There is an error when clicking a thumbnail that has been accidentally deleted in the file system.
- An asset's label displays incorrectly when users input HTML characters.
- A 403 page error occurs when users click on the download button from Digital Asset Manager UI Bean.
- Multiple errors occur when users input HTML characters into Domain and Tag domain.
- The tooltip of an asset is not updated after running the Refresh service.
- An error occurs after clicking on the 'Create a record' button in the 'History' table.
- The label and textbox of the 'Domain' field are not positioned correctly.
- An unknown record is automatically created in the 'Digital Asset Type' table.

Release Note 1.1.1

Release Date: August 16, 2017

Bug fixes

- A 'Drive type' that connects to cloud storage cannot be created.

Release Note 1.1.0

Release Date: April 18, 2017

New features

- A new public API is available to create, update, and delete digital assets and versions. It also allows connection to additional types of drives.

Bug fixes

- The system returns incorrect results when filtering label and domain.
- The 'Last update date' is not updated after users update domain and tag of an asset.
- Unauthorized access to resources is possible.

Warnings

- **Customers are strongly advised to upgrade to the latest version which patches the security issue.**

Release Note 1.0.2 fix 001

Release Date: April 18, 2017

Bug fixes

- Unauthorized access to resources is possible.

Warnings

- Customers are strongly advised to upgrade to the latest version which patches the security issue.

Release Note 1.0.3

Release Date: April 3, 2017

Bug fixes

- Even when users deactivate a digital asset, it still appears in the 'Digital asset list' pane, 'Attached' pane, and 'Media' field.
- The wrong current version of digital asset is downloaded.
- There is an error when previewing the digital asset when the file has been accidentally deleted in the file system.
- The digital assets cannot be loaded when the 'Digital asset type' option is set to 'image'.
- After modifying business version or comment, the system uploads the previously selected file again.
- Domain for a digital asset cannot be created when the 'Domain' field contains special characters.
- An unexpected error occurs in version management tab when displaying a digital asset without setting the current version.
- An unexpected error occurs when a digital asset has no label.
- Digital asset is not deleted after users click the 'Cancel upload' button.
- An unexpected error occurs when users modify `ebx.locales.available=en` in `ebx.properties`.

Release Note 1.0.2

Release Date: January 23, 2017

New features

- When specifying a Drive's storage location using the 'Physical root path' property it is now possible to use a relative path.

Bug fixes

- Abnormal behavior is recorded when importing an EBX® file.

Release Note 1.0.1

Release Date: October 28, 2016

New features

- Images that use the CMYK color space can be managed with the Digital Asset Manager Add-on.

Release Note 1.0.0

Release Date: October 12, 2016

New features

- A 'Media-type' field can be added to a data model to enable digital asset management.
- Assets can be uploaded using the add-on's services supplied at the administrative, dataset and field levels.
- An editor is available that allows you to perform the following actions on digital assets: upload, select, deselect, search, filter, edit, preview, download, share, deactivate and delete.
- Several custom services are available that allow you to perform asset management-specific actions in. The services are covered in more detail in the main documentation.
- It is possible to create a backup of, and restore the Digital Asset Manager Add-on's configuration settings and assets.