



# VANTAGE APP NOTE

## Using iconik with Vantage

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# Introduction

Telestream's Vantage Connector for iconik is an optional, licensed feature that enables you to integrate Vantage workflows with the iconik media asset management system (MAM). This connector enables seamless production workflows that create and ingest content into iconik collections, and retrieve files and metadata from existing assets in the iconic MAM. It is implemented in the iconik action (which is part of the Vantage Publish Service).

Vantage interacts with iconik MAMs by utilizing the iconik API. Application tokens and application IDs are used for authentication.

The iconik action enables you to create, deliver, and annotate assets in iconik—a cloud media management and collaboration system. iconik Cloud Media Management and Collaboration is an online, cloud-native hub which facilitates the organization of and collaboration around media assets. iconik enables team members to upload material; annotate this material and collaborate with other team members on material.

## iconik Connector Features

You can perform the following operations in iconik MAMs using the iconik action in Vantage workflows:

- Create Placeholder Asset
- Add File to Placeholder
- Add Time-Based Metadata
- Retrieve Time-Based Metadata
- Create Asset Relationship
- Assign Asset to Collection
- Create New Asset
- Retrieve Asset Metadata
- Update Asset Metadata
- Add File to Asset
- Generate Approval Request
- Retrieve File
- Share an Asset

## Vantage Requirements

This is the minimum version of Vantage which supports the iconik action:

- Vantage 8.2 Update Pack 2—Initial release.
- Vantage 8.2 Update Pack 3—additional operations and options

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**Note:** Vantage DOT releases (8.0, 8.1, etc.) always include previous ComponentPacs and Update Packs. For example, Vantage 8.1 includes all 8.0 ComponentPacs. Therefore, if you are using Vantage 8.1 or later, no ComponentPacs are required. Likewise, Vantage 8.2 contains all 8.1 Update Packs, so no older Update Packs are required.

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## Licensing Requirements

Use of the iconik action requires either the V-ICONIK-CONN-S or V-ICONIK-CONN-SW (perpetual) license.

The iconik action allows Vantage to connect to iconik's Cloud MAM services for asset creation, media transfers, metadata updates, and additional functionality. Each license allows 4 sessions of the iconik action to run concurrently.

Many iconik action operations execute API calls which complete very quickly. However, if an action is delivering media to iconik from a Vantage job, that delivery process utilizes one of the available sessions until it is complete.

Certain workflow use-cases employing the iconik action require additional licensed features. Examples include:

- Transcode Pro—Transcoding media to broadcast codecs/containers, prior to iconik MAM delivery.
- Metadata Conversion or Vantage Connect—Extracting metadata from JSON/XML sources.
- Metadata Conversion or Vantage Connect—Making additional HTTP requests to external systems.

# Configuring the iconic Action and Operations

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**Note:** In iconik MAMs, application tokens require setting an associated user. The user for the application token employed by Vantage must have sufficient permission and access in order to execute the desired operation implemented in the Vantage Workflow.

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## Operational Overview and Constraints

iconik supports a dynamic schema for many supported objects. In particular, objects such as Views and Metadata fields can have their definitions changed in an arbitrary or ad-hoc fashion while Vantage workflows are interacting with the MAM.

Vantage actions are static resources built with a definition from an iconik MAM at a specific point in time. If that definition changes after the action is configured, failure may occur if changes are not reflected in the action.

This implies that a Vantage workflow - built against a snapshot of the iconik definition at a specific time- may be invalidated, when an Admin-level user changes the underlying schema after the workflow was created and configured using the original schema.

## Schema Change Example

In this example, a metadata view is comprised of two fields: *Object\_Name\_Field1* and *Metadata\_Field2*.

A Vantage workflow including iconik operations is built against a given definition. Later, you remove *Object\_Name\_Field1*. Now, there is a potential problem when the workflow which used the original definition executes a job - without updating its configuration to correct the Vantage workflow based on the updated schema.

At a more granular level, consider that the original definition of the *Metadata\_Field2* is readable and writable (Read Only is NOT set). This implies that Vantage is able to write a new value into this metadata field during workflow execution. Now, the iconik system administrator changes *Metadata\_Field2* to a read-only field; workflows/actions configured with the initial definition (*Metadata\_Field2* was read + write) will encounter a problem.

Alternatively, if the sysadmin changes the name of the field from *Metadata\_Field2* to *Metadata\_Field3*; this results in incorrect data being sent to the iconik by a Vantage workflow which was configured with the original definition.

In each case - and any case where the schema is altered after workflows have been configured - it is your responsibility to verify that Vantage workflows that utilize iconik are correctly configured after schema changes have been made.

## Immutable Metadata Fields

Metadata fields within iconik can be assigned properties which make them immutable from the perspective of Vantage. Fields with Read-Only | Inherited properties are detected by Vantage and these fields are not allowed to be edited in Vantage.

In the Vantage implementation of metadata, when you select a view, Vantage determines the fields contained in that view at the time the view is selected. Any fields which are incapable of being manipulated by Vantage are not displayed in metadata editors when performing an update. (These fields however, *are* available when retrieving metadata).

For example, Vantage is performing an update to an asset—changing metadata. Read-only fields are not displayed, since the field is incapable of having its value modified or updated.

In another example, *URL* and *Tag cloud* fields must be updated in Vantage using RAW JSON. These types of fields display in Vantage as single parametric values, even when containing multiple values. Therefore, the field must be updated with RAW JSON that has been constructed manually, with a Construct action, or externally in some other program.

## Metadata Manipulation Constraints

Vantage can only manipulate metadata fields which correspond to these primitive data types: Integer | Text | Boolean. It is your responsibility or responsibility of the iconik system administrator to verify that only fields which Vantage can edit/manipulate are set as Required.

## Complex Field Example

For example, the field *\_gcvl\_tags* is a special field in iconik, related to AI detection in Google. As such, it is not intended to be updated by other client applications.

Therefore, Vantage does not display this field in any view which has Use in Filters enabled. If you mark this as a Required tag, Vantage generates an error when the workflow runs, because Vantage can't update this field.

## Required Fields Functionality

When an iconik field is defined as Required, Vantage ensures that an appropriate value is supplied in the corresponding metadata entry field. If the parameter which corresponds to this field is bound to a variable which is NULL | undefined or you enter a NULL | no value, the result is a runtime error—Vantage doesn't determine the validity of data entered at design time.

When updating fields, iconik has the same issue as Vantage—having an iconik asset open and manipulating metadata will not reflect field property changes until the entire view is reloaded. The issue is complicated in Vantage because of the static definition of the action at design time. Therefore, you should be very diligent to ensure that Vantage actions are updated whenever the iconik MAM schema changes.

## Operation Configuration

**Select the iconik Action Type.** Select the operation you want to perform in iconik with this action.

### Operations

- [Add File to Asset](#)
- [Add File to Placeholder](#)
- [Add Time-Based Metadata](#)
- [Assign Asset To Collection](#)
- [Create Asset Relationship](#)
- [Create New Asset](#)
- [Create Placeholder Asset](#)
- [Generate Approval Request](#)
- [Retrieve Asset Metadata](#)
- [Retrieve File](#)
- [Retrieve Time-Based Metadata](#)
- [Share an Asset](#)
- [Update Asset Metadata](#)

## Add File to Asset

Use the Add File to Asset operation to upload a new file from an on-prem location or add a link to a new file on a cloud platform to an existing asset (not a *placeholder* asset). Files may be one of three types: Subtitles | Format | Proxy. One file of each type may be added per action.

The asset must already exist in iconik: You can create an asset externally - directly in iconik - or you can create one using the Create New asset operation in a previous iconik action.

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**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

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### Authentication Credentials

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**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

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**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Asset Details

**Asset ID.** ID of the asset to which you want to add a file. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

## Adding a New Format

Check to add a new file of type Format and configure these controls:

**Enter the name for the Format** (Required). Specifies the format name to display in iconik.

**Format Media Nickname** (Required). Specifies the nickname of the media file(s) to upload (on-prem) or link (cloud-based) to the asset, entered manually or selected from the list.

**Storage for New Format** (Required). Specifies the name of the cloud store where to write the media. This list of stores is the available stores in the iconik system for the specified account.

**Media File Checksum.** When checked, specifies the checksum generated upstream for the file, such as an MD5, SHA-1 or SHA-256 hash from the Analyze action configured in File Properties.

## Adding New Subtitle Media

Check to add a new file of type Subtitle and configure these controls.

**Subtitle Nickname** (Required). Specifies the nickname of the file(s) to upload to the asset, entered manually or selected from the list.

**Subtitle Language.** Specifies the language of the subtitle.

**Storage for New Subtitle** (Required). Specifies the name of the cloud store where to write the media. This list of stores is the available stores in the iconik system for the specified account.

**Closed Caption.** Check to enable closed captioning.

**Create Transcription.** Check to generate a transcription, via speech to text.

## Adding Proxy Media

Check to add a new file of type Proxy and configure these controls.

The only file format supported for proxy uploading is MP4. The file name must be \*.mp4 or the job will fail. You can only add one proxy per asset. If the asset already has a proxy and the workflow attempts to upload another one without Delete existing Proxy enabled, then the action will not change the proxy.

**Proxy Media Nickname** (Required). Specifies the nickname of the file(s) to upload to the asset, entered manually or selected from the list.

**Storage for New Proxy** (Required). Specifies the name of the cloud store where to write the media. This list of stores is the available stores in the iconik system for the specified account.

**Delete Existing Proxy.** Check to delete the current proxy attached to the asset, if one exists. If the proxy has not yet been generated in iconik for this asset, setting this option to *true* will abort the iconik proxy generation job on the queue.

### Generate Variables

**Proxy Generated.** Check to generate a Boolean variable to indicate whether the proxy was successfully generated or not, and pass it downstream for use in other actions in the workflow.

### Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Add File to Placeholder

Use the Add File to Placeholder operation to upload files (identified by their nickname) from an on-prem location or add a link to the file on a cloud platform, in the specified format, to a cloud store and placed in an existing placeholder asset in the iconik system.

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**Note:** Adding a cloud-based file requires that you create a Vantage address in the Domain Management console to identify the platform, and provide credentials and a path to the bucket. You can submit a job that uses cloud-based media via the API or in Workflow Designer, manually submit a job using the Submit Job button.

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You should ensure that the placeholder asset ID corresponds to an existing placeholder asset. If it is not a valid ID, then this action will fail. Typically, you would have created a placeholder asset directly in iconik or you would have created one in Vantage using the Create Placeholder Asset operation, prior to performing this operation.

You should also ensure that the target storage is active in iconik; storage may have its state changed in iconik after this action has been created and configured. An upload which can not complete due to an invalid store causes the action to fail.

As a result of successfully executing the Add File to Placeholder operation, the placeholder asset will be changed to an asset in iconik and the file will be associated with the asset. This means that once this action executes successfully with a given Asset ID (representing a placeholder asset); it may never be executed again with the same ID since that asset is no longer a placeholder asset.

To add additional files to a newly-converted asset, utilize the Add File to Asset operation.

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**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

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## Configuration

### Authentication Credentials

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**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

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**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Asset Details

**Placeholder Asset ID** (Required). Specifies the ID of an existing placeholder asset.

**New Format Name** (Required). Specifies the asset name to identify the new media format. This name displays in iconik under Files > MEDIA FORMATS.

**Media File to Add** (Required). Specifies the nickname of the media file to upload (on-prem) or link (cloud-based) to the asset, which was assigned when the media was ingested or created in a previous action in the workflow.

**Media File Checksum.** When checked, specifies the checksum generated upstream for the file, such as an MD5, SHA-1 or SHA-256 hash from the Analyze action configured in File Properties.

**Storage** (Required). Specifies the name of the cloud store where to write the media. This list of stores is the available stores in the iconik system for the specified account.

**Next.** Click Next to continue configuration.

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the New Format Name, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Add Time-Based Metadata

Use the Add Time-Based Metadata to associate a series of segment metadata (time-based metadata) with a specified asset based on a specific view.

Since time-based metadata is highly dynamic - any number of segments can be annotated within a given asset and repeated entries of these fields may be made at different points (markers) in the timeline of the asset - you can construct a definition at runtime that enables multiple dynamic metadata entries when the action is executed at a later point in time.

Consider a view defined in iconik named *Segment Demo*, with two fields: Player Name and Position. When you are entering time-based metadata in iconik for a given asset, you select the desired view (in this example, *Segment Demo*). iconik displays the fields for data entry at a selected point in the timeline, represented by white and red markers in the scrubber.

---

**Note:** If a metadata field in iconik is writable and a Vantage action is configured to set the value for this field, Vantage jobs based on this configuration continue to be able to set its value if the metadata field is modified to be read-only.

If you change the privileges of an iconik metadata field that is used or set by Vantage, it is your responsibility to update iconik actions in affected workflows.

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### Authentication Credentials

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**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Time-Based Metadata Details

**Asset ID** (Required). Specifies the ID of the target asset.

**Segment Data Source** (Required). Specifies the nickname of the XML file that contains the metadata fields and values for each segment, in a schema that matches the specified metadata view. See the *IconikTimeBased Metadata Schema* topic below for schema specification and an example.

You may use style sheet transforms or similar to convert label-based data or other structured Vantage metadata into *IconikTimeBased* format.

**Select the Desired Metadata View for the Asset** (default: None). Specifies the view that defines the fields of time-based metadata to be added to the asset. When you select a specific metadata view, Vantage retrieves the fields and displays them for review.

**Fields for View <Specified View>**. Vantage queries iconik and displays the fields for the selected view.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## IconikTimeBased Metadata Schema

This schema must be used (and proper capitalization is required) to add time-based metadata to an asset, and contained in the XML file specified as the Segment Data Source.

Root element: `<IconikTimeBased>`

The root element may contain one or more child `<Segment>` elements.

Each `<Segment>` element contains one of each of these attributes:

- `color`: specified as the hex color value. For example, `color="#cc2e3b"`
- `timecode_start`: specifies the timecode start value, in the form `HH:MM:SS.MMM` or `HH:MM:SS:FF@FPS`.
- `timecode_end`: specifies the timecode end value, in the form `HH:MM:SS.MMM` or `HH:MM:SS:FF@FPS`.

Notice that the timecode's Seconds value (SS.MMM) may be specified in seconds and milliseconds to the thousandths instead of providing a frame value. You can also specify the frame value, but you must include the frame rate (SS:FF@FPS). For example, `timecode_start="00:00:37.028"` or `timecode_start="00:00:37:01@30"`.

If the data is at a single point in time, set *timecode\_end* equal to *timecode\_start*. Otherwise the data represents the span between the start and end timecodes. If the *timecode\_end* is not equal to or larger than the *timecode\_start*, then the end value is ignored and the *timecode\_start* is duplicated in the *timecode\_end*. Failure to supply correct timecodes may lead to action failure or issues that must be addressed in iconik directly.

The `<Segment>` element contains a `<Field>` element which correspond to each field defined in the desired view.

Each `<Field>` element shall consist of two attributes:

- *field\_name*: The field name exactly as it exists in iconik - no spaces are permitted.
- *field\_value*: The desired metadata value for the field name. If a newline character is required, the `&#xA;` character sequence should be used.

When a field contains a URL or tag field, the `<Segment>` must contain JSON definition. See example below.

### Example XML Metadata File

Here is an example XML file:

```
<IconikTimeBased>
  <Segment color="#cc2e3b" timecode_start="00:00:36:00@30"
timecode_end="00:00:36:00@30">
    <Field field_name="PlayerName" field_value="Red Foo"/>
    <Field field_name="Position" field_value="Pitcher"/>
  </Segment>
  <Segment color="" timecode_start="00:00:10.000"
timecode_end="00:00:10.000">
    <Field field_name="PlayerName" field_value="Joe Dirt"/>
    <Field field_name="Position" field_value="Catcher"/>
  </Segment>
</IconikTimeBased>
```

### Metadata Contains URL / Tag Fields Example

When a field contains a URL or tag field for time-based metadata, the segment data XML must contain a JSON blob for the URL or tag in the *field\_value* attribute. Here is an example:

```
<IconikTimeBased>
  <Segment color="#008080" timecode_start="00:00:15.116"
timecode_end="00:00:20.099">
    <Field field_name="URL" field_value='{"field_values":
[{"score":1,"value":"https://www.telestream.net/
"}, {"score":1,"value":"https://www.telestream.com/vantage/"}]}' />
    <Field field_name="TagCloud" field_value='{"field_values":
[{"score":1,"value":"Bicycle"}, {"score":1,"value":"Boating"}]}' />
  </Segment>
</IconikTimeBased>
```

## Assign Asset To Collection

Use the Assign Asset to Collection operation to associate the specified asset with a collection and generate specific information about the newly-created asset.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

---

## Configuration

### Authentication Credentials

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**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials do not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

### Asset and Collection Details

**Asset ID** (Required). Specifies the ID of the target asset.

**Interactive.** Specifies that you want to retrieve the collections from iconik and browse to select the target collection.

**Collection.** When Interactive is selected, Click the Browse button to the right of the Collection field to query iconik and display the collections. Browse the collections and select the target collection.

**Programmatic.** Specifies that the target collection is identified by ID.

**Collection ID.** When Programmatic is selected, manually enter the collection ID, obtained externally from the iconik system or click the green Browse button to select a variable which holds the collection ID, assigned the value from a previous action in the workflow.

## Generate Variables

**Asset Identifier.** Check to generate a text variable with the value of the asset ID, and pass it downstream for use in other actions in the workflow.

**Collection Identifier.** Check to generate a text variable with the value of the collection ID, and pass it downstream for use in other actions in the workflow.

**Collection Name.** Check to generate a text variable with the value of the collection name, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Create Asset Relationship

Use the Create Asset Relationship to create a new relationship between existing assets, identified by the ID of the assets.

Vantage can only create relationships between two assets per action. To create a relationship between one asset and two or more other assets, add an iconik action for each new relationship. For example, if you want one asset to be related to three other assets, add three iconik actions to the workflow, where each of these establishes a single relationship.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

---

## Configuration

### Authentication Credentials

---

**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Asset and Collection Details

**Asset ID** (Required). Specifies the ID of the target asset, entered manually or via a variable that holds the asset ID, updated in a previous action in the workflow.

**Related Asset ID** (Required). Specifies the ID of the asset to establish the relationship with, entered manually or via a variable that holds the asset ID, updated in a previous action in the workflow.

**Select the Desired Relationship for the Assets** (Required). Select the type of relationship to establish.

## Generate Variables

**Asset Name**. Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

**Related Asset Name**. Check to generate a text variable with the value of the related asset identifier, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish**. Click Next and click Finish to save the action.

## Create New Asset

Use the Create New Asset operation to create a new asset in iconik and optionally, upload local (on-prem) media or provide a link to media stored in cloud storage. Note that cloud-based media must be in a storage that is registered in iconik. To create the asset, you provide it a Vantage nickname, which may be used to reference the asset downstream in the workflow.

---

**Note:** You can submit a job that uses cloud-based media via the API or in Workflow Designer, manually submit a job using the Submit Job button.

---

You should ensure that the target storage is active in iconik; storage may have its state changed in iconik after this action has been created and configured. An upload which can not complete due to an invalid store causes the action to fail.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

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## Configuration

### Authentication Credentials

---

**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Create New Asset

**New Asset Name** (Required). Specifies the name you want to assign the new asset, entered manually or via a variable that holds the asset name, updated in a previous action in the workflow.

**Media File to Add** (Required). Specifies the nickname of the media file to upload (on-prem) or link (cloud-based) to the asset, entered manually or selected from the list.

**Media File Checksum.** When checked, specifies the checksum generated upstream for the file, such as an MD5, SHA-1 or SHA-256 hash from the Analyze action configured in File Properties.

**Storage** (Required). Specifies the name of the cloud store where to write the media. This list of stores is the available stores in the iconik system for the specified account.

**Specify Collection.** Optionally, specifies the collection to assign the new asset.

**Interactive.** Specifies that you want to retrieve the collections from iconik - browse to select the target collection.

**Collection.** When Interactive is selected, Click the Browse button to the right of the Collection field to query iconik and display the collections. Browse the collections and select the target collection.

**Programmatic.** Specifies that the target collection is identified by ID.

**Collection ID.** When Programmatic is selected, manually enter the collection ID, obtained externally from the iconik system or click the green Browse button to select a variable which holds the collection ID, assigned the value from a previous action in the workflow.

## Generate Variables

**Asset Identifier.** Check to generate a text variable with the value of the asset ID, and pass it downstream for use in other actions in the workflow.

**Collection Identifier.** Check to generate a text variable with the value of the collection ID and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Create Placeholder Asset

Use the Create Placeholder Asset operation to create a new asset in iconik without uploading media, assigning it a name.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

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## Configuration

### Authentication Credentials

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**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials do not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

### Asset Details

**Placeholder Name** (Required). Specifies the name you want to assign the new asset, entered manually or via a variable that holds the asset name, updated in a previous action in the workflow.

**Specify Collection.** Optionally, specifies the collection to assign the new asset.

**Interactive.** Specifies that you want to retrieve the collections from iconik - browse to select the target collection.

**Collection.** When Interactive is selected, Click the Browse button to the right of the Collection field to query iconik and display the collections. Browse the collections and select the target collection.

**Programmatic.** Specifies that the target collection is identified by ID.

**Collection ID.** When Programmatic is selected, manually enter the collection ID, obtained externally from the iconik system or click the green Browse button to select a variable which holds the collection ID, assigned the value from a previous action in the workflow.

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

**Asset Identifier.** Check to generate a text variable with the value of the asset ID, and pass it downstream for use in other actions in the workflow.

**Collection Name.** Check to generate a text variable with the value of the collection name, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Generate Approval Request

Use the Generate Approval Request operation to trigger the generation of an approval request email for the specified metadata view in iconik.

Executing this action results in the iconik MAM sending the same approval request email that is sent due to user-initiated approval requests. The request does not originate from Vantage.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

---

### Authentication Credentials

---

**Note:** Credentials are required and the operations which are available in the inspector are based on the operations authorized by the provided credentials. If authentication fails, Vantage displays an error: Unable to proceed, the specific application credentials to not appear to be valid. Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

### Asset Details

**Asset ID** (Required). ID of the asset that you want approved. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

**Specify the Metadata View for the Approval Request** (default: None). Select the metadata view to approve, from the list.

**Specify the Reviewers.** Check the iconik users that you want as reviewers of this request.

**External Reviewers.** Email address of external reviewers, separated by comma.

**Require All Reviewers Approval.** Check to require approval of all reviewers for this request to be approved.

**Message.** Specifies the message that accompanies this request. The message field is a single line text without returns. To create a custom, multi-line entry; use the Construct action to create a multi-line string and bind this field to the variable generated by the Construct action.

**Custom Title.** Specifies the title for this approval request.

**Link Expires (Required).** Specifies the deadline for approval - select from the calendar picker or enter it manually.

**Allow Download.** Check to enable reviewers to download the media file.

**Allow Download Proxy.** Check to enable reviewers to download the proxy file.

**Allow Custom Actions.** Check to enable reviewers to perform custom actions.

**Allow Comments.** Check to enable reviewers to enter comments.

**Approve Comments.** Check to enable reviewers to approve comments.

**View Transcriptions.** Check to allow reviewers to view transcriptions.

**Password.** Check to require a password for approval, and specify the password required.

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Retrieve Asset Metadata

Use the Retrieve Asset Metadata operation to retrieve the metadata from an existing asset in iconik, for use in the workflow.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

---

### Authentication Credentials

---

**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

### Asset Details

**Asset ID.** ID of the asset whose metadata you want to retrieve. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

**Select the Metadata View to be Retrieved** (default: None). Optionally, select the metadata view to be retrieved, from the list.

**Fields for View <Specified View>.** Vantage queries iconik and displays the fields for the selected view. Check the fields that you want retrieved and specify the variable to hold the value. The action publishes each variable for use in downstream actions in the workflow.

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

**Asset Identifier.** Check to generate a text variable with the value of the asset ID, and pass it downstream for use in other actions in the workflow.

**Raw Json Metadata.** Check to generate a text variable with the value of the retrieved metadata in JSON format, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Retrieve File

Use the Retrieve File operation to access iconik media so it is added to the job for file operations downstream, such as Copy.

For example, you want to download the file to your local Vantage system: use a Copy action in the workflow to copy the file locally. Or, you want to immediately trigger a Vantage Cloud transcode job; use the Cloud action to perform the task.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

---

### Authentication Credentials

---

**Note:** Credentials are required and the operations which are available in the inspector are based on the operations authorized by the provided credentials. If authentication fails, Vantage displays an error: Unable to proceed, the specific application credentials to not appear to be valid. Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

### Asset Details

**Asset ID** (Required). ID of the asset whose whose file you want to retrieve. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

### Retrieving a Format

Check to retrieve a pre-signed URL identifying the file of type Format and configure these controls:

**Enter the name of the Format to Retrieve** (Required). Specifies the format name to retrieve.

**Nickname of Newly Created Version** (Required). Specifies the nickname assigned to the pre-signed URL to the file you have just copied from iconik, entered manually or selected from the list.

## Retrieving Subtitles

Check to retrieve a pre-signed URL identifying the type of type Subtitle and configure these controls.

**Enter the name of the Subtitle to Retrieve** (Required). Specifies the subtitle name to retrieve.

**Nickname of Newly Created Version** (Required). Specifies the nickname assigned to the pre-signed URL to the attachment file you have just copied from iconik, entered manually or selected from the list.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

## Retrieve Time-Based Metadata

Use the Retrieve Time-based Metadata operation to retrieve the metadata from an existing asset in iconik, for use in the workflow. The action optionally emits the time-based metadata as either JSON and/or XML attachment file(s) based on its configuration.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

---

### Authentication Credentials

---

**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials do not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

### Asset Details

**Asset ID.** ID of the asset whose metadata you want to retrieve. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

**Select the Metadata View to be Retrieved** (default: None). Optionally, select the metadata view to be retrieved, from the list.

## Attachments to Generate

**XML Attachment | JSON Attachment.** Check Enable in either tabbed panel to generate an XML file and/or a JSON file containing the time-based metadata.

Complete these fields for each type of attachment to generate:

**Time-based Metadata Attachment Nickname.** Specifies the nickname of the file for use downstream, entered manually or selected from the list.

**Edit Filename Pattern.** Displays the Filename Pattern Editor and specifies the pattern for the file you are creating. Default: Base Name. Use the menu on the right side to select one or more tokens to insert to create the exact filename pattern you require.

You can use the following tokens:

- Base Name: The base name of the file, excluding the extension. The extension on the resulting file name is determined by the output you choose.
- Date: Select the format to use by clicking on the token in the pattern field.
- Time: Select the format to use by clicking on the token in the pattern field.
- Variable: Select the variable to use or create a new one, and click OK.

The Variable token is replaced by the value it holds when the action executes. The variable should be set prior to execution of this action. For example, if a Variable token named ISCI is given the value 12H4JA678, wherever the ISCI variable token appears in the filename pattern it is replaced with that value.

**Output Location.** Specifies where to store the file.

Open the Output Location panel and select from these choices:

- *Available Vantage Store:* Write the file(s) to any Vantage store, dynamically selected at run-time.
- *Vantage Store/Folder:* Write the file(s) to a specific Vantage store or folder. Select from the list, or click the Browse button to display the Vantage Folder Address Book where you can create, edit, and manage your Vantage folder addresses.

When you display the Vantage Folder Address Book, click the ? icon for more assistance. For more information on Vantage folder addresses, see the Vantage User Guide or the Vantage Domain Management Guide.

- *Path:* Write the file(s) to a specific Windows file system server and directory. Manually enter a Windows share (UNC path) or drive letter (not recommended on Vantage arrays) or click Browse to navigate and select the location. Or, click the green Variable button and select a variable which contains the fully-qualified path.

**Collision Resolution.** When a path is specified, determines how to resolve a collision with the same named file when writing it out.

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

**Asset Identifier.** Check to generate a text variable with the value of the asset ID, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

# Share an Asset

Use the Share an Asset operation to direct the specified iconik asset to share, and what permissions you grant the share recipients.

---

**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

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## Authentication Credentials

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**Note:** Credentials are required and the operations which are available in the inspector are based on the operations authorized by the provided credentials. If authentication fails, Vantage displays an error: Unable to proceed, the specific application credentials to not appear to be valid. Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

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**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Asset Details

**Asset ID** (Required). ID of the asset that you want to share. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

**Specify the Metadata View for the Share** (default: None). Optionally, select the metadata view to share, from the list.

**Specify the Users to Share With.** Check the iconik users that you want to share this asset with.

**External Share.** Email address of external share recipients, separated by comma.

**Message.** Specifies the message that accompanies this request. The message field is a single line text without returns. To create a custom, multi-line entry; use the Construct

action to create a multi-line string and bind this field to the variable generated by the Construct action

**Custom Title.** Specifies the title for this share operation.

**Link Expires** (Required). Specifies the date when sharing automatically terminates - select from the calendar picker or enter it manually.

**Allow Download.** Check to enable share recipients to download the media file.

**Allow Download Proxy.** Check to enable share recipients to download the proxy file.

**Allow Custom Actions.** Check to enable share recipients to perform custom actions.

**Allow Comments.** Check to enable share recipients to enter comments.

**Approve Comments.** Check to enable share recipients to approve comments.

**View Transcriptions.** Check to allow share recipients to view transcriptions.

**Password.** Check to require a password for sharing, and specify the password required.

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.

# Update Asset Metadata

Use the Update Asset Metadata operation to update the metadata of a specified asset.

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**Note:** Controls with a green Browse button may be bound to a variable to dynamically assign their setting or value. The variable must have a value when this action executes. You can assign the value to the variable in a previous action in the workflow or use the variable's default value. Click Browse to select the variable or create a new one.

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## Authentication Credentials

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**Note:** The iconik Connector provides Vantage the authorization to utilize the buckets registered in the Iconik account.

Credentials are required for authentication, and the operations which are available in the inspector are based on the operations authorized by the iconik credentials this action is using.

If authentication fails, Vantage displays an error: "Unable to proceed, the specific application credentials to not appear to be valid".

Click OK to dismiss the dialog. Verify your iconik server's IP address or domain name, application token and application ID and try again. Configuration can not continue until Vantage connects to your iconik system.

---

**Server** (Required; default: app.iconik.io). Specifies the iconik server's IP address or domain name.

**Application Token** (Required). Specifies the authentication token that is used by Vantage to connect.

**Application ID** (Required). Specifies the application ID that is specified for Vantage integration.

**Next.** Click Next to continue configuration. Vantage attempts to authenticate your application token and connect using the specified application ID.

## Asset Details

**Asset ID.** ID of the asset whose metadata you want to update. Manually enter the ID or click the green Browse button to assign a variable whose value is the asset ID, updated from a previous action in the workflow.

**Select the Desired Metadata View for the Asset** (default: None). Optionally, select the metadata view to update, from the list.

**Fields for View <Specified View>.** Vantage queries iconik and displays the fields for the selected view. Check the fields that you want updated and specify the variable that holds the value.

Some field types, such as *URL* and *Tag cloud* fields must be manipulated in Vantage using RAW JSON. Therefore, the field must be updated with RAW JSON that has been constructed manually, with a Construct action, or externally in some other program.

**URL and Tag Cloud Fields Example.** Here are JSON input examples:

URL Field Example:

```
[
  {
    "label":"some url",
    "value":"http://mybucket/myfolder/myfile.jpg"
  },
  {
    "label":"some other url",
    "value":"http://someotherserver/myfolder/myfile.jpg"
  }
]
```

OR

```
[{"label":"some url","value":"http://mybucket/myfolder/myfile.jpg"},{"label":"some other url","value":"http://someotherserver/myfolder/myfile.jpg"}]
```

Tag Cloud Field Example:

```
[
  {
    "score":1,
    "value":"My Tag 1"
  },
  {
    "score":1,
    "value":"My Tag 2"
  }
]
```

OR

```
[{"score":1,"value":"My Tag 1"}, {"score":1,"value":"My Tag 2"}]
```

## Generate Variables

**Asset Name.** Check to generate a text variable with the value of the asset name, and pass it downstream for use in other actions in the workflow.

**Asset Identifier.** Check to generate a text variable with the value of the asset ID, and pass it downstream for use in other actions in the workflow.

## Complete the Action

**Next and Finish.** Click Next and click Finish to save the action.



## Prototype iconik Workflows

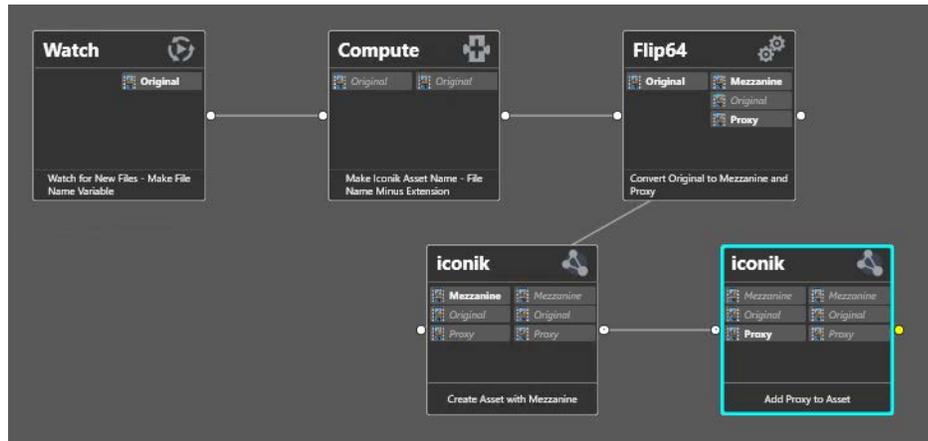
These prototype workflows introduce typical use-case scenarios for interacting with an iconic MAM and using selected iconik operations.

### Topics

- [Creating an Asset with Mezzanine and Proxy](#)
- [Creating Mezzanine Asset with Proxy and Subtitles and Shared](#)
- [Creating an Asset with Metadata and Approval Request](#)
- [Download File and Create Asset, Update Metadata, and Request Approval](#)

## Creating an Asset with Mezzanine and Proxy

In this workflow, media to be added to an iconik MAM is transcoded into a mezzanine file plus a proxy file. An asset is created with mezzanine media along with the proxy and the asset is then shared with other users:



**Watch**—This action monitors a specified folder and launches a new job when new media is written to the folder. It creates a File Name variable with the ingested file name for use by the Compute action.

**Compute**—This action selects the base name of the media file from the string in the File Name variable, and updates another text variable (for example, *iconik asset name*) with the text string for use as the asset name, in downstream actions.

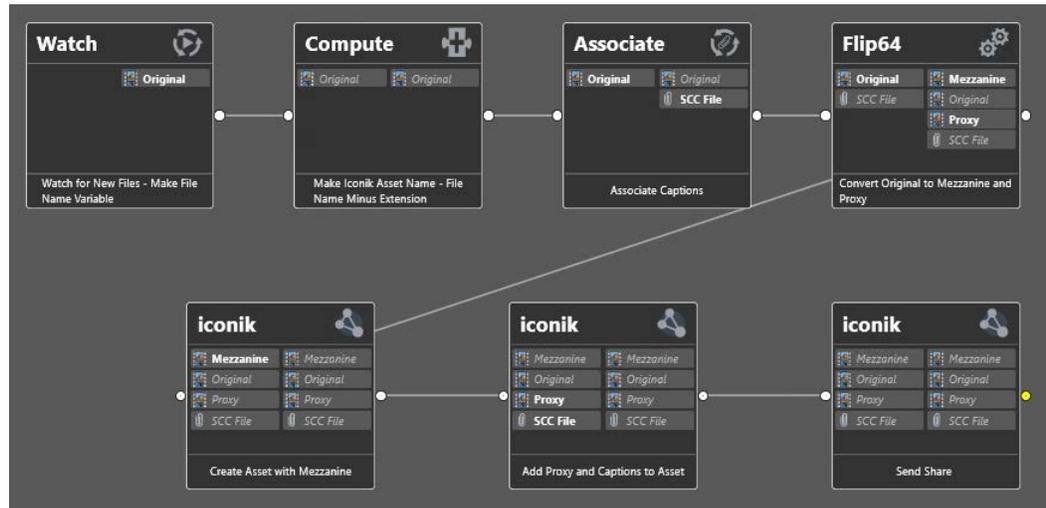
**Flip64**—This Flip64 action is configured to transcode the ingested media file into a mezzanine QuickTime file, and a proxy MPEG-4 file.

**iconik (1)**—The first iconik action executes the *Create New Asset* operation, providing the asset name in the variable from the Compute action, of the Mezzanine file generated in Flip64, and the specified storage and collection. Two additional variables are created: an asset identifier and a collection identifier, for use downstream.

**iconik (2)**—The second iconik action executes *Add File to Asset* to add the proxy file and subtitle SCC file ingested by the Associate action.

## Creating Mezzanine Asset with Proxy and Subtitles and Shared

In this workflow, media to be added to an iconik MAM is transcoded into a mezzanine file plus a proxy file. An asset is created with mezzanine media, along with the proxy and SCC file, and the asset is then shared:



**Watch**—This action monitors a specified folder and launches a new job when new media is written to the folder. It creates a File Name variable with the ingested file name for use by the Compute action.

**Compute**—This action selects the base name of the media file from the string in the File Name variable, and updates another text variable (for example, *iconik asset name*) with the text string for use as the asset name, in downstream actions.

**Associate**—The Associate halts job execution until it identifies the associated SCC file and ingests it for utilization in the workflow.

**Flip64**—This Flip64 action is configured to transcode the ingested media file into a mezzanine QuickTime file, and a proxy MPEG-4 file.

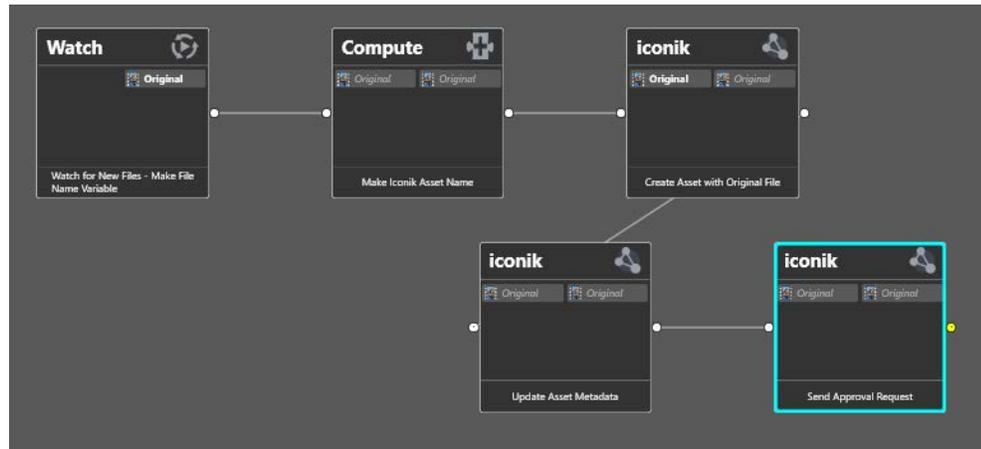
**iconik (1)**—The first iconik action executes the [Create New Asset](#) operation, providing the asset name in the variable from the Compute action, of the Mezzanine file generated in Flip64, and the specified storage and collection. Two additional variables are created: an asset identifier and a collection identifier, for use downstream.

**iconik (2)**—The second iconik action executes [Add File to Asset](#) to add the proxy file and subtitle SCC file ingested by the Associate action.

**iconik (3)**—The final iconik action executes the [Share an Asset](#) operation, identifying the asset, specified users and options configured as appropriate. An email with link is sent to the specified users.

## Creating an Asset with Metadata and Approval Request

In this workflow, media to be added to an iconik MAM has already been encoded as appropriate, and is read for adding to the MAM. The asset name string is constructed and the file is added, along with selected metadata and an approval request via email:



**Watch**—This action monitors a specified folder and launches a new job when new media is written to the folder. It creates a File Name variable with the ingested file name for use by the Compute action.

**Compute**—This action selects the base name of the media file from the string in the File Name variable, and updates another text variable (for example, *iconic asset name*) with the text string for use as the asset name, in downstream actions.

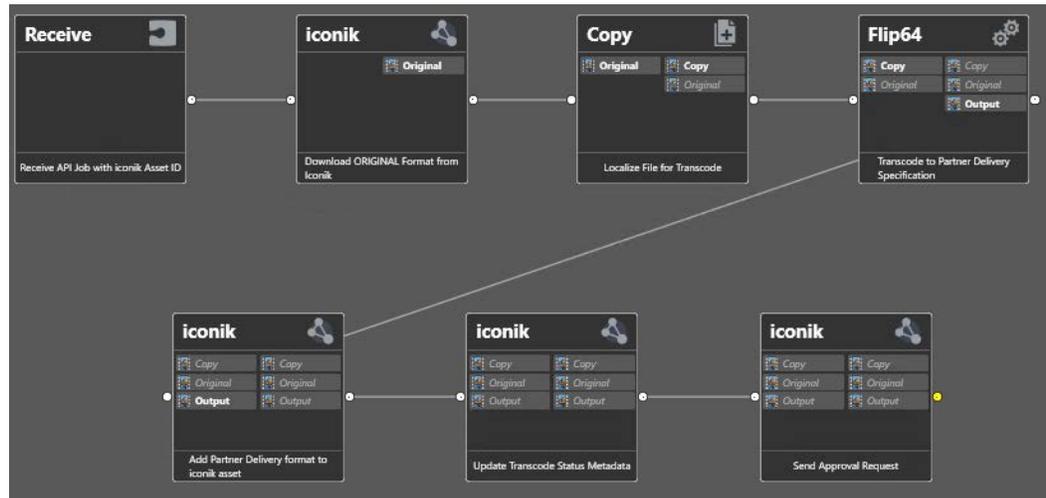
**iconik (1)**—The first iconik action executes the *Create New Asset* operation, providing the asset name in the variable from the Compute action, of the Mezzanine file generated in Flip64, and the specified storage and collection. Two additional variables are created: an asset identifier and a collection identifier, for use downstream.

**iconik (2)**—The second iconik action executes the *Update Asset Metadata* operation using the asset name variable. It specifies a metadata view, and selected fields as appropriate.

**iconik (3)**—The final iconik action executes *Generate Approval Request* identifying the asset, specified users and approval options configured as appropriate. An email with link is sent to the specified users.

## Creating an Asset from a Cloud File, Updating Metadata, and Requesting Approval

In this workflow, media to be added to an iconik MAM is retrieved from the cloud via a pre-signed URL. The asset is transcoded and added, metadata is updated and an approval request via email:



**Receive**—This action monitors launches a new job when initiated via a manual or API-based submission. Local media is not submitted to this workflow to initiate a job.

**iconik (1)**—The first iconik action executes the [Retrieve File](#) operation, generating a pre-signed URL to obtain specified media from its source.

**Copy**—The Copy action copies the file identified in the pre-signed URL and places it locally, in an available Vantage store for further processing.

**Flip64**—This Flip64 action transcodes the ingested media file into a QuickTime file.

**iconik (2)**—The second iconik action executes the [Add File to Asset](#) operation using the asset name variable for the asset ID.

**iconik (3)**—The next iconik action executes [Update Asset Metadata](#) identifying the asset, setting the desired metadata view and updating the transcode status.

**iconik (4)**—The final iconik action executes [Generate Approval Request](#) identifying the asset, specifying users and approval options configured as appropriate. An email with link is sent to specified users.