Retrieve SKUs

# Actors

DDC System

DDC Ops

# Activities

## 1. Receive asset list

Accept the list of assets to be retrieved as input into this activity.

## 2. Get the metadata for asset

Fetch the metadata for this asset.

## 3. Check whether only metadata was requested

Certain instructions in an order may request that an only a metadata be retrieved, not the SKU itself.

## 4. Metadata only or asset also?

Decision node with two outcomes:  
1. "Metadata" -- only metadata is required  
2. "Both" -- both the metadata and the SKU are required.

## 4a. Check for asset presence

Make sure the asset exists prior to retrieval.

## 5a. Is asset present?

Decision node with two outcomes:  
1. "Yes" -- the assets are present, proceed.  
2. "No" -- the assets are missing, pause and try to fix.

## 6a. Fetch the asset

Retrieve the given asset from the Digital Asset Management system.

## 7a. Fetch the corresponding encryption key

Assets are stored at rest using a symmetrical key, the same key is used for both encryption and decryption. Get the key necessary to decrypt the asset.

## 8a. Decrypt the asset

Decrypt the asset using the key retrieved above.

## 6b. Pause activity

Place the flow on hold, pending error resolution.

## 7b. Notify DDC Ops

This activity notifies DDC Ops, usually in cases of error.

## 8b. Attempt error fix

An asset may have been mislabeled or stored in a wrong location. This step attempts to fix errors that are fixable.

## 9b. Error fixed?

Decision node with two outcomes:  
1. "Yes" -- the error has been fixed, resume processing  
2. "No" -- the error has not been fixed, notify content provider.

## 9. Check for more assets

Check whether more assets are to be retrieved or not.

## 10. More assets?

Decision node with two outcomes:  
1. "Yes" -- more assets are needed.  
2. "No" -- we are done, exit.

## 10d. Notify content provider

This step notifies the content providers with a status update, usually in cases of an error.

## 10c. Resume processing

Resume processing after an error fix.

# Preconditions

A list of assets to be retrieved has been prepared.

# Postconditions

Specified assets have been retrieved and are ready for packaging.