Managing Inventories on asset custom field value change - Fixed amount - Example 2

It is possible to track quantity of an asset while it is added to the issue custom field or removed from it. Please follow the steps of the following example.

1- Define a Quantity attribute
2- Add it to the desired form
3- Create multiple assets and set Quantity values (i.e 50, 40, 30)
4- Define a screen to Update Asset -
5- Define a new transition with Update Asset screen
6- Define the post function to update quantity for the Update Asset transition
   • Post function Groovy Script
7- Test it on Post Function Create Screen and publish workflow
8- Update assets with Update Asset transition

In this example, we'll define a global transition with a custom screen (Update Asset) to increase or decrease quantity value of an asset when it is added or removed from asset custom field. Asset won't be updated when asset won't added to the issue or removed from it.

1- Define a Quantity attribute

![Edit Attribute](image)

Name: Quantity
Type: Text Field

![Save, Cancel buttons](image)

2- Add it to the desired form

![Edit Form Phone](image)

You can define the attributes (fields) of the form. Click here to list assets of Phone.

Name: Phone
Attribute(s): -- Please select --
Vendor
Model
Quantity

![Save, Cancel buttons](image)

3- Create multiple assets and set Quantity values (i.e 50, 40, 30)
4- Define a screen to Update Asset -

Configure Screen

<table>
<thead>
<tr>
<th>Field Tab</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Field</td>
<td>Type</td>
</tr>
<tr>
<td>Assets</td>
<td>AIP Assets And Inventory Plugin Custom Field</td>
</tr>
</tbody>
</table>

Remove asset custom field from edit and create screens. Only this screen will update assets on transition. View Issue screen will have Asset custom field as read-only.

AP: Project Management Screen Scheme

<table>
<thead>
<tr>
<th>These 2 issue types...</th>
<th>...use this screen scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task</td>
<td><img src="image" alt="AP: Project Management Create Issue Screen" /></td>
</tr>
<tr>
<td>Sub-task</td>
<td><img src="image" alt="AP: Project Management Edit Issue Screen" /></td>
</tr>
<tr>
<td>View Issue</td>
<td><img src="image" alt="AP: Project Management View Issue Screen" /></td>
</tr>
</tbody>
</table>
5- Define a new transition with Update Asset screen

In this example it is defined as All-to-self. You can define for a specific status as well.
6- Define the post function to update quantity for the Update Asset transition

Select Add "[AIP] - Update Asset workflow postfunction" to the workflows to update an asset object on transition. And select Quantity field. Leave form parameter as blank to set any matching form.

Update parameters of the [AIP] - Update Asset workflow postfunction Function for this transition.

<table>
<thead>
<tr>
<th>Condition</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text a groovy script as condition of the post function. Function must return true or condition must be empty to pass. If condition fail, post function will be ignored.</td>
<td></td>
</tr>
<tr>
<td>Try groovy script</td>
<td></td>
</tr>
</tbody>
</table>

Target Asset custom fields

Select custom fields

Specify the custom field to update assets. Leave it blank to update all Asset custom fields.

Default groovy script

```groovy
import inventoryplugin.entity.JipInventoryItem;
import org.apache.commons.lang3.StringUtils;

// as field is a Text type we need to convert value to int and return as String
String getNewQuantityValueOfAsset() {
    def stringValue = StringUtils.trim(aipUtils.getAttributeValueAsStringByName(asset, 'Quantity'))
    if (stringValue != null && stringValue.isInteger()) {
        int intValue = stringValue as Integer
        if (assetStatus == 'added') intValue--
        else if (assetStatus == 'removed') intValue++
        return intValue as String
    } else {
        return stringValue
    }
}

// If you want to do nothing for assets removed from issue uncomment code.
// if (assetStatus == 'removed') return null;
return getNewQuantityValueOfAsset();
```

This is the default script to be executed for the options that have no specific groovy script. Type script returning the value to update asset attribute e.g. return issue. summary. If you do not want to change the attribute value return null. If you want to clear the attribute value return empty string: return ''. 

Try groovy script

Post function Groovy Script

```groovy
import inventoryplugin.entity.JipInventoryItem;
import org.apache.commons.lang3.StringUtils;

// as field is a Text type we need to convert value to int and return as String
String getNewQuantityValueOfAsset() {
    def stringValue = StringUtils.trim(aipUtils.getAttributeValueAsStringByName(asset, 'Quantity'))
    if (stringValue != null & stringValue.isInteger()) {
        int intValue = stringValue as Integer
        if (assetStatus == 'added') intValue--
        else if (assetStatus == 'removed') intValue++
        return intValue as String
    } else {
        return stringValue
    }
}

// If you want to do nothing for assets removed from issue uncomment code.
// if (assetStatus == 'removed') return null;
return getNewQuantityValueOfAsset();
```

aipUtils.getAttributeValueAsStringByName returns the Quantity attribute value of the asset.
"return null" result won't update asset. If you want to clear attribute value return empty string "return ''"

This script will be executed for each assets of all custom fields that matches the configuration. Assets also includes removed assets to let you control inventory. If you want to do nothing for assets removed from issue you can use if (assetStatus == 'removed') return null

7- Test it on Post Function Create Screen and publish workflow

8- Update assets with Update Asset transition

First: Issue has no assets

3 Phones have 50, 40, 30 Quantity values
<table>
<thead>
<tr>
<th>Asset ID</th>
<th>Asset name</th>
<th>Form</th>
<th>Vendor</th>
<th>Model</th>
<th>Quantity</th>
<th>Serial Number</th>
<th>IMEI</th>
<th>Screen Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2102</td>
<td>MP-001</td>
<td>Phone</td>
<td>AcBel</td>
<td>iPhone 7 Plus 32 gb</td>
<td>50</td>
<td>1234234234</td>
<td>w234234234</td>
<td>5.5&quot;</td>
</tr>
<tr>
<td>#2101</td>
<td>MP-002</td>
<td>Phone</td>
<td>Samsung</td>
<td>S8</td>
<td>40</td>
<td>12312312312</td>
<td>2342342342</td>
<td>5.7&quot;</td>
</tr>
<tr>
<td>#2100</td>
<td>MP-003</td>
<td>Phone</td>
<td>Sony</td>
<td>Xperia XZ3</td>
<td>30</td>
<td>12312312312</td>
<td>12312312312</td>
<td>4.7&quot;</td>
</tr>
</tbody>
</table>

Keyboard shortcuts

Issue updated with transition
Issue updated and 2 phones are updated with have 49 and 39 quantity values
Now 3rd asset is added

<table>
<thead>
<tr>
<th>Asset ID</th>
<th>Asset name</th>
<th>Form</th>
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<th>Model</th>
<th>Quantity</th>
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</tr>
</thead>
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<td>AcBel</td>
<td>iPhone 7 Plus 32 gb</td>
<td>49</td>
<td>1234234234</td>
<td>w234234234</td>
<td>5.5&quot;</td>
</tr>
<tr>
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<td>MP-002</td>
<td>Phone</td>
<td>Samsung</td>
<td>S8</td>
<td>39</td>
<td>1231231234</td>
<td>234234234</td>
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<td>30</td>
<td>1231231234</td>
<td>12312312312</td>
<td>4.7&quot;</td>
</tr>
</tbody>
</table>
Quantity values after update is 49, 39, 29

Now 2 assets are removed
Quantity values after update is 49, 40, 30
<table>
<thead>
<tr>
<th>Asset ID</th>
<th>Asset name</th>
<th>Form</th>
<th>Vendor</th>
<th>Model</th>
<th>Quantity</th>
<th>Serial Number 1</th>
<th>IMEI 1</th>
<th>Screen Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2102</td>
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