

Location Upsert & Location User Actions

This feature guide describes the upsert functionality for Locations.

The following functionalities will be covered:


- create & update of locations
- status changes of locations via user action
- adding/removing of a location from/to networks via user action

Pre-Requisites

 Location plugin version required: 1.1.0


The required rules are:

- Validation Rules:
 - ValidateIncomingLocation
- Flow Control Rules:
 - ForwardIfLocationExists
 - ForwardIfLocationNotExists
- Mutation Rules:
 - CreateLocation
 - CreateUserForLocation
 - CreateLocationSetting
 - UpdateLocation
 - UpdateUserForLocation
 - AddNetworksToLocation
 - RemoveNetworksFromLocation
- Generic Rules:
 - Forward
 - ForwardIfIncomingAttributeEquals

 A master (system) location and corresponding location user is required to be setup in order to provide an entry point into the workflow.

Overview

The workflow design for the Location upsert & user action functionality can be found in the *docs/workflowDesign/GIWorkflows.drawio* file.

 In combination with "GI Variant Product / Location Status Updates" the status change of a location can result in a high number of scheduled events depending on the number of inventory positions which need to be notified.

Master Location & Workflow

Workflow

The workflow template which supports the location upsert functionality and the location user actions can be found in *config/workflows/LOCATION-STORE.json*.

Master Location Setup

A master location for each location type is required to be setup as an entry point for incoming events in order to trigger the orchestration. The following steps describe how a master location is setup (note some fields contain sample data):

1. Creation of the master location (for STORE)

```

mutation createLocation($retailerId:ID!){
  masterLocation:createLocation(input:{
    ref: "MASTERLOC"
    name: "Master Location"
    retailer:{id:$retailerId}
    type: "STORE"
    primaryAddress:{
      ref:"MASTERLOC"
      companyName: "Master Location"
      street: "Master Street"
      city: "Master City"
      state:"Master State"
      postcode: "0000"
      country: "Master Country"
      latitude: 0.0
      longitude: 0.0
    },
    openingSchedule:{
      allHours:false
      monStart:900
      monEnd:1800
      tueStart:900
      tueEnd:1800
      wedStart:900
      wedEnd:1800
      thuStart:900
      thuEnd:1800
      friStart:900
      friEnd:1800
      satStart:900
      satEnd:1800
      sunStart:900
      sunEnd:1800
    }
  }) {
    id
  }
}

```

2. Creation of the master location user (required for orchestration execution)

```

mutation createLocationUsers(
  $retailerId:ID!
  $masterStoreId:ID!
){
  masterUser:createUser (
    input: {
      ref:"MASTERLOC:1"
      username: "MASTERLOC:1"
      primaryEmail: "masterloc1@example.com"
      firstName: "Master"
      lastName: "Location"
      type:"AGENT"
      password:"MASTERLOC:1"
      primaryLocation: {
        id:$masterStoreId
      }
      timezone:"Australia"
      primaryRetailer:{
        id:$retailerId
      }
      roles: [
        {
          role: {
            name: "STORE"
          },
          contexts: [
            {
              contextId: $masterStoreId
              contextType: "AGENT"
            },
            {
              contextId: $retailerId
              contextType: "RETAILER"
            }
          ]
        }
      ]
    }
  ){
    ref
    username
  }
}

```

3. Activation of the master location

```

mutation updateLocation($masterStoreId: ID!) {
  masterStore: updateLocation(
    input: {
      id: $masterStoreId,
      status: "ACTIVE"
    }
  ){
    ref
    status
  }
}

```

✖ If another location type e.g. WAREHOUSE is required, the corresponding master location and workflows need to be setup in the same way as described above.

ℹ If multiple location types are available, it is possible to change the type of a location via the upsert location event.

Known Limitations

1. The upsert location does not support Storage Area.
2. Additional location users need to be added outside of the upsert event.

Upsert Location Event

1. Upsert Location Event Sample

Sample Event - Upsert Location (STORE)

```

{
  "retailerId": "{{retailer_id}}",
  "name": "UPSERT_LOCATION",
  "entityId": "{{masterStoreId}}",
  "entityRef": "MASTERLOC",
  "entityType": "LOCATION",
  "entitySubtype": "STORE",
  "attributes": {
    "retailerId": "{{retailer_id}}",
    "ref": "LOC_CHA",
    "status": "ACTIVE",
    "locationUserFirstName": "Chatswood",
    "locationUserLastName": "Store",
    "locationUserEmail": "loc_cha@example.com",
    "locationUserTimezone": "Australia/Sydney",
    "supportPhoneNumber": "3333333333",
    "name": "Chatswood Store",
    "type": "STORE",
    "addressCompanyName": "Chatswood Store 3",

```

```


    "addressStreet": "173 Victoria Ave",
    "addressCity": "Chatswood",
    "addressState": "NSW",
    "addressRegion": "Region1",
    "addressPostcode": "2067",
    "addressCountry": "Australia",
    "addressLatitude": -33.7929487,
    "addressLongitude": 151.1933544,
    "addressTimeZone": "Australia/Sydney",
    "allHours": true,
    "monStart": 800,
    "monEnd": 1800,
    "tueStart": 800,
    "tueEnd": 1800,
    "wedStart": 800,
    "wedEnd": 1800,
    "thuStart": 800,
    "thuEnd": 1800,
    "friStart": 800,
    "friEnd": 1800,
    "satStart": 800,
    "satEnd": 1800,
    "sunStart": 800,
    "sunEnd": 1800,
    "networkRefs": [ "BASE", "SYD_CC" ],
    "attributes": [
      {
        "name": "name",
        "value": "value",
        "type": "STRING"
      }
    ]
  }
}

```

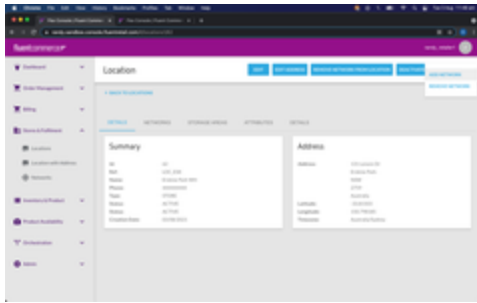
User Actions

Adding/Removing Network to/from Location

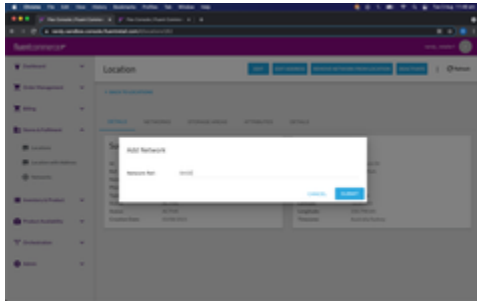
The location workflow supports adding and removing locations from/to a network via user actions.

 The workflow does not trigger any recalculations of inventory or virtual catalogues.

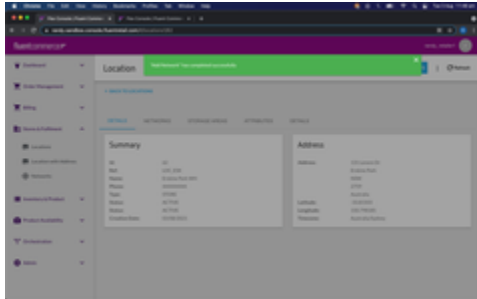
1. Add a network to a location
 - a. "Add Network" button is showing as a secondary button:



b. Enter the network reference

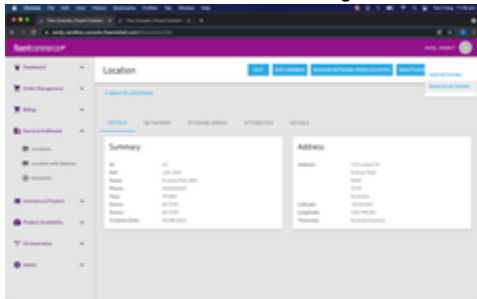


c. Click on Submit button, the confirmation text displayed on the screen:

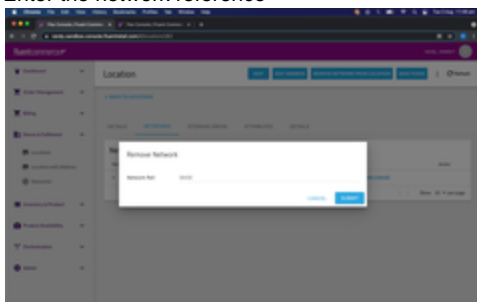


2. Remove a network from a location

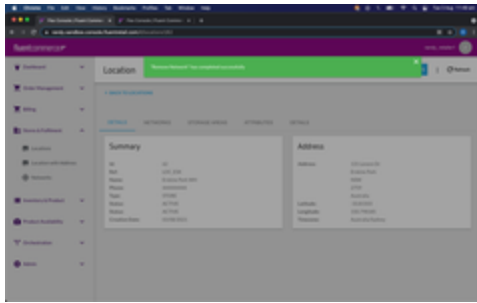
a. "Remove Network" button is showing as a secondary button:



b. Enter the network reference



c. Click on Submit button, the confirmation text displayed on the screen:

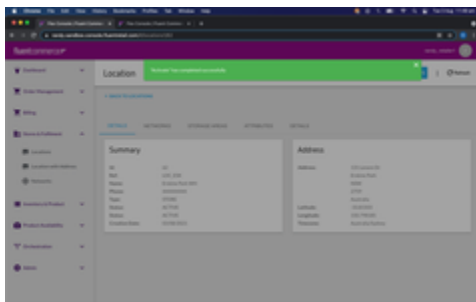
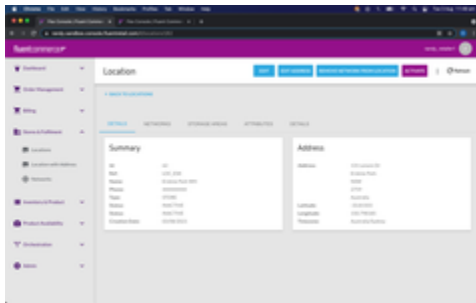


Activate / Deactivate a location

The location workflow supports the activation and de-activation of locations.

⚠ This functionality currently triggers a recalculation of inventory which might impact platform performance! Please remove with high-volume clients.

1. Activate a network to a location



2. Deactivate a network to a location

