

Fluent Starter Guide

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Introduction

This document describes the details of Expert Services (ES) Starter Pack and covers some initial steps to kickstart the implementation for the Customer or to get the Sandbox configured for Partner development activities. (Accelerators, POCs, continued training) Although the Fluent LaunchPad v1.0 covers an account and retailer setup, it is very much tailored to training purposes and may create unwanted data or configurations.

 The partner is still required to perform the account setup & configuration (e.g. retailer setup, permissions & settings etc.)

Fluent Account Handover

 A Fluent account can only be requested once a signed Fluent Order Form for the client subscription has been received.

For Partner Sandbox Accounts, the Account may only be requested once an Alliance Agreement and requisite training is completed

Once the account has been provisioned the ES Consultant will share a one-time-secret link to the corresponding credentials for the account including:

- account id
- *account username*
- *account user password*
- *account client secret*

These credentials can then be used to authenticate against the Fluent platform to retrieve account token using the following endpoint:

```
1 POST https://<account_id>.sandbox.api.fluentretail.com/oauth/token?username=
2 <account_username>&password=<account_user_password>&client_id=<account_id>&
3 client_secret=<account_client_secret>&grant_type=password&scope=api
```

The returned account token is required to proceed with account and retailer setup.

High Level Steps of a Fluent Account Setup

The following describes the the high level steps of a Fluent account setup:

1. *Retailer(s): Create the retailer(s) in the account using a batch job.*
2. *Permissions & Roles: Add additional roles and assign roles to users. E.g. super admin role, assign GRAPHQL role to the Rubix system user.*
3. *Settings: Enable feature flags and add required settings. E.g. RUBIX_ENABLED, INVENTORY_BATCH_ENHANCEMENT_ENABLED.*
4. *Carrier(s): Setting up a carrier which is required for home delivery.*
5. *Users: Setup of users such as portal users, super admin users etc.*
6. *Reference Modules: Deploy plugins for each reference module.*
<https://lingo.fluentcommerce.com/asset-library/>
7. *Inventory Reference Module Workflows: Load workflows from Global Inventory reference module.*
8. *Global Inventory Catalogues: Setup of GI catalogues such as inventory, product & virtual catalogues.*
9. *Fluent Apps: Configuration of Fluent OMS, Fluent Store.*
10. *Fulfilment Reference Module Workflows: Load Location workflow from Fulfilment reference module*
11. *System locations: Setup of system locations, e.g. system rejection & master location.*
12. *Networks: Setup of networks for grouping of locations for global inventory (virtual catalogues), home delivery and click & collect purposes.*
13. *Order Reference Module Workflows: Load Order workflows from Order reference module*

Starter Pack Contents

Postman Collection and Sample Environment File

Included in the ES Starter Pack are two files to import into Postman.

- `Fluent OMS Partner.postman_collection.json` - Fluent OMS Partner Collection is a Postman Collection with sample API's that are commonly used to configure and maintain the Fluent OMS.
- `ACCOUNT_env.postman_environment.json` - A sample Environment file with variables that are used by the Fluent OMS Partner Collection. Update the file with the initial account information, and add additional values as the account is configured, i.e. retailer information.

ES Starter Workflow Recommendations

The follow includes recommendations for deploying and implementing the workflows in a Fluent Account.

Workflow Deployment and Templating

The ES Starter Pack uses shell scripts and a properties file for workflow deployment.

Scripts

- `config/workflow.sh` - main script file to deploy a single workflow.
- `config/workflow-all.sh` - main script file to deploy all workflows in the workflows directory.
- `config/workflows/workflow - update.sh` - must reside in the workflows directory. Called by either main script and does most of the work.

Properties File

The scripts use a json "properties" file with properties specific to a Fluent Account e.g. credentials, retailers, catalogues, escalation locations, etc... Maintaining the Account specific information in a properties file allows the same workflow to get deployed to all accounts for a customer.

There is a sample properties file provided `config/properties/sample_variables.json`. The properties file contains the account level properties at the beginning. Copy the file `properties/sample_variables.json` to a new property file and update the properties specific to the account.

For each retailer duplicate the retailer json and change the retailer-ref to the ref for the retailer.

```
{
  "account_id": "<accountId>",
  "api_host": "",
  "client_secret": "",
  "account_username": "",
  "account_password": "",
  "replace_values": {
  },
  "retailers": [
    {
      "retailer-ref": {
        "retailer_id": 1,
        "retailer_username": "",
        "retailer_password": "",
        "replace_values": {
          "account": "",
          "retailer.id": 1,
          "inventory.retailer.id": 1,

          "plugin.v2": "commonv2",
          "plugin.location": "location",

          "escalation.location": "REJECTLOC",

          "network.cc": "CLICK_AND_COLLECT",
          "network.hd": "HOME_DELIVERY",

          "order.type.cc": "CC",
          "order.type.hd": "HD",

          "product.catalogue.ref": "PC:MASTER:1",
          "product.catalogue.type": "MASTER",
          "inventory.catalogue.ref": "DEFAULT:1",

          "virtual.catalogue.ref.base": "BASE:1",
          "virtual.catalogue.type.base": "BASE",

          "virtual.catalogue.ref.ats": "ATS:1",
          "virtual.catalogue.type.ats": "ATS"
        }
      }
    }
  ]
}
```

There is a [README.md](#) file with instructions on running the scripts. When you run either main script arguments are passed for the properties filename and the retailer (retailer ref). At run time the script will get the workflow(s), find and replace all tags with values from the properties file and load the workflow.

For example here is a line for the retailer that is in all workflows:

```
"retailerId": "[[retailer.id]]"
```

When the script is run it will update the tag based on the retailer-ref used:

```
"retailerId": "1"
```

Workflow Recommendations

Global Inventory Workflows

The inventory workflow uses a property `virtual.catalogue.ref` for the catalogue. Either add the property to the properties file or update the workflow to use the `[[virtual.catalogue.ref.base]]` or `[[virtual.catalogue.ref.ats]]` property.

Update following rules to use the ones from the core module:

- `globalinventory.ChangeStateGQL` → `core.SetState`

- `globalinventory.SendEventGQL` → `core.SendEvent`
<https://lingo.fluentcommerce.com/asset-library/reference-modules/core/>

Order Workflows

- In a multi retailer configuration with a single INVENTORY_CATALOGUE the order workflow update the rule `SendEventToUpdateInventoryQuantity` to use the property for the inventory catalogue: `[[inventory.retailer.id]]`.
- In the order workflows update the following statuses for Fluent Store to find the articles:
 - COURIER_COLLECTION → AWAITING_COURIER_COLLECTION status on article
 - AWAITING_COLLECTION → AWAITING_CUSTOMER_COLLECTION status on article
- On deployment of the workflow, If you encounter a Workflow upload warning response similar to:

```

1  {
2    "entityId":"1-ORDER::HD::1.1",
3    "eventStatus":"COMPLETE",
4    "warning":{
5      "code":400,
6      "workflowValidationError":[{"
7        "type":"WARN",
8        "code":"UNUSED_CATEGORY_FOUND",
9        "attributes":{
10         "categories":[{"
11           "name":"CANCELLED",
12           "entityType":"FULFILMENT",
13           "category":"DONE"
14         }]
15       }]
16     }
17   }
18 }
```

Edit the workflow, find the Category that is not being used and remove it. For example remove these lines to eliminate the above warning:

```

1  {
2    "name": "CANCELLED",
3    "entityType": "FULFILMENT",
4    "category": "DONE"
5  }
```

ES Manifest Config Samples

The Fluent Store and OMS manifest samples are small pieces of the configurations provided as reference for how to modify the application manifest. i.e. new setting with the new fragement. These are found in the directory `config/fluentStore`, `config/fluentOms`, and `config/adminConsole`

ES Feature Plugins (feature-plugin)

The ES Feature Plugins provide additional functionality that are currently not part of the reference modules, yet are planned to move there.

fulfilment-options-plugin

CC and HD workflows, rules and sample postman apis to perform real time availability checks getting the fulfilment options .

products-categories-upserts-plugin

The workflow, rules and sample postman apis to send in events of products or categories which are created or updated.

location-upsert-plugin

The workflow, rules and sample postman apis to send in a location event to create or update an existing Location. The Postman collection includes the sample api for the Master location which is a required entity for workflow orchestration.

ES Starter Plugin

The ES Starter Plugin is an extension of the plugin provided in the Fluent SDK. It provides a kickstart to plugin development and demonstrates:

- best practices for rule development
- logging mechanisms
- separation of concerns (via services and utils)
- event attribute contract definition via dto's

This plugin is provided to partners as a starting point for their development. The plugin code is part of ES Starter Pack.

Fluent Best Practices Guidelines

<https://lingo.fluentcommerce.com/best-practices/>