Quick Start Guide

This repository contains files for HPMS to be used in 1Integrate, it is broken up into three folders: Data, Docs, and Rules.

* Data contains “HPMSEmptySchemagdb.zip,” “HPMSSample.zip” “MarkupReportSchemagdb.zip,” “ARNOLDDynSeggdb.zip,” and “Sections.zip”
* Docs contains this QuickStartGuide to help you get started
* Rules contains the Session-HPMS.xml file to be uploaded into 1Integrate

The Session-HPMS.xml file, which is to be uploaded into 1Integrate will produce four sessions. One session, the Rules, will perform HPMS checks on Domain, Coverage, and Cross. The HPMS Actions will perform HPMS checks and actions (via Action Maps) to create a spatial report layer of nonconformances. Dynamic segmentation will perform the layer building. HPMS Actions with Dynamic Segmentation will run through them all.

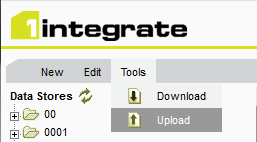
# Retrieving the HPMS package off GitHUB:

• Clone or download the 1Integrate package from the 1Integrate-Rules-Actions-in-Transportation repository -or-

• Use GitHUB Desktop to clone repository

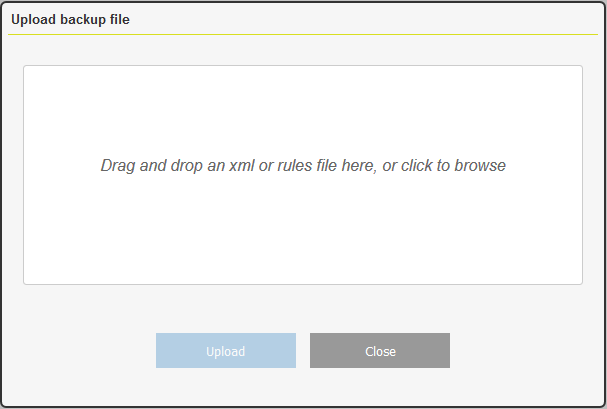
# Restoring rules into 1Integrate

1. Upload the xml file by clicking Tools > Upload on the top left:

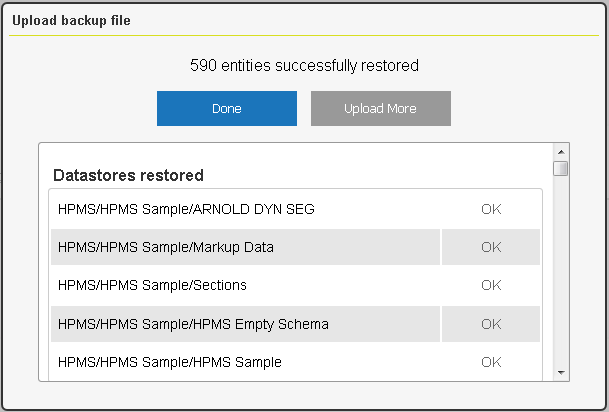


Note: Any tab will work to upload the xml file.

1. Drag the xml into the Upload backup file window, or browse to its location:



1. Click Upload
2. Click Done when upload is complete

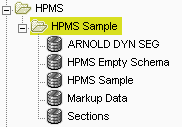


1. There are now HPMS folders with Data Sores, Rules, Actions, Action Maps, and Sessions

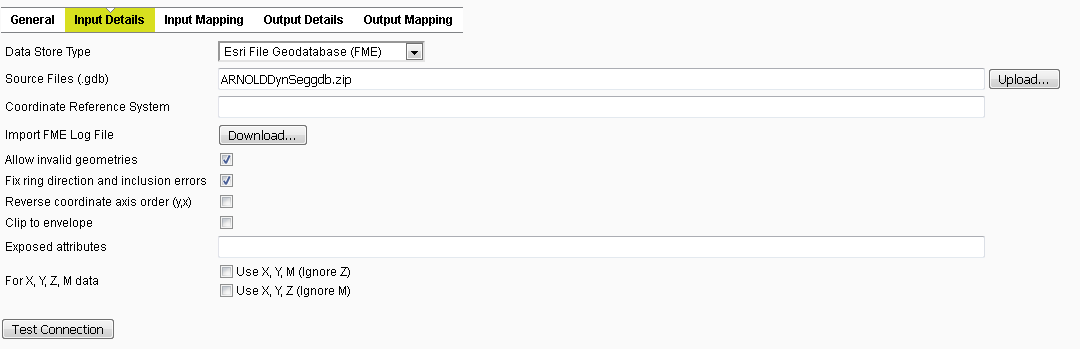
# Updating the Data Stores with Data

The Data Stores need to be updated by uploading the data from the Data folder. These Data Stores use FME Desktop 2018

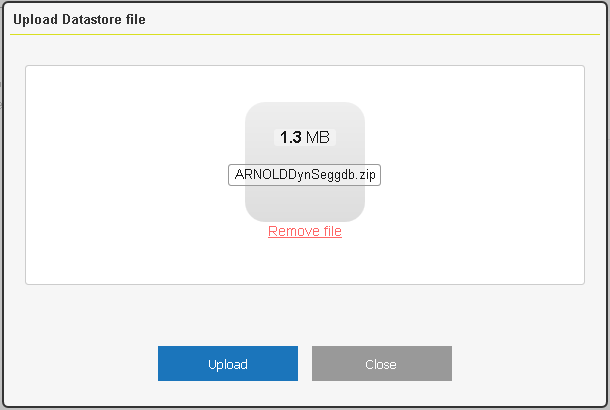
1. Click on the Data Stores Tab and navigate to the HPMS Data Stores



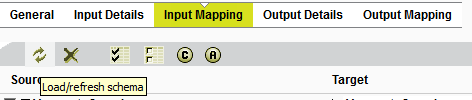
1. On the Input Details of the ARNOLD DYN SEG Data Store Click Upload and then navigate to the downloaded zip file.



1. Click Upload



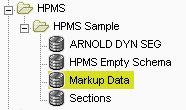
1. Click OK when the data uploaded successfully
2. Click Test Connection to make sure it loaded properly
3. The Schema will need to be loaded. Click on Input Mapping > Load/refresh schema



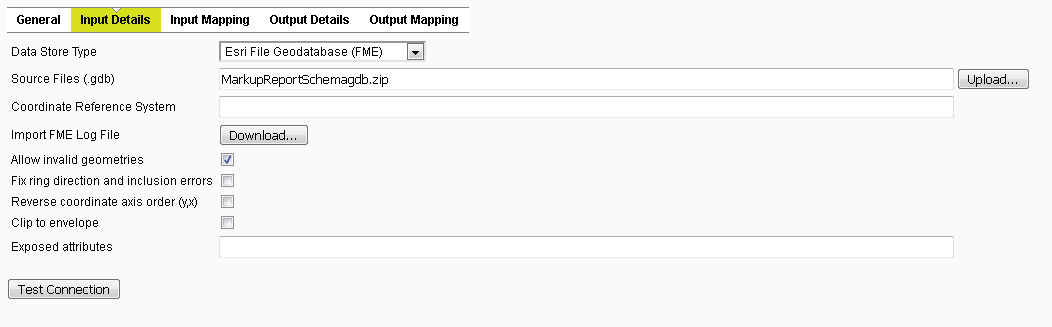
Note: ARNOLDDynSeggdb.zip contains Arnold where ARNOLD is expected, and the Target is changed to ARNOLD.

**Repeat the steps for MarkupReportSchemagdb.zip**

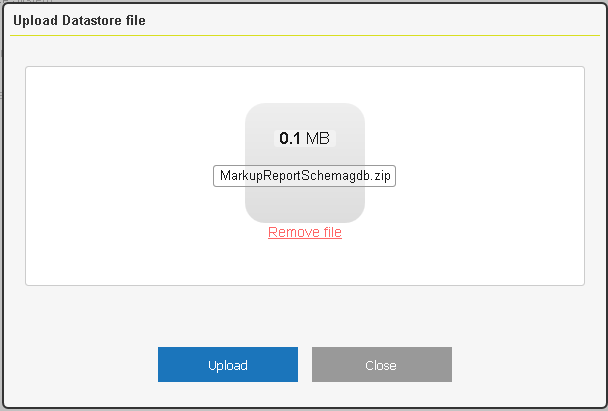
1. Click on the Data Stores Tab and navigate to Markup Data



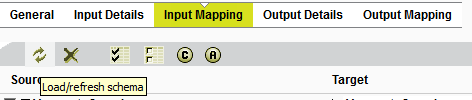
1. On the Input Details of the Data Store Click Upload and then navigate to the downloaded zip file.



1. Click Upload

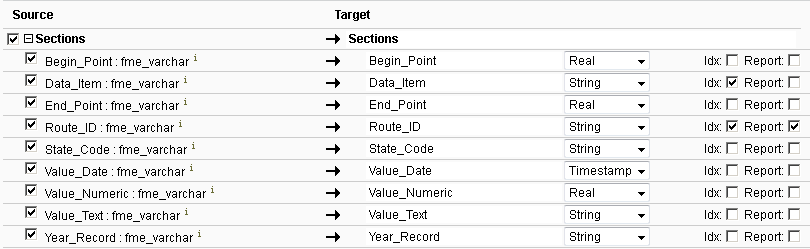


1. Click OK when data uploaded successfully
2. Click Test Connection to make sure it loaded properly
3. The Schema will need to be loaded. Click on Input Mapping > Load/refresh schema



1. Perform these tasks for all Data Stores: HPMS Empty Schema, HPMS Sample, and Sections

* This is a sample process; it can be updated to include your data.
* For csv files, Field Types must be set.  By default they will come in as all strings.  You **MUST** update the Begin Point and the End Point values to be **real values**.  Also, don’t forget to **index** the ROUTE\_ID. Expand the class and you can set the type. The provided Data Store is already formatted.



* The ARNOLD dataset is separate and has M values enabled.  The other HPMS Empty Schema datastore had all the Data Items in which the M values were not enabled in the same projection.

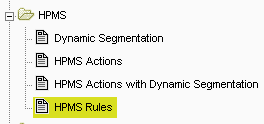
# Running the Ruleset

There are four Sessions available:

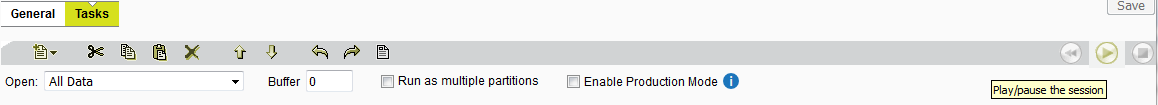
* HPMS Rules will run through the data and check it against the HPMS rules.
* HPMS Actions will run through the same rules and pass it on to Actions via the Action Maps and create markups.
* Dynamic Segmentation will run the data through dynamic segmentation and build layers.
* HPMS Actions with Dynamic Segmentation will combine them all to build the layers and run them through the rules to be passed onto the actions and create markups.

1. Click on the Sessions Tab and navigate to sessions in the HPMS folder





1. Click Tasks for the Session, and hit play



1. This can be performed for any of the sessions
2. In this example there are errors that will be reported, they are available to inspect by downloading the results (xml).



For additional Help please refer to <https://1spatial.com/documentation/1integrate/v2_6/Home.htm>

You may provide feedback, ask questions, and engage on the 1Spatial Highway Performance Monitoring System Forum located at: [1Spatial Customer Community](https://1spatial.force.com/success/)