# Instructions

These instructions assume you have SAS Event Stream Processing 6.1 installed.

## Copy Files

Create a server copy of the orders.xml and orders.csv files, and a local copy of orders.xml for editing. You can copy the required files from one of two locations:

### SAS ESP Examples Directory

1. Copy the files from the SAS ESP Examples directory to a directory to which you have write access. Example:

cp $DFESP\_HOME/examples/xml/orders\_xml/\*.\* /home/sasdemo/esp\_examples/orders

1. Download the orders.xml file to your local computer so it can be easily edited.

### GitLab

1. Go to GitLab address.
2. Download orders.xml and orders.csv to your local computer.
3. Upload the files to a server directory to which you have write access.

## Edit XML File

Edit your local copy of orders.xml as follows:

1. Go to the fsname connector property and include the full path to your copy of orders.csv. Example:

<property name='fsname'>/home/sasdemo/orders/orders.csv</property>

1. Optional. Add a rate property to the connector to slow the events per second rate to 1000. Example:

<property name='rate'>1000</property>

1. Add any additional changes you wish to make.
2. Save your changes.
3. Upload the orders.xml file from your local computer to the server directory you are using.

## Start the Model on the XML Server

Use the following command line syntax to start the orders.xml model on the XML server:

$DFESP\_HOME/bin/dfesp\_xml\_server -model file:///*yourpath*/orders.xml -pubsub 55555

## Subscribe to the Output Using a File/Socket Adapter

Use the following syntax to subscribe to the **TotalVolume** window using a file/socket adapter, and write the results to csv file totalvolume.out:

$DFESP\_HOME/bin/dfesp\_fs\_adapter -k sub -h dfESP://localhost:55555/orders\_proj/orders\_cq/TotalVolume?snapshot=true -t csv -f /*yourpath*/totalvolume.out

## Subscribe to the Output Using ESP Streamviewer

Use the following steps to subscribe to the **TotalVolume** window using ESP Streamviewer:

1. Start ESP Streamviewer using the following URL:

https://*Streamviewer-host-name*/SASEventStreamProcessingStreamviewer

1. Start the orders.xml model on the XML Server. Refer to the section, *Start the Model on the XML Server* for syntax.
2. On the ESP Streamviewer dashboard, click Show Model to open the **ESP Model Viewer**.
3. Click the **TotalVolume** window to select it, and then click Add Updating Subscriber to add an updating subscriber to the dashboard. Click Close to close the **ESP Model Viewer**.

### Add a Filter

Use the following steps to add a filter to the table displayed on the dashboard:

1. Click Window Menu at the top right of the table to display a menu of options and select **Filter**.  
   *The Chart Filter window appears.*
2. Filters are created using the Expression Engine Language whose functions are documented in the SAS ESP Product Documentation. Enter the following function and click **Apply** to apply it. Click **Close** to close the **Chart Filter** window.

gte($averagePrice,40)

### Add a Chart

Use the following steps to add a line chart to the dashboard.

1. Click Window Menu at the top right of the table to display a menu of options and select **New** **Chart**.  
   *The New Chart window appears.*
2. From the left menu select **Line Chart**.
3. Under Value select **averagePrice**.
4. Click **OK** to close the **New Chart** window and display the line chart on the dashboard.