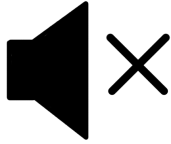


June 15, 2021

# Using the File Listener to Initiate a Cloud Data Integration TaskFlow

Janet Sitchin, Senior Principal Consultant, Informatica  
Professional Services

# Housekeeping Tips



- Today's Webinar is scheduled for **1 hour**
- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
- The webinar is **being recorded** and will be available on our **INFASupport YouTube channel** and **Success Portal** - where you can download the **slide deck** for the presentation. The link to the recording will be emailed as well.
- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

# Feature Rich Success Portal

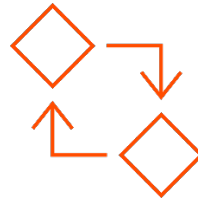
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Bootstrap trial and  
POC Customers



Enriched Customer  
Onboarding  
experience



Product Learning  
Paths and Weekly  
Expert Sessions



Informatica  
Concierge



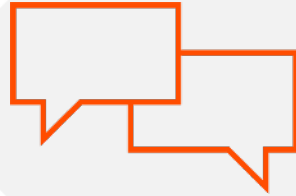
Tailored training and  
content  
recommendations

# More Information



## Success Portal

<https://success.informatica.com>



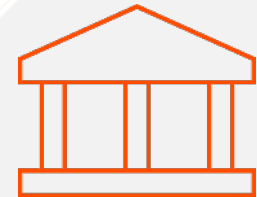
## Communities & Support

<https://network.informatica.com>



## Documentation

<https://docs.informatica.com>



## University

<https://www.informatica.com/in/services-and-training/informatica-university.html>

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June 15, 2021

# Using the File Listener to Initiate a Cloud Data Integration TaskFlow

Janet Sitchin

*Senior Principal Consultant, Informatica  
Professional Services*

# Agenda



Introduction



Overview of the  
Steps



Demo



Questions

# Introduction

## Process Files

- This presentation will review using the Informatica Cloud Data Management platform's Cloud Data Integration solution to process files as they arrive

## Naming Pattern

- Sometimes the files follow a naming pattern, but are unique files with unique names

## Automated Process

- We want to automate the processing of the files and their data

## How we'll do this

- File Listener Feature
- Parameterized Mapping
- Taskflow and logic



# Steps to Build the Process



## Start the Secure Agent

- On the host where the process will execute



## Determine the data sources and targets

- Be sure you have defined data connections for them



## Build your mapping

- Add Data Object Parameters for the Source and Target File Names
- Build the mapping using actual files and then replace with the parameters



## Configure the File Listener

- Do not Start it yet



## Build and Configure the Task flow

- Define File Listener Event
- Define Temp Variables
- Perform the Initial Variable Assignments
- Loop through processing all of the files with a Data Task, passing in the file name from the File Listener as a Parameter
- Update the Variable values along the way



## Start the File Listener

- Files will begin to be processed



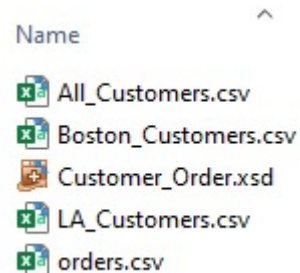
## Review the results

- Look at the target location results and the File Listener and Taskflow/Mapping Task logs

# Data Sources

Data for the Demo is currently in the following local directories on the server where I have the Secure Agent running (note that this is my Informatica laptop)

- C:\Users\jsitchin\Documents\Programs\infa\_shared\SrcFiles\Tutorials

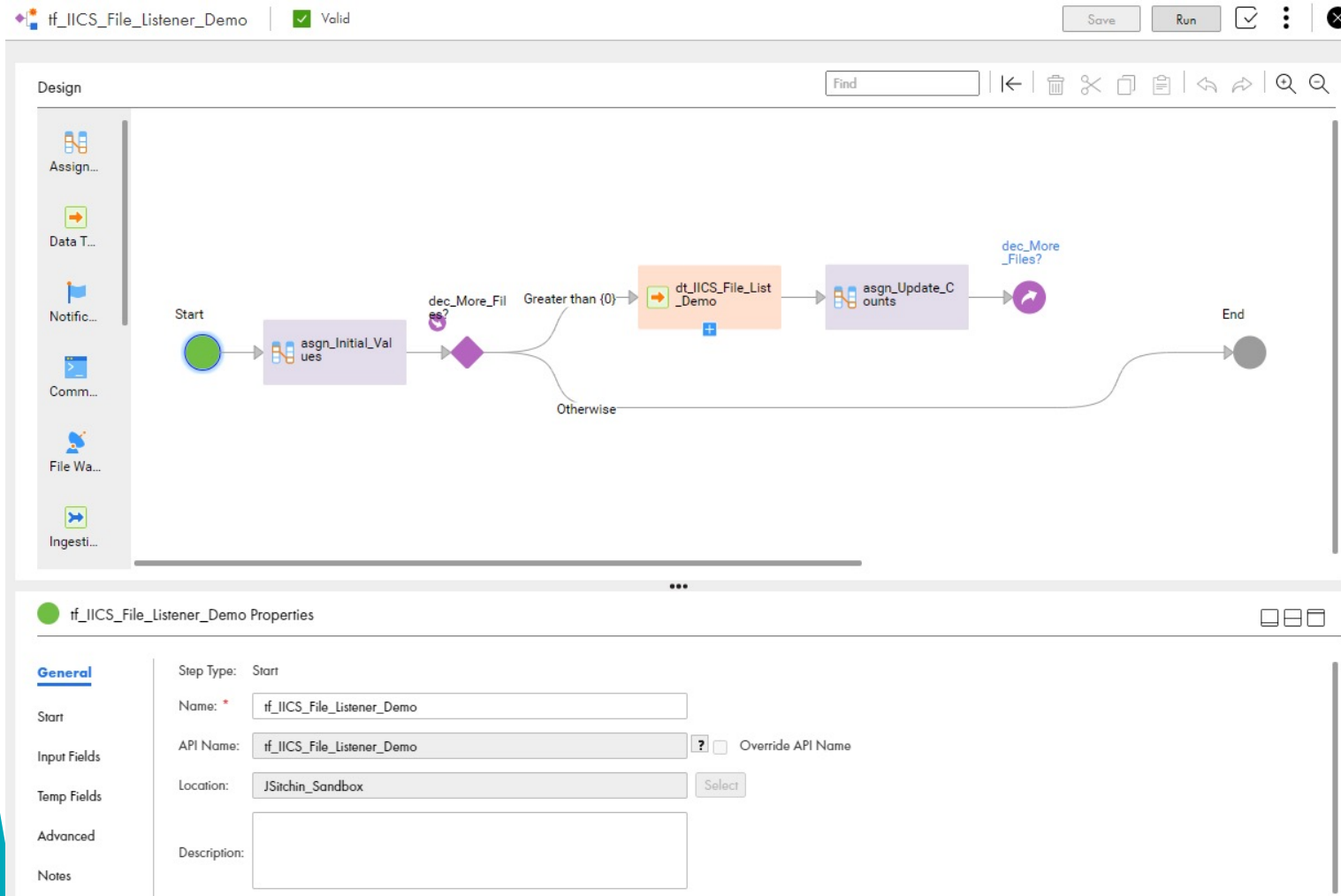


- C:\Users\jsitchin\Documents\Programs\infa\_shared\TgtFiles\Tutorials

> Programs > infa\_shared > TgtFiles > Tutorials

Name	Date modified	Type	Size
All_Customers.csv	6/3/2021 8:45 PM	Microsoft Excel C...	458 KB
Boston_Customers.csv	6/3/2021 8:45 PM	Microsoft Excel C...	383 KB
LA_Customers.csv	6/3/2021 8:45 PM	Microsoft Excel C...	100 KB
orders.csv	6/3/2021 8:45 PM	Microsoft Excel C...	2,955 KB

# The Task Flow



The Task Flow includes a Data Task to run the mapping task and thus the mapping.

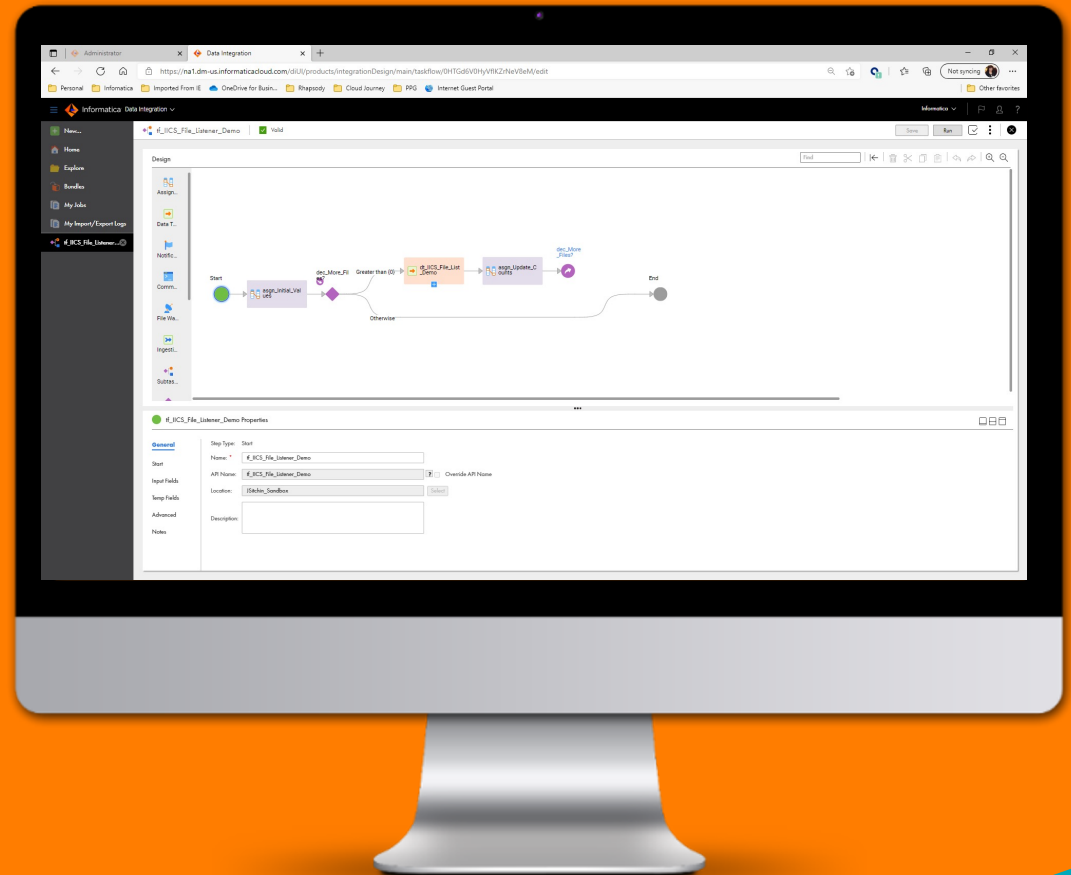
We have additional logic to allow it to be kicked off by the File Listener activity and to process more than one file if several arrive together.

# The Task Flow Does a Number of Things

- Sets the Start task to expect the File Listener Event to kick off the Task Flow
- Sets variables to store information like the number of files sent by the listener and the current count of the file being processed
- Sets the initial values for these variables
- Checks to see if all files have been processed and conditionally ends the Task Flow if they have
- Passes assigns the File Listener File Name to the Input Parameters for the Data Task
- Calls the Data Task to process the data
- Updates the variables to select the next file
- Repeats the process or ends the Task Flow, depending on if there are more files to process

# DEMO

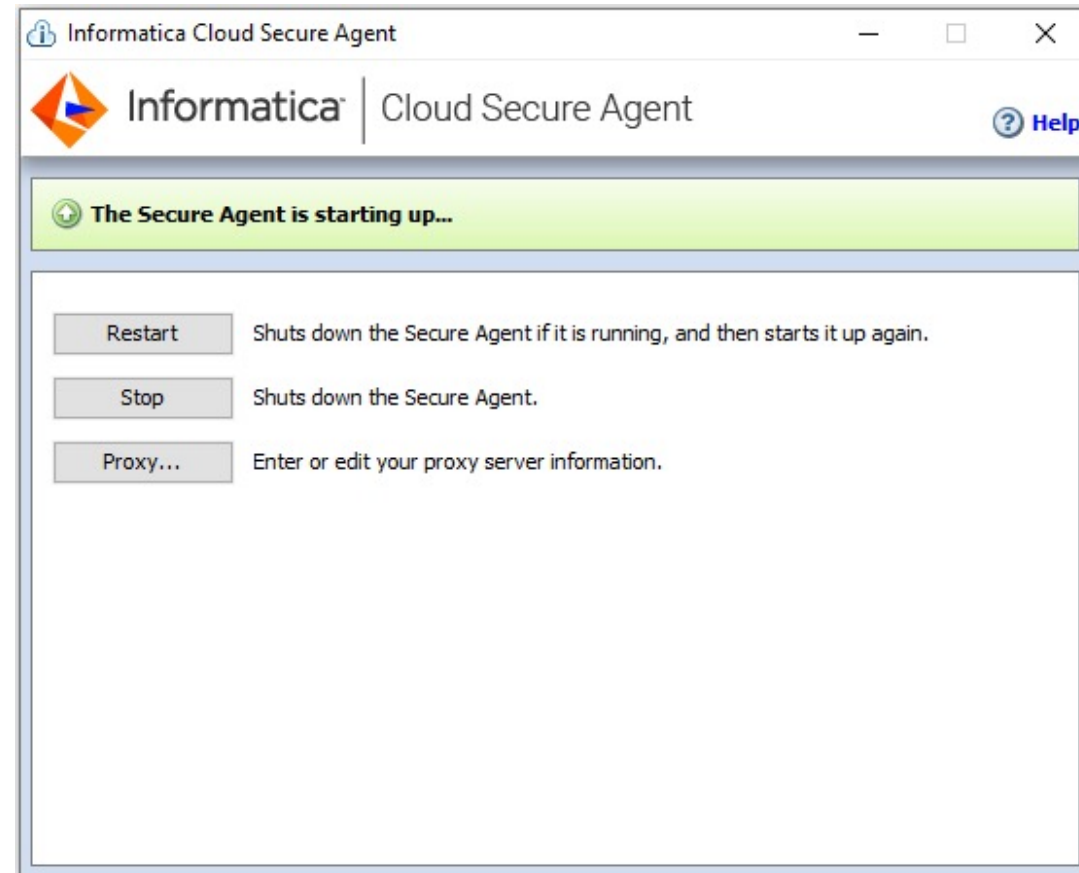
Using the File Listener to Kick Off a Task Flow



# Start the Secure Agent

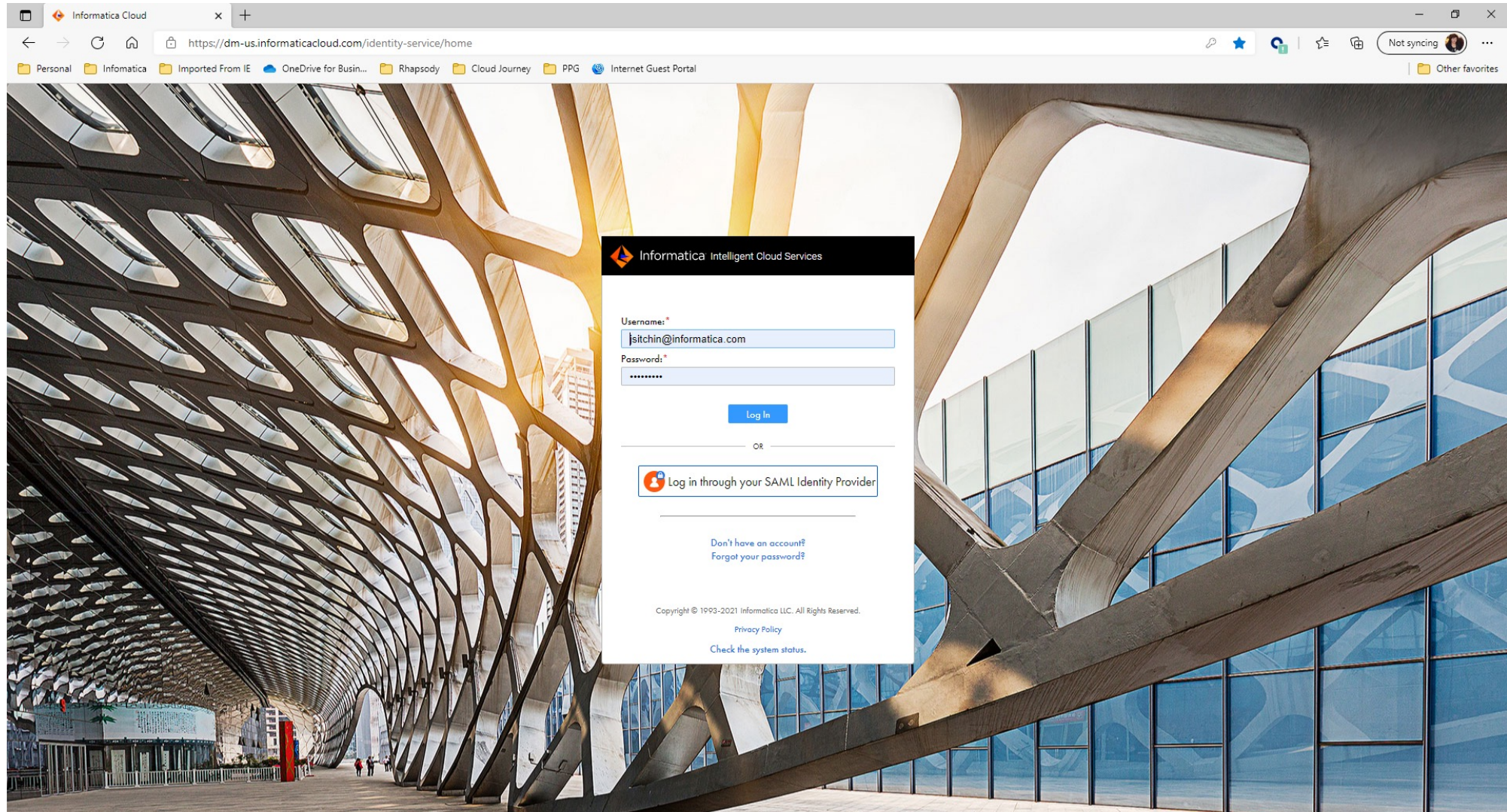
If the secure agent needs to be started, then start it.

My laptop is Windows and so I start the Secure Agent from the command line or from the location where it is installed

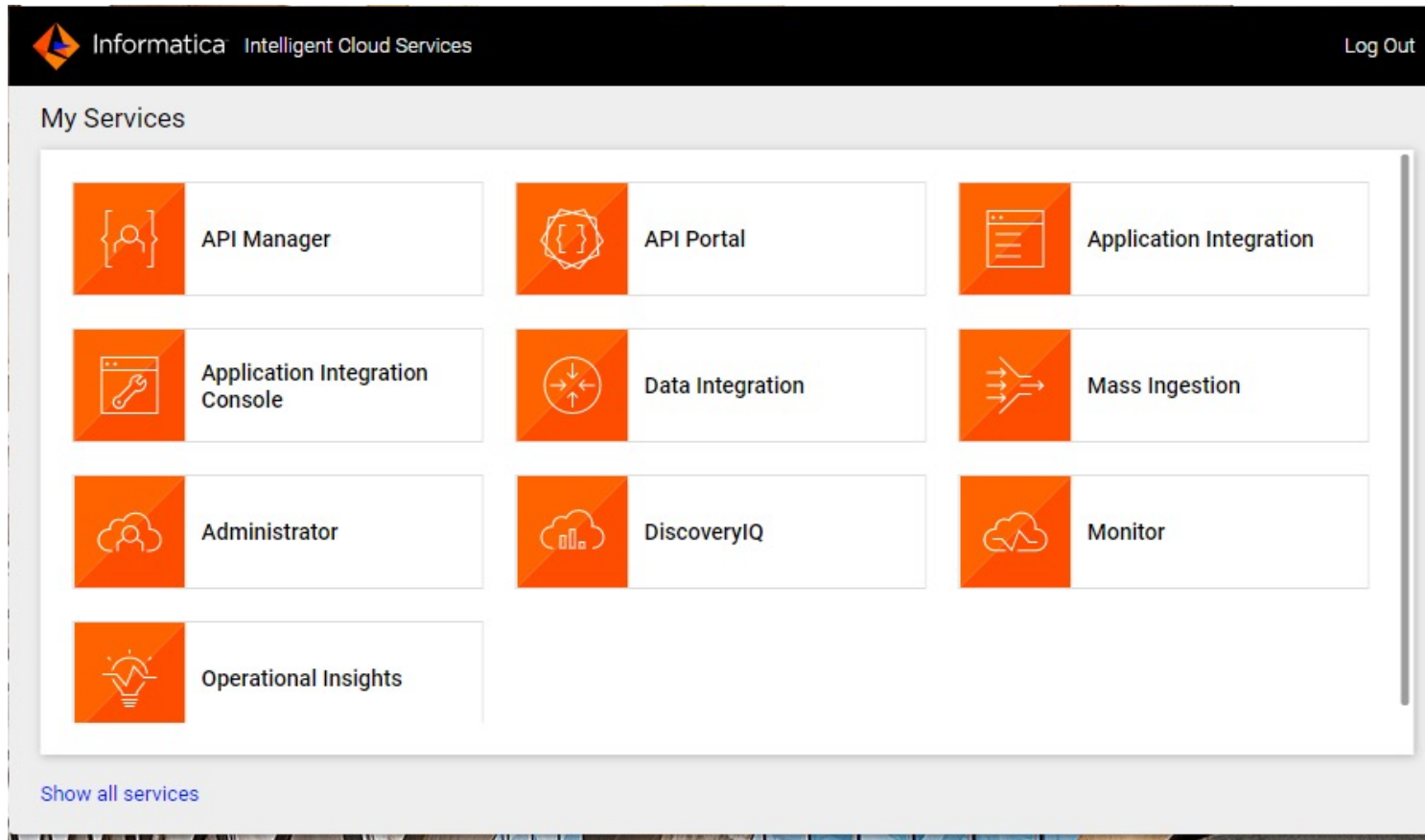




# Log on to the Informatica Cloud



# You'll See the Services for Which you are Licensed

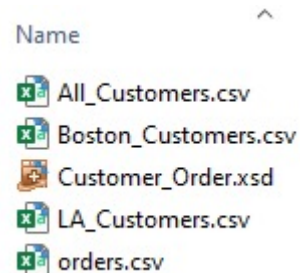




# Data Sources

Data for the Demo is currently in the following local directories on the server where I have the Secure Agent running (note that this is my Informatica laptop)

- C:\Users\jsitchin\Documents\Programs\infa\_shared\SrcFiles\Tutorials




- C:\Users\jsitchin\Documents\Programs\infa\_shared\TgtFiles\Tutorials

> Programs > infa\_shared > TgtFiles > Tutorials







Name	Date modified	Type	Size
All_Customers.csv	6/3/2021 8:45 PM	Microsoft Excel C...	458 KB
Boston_Customers.csv	6/3/2021 8:45 PM	Microsoft Excel C...	383 KB
LA_Customers.csv	6/3/2021 8:45 PM	Microsoft Excel C...	100 KB
orders.csv	6/3/2021 8:45 PM	Microsoft Excel C...	2,955 KB


# Create Data Connections in the Administrator/Connections tab

- Be sure you have data connections to your source and target locations
- Create the connections to point to the path for the files, although the sample is for Windows, you can similarly point to any file location that can be reached with the executing Secure Agent

 Connections

Configure connections to work with applications, databases, and files.

Actions	Name▲	Type	Runtime Environment	Service URL
  	FF_Source_Tutorials	Flat File	USW1PF174L9G	C:\Users\jsitchin\Documents\Programs\info_shared\SrcFiles\Tutorials
  	FF_Target_Tutorials	Flat File	USW1PF174L9G	C:\Users\jsitchin\Documents\Programs\info_shared\TgtFiles\Tutorials

 FF\_Source\_Tutorials

**Connection Details**

Connection Name: \*

Description:

Type: \* ?

**Flat File Connection Properties** ?

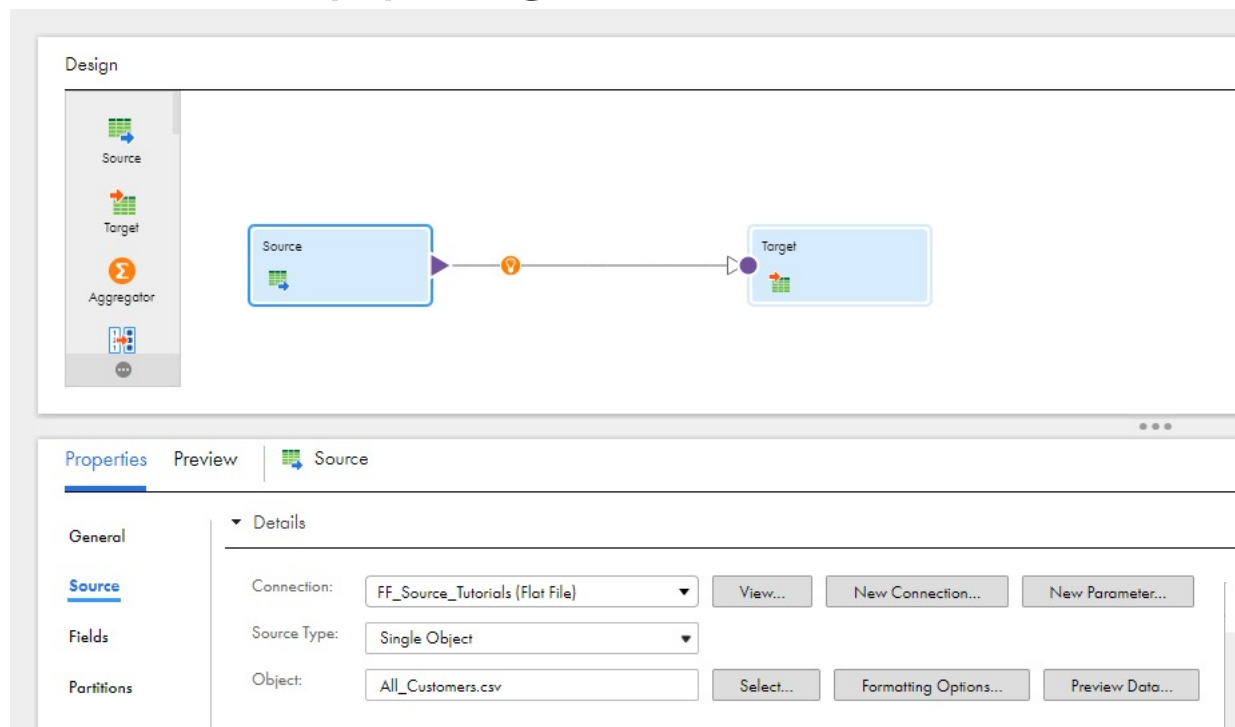
Runtime Environment: \* ?

Directory: \*

Date Format: \*

Code Page: \*

# The Mapping



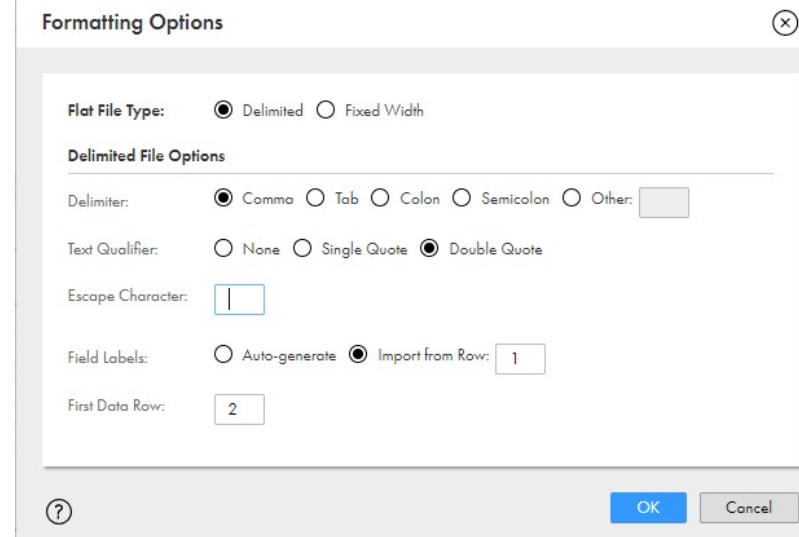
Be sure to set the file formatting options

First, we create a mapping with a source and a target.

Obviously, you could have more logic in yours, but we just made this a passthrough process.

We used the FF\_Source\_Tutorials connection to point to the right directory.

We will select a file that is one of the ones we want to process. It is important to build the mapping with real data and then parameterize it.



# The Mapping

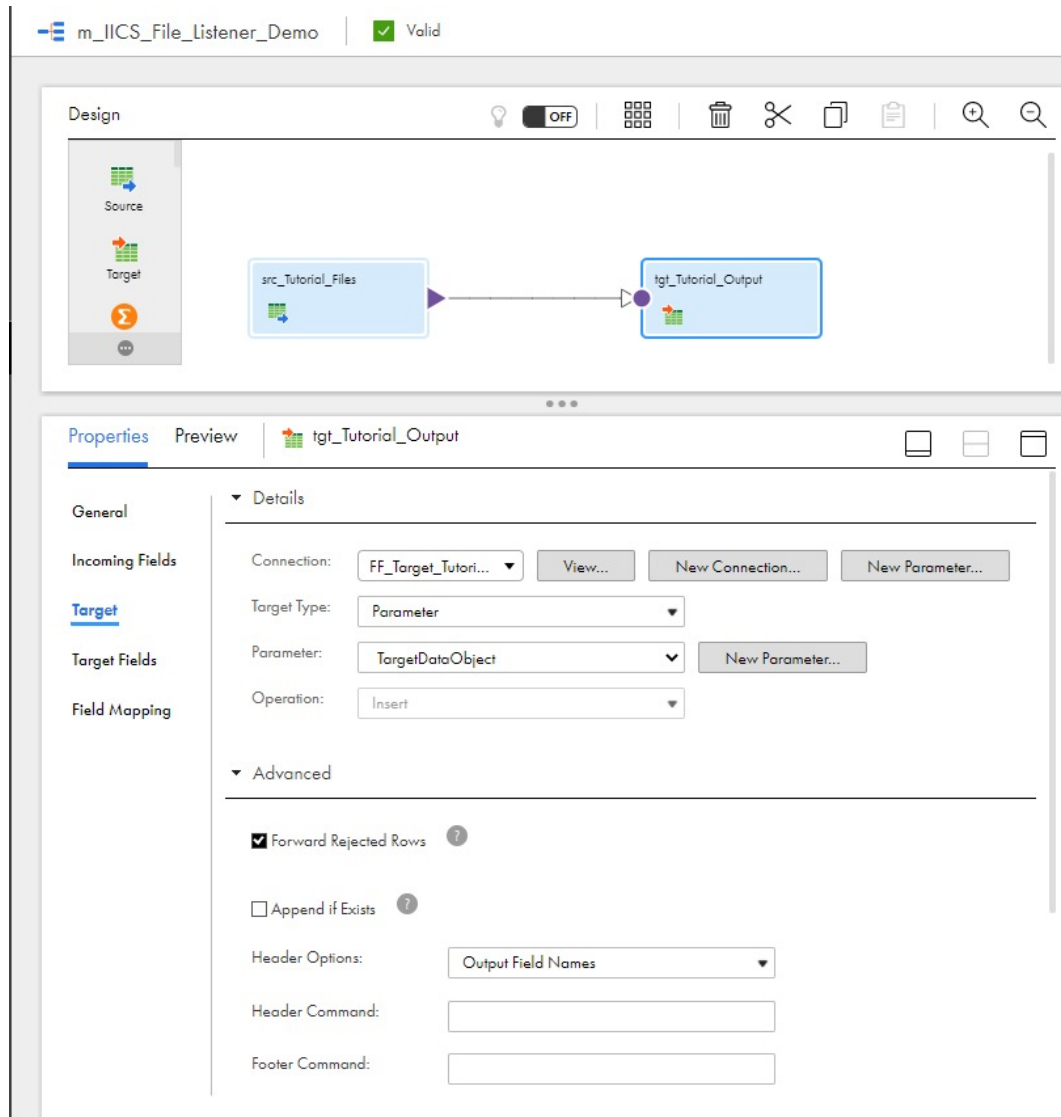
The screenshot displays the Informatica Data Integration Administrator web interface. The top navigation bar includes the Informatica logo and the title 'Data Integration'. The left sidebar contains a navigation menu with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs', 'My Import/Export Logs', and a selected item 'm\_IICS\_File\_Listene...'. The main workspace is titled 'm\_IICS\_File\_Listener\_Demo' and shows a 'Design' view with a mapping diagram. The diagram consists of a source component 'src\_Tutorial\_Files' connected to a target component 'tgt\_Tutorial\_Output'. Below the design view, the 'Properties' pane for the 'src\_Tutorial\_Files' component is visible. It includes a 'General' tab with a 'Source' sub-tab. Under 'Details', the 'Connection' is set to 'FF\_Source\_Tutori...', 'Source Type' is 'Parameter', and 'Parameter' is 'SourceDataObject'. The 'Fields' and 'Partitions' sections are empty. The 'Query Options' and 'Advanced' sections are also visible. On the right side of the interface, the 'Parameters' pane is open, showing 'Input Parameters' with 'SourceDataObject' (data object) and 'TargetDataObject' (data object). The 'In-Out Parameters' section shows 'No In-Out Parameters'.

We created two Input Parameters that are Data Objects.

We replace the Source Type and File Name with the parameter in the place of the file name

We'll do the same for the target.

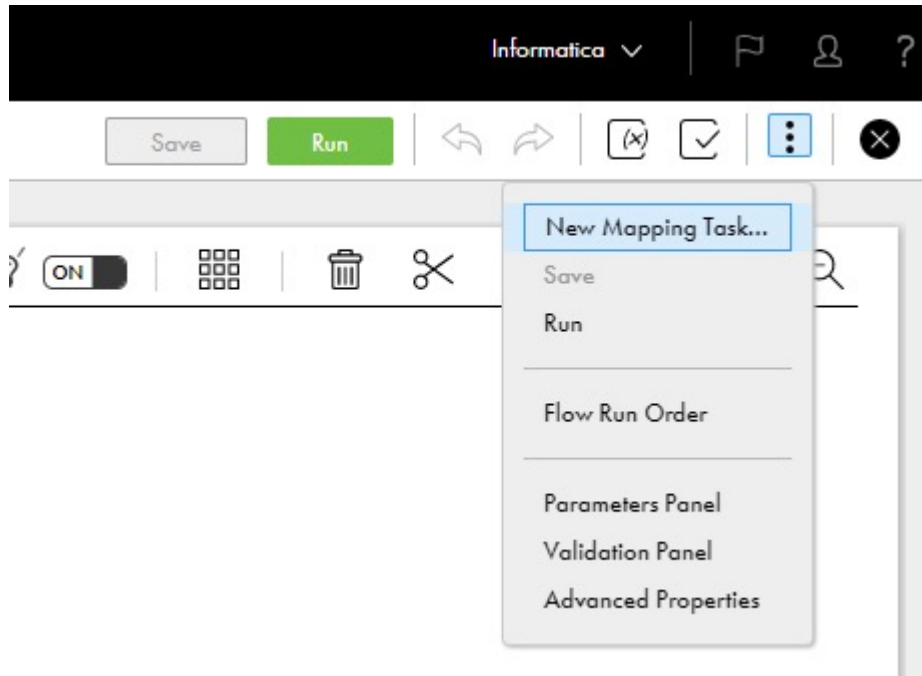
# The Mapping



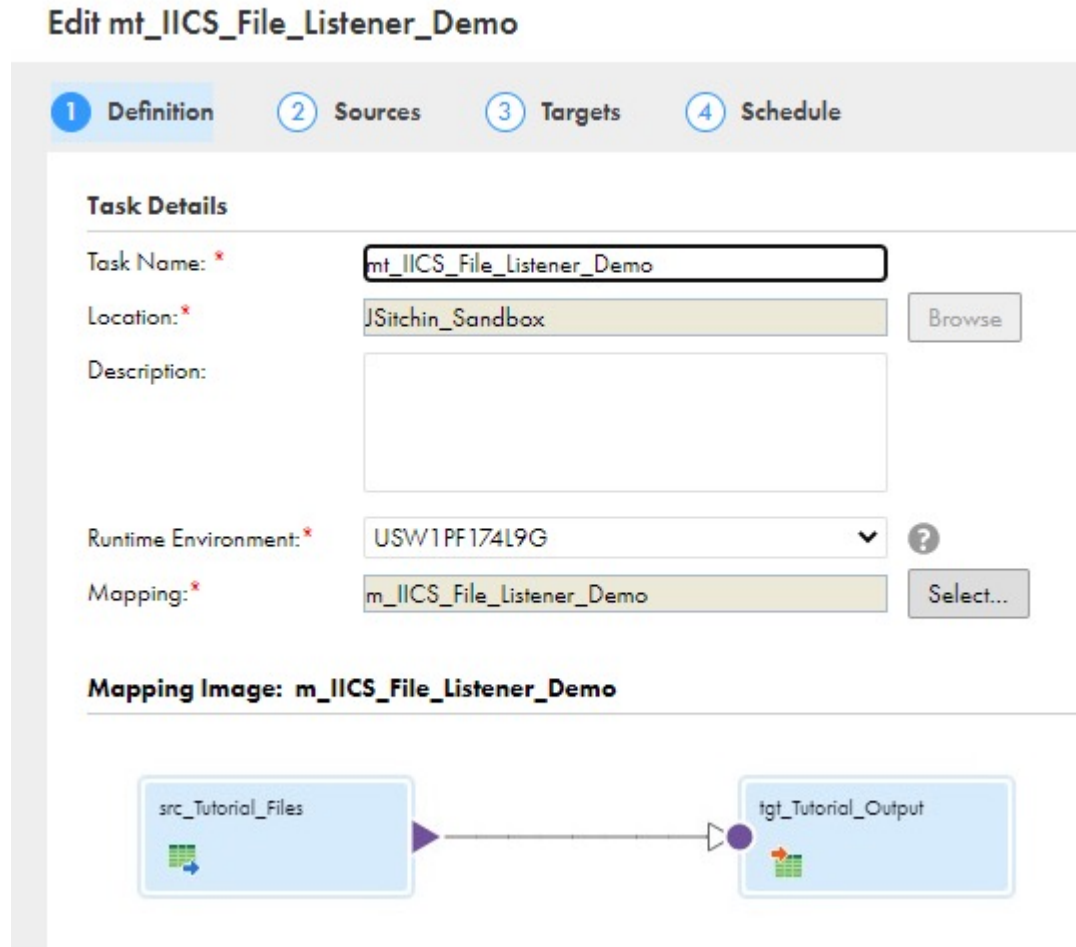
We similarly used the FF\_Target\_Tutorials for the target connection to point to the right directory and used the parameter in the place of the file name

We chose to add the Output Field Names to the first row of the target

# Mapping Task



In the mapping, press the symbol highlighted and create an associated mapping task



Provide a name for the mapping task and select the runtime environment

# Mapping Task

In the Sources and Targets tabs, you will enter a sample file name and modify the formatting appropriately.

This is similar to what you did when the original mapping was built, before adding the parameters instead.

Edit mt\_IICS\_File\_Listener\_Demo

1 Definition 2 Sources 3 Targets 4 Schedule

**Source Parameter Details**

src\_Tutorial\_Files Connection: \* FF\_Source\_Tutorials (Flat File) View... Advanced...

Source Type: Single

SourceDataObject Object: \* All\_Customers.csv Select... Formatting Options... Edit Types...

☐ Add Currently Processed File Name

**Query Options**

Filter and Sort are not supported for this connection type.

☐ Display source fields in alphabetical order

**Data Preview**

All\_Customers.csv Preview All Columns (Total columns: 19)

CustomerID	CustomerTier	Lastname	Firstname	Company	...
10110095	Diamond	Bergeron	Barb	E-AGENCY	...
10110102	Bronze	Brousseau	Derrick	BANK ONE	...
10110105		Anderson	Lauren	KPMG PEAT MARWICK	...
10110106	Emerald	Boonstra	Paul	INVESTEX	...
10110107	Ruby	Chan	Brian	ARTHUR VAN DOREN, INC.	...
10110109	Gold	Acheson	Jeff	OSTERREICHISCHE NATIONAL BANK	...
10110111	2	Keating	Ron	K2 ADVISORS	...
10110117	2	Coombs	Manday	MFP INVESTORS	...
10110126	Emerald	Bazil	Fabian	EASTON	...
10110130	Ruby	Csima	Ella	RICE VOELKER	...

? Save

Edit mt\_IICS\_File\_Listener\_Demo

1 Definition 2 Sources 3 Targets 4 Schedule

**Target Parameter Details**

tgt\_Tutorial\_Output Connection: \* FF\_Target\_Tutorials (Flat File) View... Advanced...

TargetDataObject Object: \* IICS\_File\_Listener\_Demo.csv Select... Formatting Options... Create Target...

Operation: \* Insert

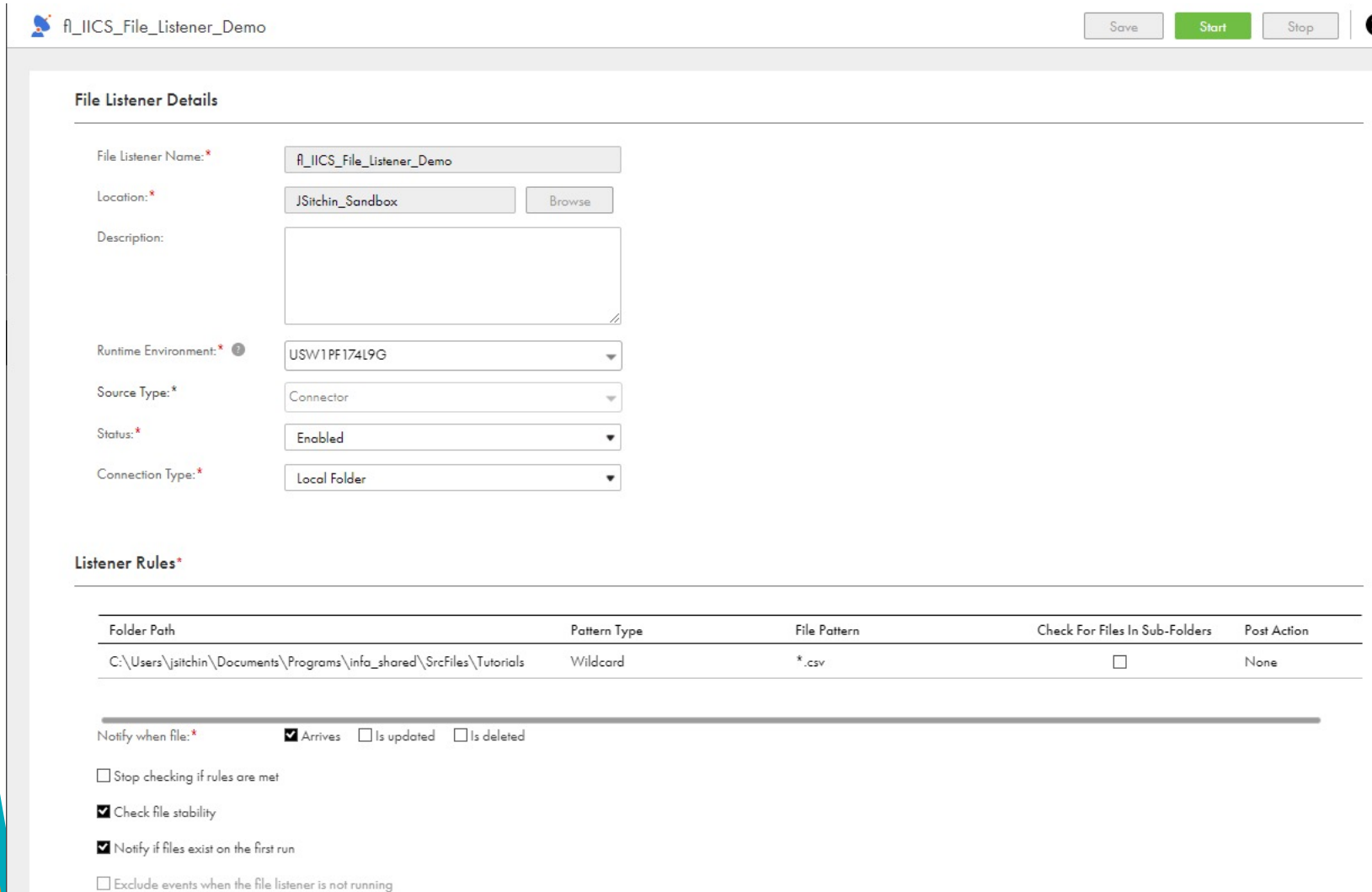
☐ Display target fields in alphabetical order

**Data Preview**

**i** No data to preview. The object "IICS\_File\_Listener\_Demo.csv" will be created when the task runs.



# The File Listener



The screenshot shows the 'File Listener Details' configuration window. At the top, there are 'Save', 'Start', and 'Stop' buttons. The 'File Listener Details' section includes fields for 'File Listener Name' (set to 'fl\_IICS\_File\_Listener\_Demo'), 'Location' (set to 'JSitchin\_Sandbox' with a 'Browse' button), 'Description' (empty text area), 'Runtime Environment' (set to 'USW1PF174L9G'), 'Source Type' (set to 'Connector'), 'Status' (set to 'Enabled'), and 'Connection Type' (set to 'Local Folder'). Below this is the 'Listener Rules' section, which contains a table with one rule. The table has columns for 'Folder Path', 'Pattern Type', 'File Pattern', 'Check For Files In Sub-Folders', and 'Post Action'. The rule specifies the folder path 'C:\Users\jsitchin\Documents\Programs\infa\_shared\SrcFiles\Tutorials', a 'Wildcard' pattern type, a file pattern '\*.csv', and 'None' for the post action. Below the table, there are checkboxes for 'Notify when file:' (with 'Arrives' selected), 'Stop checking if rules are met', 'Check file stability' (selected), 'Notify if files exist on the first run' (selected), and 'Exclude events when the file listener is not running'.

**File Listener Details**

File Listener Name: \* fl\_IICS\_File\_Listener\_Demo

Location: \* JSitchin\_Sandbox

Description:

Runtime Environment: \* USW1PF174L9G

Source Type: \* Connector

Status: \* Enabled

Connection Type: \* Local Folder

**Listener Rules\***

Folder Path	Pattern Type	File Pattern	Check For Files In Sub-Folders	Post Action
C:\Users\jsitchin\Documents\Programs\infa_shared\SrcFiles\Tutorials	Wildcard	*.csv	<input type="checkbox"/>	None

Notify when file: \* ☒ Arrives ☐ Is updated ☐ Is deleted

☐ Stop checking if rules are met

☒ Check file stability

☒ Notify if files exist on the first run

☐ Exclude events when the file listener is not running

Create a File Listener and assign the Runtime Environment

Set the Connection Type to Local Folder

Enter the path for the files, Wildcard, and provide a File Pattern

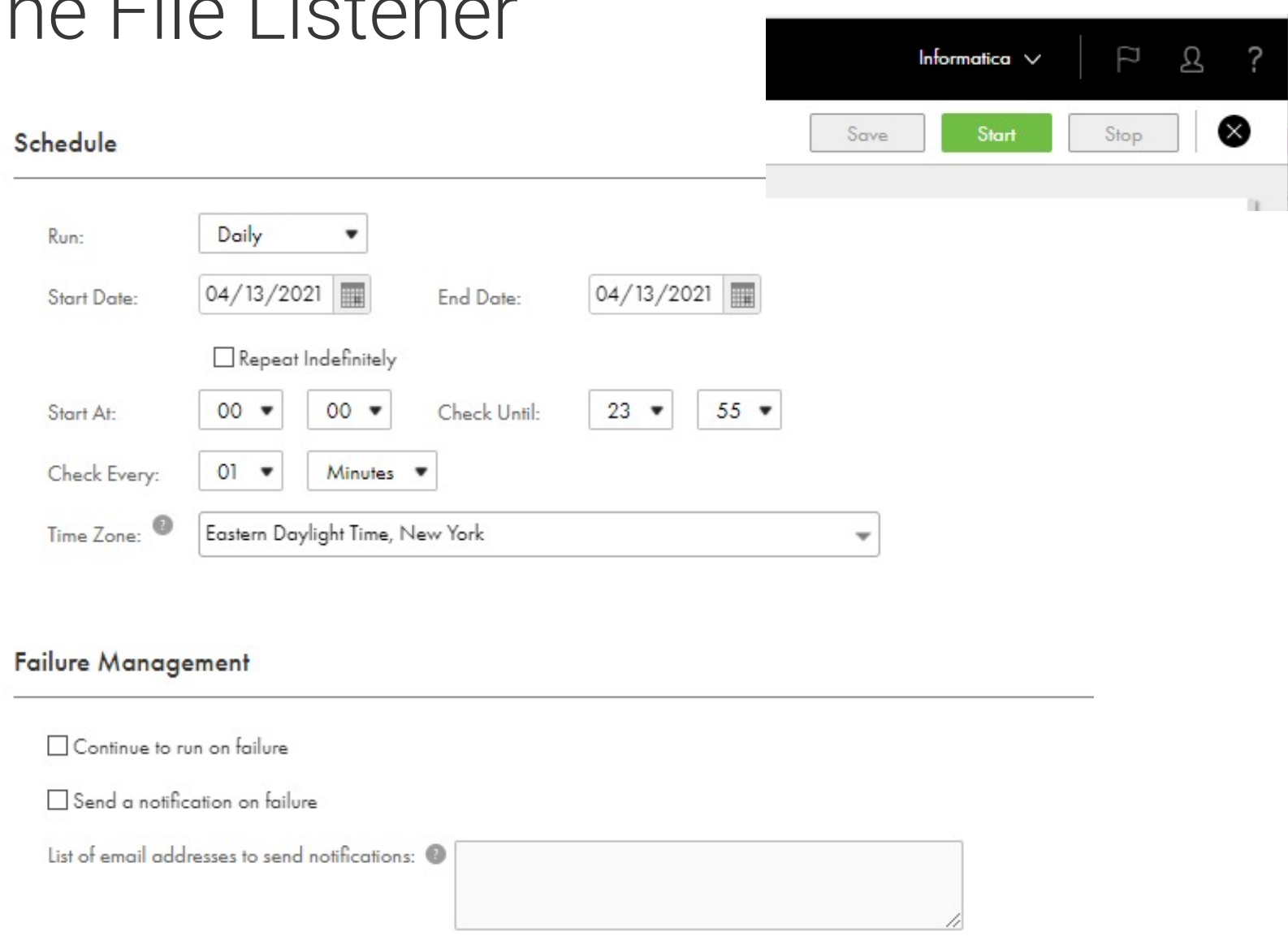
Set "Check File Stability" so that only a complete file will be processed

Set "Notify if files exist on the first run" to process files already in the path



# The File Listener

## Schedule



Run: Daily

Start Date: 04/13/2021 End Date: 04/13/2021

☐ Repeat Indefinitely

Start At: 00 00 Check Until: 23 55

Check Every: 01 Minutes

Time Zone: Eastern Daylight Time, New York

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## Failure Management

☐ Continue to run on failure

☐ Send a notification on failure

List of email addresses to send notifications:

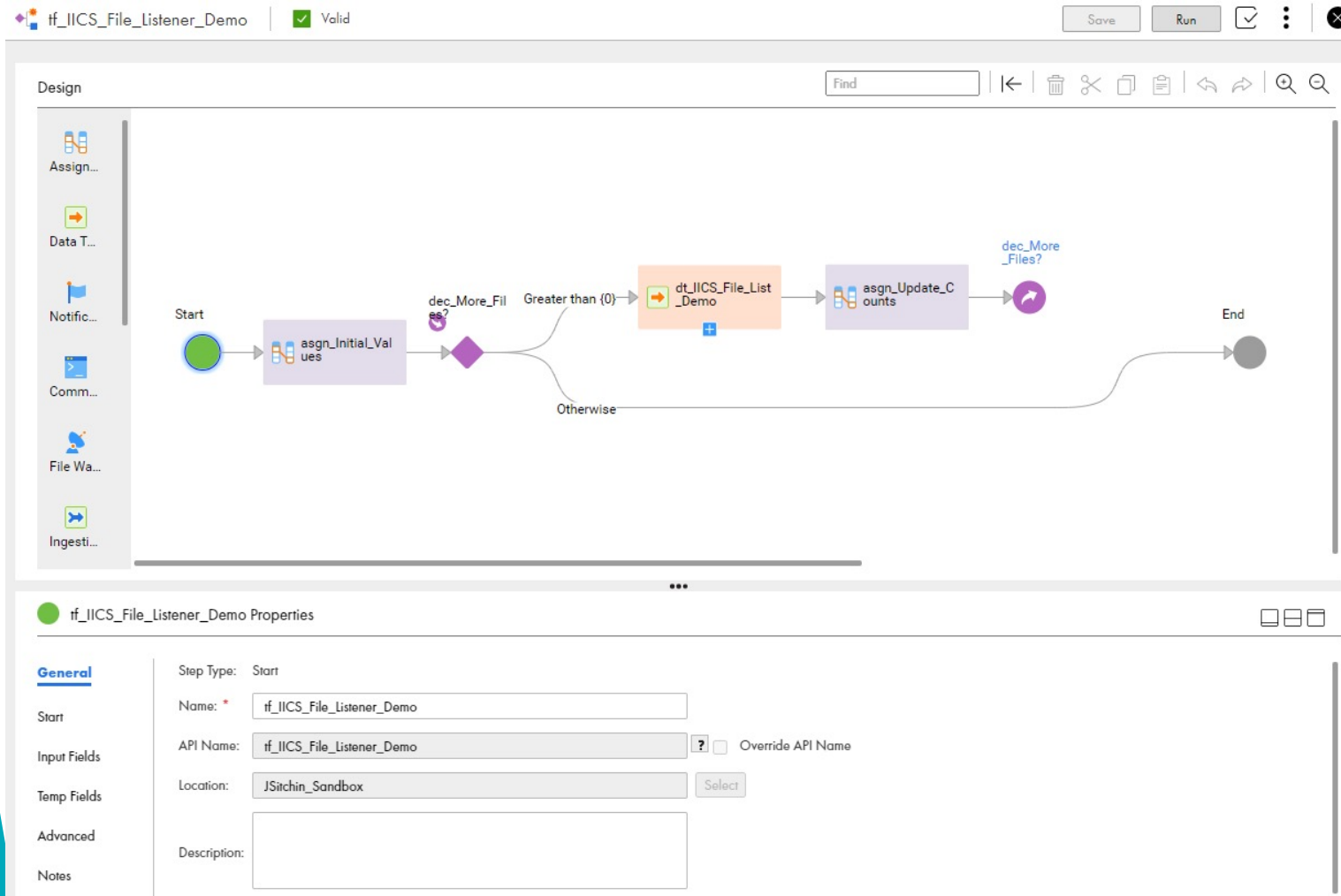
Scrolling down on the screen, there are options to set a schedule for the listener to run and how frequently to check for files.

You can also enter a list of notification emails if you choose.

Although there is a Start button at the top of the screen, you are not able to start the File Listener until it is associated with one or more Task Flows.

Be sure to save the File Listener configuration, but we'll come back to Start it.

# The Task Flow



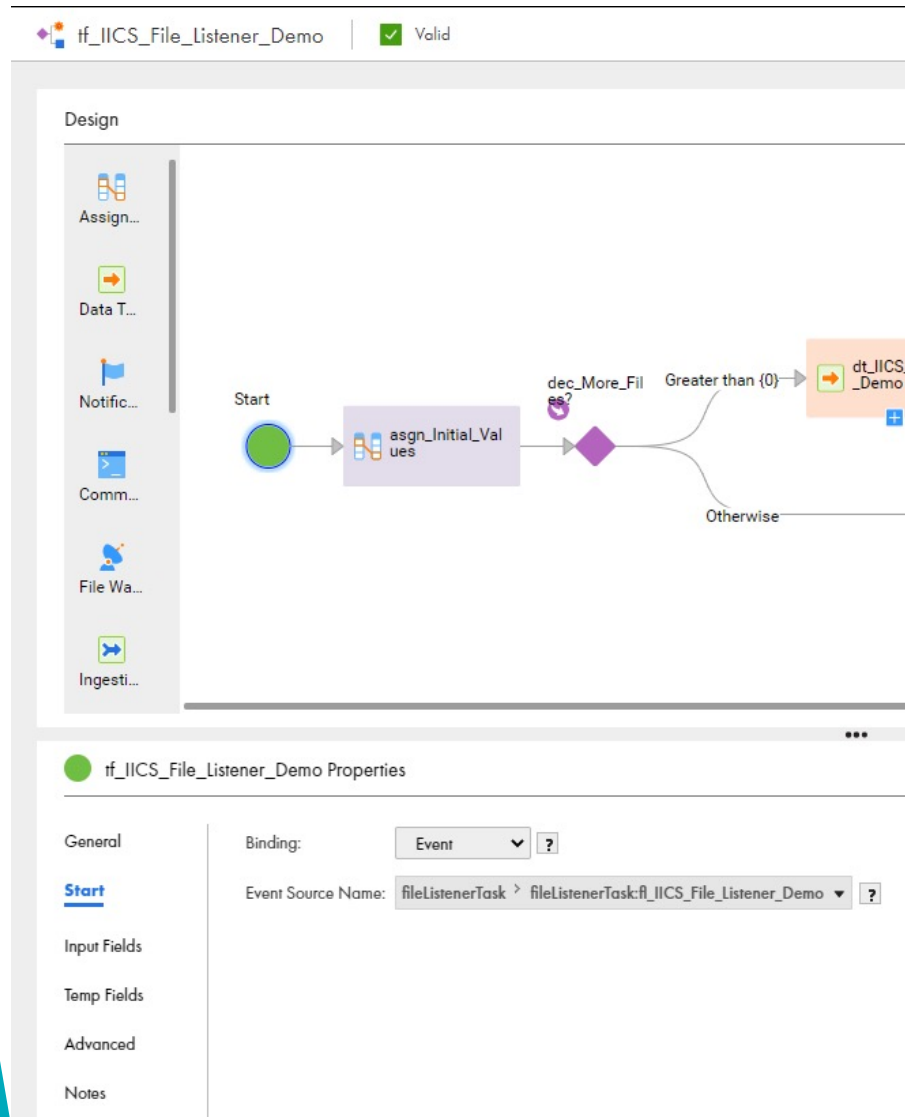
The Task Flow includes a Data Task to run the mapping task and thus the mapping.

We have additional logic to allow it to be kicked off by the File Listener activity and to process more than one file if several arrive together.

# The Task Flow Does a Number of Things

- Sets the Start task to expect the File Listener Event to kick off the Task Flow
- Sets variables to store information like the number of files sent by the listener and the current count of the file being processed
- Sets the initial values for these variables
- Checks to see if all files have been processed and conditionally ends the Task Flow if they have
- Passes assigns the File Listener File Name to the Input Parameters for the Data Task
- Calls the Data Task to process the data
- Updates the variables to select the next file
- Repeats the process or ends the Task Flow, depending on if there are more files to process

# The Task Flow



The Start task's Start setting allows you to select a File Listener Task as a starting event

# The Task Flow

## tf\_IICS\_File\_Listener\_Demo Properties

General

Start

Input Fields

**Temp Fields**

Advanced

Notes

Temp Fields (5)

Name	Type
Remaining_File_Count	Integer
Arrived_File_Count	Integer
Processed_File_Count	Integer
Target_File_Name	Text
dt_IICS_File_List_Demo	mt_IICS_File_Listener_Demo

The Temp Fields settings allow you to create temporary variables to hold data used in the Task Flow logic

We have set counters to know the number of files that arrived when the File Listener started the Task Flow. Multiple files can be received at once.

The Arrived\_File\_Count will be the initial number of files arriving.

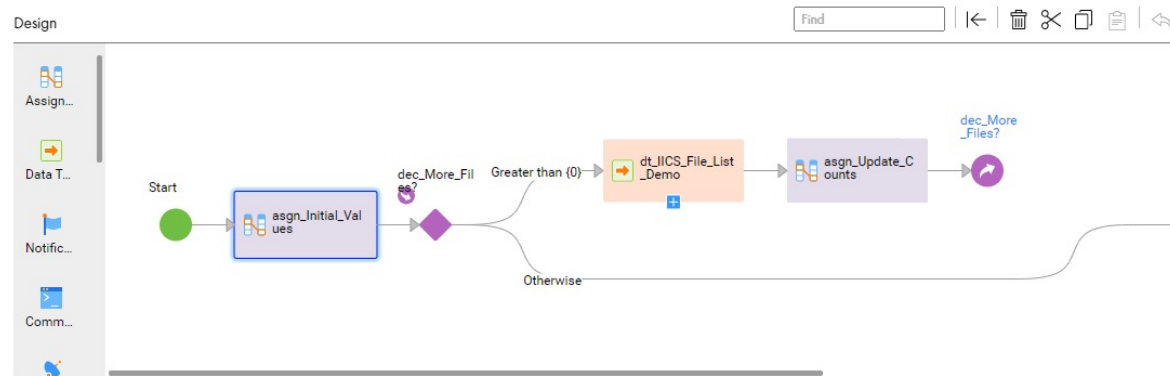
The Processed File Count will start as 0.

The Remaining\_File\_Count will start out with the same value as the Arrived\_File\_Count and will be decremented as the Task Flow runs.

The Target\_File\_Name provides a name for the Target File for the mapping.

These are all set in the next tasks.

# The Task Flow



asgn\_Initial\_Values Properties

## General

### Assignments

Field	Assigned Using	From
Arrived_File_Count	Formula	list:count(\$input.fl_IICS_File_Listener_Demo[1]/arrivedFiles)
Remaining_File_Count	Formula	list:count(\$input.fl_IICS_File_Listener_Demo[1]/arrivedFiles)
Processed_File_Count	Formula	0

The Assignment Task asgn\_Initial\_Values sets the counts just mentioned.

The information from the File Listener is available to be used to assign to a variable

Expression Editor for Remaining\_File\_Count

Create an expression with fields and operators.

Fields

Functions

Arrived\_File\_Count

Processed\_File\_Count

Remaining\_File\_Count

Target\_File\_Name

fl\_IICS\_File\_Listener\_Demo

- Arrived Files
  - Last Modified
  - Name
  - Path
  - Size
- Update Files

Expression

1 list:count(\$input.fl\_IICS\_File\_Listener\_Demo[1]/arrivedFiles)

Operators

AND OR NOT ( ) = != < > <= >=

Field Arrived Files

Name arrivedFiles

Type []

# The Task Flow

## ◆ dec\_More\_Files? Properties

General

Decision

Field:

Remaining\_File\_Count ▼

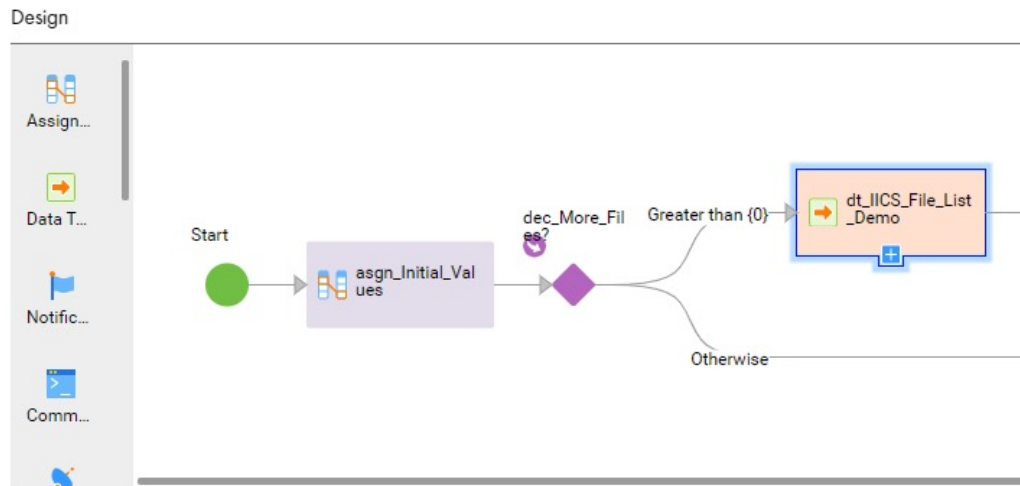
Paths

Path	Condition	Value
Path 1	Greater than ▼	0 
Path 2	Otherwise	

The Decision Task checks the value of the Remaining File\_Count and ends the Task Flow if there are no more files to process.

If there are files, then the path will continue to call the Data Task.

# The Task Flow



dr\_IICS\_File\_List\_Demo Properties

General

Data Task: \*

Type: Mapping Task

Location: JSitchin\_Sandbox

Input Fields

Output Fields

Events

Error Handling

The Data Task is configured to call the Mapping Task we configured for the Mapping.

The Input Fields item is where the Parameters passed into the Data Task/Mapping are set.

Again, the File Listener values are used to get the File Name. Note that we are using the Remaining\_File\_Count to get the next value for the name from the list of files.

dr\_IICS\_File\_List\_Demo Properties

General

Data Task

Input Fields (2)

Name	Type	Value
SourceDataObject	Text	<code>\$input.fl_IICS_File_Listener_Demo[1]/arrivedFiles[\$temp.Remaining_File_Count]/name</code>
TargetDataObject	Text	<code>\$input.fl_IICS_File_Listener_Demo[1]/arrivedFiles[\$temp.Remaining_File_Count]/name</code>

Output Fields

Events

Error Handling

Expression Editor for

Create an expression with fields and operators.

Fields

- Arrived\_File\_Count
- Processed\_File\_Count
- Remaining\_File\_Count
- Target\_File\_Name
- fl\_IICS\_File\_Listener\_Demo
  - Arrived Files
    - Last Modified
    - Name
    - Path
    - Size
  - Update Files

Functions

Expression

```
1 $input.fl_IICS_File_Listener_Demo[1]/arrivedFiles[$temp.Remaining_File_Count]/name
```

Operators

Field Name

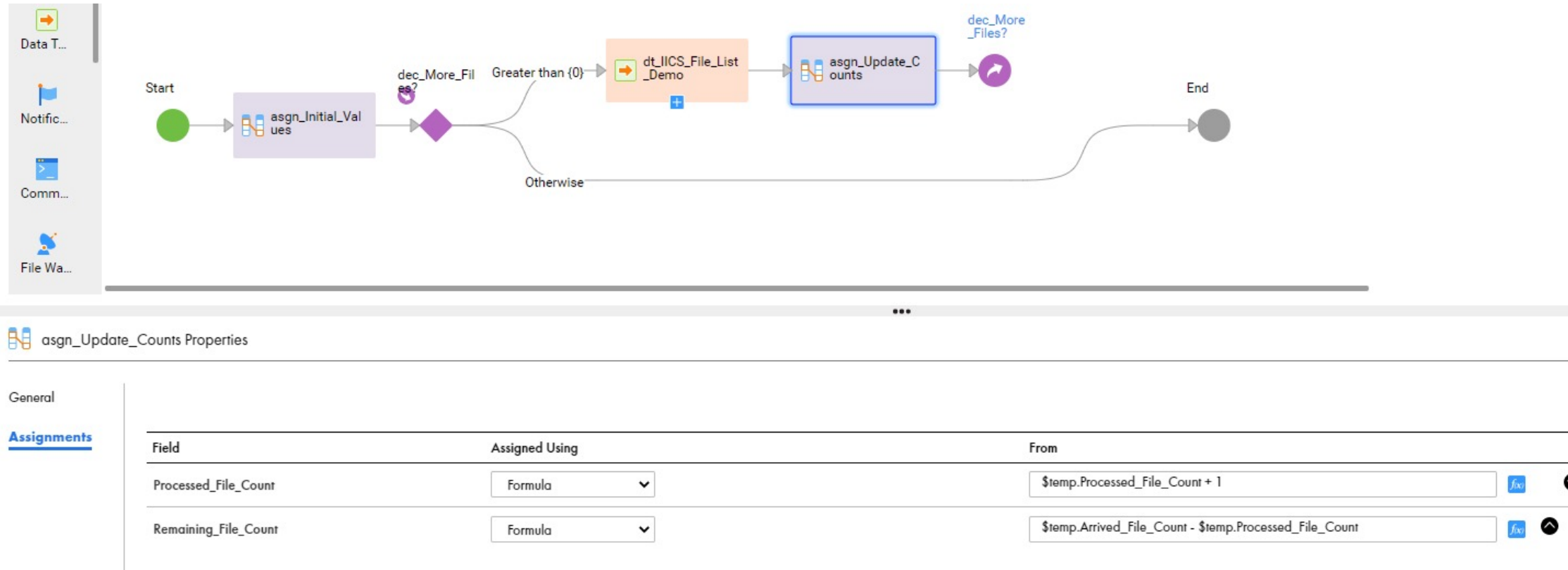
Name name

Type Text

OK Cancel



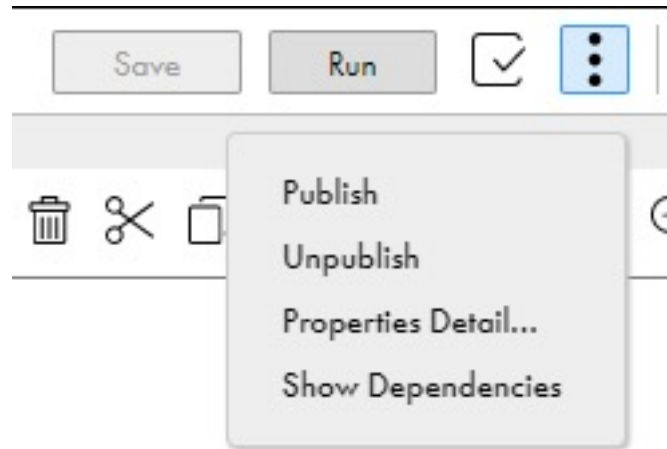
# The Task Flow



The Assignment task asgn\_Update\_Counts increments the Processed\_File\_Count and sets the Remaining\_File\_Count.

The Jump task will jump to the Decision task and then check if there are files left to process or not.

# The Task Flow

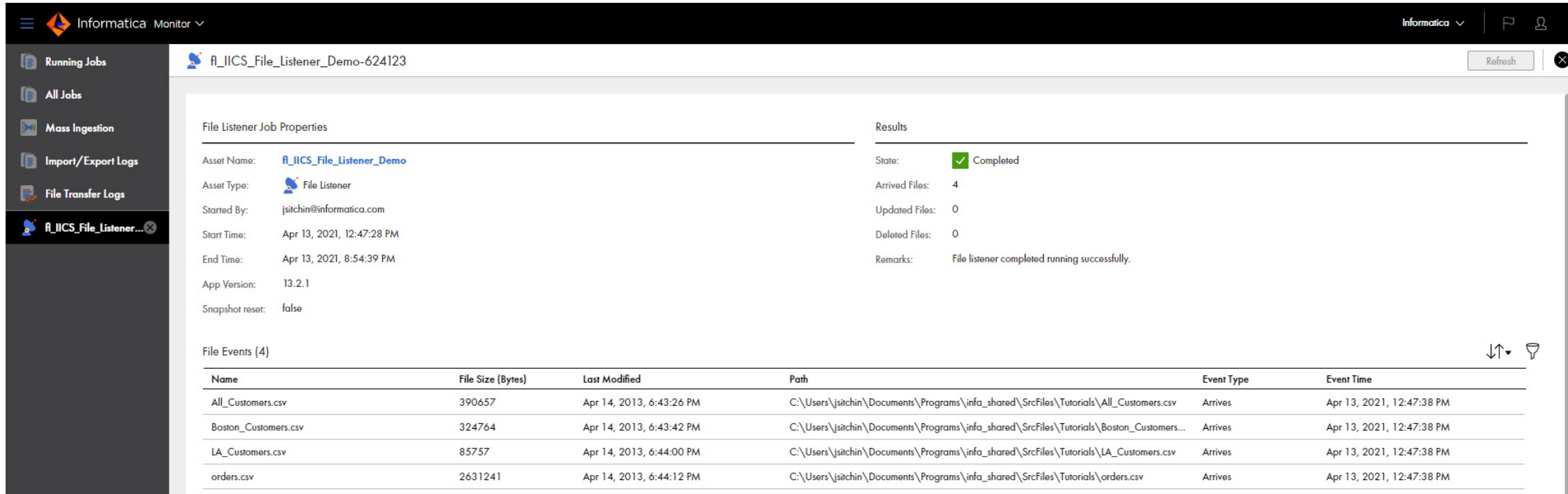


Be sure to save the Task Flow, but also be sure to Publish it.

Once Published, you can start the File Listener.

If the File Listener schedule indicates that it can run right away, then it will begin to look for files and kick off the Task Flow.

# The Monitor Tool



The screenshot displays the Informatica Monitor tool interface. On the left is a sidebar with navigation options: Running Jobs, All Jobs, Mass Ingestion, Import/Export Logs, File Transfer Logs, and a selected job 'fl\_IICS\_File\_Listener...'. The main panel shows the job 'fl\_IICS\_File\_Listener-Demo-624123'. It is divided into 'File Listener Job Properties' and 'Results' sections. The properties section lists details like Asset Name, Type, Start/End times, and Version. The results section shows the job state as 'Completed' with 4 arrived files. Below these is a table of 'File Events' with 4 entries, detailing file names, sizes, last modified dates, paths, event types, and times.

**File Listener Job Properties**

- Asset Name: fl\_IICS\_File\_Listener\_Demo
- Asset Type: File Listener
- Started By: jsitchin@informatica.com
- Start Time: Apr 13, 2021, 12:47:28 PM
- End Time: Apr 13, 2021, 8:54:39 PM
- App Version: 13.2.1
- Snapshot reset: false

**Results**

- State: ✔ Completed
- Arrived Files: 4
- Updated Files: 0
- Deleted Files: 0
- Remarks: File listener completed running successfully.

**File Events (4)**

Name	File Size (Bytes)	Last Modified	Path	Event Type	Event Time
All_Customers.csv	390657	Apr 14, 2013, 6:43:26 PM	C:\Users\jsitchin\Documents\Programs\infa_shared\SrcFiles\Tutorials\All_Customers.csv	Arrives	Apr 13, 2021, 12:47:38 PM
Boston_Customers.csv	324764	Apr 14, 2013, 6:43:42 PM	C:\Users\jsitchin\Documents\Programs\infa_shared\SrcFiles\Tutorials\Boston_Customers...	Arrives	Apr 13, 2021, 12:47:38 PM
LA_Customers.csv	85757	Apr 14, 2013, 6:44:00 PM	C:\Users\jsitchin\Documents\Programs\infa_shared\SrcFiles\Tutorials\LA_Customers.csv	Arrives	Apr 13, 2021, 12:47:38 PM
orders.csv	2631241	Apr 14, 2013, 6:44:12 PM	C:\Users\jsitchin\Documents\Programs\infa_shared\SrcFiles\Tutorials\orders.csv	Arrives	Apr 13, 2021, 12:47:38 PM

In the Monitor tool, you can review the File Transfer Logs and see the files that have been processed by the File Listener.


You can view the file names, their Last Modified Date and Size, the Path, the Event Type and the Event Time.

# My Jobs

- Review the My Jobs tab or in the Monitor the All Jobs to see the Task Flow running when the files arrive.
- In this example, we will have 4 runs.

My Jobs | Data Integration





Jobs (3) ✓ Up to date Updated 5:00:49 PM PDT ↺ ↻ 🔍

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
 if_IICS_File_Listener_Demo-5848938335891333...	JSitchin_Sandbox	<a href="#">4 tasks</a>	Jun 2, 2021, 4:59 PM	Jun 2, 2021, 5:00 PM	<a href="#">View Subtasks</a>	<span>✓ Success</span>

- You can select the View Subtasks to see the details of each run. Click on the mapping task to

My Jobs | Data Integration > if\_IICS\_File\_Listener\_Demo-584893833589133312

Jobs (4) ✓ Up to date Updated 5:08:07 PM PDT ↺ ↻ 🔍

Instance Name	Location	Subtasks	Start Time	End Time	Rows Processed	Status
 mt_IICS_File_Listener_Demo-8	JSitchin_Sandbox		Jun 2, 2021, 5:00 PM	Jun 2, 2021, 5:00 PM	2499	<span>✓ Success</span>
 mt_IICS_File_Listener_Demo-7	JSitchin_Sandbox		Jun 2, 2021, 4:59 PM	Jun 2, 2021, 4:59 PM	1999	<span>✓ Success</span>
 mt_IICS_File_Listener_Demo-6	JSitchin_Sandbox		Jun 2, 2021, 4:59 PM	Jun 2, 2021, 4:59 PM	500	<span>✓ Success</span>
 mt_IICS_File_Listener_Demo-5	JSitchin_Sandbox		Jun 2, 2021, 4:59 PM	Jun 2, 2021, 4:59 PM	10005	<span>✓ Success</span>

# My Jobs

mt\_IICS\_File\_Listener\_Demo-8

## Job Properties

Task Name: [mt\\_IICS\\_File\\_Listener\\_Demo](#)  
Instance ID: 8  
Task Type: Mapping Task  
Started By: jsitchin@informatica.com through API  
Start Time: Jun 2, 2021 5:00:06 PM  
End Time: Jun 2, 2021 5:00:17 PM  
Duration: 11 seconds  
Runtime Environment: USW1PF174L9G  
Secure Agent: USW1PF174L9G

## Results

Status: Success  
Success Rows: 2499  
Errors: 0  
Session Log: [Download Session Log](#)

## Individual Source/Target Results

Name	Success Rows	Errors	Error Message
src_Tutorial_Files	2499	0	
All_Customers_csv	2499	0	

## Job Payload

```
{
  "@type": "mtTaskRuntime",
  "parameters": [ {
    "extendedObject": {
      "@type": "extendedObject",
      "object": {
        "@type": "mObject",
        "name": "All_Customers.csv"
      }
    },
    "@type": "mtTaskParameter",
    "name": "$src_Tutorial_Files$",
    "type": "EXTENDED_SOURCE"
  }, {
    "targetObject": "All_Customers.csv",
    "@type": "mtTaskParameter",
    "name": "$tgt_Tutorial_Output$",
    "type": "TARGET",
    "newObjectName": "All_Customers.csv"
  } ],
  "taskProperties": [ ]
}
```

The details of the Mapping Task shows the rows processed and the file names passed into the parameters and used in the mapping.

If we look at the target directory, we see the new version of the target files. (Note that the cloud host time is set to Pacific Time, but my laptop is on Eastern Time).

This PC > Documents > Programs > infa\_shared > TgtFiles > Tutorials

Name	Date modified	Type	Size
All_Customers.csv	6/2/2021 8:00 PM	Microsoft Excel C...	458 KB
Boston_Customers.csv	6/2/2021 7:59 PM	Microsoft Excel C...	383 KB
LA_Customers.csv	6/2/2021 7:59 PM	Microsoft Excel C...	100 KB
orders.csv	6/2/2021 7:59 PM	Microsoft Excel C...	2,955 KB



# Thank you

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