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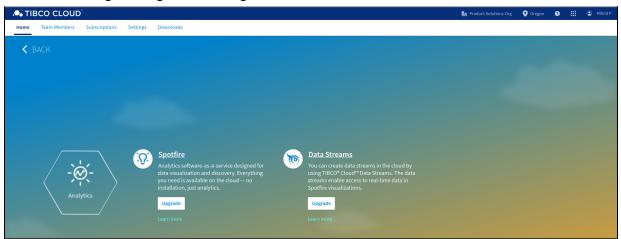
# **Setup Your TIBCO Cloud Streaming & Visualisation Solutions**

Here, we will go through steps that will demonstrate how users can quickly import and configure the outlined data streams and spotfire dashboard in the previous section.

#### **TIBCO Cloud Data Streams**



- ☐ Configure Cloud Data Streams to connect to TCM-eFTL
  - □ Login to <a href="https://account.cloud.tibco.com/">https://account.cloud.tibco.com/</a>
  - ☐ Select the Oregon Region and Organisation

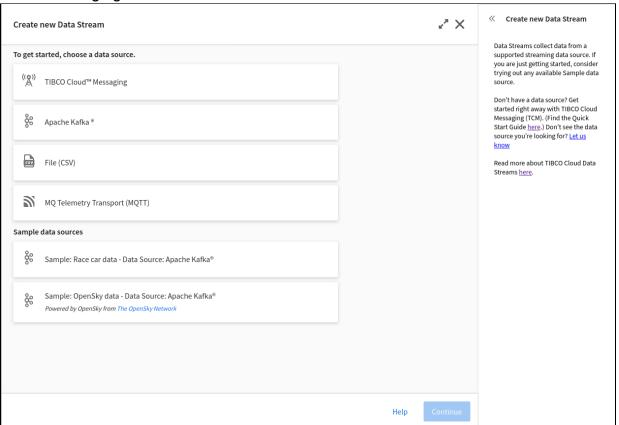


☐ Click on Data Streams and that will take you to Data Streams page



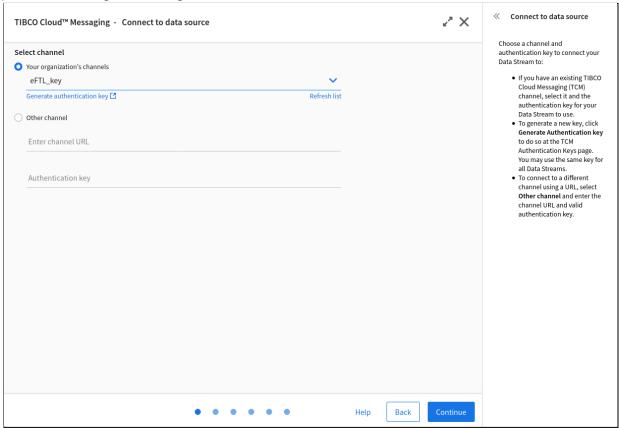
☐ TIBCO Cloud Data Streams supports connecting to open source messaging frameworks like Kafka and MQTT. Here, we are going to use TIBCO Cloud Messaging as our streaming data source. Click on TIBCO

Cloud Messaging and continue.



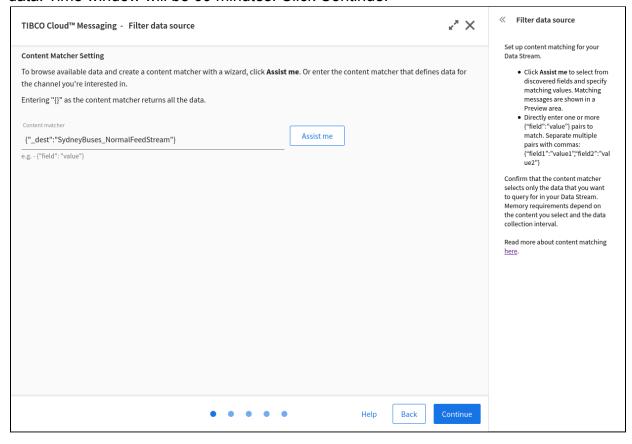
☐ The wizard will automatically discover TCM channels that are running within the same region of your TIBCO Cloud account. If TIBCO Cloud Messaging is running in a different region then you need to click another channel and fill in the TCM channel URL and authentication key that is

provided during the configuration of TCM.

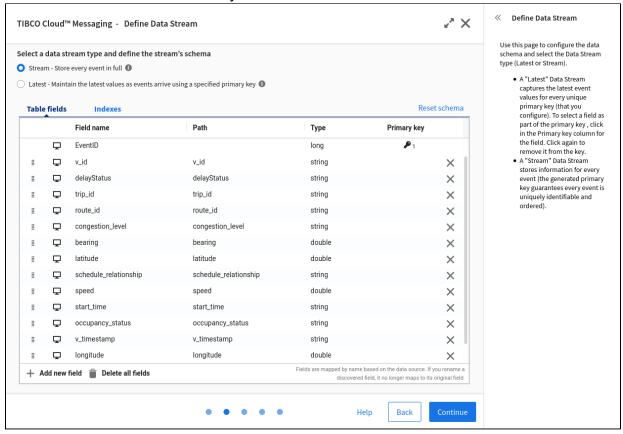


☐ We need to configure 2 Data Streams as below Content Matcher {"\_dest": "SydneyBuses\_NormalFeedStream"}. One Data Stream will be used to visualise Latest Data and another one will be used for historical

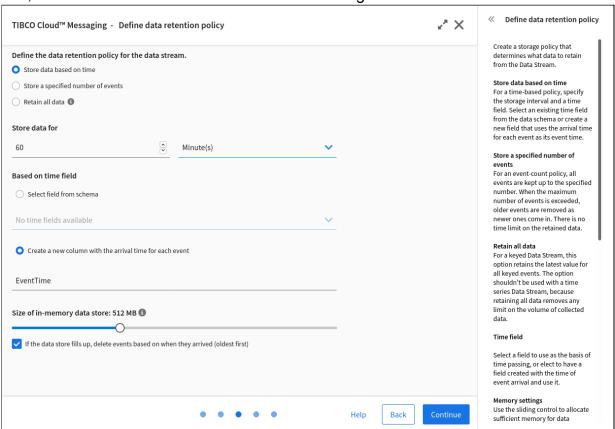
#### data. Time window will be 60 minutes. Click Continue.



☐ The schema will be automatically fetched. And click Continue

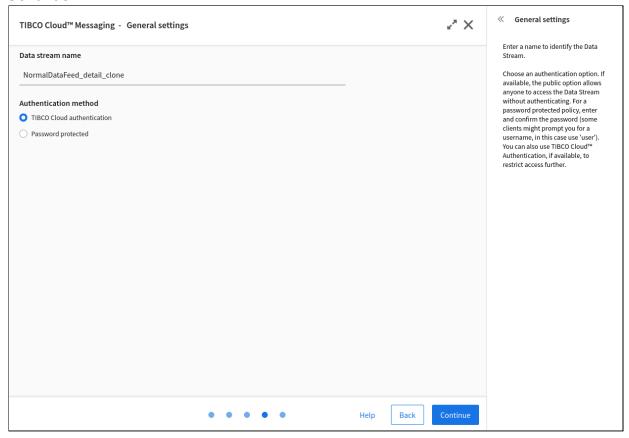


☐ You need to define the retention policy for the data stream and memory size, we need at least 512 MB to store the incoming data. Click Continue.

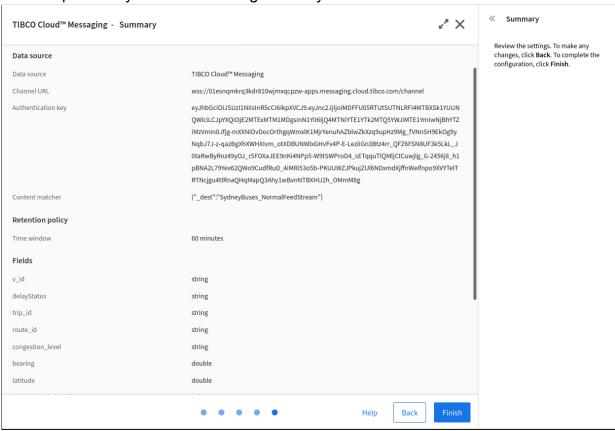


□ Provide meaningful name to Data Stream name and select the Authentication method (preferred TIBCO Cloud Authentication). Click

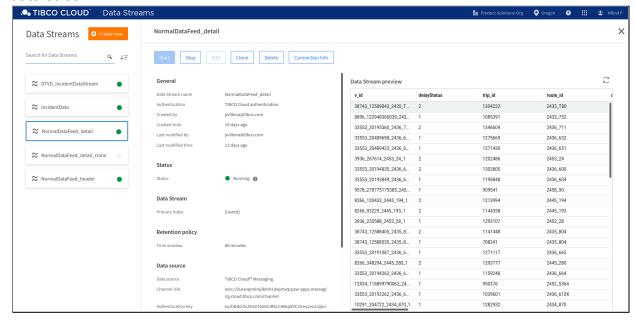
# Continue.



☐ Final Step before your data stream gets ready for use. Click Fnish.



☐ You will see live data coming through as shown below when you start the data stream.



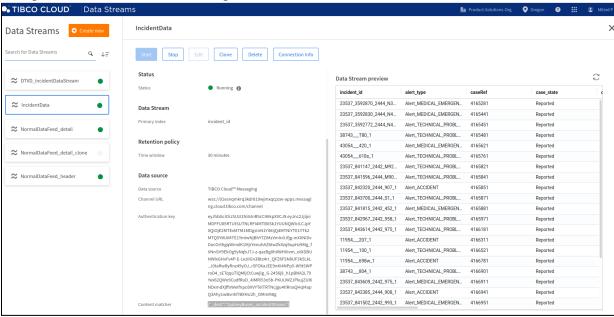
□ Repeat above steps for NormalDataFeed\_header data stream that will populate the latest stream of data in spotfire dashboard visualisation. Select Latest option on the Select data stream type and define the stream's Schema page. And Choose trip\_id as a primary\_key here.

Content matcher = {"\_dest":"SydneyBuses\_NormalFeedStream"}

☐ Repeat above steps for incident details data stream that will populate the incident details in spotfire dashboard visualisation.

Content matcher = {"\_dest":"SydneyBuses\_incidentStream"}

☐ You get final outcome something like below



# **TIBCO Cloud Spotfire**

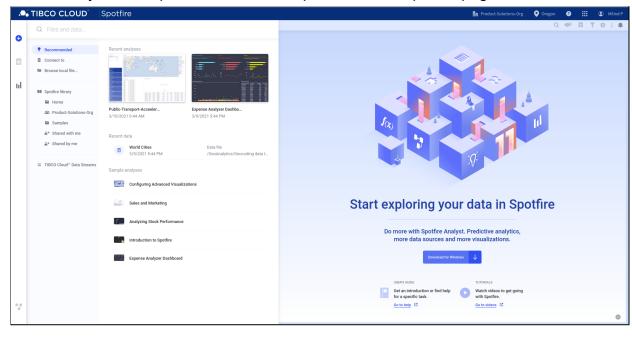
# **□** Configure TIBCO Cloud Spotfire

The end result of the accelerator is to provide visualisation on the real time data that we have generated through different TIBCO Cloud products for running buses in Sydney.

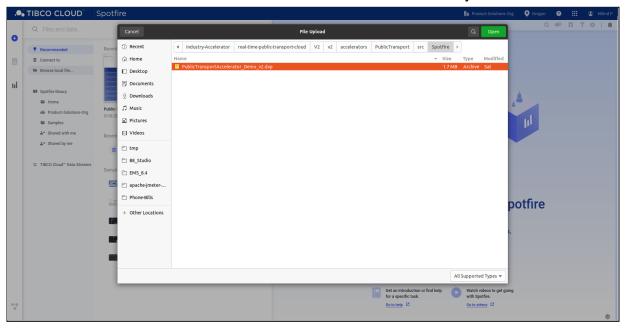
The spotfire dashboard is available under ~/../src/Spotfire/SmartTransportAccelerator\_v2.dxp

To access the spotfire visualisation

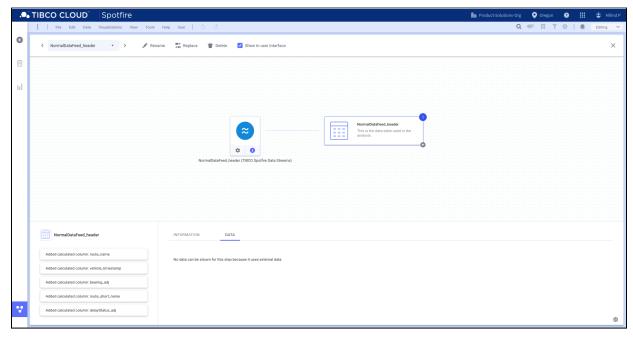
- ☐ Log on the TIBCO Cloud and select appropriate Organisation and region
- ☐ Select Analytics --> Spotfire --> This will open the cloud spotfire page



☐ You need to click on the ☐ on the left side menu bar and select 'Browse local file…' and select the dashboard from the local file system.



☐ You need to configure the data streams for the dashboard to supply the data from the TCM-eFTL channel. Click on the Data Canvas on Left - Bottom corner of the dashboard.



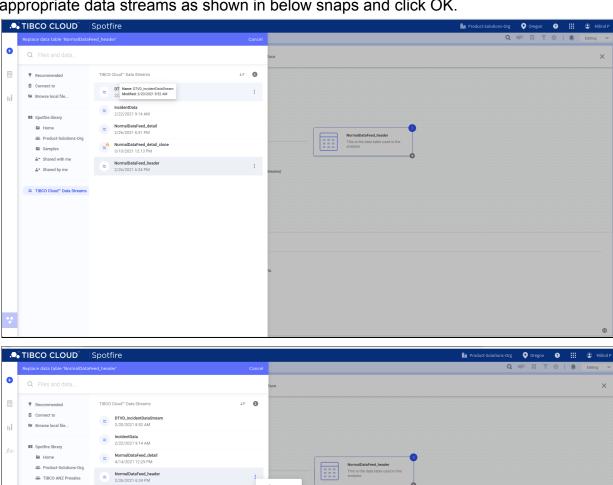
Replace

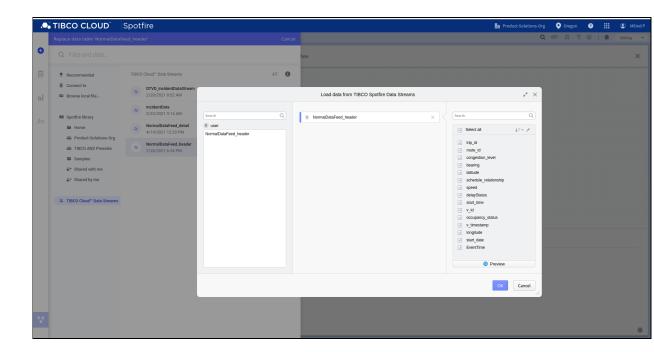
☐ Select the data stream from drop-down box and click on the

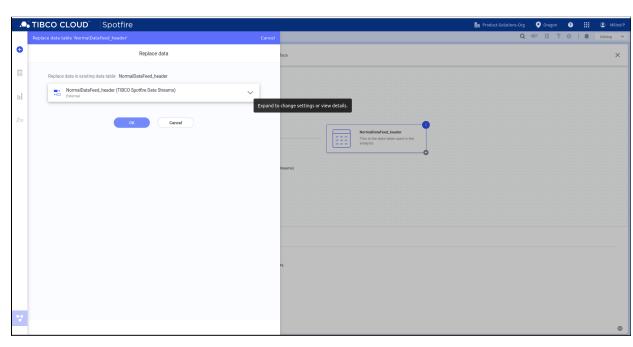
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≈ TIBCO Cloud\* Data Streams

button and click on the and select appropriate data streams as shown in below snaps and click OK.







- ☐ Repeat the above process for all the TIBCO Cloud Data Streams that you have created in the first half.
- Once you configure all the TIBCO Cloud Data Streams for the dashboard then exit the mode.

□ Now, you will be able to visualise the incoming data from TIBCO Cloud Datastream in TIBCO Cloud Spotfire.

