

---

## Integration Engineer Fundamentals Case Study

### Data Source Requirement

#### OBJECTIVE

Migrate the customer's multiple CSV files into Pricefx datasources to support datamart development. Focusing on the proper mapping of the CSV columns into the correct data structure and assigned attributes.

#### RESOURCES

Use the following data sources and structures for this task:

- Data Source Structures:
  - UOM
  - Currency
  - Calendar
- CSV Data:
  - DS\_Calendar CSV
  - DS\_Currency CSV
  - DS\_UOM CSV

#### DATA LAYOUTS

There are multiple files related to this requirement and below are the layouts of the CSV files.

Layout of the **Calendar** CSV file:

- Cal Date
- Calendar Week
- Calendar Month
- Calendar Qtr
- Calendar Year

Layout of the **Currency** CSV file:

- Valid From
- Exchange Rate
- Valid To
- CCY From
- CCY To

Layout of the **UOM** CSV file:

- UOM From
- UOM Conversion Factor
- UOM To

**ACCEPTANCE CRITERIA**

Develop a data integration solution using the IM template(s) that successfully migrates the CSV data into the appropriately defined and structured table or tables in the partition. Your solution should contain the following components:

- 1. PlatformManager/IntegrationManager:**
  - a. IntegrationManager Instance and companion SFTP server
  - b. SFTP folder(s)
  - c. Utilization of case study partition
  - d. Correct metadata definition for all transaction data
  - e. Utilization of IM template(s) to create:
    - i. Mappers
    - ii. Routes
    - iii. Connections
- 2. Partition:**
  - a. Configured structures
  - b. Populated structures