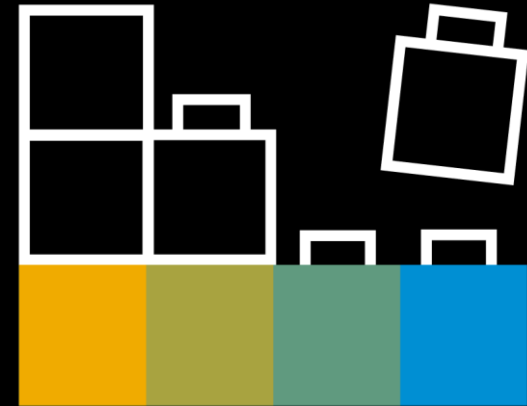# Migrating Master Data to SAP C4C
using SAP BTP Cloud Integration
and C4C OData services

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September 03, 2021

PI MON 2021

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Agenda

- Data Migration vs Application Integration

- Recent Master Data Migration Case

- Lessons Learnt

Data Migration vs Application Integration

- Project activity   or   Maintenance activity
- Run once   or   Run periodically   or   Run on-demand
- Logic complexity
- Amount of data
- Quality of data
- Automated works or Manual works
- Toolset

Recent Master Data Migration Case
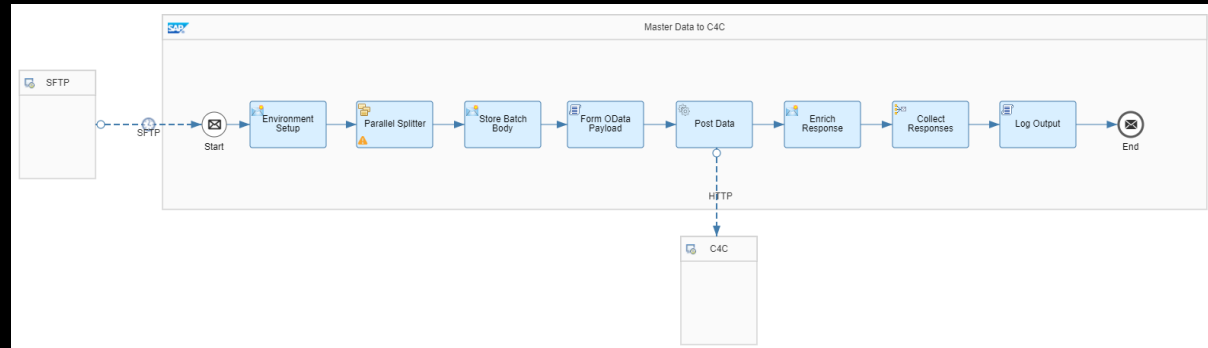## Task, Goals and Limitations

- Global task – gather, validate, and load data for 8 Entities (31M+ rows in CSV)
  Using BTP Cloud Integration – load data for 4 Entities (5M+ rows in CSV)

- Strict deadline

- OData services available for all 4 Entities in C4C

- BTP Cloud Integration tenants available

Recent Master Data Migration Case
Implementation

1. Read files one by one from SFTP.

2. Split input data using General Splitter.

3. Convert CSV data into HTTP instructions and make the Receiver System sweat!

4. Log the responses.

Recent Master Data Migration Case
Tuning

Receiver System: code tuning for processing of loaded entities.

BTP Cloud Integration:

- control of the number of files processed per iFlow run – SFTP Channel;

- control of the number of parallel processes – General Splitter;

- control of the batch size per message – General Splitter.

Recent Master Data Migration Case
Error Handling

1. Log all the OData batch responses.

2. Enrich logs with input data.

3. Manually analyze all the failed batches, validate, improve, and reprocess data before next loading.

```
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Content-Length:     343015

--ejjeeffe1
Content-Type: application/http
Content-Length: 238
Content-Transfer-Encoding: binary

HTTP/1.1 201 Created
Content-Type: text/plain
Content-Length: 0
location: https://        ondemand.com/sap/c4c/odata/v1/c4codataapi/                    DCE4')
dataserviceversion: 2.0


--ejjeeffe1
Content-Type: application/http
Content-Length: 238
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HTTP/1.1 201 Created
Content-Type: text/plain
Content-Length: 0
location: https://        ondemand.com/sap/c4c/odata/v1/c4codataapi/                    AFCE4')
dataserviceversion: 2.0
```
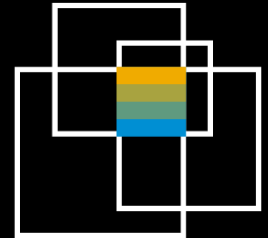
Lessons Learnt

- SAP BTP Cloud Integration offers rich functionality for data migration.

- Using integration tools and tuning involved systems, you can speed up migration by over 30 times!

- Need to find an optimal batch size and concurrent processes amount for each entity.

- May want to find a way how not to mess with auth tokens:
  use a technical user, create an immortal token, …

- Data quality is critical to the success of migration. Be prepared to play around with the data before loading it into production environment.

Thank you.

Contact information:

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