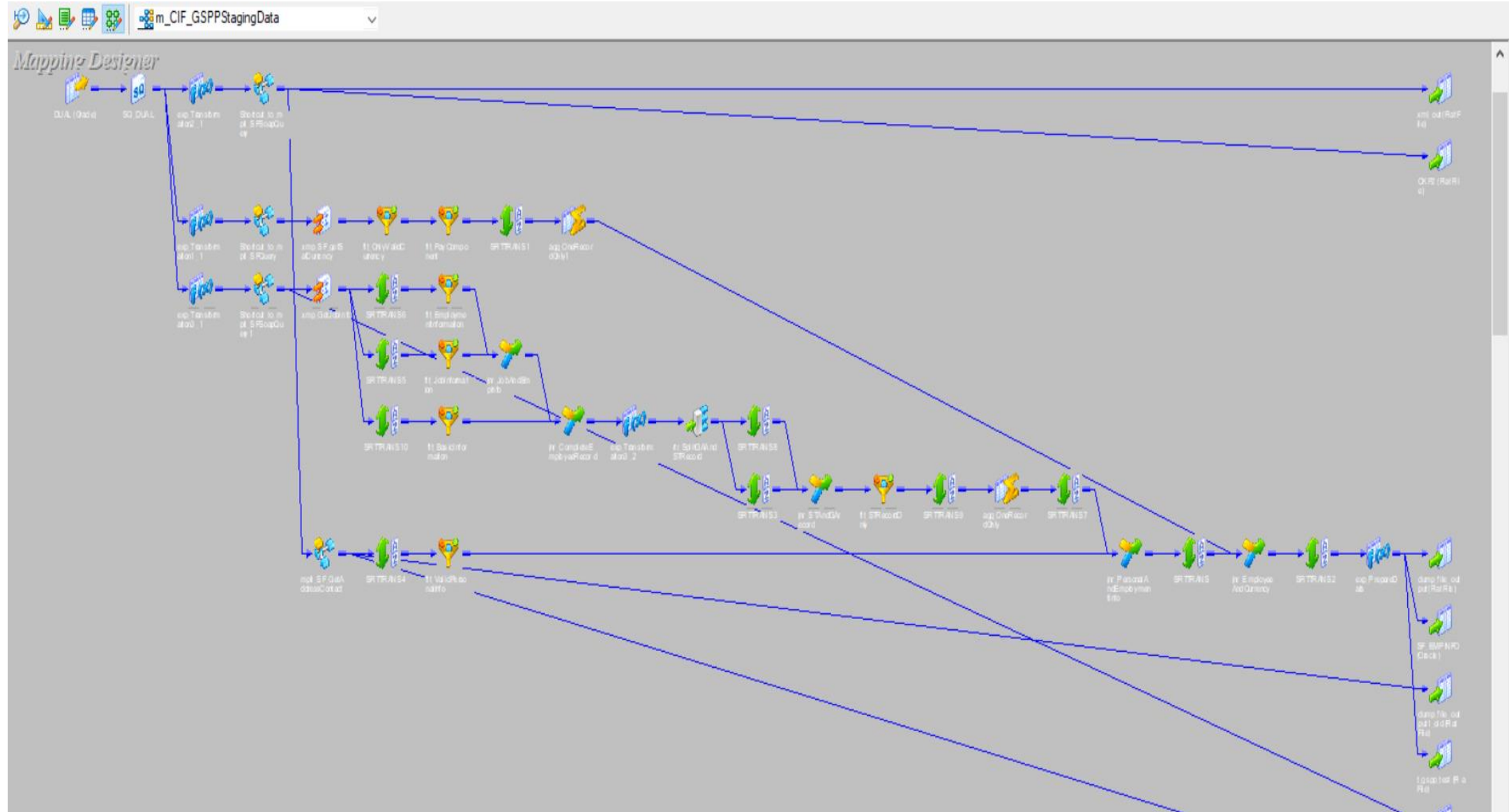


ELSP-ETL Workflows Migration from Informatica to Azure Logic Apps

Preview of workflows in Informatica



After Migrating them into Azure Logic Apps

The screenshot displays the Azure Logic App Designer interface for a logic app named 'logic-externals-upsert-dev-001'. The top navigation bar shows the Microsoft Azure logo, a search bar, and user information 'ChennaKesava_Avva' with 'SWISS REINSURANCE COM' below it. The breadcrumb path is 'Home > logic-externals-upsert-dev-001'. The main title is 'logic-externals-upsert-dev-001 | Logic app designer' with a star icon and a menu icon. The left sidebar contains a search bar and a list of navigation items: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Development Tools (Logic app designer, Logic app code view, Versions, API connections, Quick start guides), and Settings (Workflow settings, Authorization, Access keys). The main workspace shows a workflow diagram with the following steps: 'When a HTTP request is received' (trigger), 'Var Upsert', 'Var Appending Upsert', 'var tick date', 'var ticks utc', and 'calculation for unix'. Each step has a three-dot menu icon to its right. The bottom of the interface shows a status bar with 'Document Classification: Public'.

Microsoft Azure Search resources, services, and docs (G+)

ChennaKesava_Avva
SWISS REINSURANCE COM

Home > logic-externals-upsert-dev-001

logic-externals-upsert-dev-001 | Logic app designer ☆ ...

Logic app

Search

Save Discard Run Trigger Designer Code view Parameters Templates Connectors Help

Overview
Activity log
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Workflow settings
Authorization
Access keys

When a HTTP request is received ...

{x} Var Upsert ...

{x} Var Appending Upsert ...

{x} var tick date ...

{x} var ticks utc ...

{x} calculation for unix ...

Document Classification: Public

Home > logic-externals-upsert-dev-001

logic-externals-upsert-dev-001 | Logic app designer

Logic app

Search Save Discard Run Trigger Designer Code view Parameters Templates Connectors Help

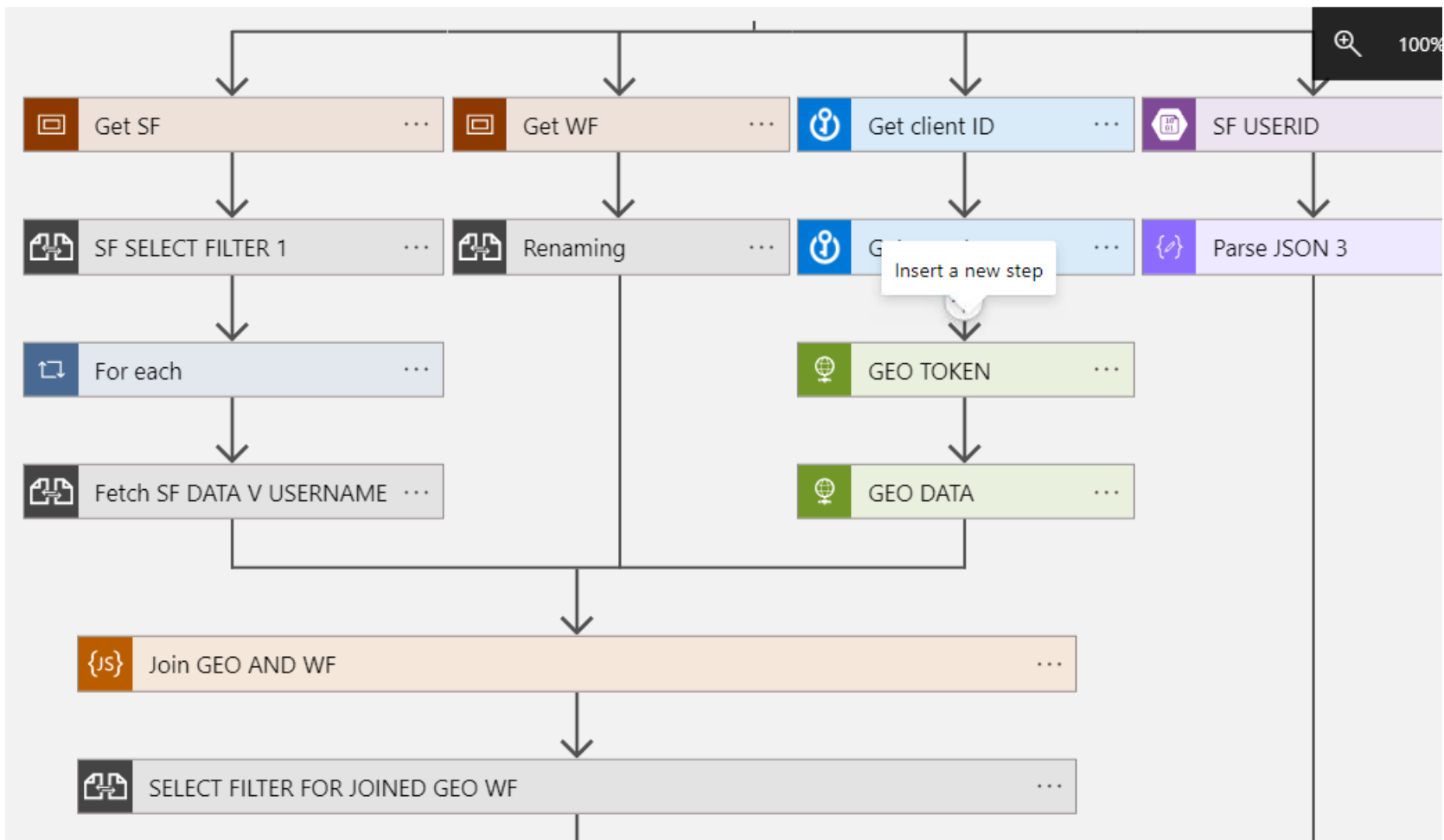
- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Development Tools

- Logic app designer
- Logic app code view
- Versions
- API connections
- Quick start guides

Settings

- Workflow settings
- Authorization
- Access keys



Analysis & Approach : It all started by analyzing each transformation in the informatica PowerCenter mappings and understanding the business logic by approaching the documents provided regarding this.

Implementation & Optimization : every mapping is implemented by doing POC on them and moved into the development stage , all are developed in a way by analyzing every minor relationships between joiners and applied every filters. These all are developed by using the azure logic apps and integrated with the **liquid templates** , where we mostly used and optimized the workflows with the liquidJS code, when I say about the Optimization in the external's workflow, the number of reading the source inputs are decreased and one logic app output is another logic app input , so we avoided the reading that files ,directly interlinked the logic apps.

Technical Challenges : Regarding joining of the data based on the columns , there was a issue with the joiner operation ,so I overcomes that by using the JavaScript code in the inline code operations in the logic apps which helps to join the data properly , but this operation has some limitation that this will run for 5 sec only it can handle only 50MB of data , so to go beyond these limitations we designed two technical solutions one of that is we had integrated the **azure function app** with the logic app , so that it can run as much , and another is the using of dataflows in the **azure data factory**.

SAMPLE LIQUIDJS CODE USED IN INTEGRATION USING LIQUID MAPS

```
{% for data in content.sbject %}
{
  "PERSON":
  {
    "PERSON_ID_EXTERNAL": "{{data.person.person_id_external}}",
    "EMPLOYEE_USER_ID": "{{data.person.custom_string3}}",
    "BIRTH_DATE": "{{data.person.date_of_birth}}",

    "PERSONAL_INFORMATION":
    {
      "START_DATE": "{{data.person.personal_information.start_date}}",
      "END_DATE": "{{data.person.personal_information.end_date}}",
      "FIRST_NAME": "{{data.person.personal_information.first_name | Replace: '\\','' | Replace: ' ', '\\ '}}",
      "LAST_NAME": "{{data.person.personal_information.last_name}}",
      "MIDDLE_NAME": "{{data.person.personal_information.middle_name}}",
      "PREFERRED_NAME": "{{data.person.personal_information.preferred_name | Replace: '\\','' | Replace: ' ', '\\ '}}",

      "DISPLAY_NAME": "{{data.person.personal_information.display_name}}",
      "FIRST_NAME_ALT1": "{{data.person.personal_information.first_name_alt1}}",
      "LAST_NAME_ALT1": "{{data.person.personal_information.last_name_alt1}}",
      "BIRTH_NAME": "{{data.person.personal_information.birth_name}}",
      "COUNTRY_OF_BIRTH": "{{data.person.personal_information.custom_string13}}",
      "PLACE_OF_BIRTH": "{{data.person.personal_information.custom_string5}}",
      "GENDER": "{{data.person.personal_information.gender}}",
      "MARITAL_STATUS": "{{data.person.personal_information.marital_status}}",
      "MARRIED_DATE": "{{data.person.personal_information.since}}",
      "NATIONALITY": "{{data.person.personal_information.nationality}}",
      "SECOND_NATIONALITY": "{{data.person.personal_information.second_nationality}}",
      "NATIVE_PREFERRED_LANG": "{{data.person.personal_information.native_preferred_lang}}",

      {% if data.person.personal_information.salutation == "MR" %}
        "SALUTATION": "Mr.",
      {% elsif data.person.personal_information.salutation == "MS" %}
        "SALUTATION": "Ms.",
      {% elsif data.person.personal_information.salutation == "MISS" %}
        "SALUTATION": "Miss.",
      {% elsif data.person.personal_information.salutation == "MRS" %}
        "SALUTATION": "Mrs.",
      {% else %}
        "SALUTATION": "{{data.person.personal_information.salutation}}",
      {% endif %}

      "SUFFIX": "{{data.person.personal_information.suffix}}",
      "FORMAL_NAME": "{{data.person.personal_information.formal_name}}",
      "TITLE": "{{data.person.personal_information.title}}"
```