Overview

|  |  |
| --- | --- |
| Company Name | ​​NZ Post​ |
| Project Name | ​​AWS Data Migration Discovery and POC​ |
| Sponsor Name | Anna Kossobokova |

**Introduction**

NZ Post Is partnering with Qrious to understand the scope and scale of its current EDW ETL processes.  This work is designed to support in part, the discovery and scoping phase of the migration and data tooling work planned by NZ Post.   Specifically, the focus will be on the analysis of both Oracle native ETL processes along with SAS jobs, native and Oracle proc based jobs.

Table of Contents

[Background  4](#_Toc160109588)

[Objectives 4](#_Toc160109589)

[Stakeholders 5](#_Toc160109590)

[SAS Jobs 6](#_Toc160109591)

[IBM Process Flows 6](#_Toc160109592)

[DATAMART\_ECL\_CME process flow 9](#_Toc160109593)

[DATAMART\_ECL\_CME\_SCAN2 process flow 10](#_Toc160109594)

[DATAMART\_ECL\_CMS\_TRANSACTIONS process flow 11](#_Toc160109595)

[DATAMART\_ECL\_PACE process flow 11](#_Toc160109596)

[DATAMART\_ECL\_TM1\_SALES\_TRACED process flow 11](#_Toc160109597)

[DATAMART\_ECL\_TRACK\_AND\_TRACE process flow 12](#_Toc160109598)

[DW\_BIA\_DATA\_IMC\_INBOUND\_INTERCHANGE process flow 12](#_Toc160109599)

[DW\_BIA\_PARENT\_SEGMENT process flow 12](#_Toc160109600)

[DW\_BIA\_PNS\_DAILY process flow 12](#_Toc160109601)

[DW\_BIA\_PNS\_MONTHLY process flow 12](#_Toc160109602)

[DW\_CME\_PERSIST\_DIM\_REGION process flow 13](#_Toc160109603)

[DW\_CME\_PERSIST\_FCT\_DISTANCE\_FACTOR\_MATRIX process flow 13](#_Toc160109604)

[DW\_CME\_PERSIST\_NETWORK\_DIMENSION process flow 13](#_Toc160109605)

[DW\_CME\_PERSIST\_PARCEL\_MODEL\_ADDRESS process flow 14](#_Toc160109606)

[DW\_DAILY\_CHANNELS process flow 14](#_Toc160109607)

[DW\_DIM process flow 15](#_Toc160109608)

[DW\_ECL\_FINANCIAL\_KPI process flow 15](#_Toc160109609)

[DW\_ECL\_INCREMENTAL\_DW\_LOAD process flow 15](#_Toc160109610)

[DW\_ECL\_NATIONAL\_RATES\_1 process flow 16](#_Toc160109611)

[DW\_ECL\_PROCESS\_COURIER\_PARCEL\_CUBE process flow 16](#_Toc160109612)

[DW\_FINANCE process flow 16](#_Toc160109613)

[DW\_INBOUND\_COMMERCIAL process flow 19](#_Toc160109614)

[DW\_INTERNATIONAL\_00 process flow 19](#_Toc160109615)

[DW\_INTERNATIONAL\_03 process flow 19](#_Toc160109616)

[DW\_IPS\_Main\_DIMs\_and\_Facts process flow 19](#_Toc160109617)

[DW\_IPS\_PERSIST\_DIM process flow 20](#_Toc160109618)

[DW\_IPS\_Reference\_dimensions process flow 20](#_Toc160109619)

[DW\_MANUAL\_STG process flow 21](#_Toc160109620)

[DW\_NAVIGATOR process flow 21](#_Toc160109621)

[DW\_NAVIGATOR\_INC\_01 process flow 22](#_Toc160109622)

[DW\_NRDS\_MOS\_QUERIES process flow 23](#_Toc160109623)

[DW\_NRDS\_REDIRECTION\_RPT process flow 23](#_Toc160109624)

[DW\_OTM\_GRANTS process flow 23](#_Toc160109625)

[DW\_PERF\_CUSTOMER\_SPEND process flow 23](#_Toc160109626)

[DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE process flow 23](#_Toc160109627)

[DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE\_SUNDAY process flow 24](#_Toc160109628)

[DW\_PERSIST\_PRE\_FPP process flow 24](#_Toc160109629)

[DW\_SALESFORCE\_REVENUE\_01 process flow 24](#_Toc160109630)

[DW\_UDS\_03 process flow 24](#_Toc160109631)

[DW\_UDS\_04 process flow 25](#_Toc160109632)

[NRDS\_BXLR\_BOX\_BAG\_SNAPSHOT process flow 25](#_Toc160109633)

[SAS Jobs Logging 25](#_Toc160109634)

[Summary 25](#_Toc160109635)

[Redundant jobs 25](#_Toc160109636)

[Long running jobs 25](#_Toc160109637)

[Support documents 31](#_Toc160109638)

## Background

New Zealand Post (NZ Post) is embarking on a significant data transition project, primarily focusing on migrating from its existing Oracle Enterprise Data Warehouse (EDW) to Snowflake. Introduced by Sushil, a seasoned data foundation architect at NZ Post, the initiative commences with a 'lift and shift' strategy targeting the Kimball layer and dimensional models, beginning with the pivotal fact, the parcel performance model.

**Migration Objectives and Approach**

This process involves temporarily pulling source data from Oracle EDW to alleviate potential blockers, intending to shift all data ingestion exclusively to Snowflake in the subsequent stages. In executing the transition, an audit of all reports, dashboards, and products generated from Oracle EDW is imperative, which will help identify, prioritise, and eventually migrate essential elements while eliminating obsolete or redundant components. The goal is a decommission of Oracle EDW, enhancing report reliability and performance.

**Project Planning and Next Steps**

The project commences with a discovery and scoping phase, transiting to the planning of the migration path adorned with significant milestones and phasing. The planning process will be iterative and flexible, with possibilities for immediate commencement on high-priority initiatives without waiting for a complete inventory pull from the legacy system.

**Conclusion**

As NZ Post navigates through this ambitious data warehousing transition, planning, auditing, and strategic funding applications are imperative. The collaborative effort from the Qrious team, under the guidance of Sean and Wouter, will ensure a seamless process from initiation to completion.

Qrious are committed to supporting NZ Post on this journey and have been engaged to support in the discovery and scoping phase of the migration of data and transformation tooling onto the modern data platform. Specifically, to discover, analyse, and assist in the design of the strategy and approach to migration.

## Objectives

Qrious intends to assist in the curation of a data artifact migration plan in partnership with NZ Post for a seamless transition to Snowflake. This strategy ensures prompt value delivery to users while avoiding the transfer of any technical shortcomings to the new Snowflake platform.

The scope of this data artifact migration plan includes a stocktake of tasks and tables targeting the successful relocation of the Oracle EDW tables and pipelines to the Snowflake environment.

The depth of this document will be limited to the tasks covered and the available time to analyse/document.

For clarity and alignment, this scope will encapsulate:

* Curation of Data Artifacts: A overview of the steps, methods, and timings for tables and pipelines proposed for the migration to the Snowflake platform. This will form an input to subsequent documents and ultimately the final business case.
* ETL Jobs, Oracle and SAS will be analysed in terms of schema / size/ complexity and other suitable key metrics to allow the prioritising and requirements of specific jobs.

* A Full List of Key Jobs and Tables: The EDW processes total approx. 5000 jobs so will be analysed for review in terms of subsequent work in the business case.  This will be summarised within this document and the detail will be contained in an appendix and supplementary excel/sql files.

## Stakeholders

While Qrious is working jointly towards migration plan artifacts, Qrious will be working with the support and involvement of the following people.

**Qrious**

|  |  |
| --- | --- |
| Wouter de Vos | ​​Professional Services Director |
| Darren Bawden | Lead Consultant |
| Jianjun Dai | ​​Senior Consultant |
| Elliott WIlkes | Project Coordinator |
| Sean Grace | Business Development Manager |

**NZ Post**

|  |  |
| --- | --- |
| Anna Kossobokova | ​​Data Engineering and Platform Integration Manager |
| Anudeep Kokkula | Senior Data Engineer |
| Rania Ibrahim | (Datacom) |
| Sushil Kamanahalli | Data Foundations Architect |
| Manoj Rana | Principal Data Engineer |
| Solomon Georgewashington | Senior Data Consultant |
| Anil Dhakal | Senior Data Engineer |

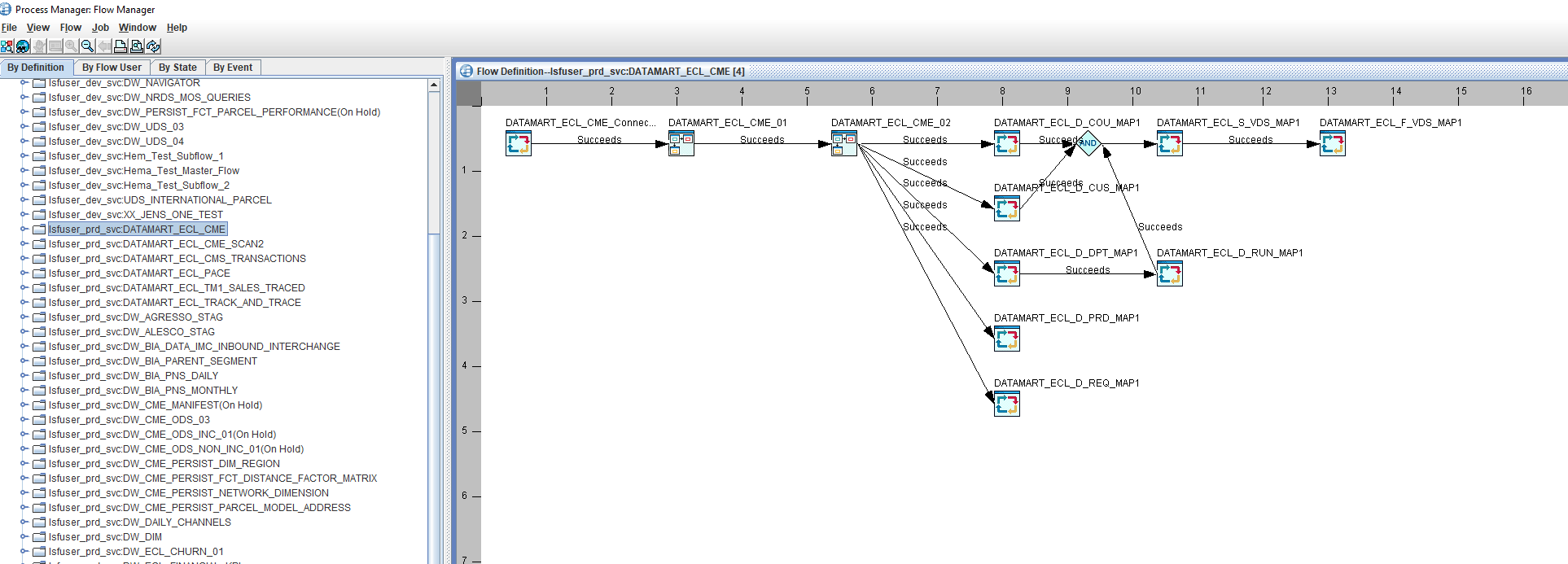
## Approach of the analysis

Qrious has analysed the available IBM Process Flow log file, SAS execution log files and SAS DI Studio codes to compile jobs / tables / metrics. This curated data, and additional appendices, will be able to drive subsequent business case work.

## IBM Process Flows

IBM Process Flow is used to group multiple SAS jobs together into a job flow. The job flow then gets scheduled and executed based on the schedule.

Below screen shot is an example of the process flow definition.



The below list shows for the period between 01-Nov-2023 and 31-Jan-2024, the number of IBM process flows run for each day.

|  |  |  |
| --- | --- | --- |
| IBM\_PROCESS\_FLOW\_RUN\_DATE | IBM\_PROCESS\_FLOW\_RUN\_DATE\_DOW | NUMBER\_OF\_PROCESS\_FLOWS\_RUN |
| 1/11/2023 | Wed | 32 |
| 2/11/2023 | Thu | 39 |
| 3/11/2023 | Fri | 33 |
| 4/11/2023 | Sat | 15 |
| 5/11/2023 | Sun | 33 |
| 6/11/2023 | Mon | 38 |
| 7/11/2023 | Tue | 39 |
| 8/11/2023 | Wed | 37 |
| 9/11/2023 | Thu | 37 |
| 10/11/2023 | Fri | 33 |
| 11/11/2023 | Sat | 13 |
| 12/11/2023 | Sun | 33 |
| 13/11/2023 | Mon | 36 |
| 14/11/2023 | Tue | 36 |
| 15/11/2023 | Wed | 34 |
| 16/11/2023 | Thu | 36 |
| 17/11/2023 | Fri | 30 |
| 18/11/2023 | Sat | 12 |
| 19/11/2023 | Sun | 31 |
| 20/11/2023 | Mon | 39 |
| 21/11/2023 | Tue | 36 |
| 22/11/2023 | Wed | 34 |
| 23/11/2023 | Thu | 36 |
| 24/11/2023 | Fri | 31 |
| 25/11/2023 | Sat | 13 |
| 26/11/2023 | Sun | 32 |
| 27/11/2023 | Mon | 37 |
| 28/11/2023 | Tue | 36 |
| 29/11/2023 | Wed | 36 |
| 30/11/2023 | Thu | 38 |
| 1/12/2023 | Fri | 32 |
| 2/12/2023 | Sat | 15 |
| 3/12/2023 | Sun | 33 |
| 4/12/2023 | Mon | 35 |
| 5/12/2023 | Tue | 35 |
| 6/12/2023 | Wed | 38 |
| 7/12/2023 | Thu | 38 |
| 8/12/2023 | Fri | 30 |
| 9/12/2023 | Sat | 13 |
| 10/12/2023 | Sun | 33 |
| 11/12/2023 | Mon | 35 |
| 12/12/2023 | Tue | 36 |
| 13/12/2023 | Wed | 37 |
| 14/12/2023 | Thu | 36 |
| 15/12/2023 | Fri | 31 |
| 16/12/2023 | Sat | 12 |
| 17/12/2023 | Sun | 32 |
| 18/12/2023 | Mon | 35 |
| 19/12/2023 | Tue | 37 |
| 20/12/2023 | Wed | 35 |
| 21/12/2023 | Thu | 36 |
| 22/12/2023 | Fri | 31 |
| 23/12/2023 | Sat | 13 |
| 24/12/2023 | Sun | 33 |
| 25/12/2023 | Mon | 34 |
| 26/12/2023 | Tue | 36 |
| 27/12/2023 | Wed | 37 |
| 28/12/2023 | Thu | 35 |
| 29/12/2023 | Fri | 32 |
| 30/12/2023 | Sat | 12 |
| 31/12/2023 | Sun | 32 |
| 1/01/2024 | Mon | 36 |
| 2/01/2024 | Tue | 36 |
| 3/01/2024 | Wed | 36 |
| 4/01/2024 | Thu | 37 |
| 5/01/2024 | Fri | 31 |
| 6/01/2024 | Sat | 13 |
| 7/01/2024 | Sun | 34 |
| 8/01/2024 | Mon | 35 |
| 9/01/2024 | Tue | 36 |
| 10/01/2024 | Wed | 37 |
| 11/01/2024 | Thu | 36 |
| 12/01/2024 | Fri | 32 |
| 13/01/2024 | Sat | 12 |
| 14/01/2024 | Sun | 32 |
| 15/01/2024 | Mon | 35 |
| 16/01/2024 | Tue | 36 |
| 17/01/2024 | Wed | 36 |
| 18/01/2024 | Thu | 36 |
| 19/01/2024 | Fri | 31 |
| 20/01/2024 | Sat | 12 |
| 21/01/2024 | Sun | 32 |
| 22/01/2024 | Mon | 37 |
| 23/01/2024 | Tue | 36 |
| 24/01/2024 | Wed | 36 |
| 25/01/2024 | Thu | 36 |
| 26/01/2024 | Fri | 31 |
| 27/01/2024 | Sat | 12 |
| 28/01/2024 | Sun | 33 |
| 29/01/2024 | Mon | 35 |
| 30/01/2024 | Tue | 37 |
| 31/01/2024 | Wed | 37 |

The following list the IBM Process Flows executed between 01-Jul-2023 and 31-Jan-2024. It includes the name of the process flow, the latest run date ( up to 31-Jan-2024), the total number of runs between 01-Jul-2023 and 31-Jan-2024 and total number of CTAS (create table as) and Insert record count

Note 1. This total number of CTAS and Insert record count is extracted from the SAS job log file for 6th of Feb, 2024. This number only include the CTAS and Insert record count for SAS process and it does not include record count of UPDATE, DELETE, MERGE statement or records processed when connect to Oracle database.

|  |  |  |  |
| --- | --- | --- | --- |
| LSF\_PROCESS\_FLOW\_NAME | LATEST\_RUN\_DATE | TOTAL\_RUN\_TIMES between 01-Jul-2023 and 31-Jan-2024 | TOTAL\_CTAS\_INSERT\_RECORD\_CNT(refer to Note 1) |
| DATAMART\_ECL\_CME | 31/01/2024 0:00 | 183 | 1673041 |
| DATAMART\_ECL\_CME\_SCAN2 | 31/01/24 00:00:00 | 183 | 1870952 |
| DATAMART\_ECL\_CMS\_TRANSACTIONS | 31/01/24 00:00:00 | 152 | 25409445 |
| DATAMART\_ECL\_PACE | 31/01/24 00:00:00 | 183 |  |
| DATAMART\_ECL\_TM1\_SALES\_TRACED | 31/01/24 00:00:00 | 182 | 11212570 |
| DATAMART\_ECL\_TRACK\_AND\_TRACE | 31/01/24 00:00:00 | 170 | 46759180 |
| DW\_AR\_DEBT | 01/11/23 00:00:00 | 124 |  |
| DW\_BIA\_DATA\_IMC\_INBOUND\_INTERCHANGE | 31/01/24 00:00:00 | 183 | 49094 |
| DW\_BIA\_PARENT\_SEGMENT | 06/01/24 00:00:00 | 7 |  |
| DW\_BIA\_PNS\_DAILY | 31/01/24 00:00:00 | 183 | 1219 |
| DW\_BIA\_PNS\_MONTHLY | 02/01/24 00:00:00 | 7 |  |
| DW\_CME\_PERSIST\_DIM\_REGION | 31/01/24 00:00:00 | 183 | 4 |
| DW\_CME\_PERSIST\_FCT\_DISTANCE\_FACTOR\_MATRIX | 31/01/24 00:00:00 | 183 | 2 |
| DW\_CME\_PERSIST\_NETWORK\_DIMENSION | 31/01/24 00:00:00 | 183 | 429033 |
| DW\_CME\_PERSIST\_PARCEL\_MODEL\_ADDRESS | 31/01/24 00:00:00 | 182 |  |
| DW\_DAILY\_CHANNELS | 31/01/24 00:00:00 | 168 | 4412904 |
| DW\_DIM | 31/01/24 00:00:00 | 366 |  |
| DW\_ECL\_CHURN\_01 | 06/12/23 00:00:00 | 1 |  |
| DW\_ECL\_FINANCIAL\_KPI | 31/01/24 00:00:00 | 183 | 62067888 |
| DW\_ECL\_INCREMENTAL\_DW\_LOAD | 31/01/24 00:00:00 | 178 | 57662705 |
| DW\_ECL\_NATIONAL\_RATES\_1 | 31/01/24 00:00:00 | 14 |  |
| DW\_ECL\_PRESENTATION\_CHURN\_API\_CALL | 04/01/24 00:00:00 | 3 |  |
| DW\_ECL\_PROCESS\_COURIER\_PARCEL\_CUBE | 30/01/24 00:00:00 | 92 |  |
| DW\_FINANCE | 31/01/24 00:00:00 | 366 |  |
| DW\_INBOUND\_COMMERCIAL | 27/01/24 00:00:00 | 31 |  |
| DW\_INTERNATIONAL\_00 | 31/01/24 00:00:00 | 153 |  |
| DW\_INTERNATIONAL\_01 | 27/12/23 00:00:00 | 154 |  |
| DW\_INTERNATIONAL\_03 | 31/01/24 00:00:00 | 214 | 245156 |
| DW\_IPS\_Main\_DIMs\_and\_Facts | 31/01/24 00:00:00 | 180 | 358 |
| DW\_IPS\_PERSIST\_DIM | 31/01/24 00:00:00 | 183 | 1 |
| DW\_IPS\_Reference\_dimensions | 31/01/24 00:00:00 | 366 | 358 |
| DW\_MANUAL\_STG | 31/01/24 00:00:00 | 184 | 5 |
| DW\_MPD | 28/01/24 00:00:00 | 59 |  |
| DW\_NAVIGATOR | 31/01/24 00:00:00 | 366 | 1525545 |
| DW\_NAVIGATOR\_INC\_01 | 31/01/24 00:00:00 | 183 | 3009149 |
| DW\_NRDS\_MOS\_QUERIES | 31/01/24 00:00:00 | 366 | 3304 |
| DW\_NRDS\_REDIRECTION\_RPT | 31/01/24 00:00:00 | 153 |  |
| DW\_OTM\_GRANTS | 31/01/24 00:00:00 | 1467 |  |
| DW\_PERF\_CUSTOMER\_SPEND | 31/01/24 00:00:00 | 183 |  |
| DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE | 31/01/24 00:00:00 | 186 | 7197480 |
| DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE\_SUNDAY | 28/01/24 00:00:00 | 33 |  |
| DW\_PERSIST\_PRE\_FPP | 31/01/24 00:00:00 | 214 |  |
| DW\_SALESFORCE\_CUSTOMER\_SEGMENTATION | 07/01/24 00:00:00 | 7 |  |
| DW\_SALESFORCE\_REVENUE\_01 | 31/01/24 00:00:00 | 182 |  |
| DW\_UDS\_03 | 31/01/24 00:00:00 | 366 |  |
| DW\_UDS\_04 | 31/01/24 00:00:00 | 366 | 6679 |
| NRDS\_BXLR\_BOX\_BAG\_SNAPSHOT | 31/01/24 00:00:00 | 7 |  |
| NRDS\_BXLR\_COST\_REVENUE\_SNAPSHOT | 10/01/24 00:00:00 | 7 |  |
| NRDS\_REFRESH\_MONTHLY\_MV\_01 | 03/01/24 00:00:00 | 7 |  |
| UDS\_INTERNATIONAL\_PARCEL | 31/10/23 00:00:00 | 104 |  |

The following list show the detail of the IBM Process Flows executed on 01-Feb-2024. It includes the start time of the process flow, the name of it, the number of SAS jobs get executed as part of the process flow and the duration of the process flow execution in minutes.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IBM\_PROCESS\_FLOW\_RUN\_DATE | IBM\_PROCESS\_FLOW\_RUN\_STIME | IBM\_PROCESS\_FLOW\_RUN\_DATE\_DOW | IBM\_PROCESS\_FLOW\_NAME | SAS\_PROCESS\_FLOW\_JOB\_CNT | SAS\_PROCESS\_FLOW\_DURATION\_MINS |
| 01/02/24 00:00:00 | 01/02/24 00:01:53 | Thu | DW\_OTM\_GRANTS | 8 | 1380.1 |
| 01/02/24 00:00:00 | 01/02/24 00:33:07 | Thu | DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE | 18 | 956.45 |
| 01/02/24 00:00:00 | 01/02/24 01:45:31 | Thu | DW\_MPD | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 03:00:18 | Thu | DATAMART\_ECL\_TRACK\_AND\_TRACE | 11 | 1042.38 |
| 01/02/24 00:00:00 | 01/02/24 03:22:47 | Thu | DATAMART\_ECL\_TM1\_SALES\_TRACED | 13 | 1088 |
| 01/02/24 00:00:00 | 01/02/24 04:15:28 | Thu | DW\_PERSIST\_PRE\_FPP | 2 | 8.38 |
| 01/02/24 00:00:00 | 01/02/24 04:35:06 | Thu | DW\_ECL\_PROCESS\_COURIER\_PARCEL\_CUBE | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 05:01:40 | Thu | DW\_CME\_PERSIST\_NETWORK\_DIMENSION | 23 | 58.99 |
| 01/02/24 00:00:00 | 01/02/24 05:50:12 | Thu | DATAMART\_ECL\_CME\_SCAN2 | 22 | 36.58 |
| 01/02/24 00:00:00 | 01/02/24 06:01:08 | Thu | DATAMART\_ECL\_CME | 55 | 264.55 |
| 01/02/24 00:00:00 | 01/02/24 07:38:20 | Thu | DW\_CME\_PERSIST\_PARCEL\_MODEL\_ADDRESS | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 08:02:38 | Thu | DW\_BIA\_PNS\_DAILY | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 10:01:54 | Thu | DW\_ECL\_INCREMENTAL\_DW\_LOAD | 20 | 608.16 |
| 01/02/24 00:00:00 | 01/02/24 10:02:20 | Thu | DW\_ECL\_NATIONAL\_RATES\_1 | 2 | 683.08 |
| 01/02/24 00:00:00 | 01/02/24 12:03:14 | Thu | DATAMART\_ECL\_PACE | 4 | 1.63 |
| 01/02/24 00:00:00 | 01/02/24 12:20:13 | Thu | DW\_NRDS\_MOS\_QUERIES | 14 | 540.11 |
| 01/02/24 00:00:00 | 01/02/24 13:00:12 | Thu | DW\_FINANCE | 106 | 29.04 |
| 01/02/24 00:00:00 | 01/02/24 13:30:33 | Thu | DW\_UDS\_03 | 6 | 16.31 |
| 01/02/24 00:00:00 | 01/02/24 14:00:22 | Thu | DW\_INTERNATIONAL\_00 | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 14:17:24 | Thu | DW\_PERF\_CUSTOMER\_SPEND | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 14:25:10 | Thu | DW\_UDS\_04 | 13 | 12.15 |
| 01/02/24 00:00:00 | 01/02/24 14:25:29 | Thu | DW\_BIA\_DATA\_IMC\_INBOUND\_INTERCHANGE | 2 | 248.51 |
| 01/02/24 00:00:00 | 01/02/24 14:30:22 | Thu | DW\_DAILY\_CHANNELS | 40 | 6.6 |
| 01/02/24 00:00:00 | 01/02/24 15:00:20 | Thu | DW\_DIM | 10 | 157.7 |
| 01/02/24 00:00:00 | 01/02/24 15:09:24 | Thu | DW\_NAVIGATOR | 52 | 31.86 |
| 01/02/24 00:00:00 | 01/02/24 16:01:50 | Thu | DW\_CME\_PERSIST\_DIM\_REGION | 2 | 0.63 |
| 01/02/24 00:00:00 | 01/02/24 16:11:37 | Thu | DW\_NAVIGATOR\_INC\_01 | 13 | 35.36 |
| 01/02/24 00:00:00 | 01/02/24 16:55:55 | Thu | DW\_NRDS\_REDIRECTION\_RPT | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 17:00:59 | Thu | DW\_CME\_PERSIST\_FCT\_DISTANCE\_FACTOR\_MATRIX | 3 | 201.55 |
| 01/02/24 00:00:00 | 01/02/24 17:03:12 | Thu | DATAMART\_ECL\_CMS\_TRANSACTIONS | 18 | 291.58 |
| 01/02/24 00:00:00 | 01/02/24 17:23:28 | Thu | DW\_INTERNATIONAL\_03 | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 17:30:09 | Thu | DW\_IPS\_Reference\_dimensions | 57 | 8.68 |
| 01/02/24 00:00:00 | 01/02/24 18:00:27 | Thu | DW\_IPS\_PERSIST\_DIM | 8 | 0.51 |
| 01/02/24 00:00:00 | 01/02/24 18:15:19 | Thu | DW\_IPS\_Main\_DIMs\_and\_Facts | 20 | 258.38 |
| 01/02/24 00:00:00 | 01/02/24 18:30:16 | Thu | DW\_MANUAL\_STG | 3 | 0.81 |
| 01/02/24 00:00:00 | 01/02/24 19:40:15 | Thu | DW\_ECL\_FINANCIAL\_KPI | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 20:17:35 | Thu | DW\_BIA\_PNS\_MONTHLY | 2 | 142.71 |
| 01/02/24 00:00:00 | 01/02/24 21:37:34 | Thu |  | 1 | 0 |
| 01/02/24 00:00:00 | 01/02/24 22:46:48 | Thu | DW\_SALESFORCE\_REVENUE\_01 | 3 | 14.71 |

### DATAMART\_ECL\_CME process flow

This process flow contains the following sub process flows and sas jobs. It performs the loading of dimension and fact table under the schema of DATAMART\_ECL. Refer to SAS job detail document for the detail of sas job and its table references.

#### DATAMART\_ECL\_CME sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_CME\_Connection\_Test.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_DPT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_COU\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_PRD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_REQ\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_RUN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_CUS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_VDS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_F\_VDS\_MAP1.sas

#### DATAMART\_ECL\_CME\_01 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_ACM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CHR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CPT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_DPB\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_STE\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_ADR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_ACM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_STY\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_CPT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_P\_DPB\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_STE\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_ADR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_TCK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_P\_RTK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_R\_TCK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_ACR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_P\_ACR\_MAP1.sas

#### DATAMART\_ECL\_CME\_02 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_ACD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_BCH\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_BND\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CHT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CEM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_DPT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_DVR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_DVT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_DRD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_EQS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_IND\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_INV\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_JBC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_MPH\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PCH\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PDS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PGE\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PGR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PSS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_REG\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_REQ\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_RUN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SCN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_STD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_STY\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_UOM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_VEH\_MAP1.sas

### DATAMART\_ECL\_CME\_SCAN2 process flow

This process flow inserts data into DATAMECL.LOAD\_SCAN\_ tables.

#### DATAMART\_ECL\_CME\_SCAN2 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PSD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_P\_PSD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SDV\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SOB\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SHV\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SMI\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SMA\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SAC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SSG\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SDG\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SDM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SID\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SST\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SRP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SIN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SOF\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SDS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SAS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SAM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_SBU\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

### DATAMART\_ECL\_CMS\_TRANSACTIONS process flow

This process flow loads data into DATAMART\_ECL.LOAD\_ tables and further populate DATAMART\_ECL.DIM tables and DATAMART\_ECL.FACT\_CMS\_TRANSACTIONS and DATAMECL.FACT\_CMS\_SALES tables.

#### DATAMART\_ECL\_CMS\_TRANSACTIONS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CHN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_NAC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PCO\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PGS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_TTY\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CAC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PMN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_CSC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_CSY\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_CSP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_CSM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_CST\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_CST\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_CST\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_F\_CST\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_F\_CSS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

### DATAMART\_ECL\_PACE process flow

This process flow load PACE\_CUSTOMER data and further populate into DATAMART\_ECL.DIM\_PACE\_CUSTOMER table

#### DATAMART\_ECL\_PACE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_PCS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_D\_PCS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

### DATAMART\_ECL\_TM1\_SALES\_TRACED process flow

This process flow process data into various staging table and further processing data using DATAMART\_ECL.LOAD\_SALES\_TRACED\_PKG, FACT\_SALES\_TRACED\_PKG

#### DATAMART\_ECL\_TM1\_SALES\_TRACED sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_STR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_TSC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_ASC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_OSC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_DSC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_ISC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_RSC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_STR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_F\_STR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_F\_ECR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_P\_STR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

### DATAMART\_ECL\_TRACK\_AND\_TRACE process flow

This process flow loads data into various tables in DATAMECL schema and further process data using DATAMART\_ECL.FACT\_CME\_TRACE\_DETAIL\_PKG

#### DATAMART\_ECL\_TRACK\_AND\_TRACE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_DFR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_L\_EXB\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_TRT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_CED\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_CED\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_CET\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_R\_TCK\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_S\_CET\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DATAMART\_ECL\_F\_CED\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

### DW\_BIA\_DATA\_IMC\_INBOUND\_INTERCHANGE process flow

This process flow process data and refresh materialize views of BIA\_DATA.IPK\_SOURCE\_COUNTRY\_LEVEL; BIA\_DATA.IPK\_SOURCE\_MONTHLY\_LEVEL; BIA\_DATA.IMC\_INBOUND\_INTERCHANGE\_IPK; BIA\_DATA.IMC\_UPU\_INBOUND\_SUMMARY;

#### DW\_BIA\_DATA\_IMC\_INBOUND\_INTERCHANGE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/INTL013\_IMC\_INBOUND\_INTERCHANGE\_BASE.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_REFRESH\_IMC\_UPU\_INBOUND\_MVS.sas

### DW\_BIA\_PARENT\_SEGMENT process flow

This process flow populates tables in UDS\_WORK schema and further merge data into BIA\_DATA.PARENT\_SEGMENT table

#### DW\_BIA\_PARENT\_SEGMENT sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_ORGANISATION\_SEGMENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_PARENT\_SEGMENT\_01.sas

### DW\_BIA\_PNS\_DAILY process flow

This process flow populates tables in UDS\_WORK schema and further merge data into BIA\_DATA.PARENT\_MASTER\_MERCHANT table

#### DW\_BIA\_PNS\_DAILY sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_PN\_MASTER\_MERCHANT\_01.sas

### DW\_BIA\_PNS\_MONTHLY process flow

This process flow populates tables in UDS\_WORK schema and further merge data into BIA\_DATA. FACT\_MANIFEST\_NOTIFY\_QUALITY, BIA\_DATA.DIM\_PNS\_PARCEL and BIA\_DATA.FACT\_PNS\_EVENTS tables

#### DW\_BIA\_PNS\_MONTHLY sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_FACT\_MANIFEST\_NOTIFY\_QUALITY\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_DIM\_PNS\_PACE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_DIM\_PNS\_PARCEL\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/BIA\_DATA\_FACT\_PNS\_EVENTS\_01.sas

### DW\_CME\_PERSIST\_DIM\_REGION process flow

This process flow populate UDS.UDS\_DIM\_REGION and PERSIST.DIM\_REGION tables.

#### DW\_CME\_PERSIST\_DIM\_REGION sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_REGION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_REGION\_01.sas

### DW\_CME\_PERSIST\_FCT\_DISTANCE\_FACTOR\_MATRIX process flow

This process flow populates UDS.UDS\_FCT\_DISTANCE\_FACTOR\_MATRIX, PERSIST.FCT\_DISTANCE\_FACTOR\_MATRIX and DBO.EDW\_DISTANCEFACTORMATRIX tables

#### DW\_CME\_PERSIST\_FCT\_DISTANCE\_FACTOR\_MATRIX sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_FCT\_DISTANCE\_FACTOR\_MATRIX\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_DISTANCE\_FACTOR\_MATRIX\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/CME\_REPORTING\_UDS\_DISTANCEFACTORMATRIX\_01.sas

### DW\_CME\_PERSIST\_NETWORK\_DIMENSION process flow

This process flow process data into a number of DIM tables in PERSIST schema. Refer to SAS JOB DETAILS file for detail of the tables.

#### DW\_CME\_PERSIST\_DIM\_BRANCH sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_BRANCH\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_BRANCH\_01.sas

#### DW\_CME\_PERSIST\_DIM\_DEPOT sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_DEPOT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_DEPOT\_01.sas

#### DW\_CME\_PERSIST\_DIM\_DRIVER sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_DRIVER\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_DRIVER\_01.sas

#### DW\_CME\_PERSIST\_DIM\_DRIVER\_TYPE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_DRIVER\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_DRIVER\_TYPE\_01.sas

#### DW\_CME\_PERSIST\_DIM\_FLEET sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_FLEET\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_FLEET\_01.sas

#### DW\_CME\_PERSIST\_DIM\_LOCATION\_TYPE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_LOCATION\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_LOCATION\_TYPE\_01.sas

#### DW\_CME\_PERSIST\_DIM\_RATEABLE\_LOCATION sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_RATEABLE\_LOCATION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RATEABLE\_LOCATION\_01.sas

#### DW\_CME\_PERSIST\_DIM\_REGION sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_REGION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_REGION\_01.sas

#### DW\_CME\_PERSIST\_DIM\_RUN sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_RUN\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RUN\_01.sas

#### DW\_CME\_PERSIST\_DIM\_RUN\_TYPE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_RUN\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RUN\_TYPE\_01.sas

#### DW\_CME\_PERSIST\_NETWORK\_DIMENSION sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_EVENT\_REASON\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_EVENT\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_DRIVER\_TYPE\_01.sas

### DW\_CME\_PERSIST\_PARCEL\_MODEL\_ADDRESS process flow

This process flow uses data in UDS\_WORK.WRK\_MAP\_ADDRESS\_ tables and merge into UDS.UDS\_MAP\_ADDRESS

#### DW\_CME\_PERSIST\_PARCEL\_MODEL\_ADDRESS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAP\_ADDRESS\_01.sas

### DW\_DAILY\_CHANNELS process flow

This process flow uses data in various table under LOAD\_ schemas and further process into UDS.ChANNEL\_ALL\_SRC, UDS.PRODUCTS\_ALL\_SRC

#### DW\_LOAD\_CMS\_CHANNELS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD004\_CMS\_PR\_WAREHOUSE\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD005\_CMS\_OTHER\_TRADING\_PARTNERS\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD006\_CMS\_CO\_TRANS\_CODES\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD017\_CMS\_PR\_PRODUCT\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD018\_CMS\_PR\_PROD\_GROUP\_01\_LOAD.sas

#### DW\_LOAD\_CPD\_CHANNELS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD011\_CPD\_A\_PRODUCT\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD012\_CPD\_A\_PRODUCT\_PARENT\_GROUP\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD013\_CPD\_OPERATIONAL\_FAMILY\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD014\_CPD\_OPERATIONAL\_FAMILTY\_GRP\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD015\_CPD\_OPERATIONAL\_FAMILTY\_TYPE\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD016\_CPD\_A\_CHARGE\_ON\_PRINCIPAL\_01\_LOAD.sas

#### DW\_LOAD\_MAIL\_CLEARANCE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD001\_MAIL\_CLEARANCE\_SR\_DATA\_01\_LOAD.sas

#### DW\_LOAD\_OMS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD002\_OMS\_ACCOUNT\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD003\_OMS\_OUTLET\_OWNERSHIP\_01\_LOAD.sas

#### DW\_LOAD\_POSTLINK\_CHANNELS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD008\_POSTLINKHOST\_P2A\_PBU\_01\_LOAD.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/LOAD022\_POSTLINKHOST\_P2A\_CUSTOMER\_DETAIL\_01\_LOAD.sas

#### DW\_STAG001\_OMS\_CHANNEL sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG001\_STAG\_CHANNEL\_01\_EXT.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG001\_STAG\_CHANNEL\_02\_TRN1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG001\_STAG\_CHANNEL\_03\_TRN2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG001\_STAG\_CHANNEL\_04\_TRN3.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG001\_STAG\_CHANNEL\_05\_LOAD.sas

#### DW\_STAG003\_CMS\_CHANNELS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG003\_CMS\_CHANNELS\_01\_EXT.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG003\_CMS\_CHANNELS\_02\_TRN.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG003\_CMS\_CHANNELS\_03\_MRG.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG003\_CMS\_CHANNELS\_04\_LOAD.sas

#### DW\_STAG004\_CPD\_PRODUCT sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG004\_CPD\_PRODUCT\_01\_EXT.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG004\_CPD\_PRODUCT\_02\_TRN.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG004\_CPD\_PRODUCT\_03\_MRG.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG004\_CPD\_PRODUCT\_04\_LOAD.sas

#### DW\_STAG008\_POSTLINK\_CHANNELS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG008\_POSTLINK\_CHANNELS\_01\_EXT.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG008\_POSTLINK\_CHANNELS\_02\_TRN.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG008\_POSTLINK\_CHANNELS\_03\_MRG.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG008\_POSTLINK\_CHANNELS\_04\_LOAD.sas

#### DW\_STAG\_MAIL\_CLEARANCE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/STAG002\_STAG\_RECEIVER\_01\_LOAD.sas

#### DW\_UDS001\_PRODUCTS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS001\_PRODUCTS\_01\_EXT.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS001\_PRODUCTS\_02\_TRN.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS001\_PRODUCTS\_03\_LOAD.sas

#### DW\_UDS\_CHANNELS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CMS\_CHANNELS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_OMS\_CHANNELS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_POSTLINKHOST\_CHANNELS\_01.sas

### DW\_DIM process flow

This process flow calls GEN.GEN\_SAS\_DIM and GEN\_SAS\_DIM2 with various of parameter updating the dim tables in PERSIST schema.

#### DW\_DIM sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_CUSTOMER\_ACCOUNT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_CHANNEL\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ADDRESS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_CHANNEL\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ADDRESS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_CUSTOMER\_ACCOUNT\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_PRODUCT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_PRODUCT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

### DW\_ECL\_FINANCIAL\_KPI process flow

#### DW\_ECL\_FINANCIAL\_KPI sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_FCTFINANCIALKPI\_to\_SQLSERVER.sas

### DW\_ECL\_INCREMENTAL\_DW\_LOAD process flow

This process flow process data into DW\_ECL.DIM table and FCT tables. Refer to SAS JOB DETAIL for detail table list.

#### DW\_ECL\_INCREMENTAL\_DW\_LOAD sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_RVA\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_PCE\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_OPK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_ECL\_SMALL\_ENTERPRISE\_CUBE.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_END\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_START\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_CUR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_LOC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_PFO\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_STY\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_TEX\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_TLC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_TRC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_TSR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_CTR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_LOC\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_PRD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_TPT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_SCG\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_BCL\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_INV\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_INV\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_CTR\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_D\_TCK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_TRN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_FIK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_F\_SCB\_MAP1.sas

### DW\_ECL\_NATIONAL\_RATES\_1 process flow

This process flow process data into DW\_ECL.DIM table and FCT tables. Refer to SAS JOB DETAIL for detail table list.

#### DW\_ECL\_NATIONAL\_RATES\_1 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_F\_CONTROL.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_LTT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_NationalRate\_RefreshCube\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_AUP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_DFA\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_UOM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_CRP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_FACTCUSTOMERPRODUCTRATE\_to\_SQL\_Server.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_CUS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_RUP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_CPR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_LCR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_JRSP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_TRP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_TRSP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_PRD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_OWR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_ECL\_R\_D\_EFR\_MAP1.sas

### DW\_ECL\_PROCESS\_COURIER\_PARCEL\_CUBE process flow

#### DW\_ECL\_PROCESS\_COURIER\_PARCEL\_CUBE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_ECL\_COURIER\_PARCEL\_CUBE.sas

### DW\_FINANCE process flow

This process flow load various tables in LOAD\_AGRESSO schema and use packages to populate the DIM and Fact tables. Refer to SAS JOB DETAIL for detail table list.

#### DW\_AGRESSO\_LOAD sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_ACC\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_CLI\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_CLT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_DIM\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_PRO\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TAS\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_DMV\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TIT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRA\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRS\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRV\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TSU\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_USR\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_VAL\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_WOR\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_ACC\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_CLI\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_CLT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_DIM\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_PRO\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_DMV\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TAS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TIT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRN\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TSU\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRV\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_USR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_VAL\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_WOR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_AGR\_TRA\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

#### DW\_AGRESSO\_PERSIST sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_CUR\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_LGL\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_PRJ\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_RES\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_RSP\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_SPD\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_WRK\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_F\_GLT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_F\_GLP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_CUR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_LGL\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_PRJ\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_RES\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_RSP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_SPD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_D\_WRK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_F\_GLT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_AGR\_F\_GLP\_MAP1.sas

#### DW\_AGRESSO\_STAG sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_CLI\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_CUR\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_GLP\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_GLT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_LGL\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_PRJ\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_RES\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_RSP\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_SPD\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_WRK\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_GLP\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_CLI\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_GLT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_LGL\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_CUR\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_PRJ\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_RES\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_GLP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_SPD\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_RSP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_WRK\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_GLP\_MAP2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_AGR\_ACT\_MAP1.sas

#### DW\_FINANCE sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_ALE\_EMP\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_ALE\_WUS\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CME\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MANUAL\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_AGRESSO\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_ALE\_EMP\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MANUAL\_PRODUCTS\_02.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_ALE\_WUS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_ALE\_EMP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_LOAD\_ALE\_WUS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MANUAL\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CME\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_ALE\_EMP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MANUAL\_PRODUCTS\_03.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_AGRESSO\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_FINANCE\_HWM.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_ALE\_WUS\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MANUAL\_PRODUCTS\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_FINANCE\_HWM.sas

#### DW\_MANUAL\_PERSIST sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_MAN\_D\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_MAN\_D\_RSP\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_MAN\_D\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_MAN\_D\_RSP\_MAP1.sas

#### DW\_MANUAL\_STAG sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_MAN\_RSP\_MAP1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_MAN\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_MAN\_ACT\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STAG\_MAN\_RSP\_MAP1.sas

### DW\_INBOUND\_COMMERCIAL process flow

This process flow uses various UDS\_WORK tables and populates to NRDS.COMMERCIAL\_ITEM\_INTRNL\_INBOUND

#### DW\_INBOUND\_COMMERCIAL sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_INBOUND\_COMMERCIAL\_ITEMS\_01\_Outer.sas

### DW\_INTERNATIONAL\_00 process flow

This process flow calls GEN.GEN\_EXTERNAL\_JOB.START\_EXTERNAL\_JOB (PI\_JOB\_NAME => 'CARGOWISE\_FILE\_PROCESS')

#### DW\_INTERNATIONAL\_00 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/INTL\_CARGOWISE\_FILES.sas

### DW\_INTERNATIONAL\_03 process flow

This process flow merge data into BIA\_DATA.COMMERCIAL\_ITEMS\_SUMMARY

#### DW\_INTERNATIONAL\_03 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/INTL\_COMMERCIAL\_ITEMS\_01\_LOAD.sas

### DW\_IPS\_Main\_DIMs\_and\_Facts process flow

This process flow populates various UDS\_WORK tables and merge data into PERSIST DIM and Fact tables. Refer to SAS JOB DETAIL for detail table list.

#### DW\_IPS\_Main\_DIMs\_and\_Facts sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_MAIL\_ITEM\_EVENT\_GROUPS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_EVENT\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/OPEN\_CDC\_WINDOW\_BY\_FLOWNAME.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_DESPATCH\_DRIVER.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CONSIGNMENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DESPATCH\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_CONSIGNMENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_DESPATCH\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_RECEPTACLE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RECEPTACLE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_MAIL\_ITEM\_DRV\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_RECPTCLS\_EVENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_RECEPTACLE\_EVENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_RECEPTACLE\_JOURNEY\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RECEPTACLE\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_MAIL\_ITEM\_INT\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_INTERNATIONAL\_ITEM\_JOURNEY\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_CUSTOMER\_TO\_RECEPTACLE\_LINK\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_INTERNATIONAL\_ITEM\_EVENT\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/CLOSE\_CDC\_WINDOW\_BY\_FLOWNAME.sas

### DW\_IPS\_PERSIST\_DIM process flow

This process flow update various PERSIST Dim tables. Refer to SAS JOB DETAIL for detail table list.

#### DW\_IPS\_PERSIST\_DIM sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_SERVICE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_OFFICE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ITEM\_CONDITION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ITEM\_STATE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_MAIL\_CLASS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_NON\_DELIVERY\_MEASURES\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_POSTAL\_STATUS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INVESTIGATION\_STATUS\_01.sas

### DW\_IPS\_Reference\_dimensions process flow

This process flow update various PERSIST Dim tables. Refer to SAS JOB DETAIL for detail table list.

#### DW\_IPS\_Reference\_dimensions sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DELIVERY\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_SERVICE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_EVENT\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_LOCATION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_OFFICE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_OFFICE\_02.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_OFFICE\_03.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_MAIL\_ITEM\_EVENT\_GROUPS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ITEM\_CONDITION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ITEM\_STATE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAIL\_CLASS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAIL\_ITEM\_CATEGORY\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAIL\_SUBCLASS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_NON\_DELIVERY\_MEASURE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_POSTAL\_STATUS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_RECEPTACLE\_SLA\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_RETENTION\_REASON\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_SERVICE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_EVENT\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_LOCATION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_OFFICE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ITEM\_CONDITION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ITEM\_STATE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_MAIL\_CLASS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_NON\_DELIVERY\_MEASURES\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_POSTAL\_STATUS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RECEPTACLE\_SLA\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DELIVERY\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DIM\_SERVICE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_OFFICE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_OFFICE\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_OFFICE\_03.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_INTERNATIONAL\_LOCATION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_IPS\_MAIL\_ITEM\_EVENT\_GROUPS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ITEM\_CONDITION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ITEM\_STATE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAIL\_CLASS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAIL\_ITEM\_CATEGORY\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_RECEPTACLE\_SLA\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_MAIL\_SUBCLASS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_NON\_DELIVERY\_MEASURE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_SERVICE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_OFFICE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_POSTAL\_STATUS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ITEM\_CONDITION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_RETENTION\_REASON\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_ITEM\_STATE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_MAIL\_CLASS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_LOCATION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_RECEPTACLE\_SLA\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_NON\_DELIVERY\_MEASURES\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_POSTAL\_STATUS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_EVENT\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_INTERNATIONAL\_EVENT\_TYPE\_01.sas

### DW\_MANUAL\_STG process flow

#### DW\_MANUAL\_STG sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_STG\_MAN\_KIO\_MAP1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

### DW\_NAVIGATOR process flow

This process flow populates various tables in STGNAVIG schema and use GEN.GEN\_SAS\_ODS.GENERATE\_ALL\_DML2 function to further process the data.

#### DW\_NAVIGATOR sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_AIRPORT\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_AP\_SETUP\_BRANCH\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_BRANCH\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_BK\_REF\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_CONTRACTJOBS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_CHANNEL\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_JOB\_CATEGORY\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_REASONS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_SLA\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_SUBURB\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_SZONE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_VEHICLE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_ZONE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_ZONE\_DISTANCE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DRIVER\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_DRIV\_EXCEPTION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DRDTRMSR\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_RUN\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_UOM\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_VEHICLE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_LEG\_COMMENT\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_ADDRESS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_AIRPORT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_AP\_SETUP\_BRANCH\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_BK\_REF\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_BRANCH\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_CONNOTE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_ADDRESS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_CONTRACTJOBS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_CHANNEL\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_JOB\_CATEGORY\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_REASONS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_SLA\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_SUBURB\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_SZONE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_VEHICLE\_TYPE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_ZONE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DFN\_ZONE\_DISTANCE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DRIVER\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_DRIV\_EXCEPTION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_LEG\_COMMENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_CONNOTE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_PRODUCTS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_DRDTRMSR\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_RUN\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_UOM\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_VEHICLE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_CONNOTE\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_ITEM\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_CONNOTE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_ITEM\_01.sas

### DW\_NAVIGATOR\_INC\_01 process flow

This process flow populates various tables in STGNAVIG schema and use merge statement to further process data into tables in ODS\_NAVIGATOR schema

#### DW\_NAVIGATOR\_INC\_01 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_FEE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_INVHEAD\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_DRIV\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_AR\_EXPORT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_INVDETAIL\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_NOTE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_SIGNATURE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_TIMES\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_ACTION\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_PAYMENT\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_JOB\_LEG\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_NAVIGATOR\_EXPORT\_RATES\_01.sas

### DW\_NRDS\_MOS\_QUERIES process flow

This process flow inserts data into NRDS.SAFETY\_OB\_RC

#### DW\_NRDS\_MOS\_QUERIES sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_ORCA\_REPORING\_PRT1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/ODS\_CME\_VIDEOCODING\_AUDITLOG.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_ORCA\_REPORING\_PRT2.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_VAULT\_SAFETY\_OBSERVATION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_VAULT\_REPORTING\_PRT2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_ORCA\_REPORING\_PRT1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ODS\_CME\_VIDEOCODING\_AUDITLOG.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_ORCA\_REPORING\_PRT2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_VAULT\_REPORTING\_PRT2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_VAULT\_SAFETY\_OBSERVATION\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_CME\_REPORTING\_PRT1.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_CME\_REPORTING\_PRT2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_CME\_REPORTING\_PRT1.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_CME\_REPORTING\_PRT2.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/START\_FLOW.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/END\_FLOW.sas

### DW\_NRDS\_REDIRECTION\_RPT process flow

This process flow merge data into NRDS.REDIRECTION\_FRAUD\_RPT

#### DW\_NRDS\_REDIRECTION\_RPT sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/NRDS\_REDIRECTION\_FRAUD\_RPT\_01.sas

### DW\_OTM\_GRANTS process flow

#### DW\_OTM\_GRANTS sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/DW\_OTM\_GRANTS.sas

### DW\_PERF\_CUSTOMER\_SPEND process flow

This process flow executes PERSIST.UPDATE\_FCT\_PARCEL\_SPEND\_PRC package.

#### DW\_PERF\_CUSTOMER\_SPEND sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_PERS\_FCS\_F\_MAP1.sas

### DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE process flow

This process flow executes various of PERSIST.UPDATE\_FCT\_PARCEL\_PERF\_PKG procedures. Refer to SAS JOB DETAIL for detail table list.

#### DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_03.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_04.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_06.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FPP\_PROCESS\_REUSED\_TICKETS\_06.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_05.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_07.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_08.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_09.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_10.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_12.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_VOLUME\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PROCESSED\_VOLUME\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_COURIER\_PARCEL\_VOLUME\_INC\_LOAD\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_11.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/CME\_REPORTING\_EDW\_FPP\_30DAYS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_13.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FPP\_KPI\_SQL\_SERVER\_SLEEP\_13a.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/CME\_REPORTING\_ECLCUBE\_SEND\_DIFOTIS\_REPORT\_01.sas

### DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE\_SUNDAY process flow

This process flow executes various of PERSIST.UPDATE\_FCT\_PARCEL\_PERF\_PKG procedures. Refer to SAS JOB DETAIL for detail table list.

#### DW\_PERSIST\_FCT\_PARCEL\_PERFORMANCE\_SUNDAY sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PROCESSED\_VOLUME\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_COURIER\_PARCEL\_VOLUME\_INC\_LOAD\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_11.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/CME\_REPORTING\_EDW\_FPP\_30DAYS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_PERFORMANCE\_13.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FPP\_KPI\_SQL\_SERVER\_SLEEP\_13a.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_PARCEL\_JOURNEY\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/CME\_REPORTING\_EDW\_FPP\_DAILY\_DIFOTIS\_01.sas

### DW\_PERSIST\_PRE\_FPP process flow

This process flow runs GEN.GEN\_SAS\_UDS.UPDATE\_ALL\_SRC and GEN.GEN\_UDS\_2\_DIM\_SCD1.UPDATE\_DIM1. Refer to SAS JOB DETAIL for detail table list.

#### DW\_PERSIST\_PRE\_FPP sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_CME\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_DIM\_CUSTOMER\_ACCOUNT\_01.sas

### DW\_SALESFORCE\_REVENUE\_01 process flow

#### DW\_SALESFORCE\_REVENUE\_01 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PERSIST\_FCT\_SALES\_BILLED\_REVENUE\_INC\_LOAD\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/REFRESH\_-\_Salesforce\_Spend\_Volume\_MV.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/PRESENTATION\_SALESFORCE\_SPEND\_VOLUME\_01.sas

### DW\_UDS\_03 process flow

This table merges various UDS\_WORK tables into UDS.ADDRESS\_ALL\_SRC table

#### DW\_UDS\_03 sub process flow

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ADDRESS\_02.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ADDRESS\_03.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ADDRESS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ADDRESS\_02.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ADDRESS\_03.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_ADDRESS\_01.sas

### DW\_UDS\_04 process flow

This process flow inserts into various UDS\_WORK tables and use GEN.GEN\_SAS\_UDS.UPDATE\_ALL\_SRC to further process. Refer to SAS JOB DETAIL for detail table list.

#### DW\_UDS\_04 sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_CME\_02.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_CME\_02.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_RIGHTNOW\_03.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DEBT\_CONTROLLER\_CMS\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DEBT\_PORTFOLIO\_CME\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_SALES\_PORTFOLIO\_CMS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_UBW\_04.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DEBT\_PORTFOLIO\_CME\_01.sas

/opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_CMS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_RIGHTNOW\_03.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_SALES\_PORTFOLIO\_CMS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_DEBT\_CONTROLLER\_CMS\_01.sas

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/UDS\_CUSTOMER\_ACCOUNT\_CMS\_01.sas

### NRDS\_BXLR\_BOX\_BAG\_SNAPSHOT process flow

This process flow insert data into NRDS.BXLR\_BOX\_BAG\_EOM\_DS

#### NRDS\_BXLR\_BOX\_BAG\_SNAPSHOT sub process flow

/opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/EDW\_NRDS\_BXLR\_Box\_and\_Bag\_Snapshot\_v2.sas

## SAS Jobs Logging

The SAS DI Studio is used to develop SAS jobs for EDW data process. SAS DI Studio is a GUI tool to create SAS jobs. It produces the executable SAS codes into the Linux server wdclxsasdmcp01.nzpost.co.nz and under the location of /opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs/ and /opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs/.

The log files for these SAS code executions are located under /saslogs/lev1 and /saslogs/lev3. The log files has a two-week retention period and are purged after two weeks.

The log file for IBM Process Flow execution is in the file of /opt/sas/thirdparty/platform/lsf/work/nzpost\_DM\_cluster/logdir/lsb.acct

## Summary

### Redundant jobs

Overall, below table illustrates the total number of SAS source code files and the currently running SAS code files, it indicates the number of SAS source code files may no longer be used.

|  |  |  |
| --- | --- | --- |
| Location | Total Number of Source file (\*.sas) | Total Number of executed file between 23-Jan-2024 and 8-Feb-2024 (\*.sas) |
| /opt/sas/config\_dmc/Lev1/SASApp/SASEnvironment/SASCode/Jobs | 831 | 427 |
| /opt/sas/config\_dmc/Lev3/SASApp/SASEnvironment/SASCode/Jobs | 734 | 124 |

### Long running jobs

#### UDS\_MAP\_ADDRESS\_01.sas

This job consists with 3 long running SQL statements. These statements are processed in Oracle Database. The SQL statements processed appears to be standard SQL select statement with no obvious complexity.

437

438 proc sql;

439 connect to ORACLE

440 (

441 PATH="EDWPRD.WORLD" AUTHDOMAIN="EDW\_UDS\_WORK\_Auth"

442 );

443 execute

444 (

445 insert into UDS\_WORK.WRK\_MAP\_ADDRESS\_01

446 /\* Returns unique rows from the first query result that are not in the \*/

447 /\* second. \*/

448 select distinct

449 WRK\_MAP\_ADDRESS\_04.ADDRESS\_KEY,

450 WRK\_MAP\_ADDRESS\_04.GPS\_LONGITUDE,

451 WRK\_MAP\_ADDRESS\_04.GPS\_LATITUDE,

452 WRK\_MAP\_ADDRESS\_04.SEQ

453 from

454 UDS\_WORK.WRK\_MAP\_ADDRESS\_04 WRK\_MAP\_ADDRESS\_04

455 where

456 not WRK\_MAP\_ADDRESS\_04.GPS\_LONGITUDE = 0

457 and not WRK\_MAP\_ADDRESS\_04.GPS\_LATITUDE = 0

458 minus

459 select distinct

460 null as ADDRESS\_KEY,

461 UDS\_MAP\_ADDRESS.GPS\_LONGITUDE,

462 UDS\_MAP\_ADDRESS.GPS\_LATITUDE,

463 UDS\_MAP\_ADDRESS.SCAN\_SEQ as SEQ

464 from

465 UDS.UDS\_MAP\_ADDRESS UDS\_MAP\_ADDRESS

466

467 ) by ORACLE;

468

12 The SAS System 05:00 Wednesday, February 28, 2024

469 %rcSet(&sqlrc);

470

471 disconnect from ORACLE;

472 quit;

NOTE: PROCEDURE| \_DISARM| STOP| \_DISARM| 2024-02-28T09:11:20,429+13:00| \_DISARM| BatchServer| \_DISARM| SAS| \_DISARM| | \_DISARM| 16158720| \_DISARM| 12746752| \_DISARM| 10| \_DISARM| 11| \_DISARM| 0| \_DISARM| 384| \_DISARM| 0.060000| \_DISARM| 13415.819372| \_DISARM| 2024670464.609742| \_DISARM| 2024683880.429114| \_DISARM| 0.020000| \_DISARM| | \_ENDDISARM

NOTE: PROCEDURE SQL used (Total process time):

real time 3:43:35.81

cpu time 0.06 seconds

748 proc sql;

749 connect to ORACLE

750 (

751 &\_INPUT1\_connect

752 );

753 execute

754 (

755 insert into Uds\_Work.WRK\_MAP\_ADDRESS\_002

756 select /\*+ INDEX(r ADDR\_CURRENT\_SNAPSHOT\_SIDX) \*/ t.GPS\_LONGITUDE,t.GPS\_LATITUDE, r.dp\_id,t.SEQ

757 from ods\_nmvas.addr\_current\_snapshot R , Uds\_Work.WRK\_MAP\_ADDRESS\_01 t

758 where

759 SDO\_NN( R.GEOLOC, SDO\_CS.TRANSFORM

760 (

761 MDSYS.SDO\_GEOMETRY

762 (

763 2001 ,4326 /\* WGS 84 \*/,MDSYS.SDO\_POINT\_TYPE

764 ( t.GPS\_LONGITUDE ,t.GPS\_LATITUDE ,NULL ) ,NULL ,NULL

765 )

766 ,335872 /\* New Zealand Map Grid \*/

767 )

768 , 'sdo\_num\_res=1 distance=100 unit=meter'

769 ) = 'TRUE'

770 ) by ORACLE ;

771 disconnect from ORACLE;

772 quit;

NOTE: PROCEDURE| \_DISARM| STOP| \_DISARM| 2024-02-28T12:57:54,822+13:00| \_DISARM| BatchServer| \_DISARM| SAS| \_DISARM| | \_DISARM| 17993728| \_DISARM| 12746752| \_DISARM| 10| \_DISARM| 11| \_DISARM| 0| \_DISARM| 432| \_DISARM| 0.060000| \_DISARM| 13591.316869| \_DISARM| 2024683883.505815| \_DISARM| 2024697474.822684| \_DISARM| 0.010000| \_DISARM| | \_ENDDISARM

NOTE: PROCEDURE SQL used (Total process time):

real time 3:46:31.31

cpu time 0.06 seconds

782 proc sql;

783 connect to ORACLE

784 (

18 The SAS System 05:00 Wednesday, February 28, 2024

785 &\_INPUT1\_connect

786 );

787 execute

788 (

789 insert into Uds\_Work.WRK\_MAP\_ADDRESS\_003

790 select /\*+ INDEX(r ADDR\_CURRENT\_SNAPSHOT\_SIDX) \*/ t.GPS\_LONGITUDE,t.GPS\_LATITUDE, r.dp\_id,t.SEQ

791 from ods\_nmvas.addr\_current\_snapshot R , Uds\_Work.WRK\_MAP\_ADDRESS\_01 t

792 where

793 SDO\_NN( R.GEOLOC, SDO\_CS.TRANSFORM

794 (

795 MDSYS.SDO\_GEOMETRY

796 (

797 2001 ,4326 /\* WGS 84 \*/,MDSYS.SDO\_POINT\_TYPE

798 ( t.GPS\_LONGITUDE ,t.GPS\_LATITUDE ,NULL ) ,NULL ,NULL

799 )

800 ,335872 /\* New Zealand Map Grid \*/

801 )

802 , 'sdo\_num\_res=1 distance=1000 unit=meter'

803 ) = 'TRUE'

804 ) by ORACLE ;

805 disconnect from ORACLE;

806 quit;

NOTE: PROCEDURE| \_DISARM| STOP| \_DISARM| 2024-02-28T17:17:16,913+13:00| \_DISARM| BatchServer| \_DISARM| SAS| \_DISARM| | \_DISARM| 17993728| \_DISARM| 12746752| \_DISARM| 10| \_DISARM| 11| \_DISARM| 0| \_DISARM| 440| \_DISARM| 0.070000| \_DISARM| 15560.620771| \_DISARM| 2024697476.292427| \_DISARM| 2024713036.913198| \_DISARM| 0.010000| \_DISARM| | \_ENDDISARM

NOTE: PROCEDURE SQL used (Total process time):

real time 4:19:20.62

cpu time 0.07 seconds

#### PERSIST\_FCT\_PARCEL\_PERFORMANCE\_13.sas

This job executes an Oracle stored procedure and took 10 hours to complete. The SQL statements in this stored procedure are INSERT/SELECT and MERGE statements. It uses Oracle Hint in the SQL statement, which can be an evidence of hitting performance issue in Oracle database. With the modern data warehouse platform like Snowflake, this type of performance issue should be resolved.

1187

1188 proc sql;

1189 connect to &\_OUTPUT1\_engine (&\_OUTPUT1\_connect);

1190 execute (execute PERSIST.UPDATE\_FCT\_PARCEL\_PERF\_PKG.update\_difotis\_batch\_prc) by &\_OUTPUT1\_engine;

1191 disconnect from &\_OUTPUT1\_engine;

1192 quit;

NOTE: PROCEDURE| \_DISARM| STOP| \_DISARM| 2024-02-28T07:34:26,274+13:00| \_DISARM| BatchServer| \_DISARM| SAS| \_DISARM| | \_DISARM| 15372288| \_DISARM| 11173888| \_DISARM| 10| \_DISARM| 10| \_DISARM| 0| \_DISARM| 456| \_DISARM| 0.150000| \_DISARM| 36288.280022| \_DISARM| 2024641777.994360| \_DISARM| 2024678066.274382| \_DISARM| 0.030000| \_DISARM| | \_ENDDISARM

NOTE: PROCEDURE SQL used (Total process time):

real time 10:04:48.28

cpu time 0.15 seconds

23 The SAS System 21:29 Tuesday, February 27, 2024

PROCEDURE update\_difotis\_batch\_prc

IS

BEGIN

LOG ('Starting update\_difotis\_batch\_prc');

---============================================================================= start moved up code 27-Jun=2023

-- a few LOG statment has been added after the INSERT statements (wgere it was missing)

---=============================================================================

-- from: 4510 -4545

--remove previous temp delta data

stag\_cme.trunc\_WRK\_FCT\_PP\_DELTA\_DT\_prc;

-- add parcel customer updated to merge with FPP Release 4.1

-- this occurs as cme adds a customer after the ticket was created in EDW

INSERT /\*+ APPEND \*/

INTO stag\_cme.WRK\_FCT\_PP\_DELTA\_DT (parcel\_ticket\_number,

ACCEPTANCE\_DATE\_TIME,

DTRCDE)

SELECT /\*+ USE\_HASH( fpp t) NO\_INDEX( T PK\_CME\_TICKETS\_NEW\_JB) NO\_INDEX(FPP FCT\_PARCEL\_PERF\_IDX2) \*/

DISTINCT fpp.parcel\_ticket\_number, fpp.ACCEPTANCE\_DATE\_TIME, t.DTRCDE

FROM persist.FCT\_PARCEL\_PERFORMANCE fpp

INNER JOIN DIFOTIS\_TICKETS T ON (fpp.parcel\_ticket\_number = t.ticket\_nbr)

WHERE ACCOUNT\_NUMBER is null and t.DTRCDE is not null;

LOG ('Added updated cme customers to stg: '||SQL%ROWCOUNT); --JB:MAY2021 05 min, skip

COMMIT;

-- merge the new customer back into the fct table

MERGE /\*+ \*/

INTO FCT\_PARCEL\_PERFORMANCE TGT\_TBL

USING ( SELECT /\*+ USE\_HASH( scan t ad at prdpr r ar cus sla dss ) NO\_INDEX(P PK\_CME\_PRESENTD) NO\_INDEX( scan PRESENTDTICKETPARTDATEENTERED) NO\_INDEX(PR) NO\_INDEX(DPR) \*/

scan.parcel\_ticket\_number AS parcel\_ticket\_number,

scan.ACCEPTANCE\_DATE\_TIME,

scan.DTRCDE AS ACCOUNT\_NUMBER,

MIN (NVL (cus.customer\_key, -1)) AS customer\_key

FROM stag\_cme.WRK\_FCT\_PP\_DELTA\_DT scan

LEFT JOIN persist.dim\_customer cus ON (cus.account\_number = scan.DTRCDE and cus.dw\_is\_current = 'Y' )

group by scan.parcel\_ticket\_number,

scan.ACCEPTANCE\_DATE\_TIME,

scan.DTRCDE) SRC\_TBL

ON ( TGT\_TBL.parcel\_ticket\_number = SRC\_TBL.parcel\_ticket\_number AND TGT\_TBL.ACCEPTANCE\_DATE\_TIME = SRC\_TBL.ACCEPTANCE\_DATE\_TIME)

WHEN MATCHED

THEN

UPDATE SET TGT\_TBL.ACCOUNT\_NUMBER = SRC\_TBL.ACCOUNT\_NUMBER,

TGT\_TBL.customer\_key = SRC\_TBL.customer\_key,

TGT\_TBL.DW\_MODIFIED\_DATE = SYSDATE;

LOG ('Added updated cme customers to fct: '||SQL%ROWCOUNT); --JB:MAY2021 00 min, skip

COMMIT;

#### NRDS\_INBOUND\_COMMERCIAL\_ITEMS\_01\_Outer.sas ( code complexity aligns with what we see in Oracle side )

This job consists with one long running SQL statement. This statement is processed in Oracle Database. The SQL statement processed appears to be standard INSERT/SELECT statement with no obvious complexity.

1474 proc sql;

1475 connect to ORACLE

1476 (

1477 PATH="EDWPRD.WORLD" AUTHDOMAIN="EDW\_UDS\_WORK\_Auth"

1478 );

1479 execute

1480 (

1481 insert into UDS\_WORK.COMMERCIAL\_ITEM\_INTRNL\_INB\_4U

1482 select

1483 INBOUND\_PARCEL\_SHIPMENT\_DATA.ACTUAL\_WEIGHT\_\_C as ACTUAL\_WEIGHT,

1484 INBOUND\_PARCEL\_SHIPMENT\_DATA.CONSIDERED\_WEIGHT\_\_C as CONSIDERED\_WEIGHT,

1485 INBOUND\_PARCEL\_SHIPMENT\_DATA.DECLARED\_WEIGHT\_\_C as DECLARED\_WEIGHT,

1486 INBOUND\_PARCEL\_SHIPMENT\_DATA.CONSIGNEE\_POSTCODE\_\_C as RECEIVER\_POSTCODE,

1487 INBOUND\_PARCEL\_SHIPMENT\_DATA.CURRENCY\_\_C as CURRENCY,

1488 INBOUND\_PARCEL\_SHIPMENT\_DATA.CUSTOM\_STATUS\_\_C as CUSTOM\_STATUS,

1489 INBOUND\_PARCEL\_SHIPMENT\_DATA.CUSTOMS\_VALUE\_\_C as CUSTOMS\_VALUE,

1490 INBOUND\_PARCEL\_SHIPMENT\_DATA.DESCRIPTION\_OF\_GOODS\_\_C as DESCRIPTION\_OF\_GOODS,

1491 INBOUND\_PARCEL\_SHIPMENT\_DATA.HEIGHT\_\_C as HEIGHT,

1492 INBOUND\_PARCEL\_SHIPMENT\_DATA.LENGTH\_\_C as LENGTH,

1493 INBOUND\_PARCEL\_SHIPMENT\_DATA.PIECES\_\_C as PIECES,

1494 INBOUND\_PARCEL\_SHIPMENT\_DATA.PIECE\_UNIT\_\_C as PIECE\_UNIT,

1495 INBOUND\_PARCEL\_SHIPMENT\_DATA.MAIL\_ORDER\_\_C as LM\_MAIL\_ORDER,

1496 INBOUND\_PARCEL\_SHIPMENT\_DATA.MASTER\_BILL\_\_C as MASTER\_BILL,

1497 INBOUND\_PARCEL\_SHIPMENT\_DATA.IATA\_LOAD\_PORT\_\_C as IATA\_LOAD\_PORT,

1498 INBOUND\_PARCEL\_SHIPMENT\_DATA.DATETIME\_RECEIVED\_\_C as LM\_DATETIME\_RECEIVED,

1499 INBOUND\_PARCEL\_SHIPMENT\_DATA.DATETIME\_PROCESSED\_\_C as LM\_DATETIME\_PROCESSED,

1500 DECODE(INBOUND\_PARCEL\_SHIPMENT\_DATA.IS\_FLAT\_PRODUCT\_\_C, 'true', 'Y', 'N') as IS\_FLAT\_PRODUCT,

1501 INBOUND\_PARCEL\_SHIPMENT\_DATA.REASON\_CODE\_\_C as REASON\_CODE,

1502 INBOUND\_PARCEL\_SHIPMENT\_DATA.RESULT\_\_C as RESULT,

1503 INBOUND\_PARCEL\_SHIPMENT\_DATA.SCAN\_DATE\_\_C as LM\_SCAN\_DATE,

33 The SAS System 06:00 Saturday, February 24, 2024

1504 INBOUND\_PARCEL\_SHIPMENT\_DATA.SERVICE\_CODE\_\_C as SERVICE\_CODE,

1505 INBOUND\_PARCEL\_SHIPMENT\_DATA.STATUS\_\_C as STATUS,

1506 coalesce(INBOUND\_PARCEL\_SHIPMENT\_DATA.TPID\_\_C,EDI\_MANIFEST\_HEADER.DTRCDE) as ACCOUNT\_NUMBER,

1507 INBOUND\_PARCEL\_SHIPMENT\_DATA.VOLUME\_\_C as VOLUME,

1508 INBOUND\_PARCEL\_SHIPMENT\_DATA.VOLUMETRIC\_WEIGHT\_\_C as VOLUMETRIC\_WEIGHT,

1509 INBOUND\_PARCEL\_SHIPMENT\_DATA.WEIGHT\_UNIT\_\_C as WEIGHT\_UNIT,

1510 INBOUND\_PARCEL\_SHIPMENT\_DATA.WIDTH\_\_C as WIDTH,

1511 INBOUND\_PARCEL\_SHIPMENT\_DATA.BARCODE\_\_C as BARCODE,

1512 INBOUND\_PARCEL\_SHIPMENT\_DATA.BARCODE\_REASON\_CODE\_\_C as BARCODE\_REASON\_CODE,

1513 INBOUND\_PARCEL\_SHIPMENT\_DATA.UNIQUE\_BARCODE\_REASON\_CODE\_\_C as UNIQUE\_BARCODE\_REASON\_CODE,

1514 EDI\_MANIFEST\_ITEM.RECEIVER\_TOWN,

1515 EDI\_MANIFEST\_ITEM.RECEIVER\_NAME,

1516 EDI\_MANIFEST\_ITEM.RECEIVER\_DISTRICT,

1517 EDI\_MANIFEST\_ITEM.SENDER\_COMPANY,

1518 EDI\_MANIFEST\_ITEM.SENDER\_TOWN,

1519 EDI\_MANIFEST\_ITEM.SENDER\_DISTRICT,

1520 EDI\_MANIFEST\_ITEM.SENDER\_POSTCODE,

1521 EDI\_MANIFEST\_ITEM.RECEIVED\_TIME as edi\_manifest\_received\_time,

1522 EDI\_MANIFEST\_ITEM.PROCESSED as edi\_manifest\_processed,

1523 DECODE (EDI\_MANIFEST\_ITEM.RETURNLABEL, 0, 'N', 'Y') as IS\_RETURN\_LABEL,

1524 DECODE (EDI\_MANIFEST\_ITEM.AOCBARCODEONLABEL, 0, 'N', 'Y') as is\_aocbarcode\_on\_label,

1525 DECODE (EDI\_MANIFEST\_ITEM.LOGO\_ON\_LABEL, 0, 'N', 'Y') as is\_logo\_on\_label,

1526 EDI\_MANIFEST\_ITEM.SOURCE as scan\_source,

1527 onlin\_manifest.DRIVER\_DATE as online\_manifest\_date\_time,

1528 handover.DRIVER\_DATE as handover\_at\_imc\_date\_time,

1529 ROW\_NUMBER () OVER (PARTITION BY INBOUND\_COMM\_BARCODES\_4UPD.BARCODE\_\_C ORDER BY

1529 ! INBOUND\_PARCEL\_SHIPMENT\_DATA.CREATEDDATE DESC, EDI\_MANIFEST\_ITEM.RECEIVED\_TIME DESC,onlin\_manifest.DRIVER\_DATE

1529 ! ,handover.DRIVER\_DATE ) as rn

1530 from

1531 UDS\_WORK.INBOUND\_COMM\_BARCODES\_4UPD INBOUND\_COMM\_BARCODES\_4UPD inner join

1532 ODS\_SALESFORCE.INBOUND\_PARCEL\_SHIPMENT\_DATA INBOUND\_PARCEL\_SHIPMENT\_DATA

1533 on

1534 (

1535 INBOUND\_COMM\_BARCODES\_4UPD.BARCODE\_\_C = INBOUND\_PARCEL\_SHIPMENT\_DATA.BARCODE\_\_C

1536 ) left join

1537 ODS\_CME.EDI\_MANIFEST\_ITEM EDI\_MANIFEST\_ITEM

1538 on

1539 (

1540 INBOUND\_COMM\_BARCODES\_4UPD.BARCODE\_\_C = EDI\_MANIFEST\_ITEM.CP\_ITEM\_ID

1541 ) left join

1542 ODS\_CME.EDI\_MANIFEST\_HEADER EDI\_MANIFEST\_HEADER

1543 on

1544 (

1545 EDI\_MANIFEST\_ITEM.EDIMANIFESTID = EDI\_MANIFEST\_HEADER.EDIMANIFESTID

1546 ) left join

1547 ODS\_CME.PRESENTD onlin\_manifest

1548 on

1549 (

1550 INBOUND\_COMM\_BARCODES\_4UPD.BARCODE\_\_C = onlin\_manifest.TICKET\_NBR

1551 and onlin\_manifest.TICKET\_PART = 'Q'

1552 ) left join

1553 ODS\_CME.PRESENTD handover

1554 on

1555 (

1556 INBOUND\_COMM\_BARCODES\_4UPD.BARCODE\_\_C = handover.TICKET\_NBR

1557 and handover.TICKET\_PART = 'H'

1558 )

1559

34 The SAS System 06:00 Saturday, February 24, 2024

1560 ) by ORACLE;

1561

1562 %rcSet(&sqlrc);

1563

1564 disconnect from ORACLE;

1565 quit;

NOTE: PROCEDURE| \_DISARM| STOP| \_DISARM| 2024-02-24T20:12:00,240+13:00| \_DISARM| BatchServer| \_DISARM| SAS| \_DISARM| | \_DISARM| 30916608| \_DISARM| 13008896| \_DISARM| 10| \_DISARM| 11| \_DISARM| 16| \_DISARM| 808| \_DISARM| 0.180000| \_DISARM| 38374.437645| \_DISARM| 2024339545.802602| \_DISARM| 2024377920.240247| \_DISARM| 0.040000| \_DISARM| | \_ENDDISARM

NOTE: PROCEDURE SQL used (Total process time):

real time 10:39:34.43

cpu time 0.18 seconds

#### PERSIST\_FPP\_KPI\_SQL\_SERVER\_SLEEP\_13a.sas

This job calls an Oracle stored procedure to sleep (wait) for a period. This may be used as a way of scheduling / orchestrating between components on different data platform. With a single Snowflake data platform, this type of waiting can be eliminated and performance can be improved.

1187

1188 proc sql;

1189 connect to &\_OUTPUT1\_engine (&\_OUTPUT1\_connect);

1190 execute (execute PERSIST.UPDATE\_FCT\_PARCEL\_PERF\_PKG.KPI\_SQL\_SERVER\_SLEEP\_PRC) by &\_OUTPUT1\_engine;

1191 disconnect from &\_OUTPUT1\_engine;

1192 quit;

NOTE: PROCEDURE| \_DISARM| STOP| \_DISARM| 2024-02-26T03:30:01,361+13:00| \_DISARM| BatchServer| \_DISARM| SAS| \_DISARM| | \_DISARM| 15372288| \_DISARM| 11173888| \_DISARM| 10| \_DISARM| 10| \_DISARM| 0| \_DISARM| 360| \_DISARM| 0.230000| \_DISARM| 49678.365551| \_DISARM| 2024440922.996149| \_DISARM| 2024490601.361700| \_DISARM| 0.040000| \_DISARM| | \_ENDDISARM

NOTE: PROCEDURE SQL used (Total process time):

real time 13:47:58.36

cpu time 0.23 seconds

23 The SAS System 13:42 Sunday, February 25, 2024

1193

### SAS Lines of Code summary

We analysed the 566 sas jobs under the sas source code lev1 and lev3 directories. As these codes are generated from SAS DI Studio, in addition to the SQL code and data steps, there are additional sas code lines to facilitate the execution of sas code. These additional sas code lines may not relate to the core function of the job (i.e data processing via either sas Proc SQL step or connecting to Oracle for SQL processing). We therefore extracts the core SQL steps from the sas jobs and measures the number of lines of the core SQL steps code to give an indicative size of the sas jobs.

Between 23-Jan-2024 and 8-Feb-2024, under subfolder Lev1, we have seen 438 sas codes executed. Total number of lines of the core SQL steps in these 438 jobs is 95619. Under subfolder Lev1, we have seen 128 sas codes executed. Total number of lines of the core SQL steps in these 128 jobs is 19688.

## Support documents

The support documents include:

1. IBM Process Flow run instances in last 3 month
2. IBM Process Flow run on 01-Feb-2024 and its statistics
3. IBM Process Flow most recent runs
4. Extraction of SQL step and data step from SAS DI Studio generated code files