# 



CCB Source System Data Integration Interface Specifications  
- DTAC

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**Revision History**

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| **Version** | **Revision Date** | **Author / Reviewer** | **Summary of changes** | **Remarks** |
| 0.1 | 24.07.2019 | Hirak /Chandrima | First Draft Version | For DTAC Review |
| 1.0 | 05.08.2019 | Hirak | 1) Encryption Fields updated.  2) Derived fields removed as per DTAC’s Comments.  3) Added the ‘File Feed List’ Table with file length Size  4) Any other review shared by DTAC | For DTAC Review |
| 1.1 | 15.08.2019 | Hirak | Inclusion of 2nd set of Review comments shared by DTAC | For DTAC Review |
| 1.2 | 26.08.2019 | Hirak | Inclusion of review comments shared by DTAC during show n tell | For DTAC Review |
| 1.3 | 28.08.2019 | Hirak | Inclusion of review comments shared by DTAC during Review Session | For DTAC Review |
| 1.4 | 02.09.2019 | Hirak | Inclusion of review comments shared by DTAC during Review Session | For DTAC Review |
| 1.5 | 18.11.2019 | Hirak/Chandrima | Landing server path corrected as per revision done in BUName\_SourceSystemSummary\_DTAC\_V 0.1.1.xlsx | For DTAC Review |
| 1.6 | 28.11.2019 | Hirak/Chandrima | CCB – Control file path modified | For DTAC Review |

**Review and Approval**

|  |  |  |  |
| --- | --- | --- | --- |
| **Person** | **Role** | **Responsibility** | **Date** |
| Vorraluck Sarechuer Vorraluck.sarechuer@dtac.co.th | Delivery Manager - DTAC |  |  |
| Porntip Soponchai PorntipS@dtac.co.th | Sr Manager -DTAC |  |  |
| Rohit Umaraw  rohit.umaraw@wipro.com | Manager- Wipro |  |  |

|  |  |
| --- | --- |
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| Author | Chandrima / Hirak |

Referenced Documents

| **#** | **Document Name** | **Document Description** | **Document Type/Drop#** | **Version** |
| --- | --- | --- | --- | --- |
| 1 | BUName\_SourceSystemSummary\_DTAC\_V 0.0.9.xlsx | This document captures the source feed technical details and its data structures | Excel File | 0.9 |
| 2 | AEP - Source System Ingest Data.xlsx | This document contains source system data ingestion path and server for DEV/SIT/PROD | Excel File | - |
| 3 | SourceFeed1.xlsx | Holds EDW file wise control file mapping per As-IS BI Process | Excel File | - |
| 4 | BUName\_SourceSystemSummary\_DTAC\_V 0.1.1.xlsx | This document captures the source feed technical details and its data structures | Excel File | 1.1 |
|  |  |  |  |  |

Terminologies & Acronyms

| **Acronyms Used** | **Description** |
| --- | --- |
| ODS | Operational Data store |
| AEP | Analytics Enablement Program |
| CCB | Customer care and Billing |

# Overview

This document contains information and specification for Source System (CCB) for Data Integration into ODS layer. The purpose of this document is to describe the design of output interfaces from CCB (Source system) to AEP platform (Data Integration).

The specification document will capture all the source feed details, their frequencies, naming conventions and their corresponding rules like exception handling, transformation rule, filtration rule if any, surrogate key and encryption logic.

## 1.1 Interface Diagram

TIER - 1

ODS – Vertica Vertica

AEP Landing Path

CCB

ETL TOOL

ODS- Hadoop

EDW Landing Path(nassnk02)

Pull

## 1.2 File Feed List

The below table captures the list of files which will be integrated from CCB as part of first phase of ODS go-live.

| **#** | **Feed Name** | **File Name** | **File Format** | **Source System Notification Mail\_Group** | **Source System Contact Point** |
| --- | --- | --- | --- | --- | --- |
| 1 | ah\_hist | ah\_hist\_00\_01.dat | .dat | BSS-CRM&PROV OPER-CCB <BSS-CRM&PROVOPER-CCB@dtac.co.th> | Trerapat Ongsri Trerapat@dtac.co.th +66868874175 Wachirayut Kanuengkid Wachirayut@dtac.co.th +66868819232 |
| 2 | cs\_corp\_mast | cs\_corp\_mast.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 3 | cs\_csad | cs\_csad\_00\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 4 | cs\_cust | cs\_cust\_00\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 5 | cs\_cust\_pmtn | cs\_cust\_pmtn.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 6 | cs\_dual\_addr | cs\_dual\_addr.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 7 | cs\_dual\_detl | cs\_dual\_detl.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 8 | cs\_dual\_mast | cs\_dual\_mast.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 9 | cs\_pkgp\_pcn | cs\_pkgp\_pcn.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 10 | cs\_pkpl\_pcn | cs\_pkpl\_pcn.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 11 | cs\_sbsp\_pcn | cs\_sbsp\_pcn\_\*\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 12 | cs\_spkd\_pass\_[00-09] | cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | dat | BSS-CRM&PROV OPER-CCB <BSS-CRM&PROVOPER-CCB@dtac.co.th> | Trerapat Ongsri Trerapat@dtac.co.th +66868874175 Wachirayut Kanuengkid Wachirayut@dtac.co.th +66868819232 |
| 13 | cs\_spkd\_pcn | cs\_spkd\_pcn\_\*\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 14 | cs\_ssvd\_pcn\_[00-09] | cs\_ssvd\_pcn\_\*\_01.dat | .dat | BSS-CRM&PROV OPER-CCB <BSS-CRM&PROVOPER-CCB@dtac.co.th> | Trerapat Ongsri Trerapat@dtac.co.th +66868874175 Wachirayut Kanuengkid Wachirayut@dtac.co.th +66868819232 |
| 15 | cs\_subr\_pcn | cs\_subr\_pcn\_\*\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 16 | rd\_card | rd\_card\_00\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 17 | rd\_telp | rd\_telp\_00\_01.dat | .dat | GSS-DTAC-DBA@dtac.co.th | SP-Enterprise Infrastructure Service - Database Admin Team ES-EIS-DBA@dtac.co.th Santi Booncharoen <SantiB@dtac.co.th>;  Retdech Chaimanee <RetdechC@dtac.co.th> Last Contract\*\*\* K. Apiwat Nopsirivong Head of Team Tel: 062-821-0684 Mail: ApiwatN@dtac.co.th |
| 18 | cs\_grup\_pack | cs\_grup\_pack\_\* | dat | BSS-CRM&PROV OPER-CCB <BSS-CRM&PROVOPER-CCB@dtac.co.th> | Trerapat Ongsri Trerapat@dtac.co.th +66868874175 Wachirayut Kanuengkid Wachirayut@dtac.co.th +66868819232 |

## 1.3 File Transfer Mechanism

CCB system will push the data into EDW Landing server- nassnk02, AEP has to pull the data from nassnk02 to AEP landing zone. Broadly, the following steps will be carried out as part of the file transfer mechanism:

1. CCB will generate two files one with .dat extension and other with .ctl / .log for the control file per day. Following are the lists of file mapping between Source feed and control file.

| **Feed File Name** | **Feed File Format** | **Control File Name** | **Control File Format** |
| --- | --- | --- | --- |
| ah\_hist\_00\_01.dat | .dat | ah\_hist\_00\_01.ctl | .ctl |
| cs\_corp\_mast.dat | .dat | cs\_corp\_mast.log | .log |
| cs\_csad\_00\_01.dat | .dat | cs\_csad\_00\_01.ctl | .ctl |
| cs\_cust\_00\_01.dat | .dat | cs\_cust\_00\_01.ctl | .ctl |
| cs\_cust\_pmtn.dat | .dat | cs\_cust\_pmtn.log | .log |
| cs\_dual\_addr.dat | .dat | cs\_dual\_addr.log | .log |
| cs\_dual\_detl.dat | .dat | cs\_dual\_detl.log | .log |
| cs\_dual\_mast.dat | .dat | cs\_dual\_mast.log | .log |
| cs\_pkgp\_pcn.dat | .dat | cs\_pkgp\_pcn.log | .log |
| cs\_pkpl\_pcn.dat | .dat | cs\_pkpl\_pcn.log | .log |
| rd\_card\_00\_01.dat | .dat | rd\_card\_00\_01.ctl | .ctl |
| rd\_telp\_00\_01.dat | .dat | rd\_telp\_00\_01.ctl | .ctl |

1. In case of multiple feed files per day like cs\_sbsp\_pcn\_\*\_01.dat [Where \* can be 00 – 09] wherein one with .dat extension and other with .ctl / .log for the control files will be send to AEP landing area. Following are the lists of file mapping between Source feed and control file.

| **Feed File Name** | **Feed File Format** | **Control File Name** | **Control File Format** |
| --- | --- | --- | --- |
| cs\_sbsp\_pcn\_\*\_01.dat | .dat | cs\_sbsp\_pcn\_\*\_01.ctl | .ctl |
| cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | dat | cs\_spkd\_pass\_\*\_01.ctl | .ctl |
| cs\_spkd\_pcn\_\*\_01.dat | .dat | cs\_spkd\_pcn\_\*\_01.ctl | .ctl |
| cs\_ssvd\_pcn\_\*\_01.dat | .dat | cs\_ssvd\_pcn\_\*\_01.ctl | .ctl |
| cs\_subr\_pcn\_\*\_01.dat | .dat | cs\_subr\_pcn\_\*\_01.ctl | .ctl |

1. File will be transferred from EDW Landing area-on nassnk02 using FTP protocol in uncompressed form.
2. There will be separate folder created for each day where the files will be Pulled inside AEP- Landing zone. Folder structure as below:
   1. For Raw Data files path should be

/<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/

/<root>/SRC\_DATA/CCB/RD/<YYYYMMDD>/

* 1. For Control File path should be

/<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/

/<root>/SRC\_DATA/CCB/RD/<YYYYMMDD>/LOG/

1. As soon as file gets picked for processing, it will be moved to processed folder. Once the file is processed successfully, the original file will be moved to ‘Archive’ folder where the file will be retained as per data retention period. Archive folder will contain all the raw files.
2. No Header & footer available inside the feed files.
3. Source system is responsible to provide the correct data.
4. All transaction files will have transaction data for the previous day. How-ever there could be exceptions for source feeds. Because some transaction feeds are full dump or profile that change in the day.
5. Data file will always hold Previous day transaction.
6. Available Source file path @ EDW Landing zone is mentioned in the below table-

| **#** | **Feed Name** | **File Name** | **Source File path - PROD** | **Source File path - SIT** | **Source File path-DEV** |
| --- | --- | --- | --- | --- | --- |
| 1 | ah\_hist | ah\_hist\_00\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/ah\_hist\_00\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/ah\_hist\_00\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/ah\_hist\_00\_01.dat |
| 2 | cs\_corp\_mast | cs\_corp\_mast.dat | /PRIDATA\_EVA/cs\_corp\_mast.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_corp\_mast.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_corp\_mast.dat |
| 3 | cs\_csad | cs\_csad\_00\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_csad\_00\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_csad\_00\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_csad\_00\_01.dat |
| 4 | cs\_cust | cs\_cust\_00\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_cust\_00\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_cust\_00\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_cust\_00\_01.dat |
| 5 | cs\_cust\_pmtn | cs\_cust\_pmtn.dat | /PRIDATA\_EVA/cs\_cust\_pmtn.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_cust\_pmtn.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_cust\_pmtn.dat |
| 6 | cs\_dual\_addr | cs\_dual\_addr.dat | /PRIDATA\_EVA/cs\_dual\_addr.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_dual\_addr.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_dual\_addr.dat |
| 7 | cs\_dual\_detl | cs\_dual\_detl.dat | /PRIDATA\_EVA/cs\_dual\_detl.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_dual\_detl.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_dual\_detl.dat |
| 8 | cs\_dual\_mast | cs\_dual\_mast.dat | /PRIDATA\_EVA/cs\_dual\_mast.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_dual\_mast.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_dual\_mast.dat |
| 9 | cs\_pkgp\_pcn | cs\_pkgp\_pcn.dat | /PRIDATA\_EVA/cs\_pkgp\_pcn.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_pkgp\_pcn.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_pkgp\_pcn.dat |
| 10 | cs\_pkpl\_pcn | cs\_pkpl\_pcn.dat | /PRIDATA\_EVA/cs\_pkpl\_pcn.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_pkpl\_pcn.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_pkpl\_pcn.dat |
| 11 | cs\_sbsp\_pcn | cs\_sbsp\_pcn\_\*\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_sbsp\_pcn\_\*\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_sbsp\_pcn\_\*\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_sbsp\_pcn\_\*\_01.dat |
| 12 | cs\_spkd\_pass\_[00-09] | cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | /EDW/nfsedw101/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat |
| 13 | cs\_spkd\_pcn | cs\_spkd\_pcn\_\*\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_spkd\_pcn\_\*\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_spkd\_pcn\_\*\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_spkd\_pcn\_\*\_01.dat |
| 14 | cs\_ssvd\_pcn\_[00-09] | cs\_ssvd\_pcn\_\*\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_ssvd\_pcn\_\*\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_ssvd\_pcn\_\*\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_ssvd\_pcn\_\*\_01.dat |
| 15 | cs\_subr\_pcn | cs\_subr\_pcn\_\*\_01.dat | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_subr\_pcn\_\*\_01.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_subr\_pcn\_\*\_01.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_subr\_pcn\_\*\_01.dat |
| 16 | rd\_card | rd\_card\_00\_01.dat | /EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/rd\_card\_00\_01.dat | /SIT/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/rd\_card\_00\_01.dat | /DEV/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/rd\_card\_00\_01.dat |
| 17 | rd\_telp | rd\_telp\_00\_01.dat | /EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/rd\_telp\_00\_01.dat | /SIT/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/rd\_telp\_00\_01.dat | /DEV/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/rd\_telp\_00\_01.dat |
| 18 | cs\_grup\_pack | cs\_grup\_pack\_\*dat | /EDW/SRC\_DATA/ CCB/CS/<YYYYMMDD>/ cs\_grup\_pack\_\*.dat | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_grup\_pack\_\*.dat | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/cs\_grup\_pack\_\*.dat |

1. This Production server/Source path details are subject to change once CCB migrated to DI landing zone in due course of project.

## 1.4 ODS Table Naming convention

* Transaction Table : DWO\_<Application\_System>\_<feed\_name>
* Dimension / Master Table : DIM\_<Application\_System>\_<feed\_name>

# Assumptions

1. Master data file will be Pushed to the EDW landing path on a daily basis even if there is no new records created.
2. For multiple transaction files which are of same feed will be Pushed once in a day to the EDW landing path.
3. Files are required to be send to existing platform and new platform concurrently until AEP is stabilize. However Existing file formats remains the same in both the platform.
4. File count validation cannot be done for source feed which are not having any control file.  
   No process currently in DTAC.
5. This Source data server path details are considered as is with current BI system, any change in setup will have impact on the data ingestion configuration mechanism.

# Interface Details

## 3.1 Details of Source Feeds

|  |  |
| --- | --- |
| Interface Number |  |
| Interface Name | **CCB** |
| Interface Owner | Refer to section 1.2 on feed wise Ownership details |

### Source Feed Files

The below table captures the list of files which will be integrated from CCB as part of first phase of ODS go-live.

| **#** | **Feed Name** | **File Name** | **File Format** | **File Name Length** | **File Type** | **Frequency** | **Mechanism of File Transfer** | **No. of files EOD** | **DELI**  **MITER** | **Extract type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | ah\_hist | ah\_hist\_00\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Incremental |
| 2 | cs\_corp\_mast | cs\_corp\_mast.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Full + Incremental |
| 3 | cs\_csad | cs\_csad\_00\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Incremental |
| 4 | cs\_cust | cs\_cust\_00\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Incremental |
| 5 | cs\_cust\_pmtn | cs\_cust\_pmtn.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Full + Incremental |
| 6 | cs\_dual\_addr | cs\_dual\_addr.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Full + Incremental |
| 7 | cs\_dual\_detl | cs\_dual\_detl.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Full + Incremental |
| 8 | cs\_dual\_mast | cs\_dual\_mast.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Full + Incremental |
| 9 | cs\_pkgp\_pcn | cs\_pkgp\_pcn.dat | .dat | 50 | Master | DAILY | Pull | 1 | | | Full + Incremental |
| 10 | cs\_pkpl\_pcn | cs\_pkpl\_pcn.dat | .dat | 50 | Master | DAILY | Pull | 1 | | | Full + Incremental |
| 11 | cs\_sbsp\_pcn | cs\_sbsp\_pcn\_\*\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 10 | | | Incremental |
| 12 | cs\_spkd\_pass\_[00-09] | cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | .dat | 50 | Transaction | DAILY | Pull | 10 | | | Incremental |
| 13 | cs\_spkd\_pcn | cs\_spkd\_pcn\_\*\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 10 | | | Incremental |
| 14 | cs\_ssvd\_pcn\_[00-09] | cs\_ssvd\_pcn\_\*\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 10 | | | Incremental |
| 15 | cs\_subr\_pcn | cs\_subr\_pcn\_\*\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 10 | | | Incremental |
| 16 | rd\_card | rd\_card\_00\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Incremental |
| 17 | rd\_telp | rd\_telp\_00\_01.dat | .dat | 50 | Transaction | DAILY | Pull | 1 | | | Incremental |
| 18 | cs\_grup\_pack | cs\_grup\_pack\_\*.dat | .dat | 50 | Master | DAILY | Pull | 1 | | | Full + Incremental |

#### Interface Characteristic

| Source Feed Name | All source feeds |
| --- | --- |
| Source Feed Description | See Section 3.1.2 on Source feed files |
| File Type  (Transaction / Reference) | Transaction |
| Collection Mechanism (Push / Pull) | Pull |
| Extraction Criteria | Daily Full Dump/ Incremental [ Check section 3.1.1 on individual feed wise details] |
| Collection Protocol | SFTP |
| File frequency /Collection Frequency | Daily once [refer to Section 4.1 for details] |
| File Format | “|” delimited File.  File extension is .dat |
| Control File available? (Yes / No) | Yes [refer to Section 3.1.3 for detail]] |
| Header Record Available? | No |
| Footer Record Available? | No |
| Retention Period at Source | 7 days [FILE Level] |

#### Environment Details & Access Details

|  |  |
| --- | --- |
| Production IP Address | TBD |
| Production Port | TBD |
| Production User Name | TBD |
| Production Source Folder | Production Source Folder should be identify the actual path :  Server : nassnk02 ( This server/source path details are subject to change once CCB migrated to DI landing zone in due course of project)  Data file Path :   |  | | --- | | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | | /PRIDATA\_EVA/ | | /EDW/nfsedw101/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | | /EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/ |   Control file Path :   |  | | --- | | /EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ | | /PRIDATA\_EVA/LOG/ | | /EDW/nfsedw101/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ | | /EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/LOG/ | |
| SIT IP Address | TBD |
| SIT Port | TBD |
| SIT User Name | TBD |
| SIT Source Folder | SIT Source Folder should be identify the actual path :  Server : nickel18  Data file Path :   |  | | --- | | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | | /SIT/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/ |   Control file Path :   |  | | --- | | /SIT/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ | | /SIT/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/LOG/ | |
| Dev IP Address | TBD |
| Dev Port | TBD |
| Dev User Name | TBD |
| Dev Source Folder | SIT Source Folder should be identify the actual path :  Server : nickel14  Data file Path :   |  | | --- | | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | | /DEV/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/ |   Control file Path :   |  | | --- | | /DEV/EDW/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ | | /DEV/EDW/SRC\_DATA/CCB/RD/<YYYYMMDD>/LOG/ | |

#### Information required for first time loading & data transfer

For Transaction feeds the data from ODS will start from date of GO-LIVE of ODS.

Historical data load and Data Purging guidelines for Feeds Files as per below table

| **#** | **Feed Name** | **File Name** | **File Format** | **Historical Load** | **Data Purging** |
| --- | --- | --- | --- | --- | --- |
| 1 | ah\_hist | ah\_hist\_00\_01.dat | .dat | Last 12 Month | 1 Year |
| 2 | cs\_corp\_mast | cs\_corp\_mast.dat | .dat | No | No |
| 3 | cs\_csad | cs\_csad\_00\_01.dat | .dat | All | No |
| 4 | cs\_cust | cs\_cust\_00\_01.dat | .dat | All | No |
| 5 | cs\_cust\_pmtn | cs\_cust\_pmtn.dat | .dat | No | No |
| 6 | cs\_dual\_addr | cs\_dual\_addr.dat | .dat | No | No |
| 7 | cs\_dual\_detl | cs\_dual\_detl.dat | .dat | No | No |
| 8 | cs\_dual\_mast | cs\_dual\_mast.dat | .dat | No | No |
| 9 | cs\_pkgp\_pcn | cs\_pkgp\_pcn.dat | .dat | No | No |
| 10 | cs\_pkpl\_pcn | cs\_pkpl\_pcn.dat | .dat | No | No |
| 11 | cs\_sbsp\_pcn | cs\_sbsp\_pcn\_\*\_01.dat | .dat | All | No |
| 12 | cs\_spkd\_pass\_[00-09] | cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | dat | All | No |
| 13 | cs\_spkd\_pcn | cs\_spkd\_pcn\_\*\_01.dat | .dat | All | No |
| 14 | cs\_ssvd\_pcn\_[00-09] | cs\_ssvd\_pcn\_\*\_01.dat | .dat | All | No |
| 15 | cs\_subr\_pcn | cs\_subr\_pcn\_\*\_01.dat | .dat | All | No |
| 16 | rd\_card | rd\_card\_00\_01.dat | .dat | All | No |
| 17 | rd\_telp | rd\_telp\_00\_01.dat | .dat | All | No |
| 18 | cs\_grup\_pack | cs\_grup\_pack\_\*.dat | dat | No | 6 Months |

#### Header Record Format

Header not available for all the feeds.

#### Footer Record Format

Footer not available for all the Feeds.

#### File count Check

Refer to Section 3.1.1 for No. of files EOD available for each feed.

#### Feed to Table Mapping

Following table depicts the proposed CCB feeds mapping to TIER 1 (ODS) target table.

| **#** | **Feed Name** | **TIER1 (ODS) Table Name** | **Data Volume Per Day** | **Type** |
| --- | --- | --- | --- | --- |
| 1 | ah\_hist | DWO\_CCB\_AH\_HIST | 141,798 | Transaction |
| 2 | cs\_corp\_mast | DWO\_CCB\_CS\_CORP\_MAST | 1,311 | Transaction |
| 3 | cs\_csad | DWO\_CCB\_CS\_CSAD | 110,004 | Transaction |
| 4 | cs\_cust | DWO\_CCB\_CS\_CUST | 130,670 | Transaction |
| 5 | cs\_cust\_pmtn | DWO\_CCB\_CS\_CUST\_PMTN | 80 | Transaction |
| 6 | cs\_dual\_addr | DWO\_CCB\_CS\_DUAL\_ADDR | 2 | Transaction |
| 7 | cs\_dual\_detl | DWO\_CCB\_CS\_DUAL\_DETL | 0 | Transaction |
| 8 | cs\_dual\_mast | DWO\_CCB\_CS\_DUAL\_MAST | 1 | Transaction |
| 9 | cs\_pkgp\_pcn | DIM\_CCB\_CS\_PKGP\_PCN | 91 | Master |
| 10 | cs\_pkpl\_pcn | DIM\_CCB\_CS\_PKPL\_PCN | 19,453 | Master |
| 11 | cs\_sbsp\_pcn | DWO\_CCB\_CS\_SBSP\_PCN | 85,489 | Transaction |
| 12 | cs\_spkd\_pass\_[00-09] | DWO\_CCB\_CS\_SPKD\_PASS | 5,326 | Transaction |
| 13 | cs\_spkd\_pcn | DWO\_CCB\_CS\_SPKD\_PCN | 3,848,825 | Transaction |
| 14 | cs\_ssvd\_pcn\_[00-09] | DWO\_CCB\_CS\_SSVD\_PCN | 5,029,517 | Transaction |
| 15 | cs\_subr\_pcn | DWO\_CCB\_CS\_SUBR\_PCN | 332,487 | Transaction |
| 16 | rd\_card | DWO\_CCB\_RD\_CARD | 251,127 | Transaction |
| 17 | rd\_telp | DWO\_CCB\_RD\_TELP | 667,660 | Transaction |
| 18 | cs\_grup\_pack | DIM\_CCB\_CS\_GRUP\_PACK | 54 | Master |

### Source Feed wise - Record Format

##### DWO\_CCB\_AH\_HIST

Feed provides Change log about all activity about customer and subscriber. Example change customer name, change address, change sim, change bill day etc.

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | CUST\_NUMB | INTEGER | 648522643 | 643865643 |
| 2 | SUBR\_NUMB | VARCHAR2(12) | 66633626353 | 66628018817 |
| 3 | ACTY\_CODE | VARCHAR2(6) | CSCHAD | SBNXDY |
| 4 | CRTD\_DTTM | DATETIME | 7/17/2019 9:49:17 AM | 7/17/2019 9:35 |
| 5 | CRTD\_BY | VARCHAR2(12) | UMARINP | 43105K101 |
| 6 | HIST\_DESC1 | VARCHAR2(255) | เลขที่ 6 ซ.เทียนทะเล 8 ถนน บางขุนเทียน-ชายทะเล แขวงแสมดำ เขตบางขุนเทียน กรุงเทพมหานคร 10150 | Change Package Group-Next Day From 12079044 To 12081104 |
| 7 | HIST\_DESC2 | VARCHAR2(255) |  | Package Group Original Start Date - 2019-07-08 |
| 8 | ANLS\_CODE1 | VARCHAR2(20) | 2 | 12079044 |
| 9 | ANLS\_CODE2 | VARCHAR2(20) | Mailing Address | 12081104 |
| 10 | ANLS\_CODE3 | VARCHAR2(20) |  | 7/8/2019 |

##### DWO\_CCB\_CS\_CORP\_MAST

Feed provides to Store information of corporate group (corporate company), corporate group name.

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | GRUP\_CODE | INTEGER | 2579 |
| 2 | GRUP\_NAME | VARCHAR2(255) | บริษัท พัฒน์กล จำกัด(มหาชน) |
| 3 | BLDY | INTEGER | 1 |
| 4 | CATG\_CODE | INTEGER | 1 |
| 5 | DVRT\_CODE | VARCHAR2(15) | COP |
| 6 | AMPS\_ARRR\_PLAN | VARCHAR2(5) | CCA |
| 7 | PCN\_ARRR\_PLAN | VARCHAR2(5) | CCP |
| 8 | SNGL\_ARRR\_PLAN | VARCHAR2(5) |  |
| 9 | IEC\_ARRR\_PLAN | VARCHAR2(5) | CCI |
| 10 | SUBR\_DETL\_FLAG | VARCHAR2(1) | N |
| 11 | SLMN\_CODE | VARCHAR2(6) | 9999 |
| 12 | CCSV\_CODE | INTEGER | 42 |
| 13 | SGMT\_CODE | INTEGER | 3000 |
| 14 | CSTP\_CODE | INTEGER | 19 |
| 15 | BNTP\_CODE | INTEGER | 100 |
| 16 | CNCT\_PERS | VARCHAR2(50) |  |
| 17 | OFFC\_TELP\_NUMB | VARCHAR2(20) |  |
| 18 | REMK | VARCHAR2(255) | คุณภานุชัย สัจจส่ง ฝ่ายบุคคล 02-3281032-45 |
| 19 | CRTD\_DTTM | DATETIME | 5/19/2003 17:08 |
| 20 | CRTD\_BY | VARCHAR2(12) | SAKUNAS |
| 21 | LAST\_CHNG\_DTTM | DATETIME | 5/6/2019 8:03 |
| 22 | LAST\_CHNG\_BY | VARCHAR2(12) | BATCHSB |
| 23 | GRUP\_ID | INTEGER | 12 |
| 24 | SBBN\_CODE | VARCHAR2(2) | 1 |
| 25 | VPN\_FLAG | VARCHAR2(1) | N |
| 26 | CDR\_GRUP\_FLAG | VARCHAR2(1) |  |

##### DWO\_CCB\_CS\_CSAD

Feed provides to Store customer address both legal , mailing and write off address.

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | CUST\_NUMB | INTEGER | 1056031866 | 621659866 |
| 2 | ADDR\_TYPE | VARCHAR2(2) | 1 | 2 |
| 3 | ADR1 | VARCHAR2(80) | 101 หมู่ที่ 2 | 124 ม4 |
| 4 | ADR2 | VARCHAR2(80) | ตำบลนางรอง | ต.ดงแดง |
| 5 | CNTY\_CODE | VARCHAR2(4) | 66 | 66 |
| 6 | ADDR\_POST\_CODE | VARCHAR2(8) | 31110 | 45180 |
| 7 | PSCD\_SEQN\_NUMB | INTEGER | 2 | 1 |
| 8 | ADDR\_PCXT | VARCHAR2(5) |  |  |
| 9 | LAST\_CHNG\_DTTM | DATETIME | 7/17/2019 12:52 | 7/17/2019 14:24 |
| 10 | LAST\_CHNG\_BY | VARCHAR2(12) | 44208K100 | CHONLADP |

##### DWO\_CCB\_CS\_CUST

Feed provides to Store customer information. (name, id number, status etc)

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | CUST\_NUMB | INTEGER | 1111024849 | 1111025949 |
| 2 | BLPD\_CODE | VARCHAR2(2) | 2 | 2 |
| 3 | CUST\_STTS | VARCHAR2(1) | C | C |
| 4 | TITL | VARCHAR2(40) |  | นาง |
| 5 | FRST\_NAME | VARCHAR2(80) | 0950042007NBTC | บุญมา |
| 6 | LAST\_NAME | VARCHAR2(80) |  | ศรีบุญเรือง |
| 7 | ID\_TYPE | VARCHAR2(2) | 15 | 1 |
| 8 | ID\_NUMB | VARCHAR2(20) | n1043509 | 3570800280831 |
| 9 | GNDR | VARCHAR2(1) | U | U |
| 10 | DATE\_OF\_BRTH | DATE |  |  |
| 11 | OCCP\_CODE | VARCHAR2(3) | 802 | 802 |
| 12 | NTNT\_CODE | VARCHAR2(4) | 66 | 66 |
| 13 | MARL\_STTS | VARCHAR2(1) |  |  |
| 14 | CHLD | INTEGER | 0 | 0 |
| 15 | FAML\_MEMB | INTEGER | 0 | 0 |
| 16 | SALR\_LEVL | VARCHAR2(1) |  |  |
| 17 | INCL\_DICT | VARCHAR2(1) |  |  |
| 18 | GOOD\_STTS | VARCHAR2(1) | N | N |
| 19 | LANG | VARCHAR2(1) | T | T |
| 20 | GRUP\_HEAD | VARCHAR2(1) | 0 | 0 |
| 21 | LEAF\_CUST | VARCHAR2(1) | 1 | 1 |
| 22 | PRET\_CUST\_NUMB | INTEGER |  |  |
| 23 | GRUP\_CODE | INTEGER | 0 | 0 |
| 24 | GRUP\_LEVL | INTEGER | 0 | 0 |
| 25 | EMPL\_FLAG | VARCHAR2(1) | N | N |
| 26 | RPRT\_LEVL\_FLAG | VARCHAR2(1) | N | N |
| 27 | PMNT\_LEVL\_FLAG | VARCHAR2(1) | N | N |
| 28 | GRUP\_SUBR\_INDC | VARCHAR2(1) | 0 | 0 |
| 29 | HOME\_TELP\_NUMB | VARCHAR2(21) |  |  |
| 30 | HOME\_FAX\_NUMB | VARCHAR2(21) |  |  |
| 31 | OFFC\_TELP\_NUMB | VARCHAR2(21) |  |  |
| 32 | OFFC\_FAX\_NUMB | VARCHAR2(21) |  |  |
| 33 | EMAL\_ADDR | VARCHAR2(40) |  |  |
| 34 | DOCM\_ADDR\_TYPE | VARCHAR2(2) | 2 | 2 |
| 35 | CRTD\_DTTM | DATETIME | 11/23/2017 7:55 | 11/23/2017 8:51 |
| 36 | CRTD\_BY | VARCHAR2(12) | BATCHSB | BATCHSB |
| 37 | LAST\_CHNG\_DTTM | DATETIME | 8/5/2019 0:36 | 8/4/2019 4:35 |
| 38 | LAST\_CHNG\_BY | VARCHAR2(12) | BATCHSB | BATCHSB |
| 39 | ACCT\_CLSS | VARCHAR2(1) | 20 | 20 |
| 40 | STRIP\_NAME | VARCHAR2(160) |  |  |
| 41 | VALD\_ID\_FLAG | VARCHAR2(1) |  |  |
| 42 | COMP\_CODE | VARCHAR2(2) |  |  |
| 43 | PY\_TELP\_NUMB | VARCHAR2(21) |  |  |

##### DWO\_CCB\_CS\_CUST\_PMTN

Feed provides to Store offer promotion in account level.

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | SEQN | INTEGER | 23 | 24 |
| 2 | CUST\_NUMB | INTEGER | 506252331 | 506255944 |
| 3 | CUST\_PMTN\_CODE | VARCHAR2(8) |  |  |
| 4 | PMTN\_STRT\_DATE | DATETIME |  | 6/17/2002 0:00 |
| 5 | STRT\_DATE | DATETIME |  | 6/17/2002 0:00 |
| 6 | END\_DATE | DATETIME |  | 6/2/2003 23:59 |
| 7 | CRTD\_DTTM | DATETIME | 6/17/2002 17:42 | 6/17/2002 20:58 |
| 8 | CRTD\_BY | VARCHAR2(12) | ANOCHAS | 43201K06 |
| 9 | LAST\_CHNG\_DTTM | DATETIME | 6/17/2002 17:42 | 1/25/2015 1:10 |
| 10 | LAST\_CHNG\_BY | VARCHAR2(12) | ANOCHAS | MIGRATECBS |
| 11 | PACK\_CODE | VARCHAR2(8) |  |  |
| 12 | STRT\_DTTM | DATETIME |  | 6/17/2002 0:00 |
| 13 | END\_DTTM | DATETIME |  | 6/2/2003 23:59 |
| 14 | SWOF\_DTTM | VARCHAR2(19) |  |  |
| 15 | PROV\_STRT\_DTTM | DATETIME |  | 6/17/2002 0:00 |
| 16 | INIT\_END\_DTTM | DATETIME |  | 6/2/2003 23:59 |

##### DWO\_CCB\_CS\_DUAL\_ADDR

Feed provides to Store address of corporate dual bill account.

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | CUST\_NUMB | INTEGER | 514328617 | 514328617 |
| 2 | SUBR\_NUMB | VARCHAR2(12) | 66897792292 | 66897792292 |
| 3 | ADDR\_TYPE | VARCHAR2(2) | 1 | 2 |
| 4 | SCND\_CUST\_NUMB | INTEGER | 200000077 | 200000077 |
| 5 | ADR1 | VARCHAR2(80) | 1126/2 อาคารวานิช 2 ชั้น 10 ห้อง 1001 A | 1126/2 อาคารวานิช 2 ชั้น 10 ห้อง 1001 A |
| 6 | ADR2 | VARCHAR2(80) | ถ.เพชรบุรีตัดใหม่ แขวงมักกะสัน | ถ.เพชรบุรีตัดใหม่ แขวงมักกะสัน |
| 7 | CNTY\_CODE | VARCHAR2(4) | 66 | 66 |
| 8 | ADDR\_POST\_CODE | VARCHAR2(8) | 10400 | 10400 |
| 9 | PVNC\_CODE | VARCHAR2(2) | 3 | 3 |
| 10 | PSCD\_SEQN\_NUMB | INTEGER |  |  |
| 11 | ADDR\_PCXT | VARCHAR2(5) |  |  |
| 12 | CRTD\_DTTM | DATETIME | 10/29/2004 14:15 | 10/29/2004 14:15 |
| 13 | CRTD\_BY | VARCHAR2(12) | RUCHANES | RUCHANES |
| 14 | LAST\_CHNG\_DTTM | DATETIME | 8/4/2006 10:25 | 8/4/2006 10:25 |
| 15 | LAST\_CHNG\_BY | VARCHAR2(12) | NARONGRM | NARONGRM |

##### DWO\_CCB\_CS\_DUAL\_DETL

Feed provides to Store the dual bill account information

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | SEQN | INTEGER | 699 | 700 |
| 2 | CUST\_NUMB | INTEGER | 516730119 | 500349269 |
| 3 | SUBR\_NUMB | VARCHAR2(12) | 66815927135 | 66816550420 |
| 4 | STRT\_PERD | DATETIME | 3/5/2005 0:00 | 3/5/2005 0:00 |
| 5 | SCND\_CUST\_NUMB | INTEGER | 200000674 | 200000675 |
| 6 | END\_PERD | DATETIME |  | 1/19/2016 11:00 |
| 7 | CRTD\_DTTM | DATETIME | 3/7/2005 10:06 | 3/7/2005 10:07 |
| 8 | CRTD\_BY | VARCHAR2(12) | SAKUNAS | SAKUNAS |
| 9 | LAST\_CHNG\_DTTM | DATETIME | 3/7/2005 10:06 | 1/19/2016 11:00 |
| 10 | LAST\_CHNG\_BY | VARCHAR2(12) | SAKUNAS | PUNNAPAM |
| 11 | STRT\_DTTM | DATETIME | 3/5/2005 0:00 | 3/5/2005 0:00 |
| 12 | END\_DTTM | DATETIME |  | 1/19/2016 11:00 |
| 13 | PROV\_STRT\_DTTM | DATETIME |  | 3/5/2005 0:00 |
| 14 | INIT\_END\_DTTM | DATETIME |  | 1/19/2016 11:00 |
| 15 | PACK\_CODE | VARCHAR2(8) | 65000003 | 65000003 |

##### DWO\_CCB\_CS\_DUAL\_MAST

Feed provides to Store the dual bill account information

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| 1 | CUST\_NUMB | INTEGER | 514327631 |
| 2 | SUBR\_NUMB | VARCHAR2(12) | 66897792268 |
| 3 | SCND\_CUST\_NUMB | INTEGER | 200000002 |
| 4 | SCND\_TITL | VARCHAR2(40) | นางสาว |
| 5 | SCND\_FRST\_NAME | VARCHAR2(80) | นพวรรณ |
| 6 | SCND\_LAST\_NAME | VARCHAR2(80) | พันธง |
| 7 | SCND\_LANG | VARCHAR2(1) | T |
| 8 | CRTD\_DTTM | DATETIME | 10/29/2004 10:03 |
| 9 | CRTD\_BY | VARCHAR2(12) | SAKUNAS |
| 10 | LAST\_CHNG\_DTTM | DATETIME | 6/27/2006 10:16 |
| 11 | LAST\_CHNG\_BY | VARCHAR2(12) | UDOMSRIV |

##### DIM\_CCB\_CS\_PKGP\_PCN

Feed provides to Store package plan group master

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | PKGP\_CODE | VARCHAR2(16) | 12000806 | 12000901 |
| 2 | PKGP\_DESC\_ENG | VARCHAR2(100) | Dummy U - Lite 2 Free 36 M.-Swap Hardware | Dummy Business Rate Local 200/Long 20;MTH-800 |
| 3 | PKGP\_DESC\_THA | VARCHAR2(100) | Dummy U - Lite 2 ฟรี 36 เดือน-Swap Hardware | Dummy Business Rate Local 200/Long 20;MTH-800 |
| 4 | MRKT\_DESC\_ENG | VARCHAR2(120) | U - Lite 2 Free 36 M. | Business Rate Local 200/Long 20;MTH-800 |
| 5 | MRKT\_DESC\_THA | VARCHAR2(120) | Dummy U Lite 2 ฟรี 36 เดือน | Dummy Business Rate Local 200/Long 20;MTH800 |
| 6 | PKGP\_TYPE | VARCHAR2(4) | 40 | 10 |
| 7 | NEW\_PPTY\_CODE | VARCHAR2(6) |  | 100 |
| 8 | BLPD\_CODE | VARCHAR2(4) | 2 | 2 |
| 9 | BASE\_PKGP\_FLAG | VARCHAR2(2) | N | N |
| 10 | XTRA\_FEE\_TYPE | VARCHAR2(2) | 0 | 0 |
| 11 | WAVE\_XTRA\_FEE | VARCHAR2(2) | N | N |
| 12 | ALLW\_USED\_HRDW | VARCHAR2(2) | N | N |
| 13 | TELP\_TYPE | VARCHAR2(6) | TEL | TEL |
| 14 | SUBR\_TYPE | VARCHAR2(2) |  |  |
| 15 | EIS\_PKGP | VARCHAR2(16) | P1000001 | P1000001 |
| 16 | EFFC\_DATE | DATE | 3/12/1999 | 2/7/1999 |
| 17 | EXPR\_DATE | DATE | 31/07/2000 | 10/11/1999 |
| 18 | AUTH\_ALL\_HRDW | VARCHAR2(2) | 1 | 1 |
| 19 | AUTH\_ALL\_USER | VARCHAR2(2) | 1 | 1 |
| 20 | CRTD\_DTTM | DATETIME | 12/1/2001 20:00 | 12/1/2001 20:00 |
| 21 | CRTD\_BY | VARCHAR2(24) | nattapos | nattapos |
| 22 | LAST\_CHNG\_DTTM | DATETIME | 12/17/2001 10:52 | 12/17/2001 10:52 |
| 23 | LAST\_CHNG\_BY | VARCHAR2(24) | nattapos | nattapos |

##### DIM\_CCB\_CS\_PKPL\_PCN

Feed provides to Store package plan master

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** | **Sample Values2** |
| --- | --- | --- | --- | --- |
| 1 | PACK\_CODE | VARCHAR2(8) | 21250208 | 12079241 |
| 2 | PACK\_DESC | VARCHAR2(50) | AccumRefill100B Free Internet7d\_FBLine30d10c | SMEnet i6\_i6P1699(call300min\_net8GBWifi)24m\_BH |
| 3 | TELP\_TYPE | VARCHAR2(3) | PRE | TEL |
| 4 | SUBR\_TYPE | VARCHAR2(1) |  |  |
| 5 | PACK\_TYPE | VARCHAR2(2) | 20 | 10 |
| 6 | ARTM\_CODE | INTEGER | 7765 | 8581 |
| 7 | DISC\_CODE | INTEGER |  |  |
| 8 | EIS\_PKGP | VARCHAR2(8) |  | V5000006 |
| 9 | EFFC\_DATE | DATE | 2/9/2016 | 7/9/2016 |
| 10 | EXPR\_DATE | DATE | 18/04/2018 | 19/02/2018 |
| 11 | STRT\_OFST\_UNIT | VARCHAR2(1) | M | M |
| 12 | END\_OFST\_UNIT | VARCHAR2(1) | M | M |
| 13 | STRT\_OFST\_PERD | INTEGER | 0 | 0 |
| 14 | END\_OFST\_PERD | INTEGER | 10 | 24 |
| 15 | STRT\_DATE | DATE |  |  |
| 16 | END\_DATE | DATE |  |  |
| 17 | CRLM\_AMNT | NUMBER(10,2) | 0 | 4000 |
| 18 | NEXT\_PACK\_CODE | VARCHAR2(8) |  | 11000216 |
| 19 | AUTH\_ALL\_HRDW | VARCHAR2(1) | 1 | 0 |
| 20 | AUTH\_ALL\_USER | VARCHAR2(1) | 0 | 1 |
| 21 | XTND\_CRLM\_AMNT | NUMBER(8,2) | 0 | 0 |
| 22 | EXPR\_ALL\_USER | VARCHAR2(1) | 1 | 0 |
| 23 | CUST\_PMTN\_CODE | INTEGER |  |  |
| 24 | ALLW\_COMP\_ONLY | VARCHAR2(1) | N | Y |
| 25 | CRTD\_DTTM | DATETIME | 8/30/2016 16:57 | 8/31/2016 16:57 |
| 26 | CRTD\_BY | VARCHAR2(12) | THAMMANOON | OSATSAWIN |
| 27 | LAST\_CHNG\_DTTM | DATETIME | 2/15/2018 16:12 | 2/16/2018 16:12 |
| 28 | LAST\_CHNG\_BY | VARCHAR2(12) | TRERAPAT | TRERAPAT |
| 29 | PACK\_CLAS | VARCHAR2(1) |  |  |
| 30 | PACK\_PDTP | VARCHAR2(3) |  |  |
| 31 | ALLW\_MNPI | VARCHAR2(1) | N | Y |
| 32 | BLOC\_MNPO\_PERD | INTEGER | 0 | 0 |
| 33 | OFFR\_ID | INTEGER | 30250073 | 12079241 |
| 34 | MRKT\_DESC\_ENG | VARCHAR2(60) | AccumRefill100B Free Internet7d\_FBLine30d10c | SMEnet i6\_i6P1699B,NetAlwaysOn 8GB,Free300min |
| 35 | MRKT\_DESC\_THA | VARCHAR2(60) | àµÔÁà§Ô¹¤Ãº100º.ÃÑº¿ÃÕ Inernet 300MB 7ÇÑ¹ FBLine 30 ÇÑ¹ | SMEnet i6\_i6P1699º.à¹çµµèÍà¹×èÍ§8GBâ·Ã 300¹Ò·Õ |
| 36 | MRKT\_DESC\_3 | VARCHAR2(350) | 100á€˜á€á€¹á€±á€„á€¼á€»á€–á€Šá€¹á‚”á€œá€½á€ºá€„á€¹á€¡á€„á€¹á€á€¬á€”á€€á€¹ 300MB 7á€›á€€á€¹á‚á€½á€„á€·á€¹ FBLine 30á€›á€€á€¹á€€á€­á€¯á€¡á€žá€¶á€¯á€¸á€»á€•á€³á‚á€¯á€­á€„á€¹á€žá€Šá€¹á‹ |  |
| 37 | MRKT\_DESC\_4 | VARCHAR2(350) | áž”áž‰áŸ’áž…áž¼áž›áž‚áŸ’ážšáž”áŸ‹ 100áž” áž áŸ’ážœáŸ’ážšáž¸ážŽáŸáž300MB7ážáŸ’áž„áŸƒFB Line30ážáŸ’áž„áŸƒ |  |
| 38 | MRKT\_DESC\_5 | VARCHAR2(350) | AccumRefill100B Free Internet7d\_FBLine30d10c |  |
| 39 | INVC\_DESC\_ENG | VARCHAR2(50) |  | SMEnet Phone package 1699Baht/month |
| 40 | INVC\_DESC\_THAI | VARCHAR2(50) |  | SMEnet Phone package 1699ºÒ·/à´×Í¹ |
| 41 | ESVC\_FLAG | VARCHAR2(1) | N | Y |
| 42 | PACK\_CATG | INTEGER |  |  |
| 43 | FMLY\_GRUP\_CODE | VARCHAR2(2) |  |  |
| 44 | PACK\_TYPE\_GRUP | VARCHAR2(3) |  |  |
| 45 | SRVC\_TYPE | VARCHAR2(2) |  |  |
| 46 | TIME\_TO\_TIME | VARCHAR2(1) | N | N |
| 47 | XTND\_BLDY | VARCHAR2(1) | N | N |
| 48 | ENOF\_PMTN | VARCHAR2(1) | N | N |
| 49 | PACK\_VALD\_MODE | INTEGER | 1 | 1 |
| 50 | IDD\_FLAG | VARCHAR2(1) | N | N |
| 51 | IDD\_MAX\_CNTY | INTEGER |  |  |
| 52 | SCND\_SIM\_FLAG | VARCHAR2(1) | Y | Y |
| 53 | SCND\_SIM\_NUMB | INTEGER | 0 | 0 |
| 54 | BLNC\_MSSG | VARCHAR2(1) |  | 1 |
| 55 | WARN\_SWOF\_PERD | INTEGER |  |  |
| 56 | INTR\_CAT\_CRLM | NUMBER(10,2) | 0 | 0 |
| 57 | INTR\_TOT\_CRLM | NUMBER(10,2) | 0 | 0 |
| 58 | INTR\_DTN\_CRLM | NUMBER(10,2) | 0 | 0 |
| 59 | INTR\_AIN\_CRLM | NUMBER(10,2) | 0 | 0 |
| 60 | INTR\_TMN\_CRLM | NUMBER(10,2) | 0 | 0 |
| 61 | PMTN\_CODE | VARCHAR2(8) |  |  |
| 62 | MAXM\_SUBR\_SHRE | INTEGER | 0 | 0 |
| 63 | ALLW\_D4U | VARCHAR2(1) | N | N |
| 64 | ALLW\_PERD | INTEGER |  |  |
| 65 | CHCK\_CNTR\_FLAG | VARCHAR2(1) | N | Y |
| 66 | ALLW\_DUPL | VARCHAR2(1) | N | N |
| 67 | BLOC\_CHNG\_MAIN | VARCHAR2(1) | N | N |
| 68 | ALLW\_CMP\_ONLY | VARCHAR2(1) | N | N |
| 69 | OVRL\_CLAS\_CNFL | VARCHAR2(1) | N | N |
| 70 | FINC\_PACK\_TYPE | VARCHAR2(2) |  |  |

##### DWO\_CCB\_CS\_SBSP\_PCN

Feed provides to store Suspend subscriber transaction

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| 1 | SEQN | INTEGER | 16764406 |
| 2 | CUST\_NUMB | INTEGER | 640507017 |
| 3 | SUBR\_NUMB | VARCHAR2(20) | 66620920110 |
| 4 | SPND\_RESN\_CODE | VARCHAR2(8) | 2350 |
| 5 | CRTD\_DTTM | DATETIME | 3/2/2019 6:15 |
| 6 | CRTD\_BY | VARCHAR2(12) | ONLINECBS |
| 7 | USSP\_DTTM | DATETIME | 7/17/2019 17:33 |
| 8 | USSP\_BY | VARCHAR2(12) | ONLINECBS |

##### DWO\_CCB\_CS\_SPKD\_PASS

Feed provides to store Prepaid one day package subscription

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | SEQN | INTEGER | 2188 |
| 2 | CUST\_NUMB | INTEGER | 1123777145 |
| 3 | SUBR\_NUMB | VARCHAR2(12) | 66992245110 |
| 4 | PACK\_CODE | VARCHAR2(8) | 21200081 |
| 5 | INTG\_ID | VARCHAR2(30) | US021200081\_10003858108 |
| 6 | PACK\_STRT\_DTTM | DATETIME | 7/10/2019 0:39 |
| 7 | PACK\_END\_DTTM | DATETIME | 7/11/2019 0:39 |
| 8 | CRTD\_DTTM | DATETIME | 7/10/2019 0:39 |
| 9 | CRTD\_BY | VARCHAR2(12) | ONLINECBS |
| 10 | LAST\_CHNG\_DTTM | DATETIME | 7/10/2019 0:39 |
| 11 | LAST\_CHNG\_BY | VARCHAR2(12) | ONLINECBS |

##### DWO\_CCB\_CS\_SPKD\_PCN

Feed provides to store Information about subscription package by subscriber

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | SEQN | INTEGER | 847240511 |
| 2 | CUST\_NUMB | INTEGER | 636104090 |
| 3 | SUBR\_NUMB | VARCHAR2(20) | 66620835850 |
| 4 | PKGP\_CODE | VARCHAR2(8) | 13004171 |
| 5 | PACK\_CODE | VARCHAR2(8) | 13004171 |
| 6 | PACK\_TYPE | VARCHAR2(2) | 10 |
| 7 | ARTM\_CODE | INTEGER | 7765 |
| 8 | DISC\_CODE | INTEGER |  |
| 9 | PACK\_STRT\_DTTM | DATETIME | 2/23/2018 16:25 |
| 10 | PACK\_END\_DTTM | VARCHAR2(19) |  |
| 11 | SWOF\_DTTM | DATETIME | 7/17/2019 3:01 |
| 12 | EXPR\_FLAG | VARCHAR2(2) | 1 |
| 13 | CRTD\_DTTM | DATETIME | 2/23/2018 16:25 |
| 14 | CRTD\_BY | VARCHAR2(12) | MOBRTR |
| 15 | LAST\_CHNG\_DTTM | DATETIME | 7/17/2019 3:01 |
| 16 | LAST\_CHNG\_BY | VARCHAR2(12) | BATCHSB |
| 17 | PROV\_STRT\_DTTM | DATETIME | 2/23/2018 16:25 |

##### DWO\_CCB\_CS\_SSVD\_PCN

Feed provides to store Service subscription status

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| 1 | SEQN | INTEGER | 319496153 |
| 2 | CUST\_NUMB | INTEGER | 638229717 |
| 3 | SUBR\_NUMB | VARCHAR2(12) | 66907268034 |
| 4 | SRVC\_CODE | VARCHAR2(10) | L219K00099 |
| 5 | SBSV\_VLUE | VARCHAR2(20) |  |
| 6 | ACTV\_FLAG | VARCHAR2(1) | 1 |
| 7 | CRTD\_DTTM | DATETIME | 12/27/2018 12:57 |
| 8 | CRTD\_BY | VARCHAR2(12) | USSD104 |
| 9 | LAST\_CHNG\_DTTM | DATETIME | 7/17/2019 9:55 |
| 10 | LAST\_CHNG\_BY | VARCHAR2(12) | USD103MM |

##### DWO\_CCB\_CS\_SUBR\_PCN

Feed provides to store Subscription profile

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | CUST\_NUMB | INTEGER | 603409306 |
| 2 | SUBR\_NUMB | VARCHAR2(20) | 66851514106 |
| 3 | BLPD\_CODE | VARCHAR2(2) | 2 |
| 4 | SUBR\_TYPE | VARCHAR2(1) |  |
| 5 | TELP\_TYPE | VARCHAR2(1) | T |
| 6 | TITL | VARCHAR2(40) | นาย |
| 7 | FRST\_NAME | VARCHAR2(80) | ยงศักดิ์ |
| 8 | LAST\_NAME | VARCHAR2(80) | วัฒนะชัยยศ |
| 9 | SUBR\_STTS | VARCHAR2(1) | O |
| 10 | FRST\_PKGP\_CODE | VARCHAR2(8) | 12045921 |
| 11 | PKGP\_STRT\_DATE | DATE | 13/02/2019 |
| 12 | NEW\_PPTY\_CODE | VARCHAR2(3) | 900 |
| 13 | DPST\_TXTP\_CODE | VARCHAR2(4) | 0 |
| 14 | CONX\_TXTP\_CODE | VARCHAR2(4) | 0 |
| 15 | TELP\_ALLC\_TYPE | VARCHAR2(1) | A |
| 16 | HRDW\_NUMB | VARCHAR2(20) | 353842084901832 |
| 17 | CARD\_NUMB | VARCHAR2(19) | 8966051307489400000 |
| 18 | SMS\_LANG | VARCHAR2(1) | T |
| 19 | DEAL\_NUMB | VARCHAR2(8) | 10201002 |
| 20 | SLMN\_CODE | VARCHAR2(5) | 24539 |
| 21 | AGMT\_CHCK\_FLAG | VARCHAR2(1) | N |
| 22 | AGMT\_CHCK\_DATE | DATE | 12/3/2011 |
| 23 | SWON\_DTTM | DATETIME | 9/17/2013 17:09 |
| 24 | SWON\_BY | VARCHAR2(12) | 38258R100 |
| 25 | SWON\_RESN\_CODE | VARCHAR2(8) | 11010006 |
| 26 | SWON\_AREA\_CODE | VARCHAR2(1) | 1 |
| 27 | SWOF\_DTTM | DATETIME | 7/17/2019 14:33 |
| 28 | SWOF\_BY | VARCHAR2(12) | 02202B105 |
| 29 | SWOF\_RESN\_CODE | VARCHAR2(8) | 9001 |
| 30 | RCNX\_RESN\_CODE | VARCHAR2(8) |  |
| 31 | LEAS\_CODE | VARCHAR2(5) |  |
| 32 | LEAS\_STRT\_DATE | DATE |  |
| 33 | LEAS\_EXPR\_DATE | DATE |  |
| 34 | LEAS\_ACEX\_DATE | DATE |  |
| 35 | PSWD\_FLAG | VARCHAR2(1) | 0 |
| 36 | PSWD | VARCHAR2(4) |  |
| 37 | MEMB\_ID | VARCHAR2(20) | 2758F91D |
| 38 | REMK | VARCHAR2(500) | CG: Approved CI: Approved |
| 39 | RCNX\_PAID\_FLAG | VARCHAR2(1) | 0 |
| 40 | STOP\_BILL\_FLAG | VARCHAR2(1) | 0 |
| 41 | RFND\_DTTM | VARCHAR2(19) |  |
| 42 | OLD\_CUST\_NUMB | INTEGER | 536639247 |
| 43 | OLD\_SUBR\_NUMB | VARCHAR2(20) | 66851514106 |
| 44 | NEW\_CUST\_NUMB | INTEGER | 650771934 |
| 45 | NEW\_SUBR\_NUMB | VARCHAR2(20) | 66851514106 |
| 46 | LAST\_CHNG\_DTTM | DATETIME | 7/17/2019 14:33 |
| 47 | LAST\_CHNG\_BY | VARCHAR2(12) | 02202B105 |
| 48 | ID\_TYPE | VARCHAR2(2) |  |
| 49 | ID\_NUMB | VARCHAR2(20) |  |
| 50 | GNDR | VARCHAR2(1) |  |
| 51 | OCCP\_CODE | VARCHAR2(3) |  |
| 52 | MARL\_STTS | VARCHAR2(1) |  |
| 53 | SALR\_LEVL | VARCHAR2(1) |  |
| 54 | EDUC\_LEVL | INTEGER |  |
| 55 | EMAL\_ADDR | VARCHAR2(40) |  |
| 56 | IVR\_LANG | VARCHAR2(1) | T |
| 57 | USSD\_LANG | VARCHAR2(1) | E |
| 58 | FROM\_OPTR\_CODE | VARCHAR2(5) |  |
| 59 | MNPI\_STTS | VARCHAR2(1) |  |
| 60 | MNPO\_STTS | VARCHAR2(1) |  |
| 61 | CHWR\_CONT\_AOU | VARCHAR2(1) | 0 |
| 62 | CC\_LANG | VARCHAR2(2) | 1 |

##### DWO\_CCB\_RD\_CARD

Feed provides to store SIM card information (card number & IMSI)

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | CARD\_NUMB | VARCHAR2(19) | 8966180911223480000 |
| 2 | IMSI\_NUMB | VARCHAR2(15) | 520050801492690 |
| 3 | LIVE\_FLAG | VARCHAR2(1) | D |
| 4 | ALLC\_TYPE | VARCHAR2(1) | A |
| 5 | DEAL\_NUMB | VARCHAR2(8) | 14662002 |
| 6 | CARD\_STTS | VARCHAR2(2) | 10 |
| 7 | CARD\_TYPE | VARCHAR2(2) | WD |
| 8 | CARD\_STYL | VARCHAR2(2) | 28 |
| 9 | CARD\_SRVC | VARCHAR2(3) | 0 |
| 10 | PIN\_NUMB\_1 | VARCHAR2(8) | 18000000 |
| 11 | PIN\_NUMB\_2 | VARCHAR2(8) | 18000000 |
| 12 | PUK\_NUMB\_1 | VARCHAR2(8) | 38366673 |
| 13 | PUK\_NUMB\_2 | VARCHAR2(8) | 38366673 |
| 14 | BTCH\_NUMB | VARCHAR2(7) | 69227 |
| 15 | CRTD\_DTTM | DATETIME | 12/2/2009 15:45 |
| 16 | CRTD\_BY | VARCHAR2(12) | ATTHAPOR |
| 17 | LAST\_CHNG\_DTTM | DATETIME | 7/17/2019 13:19 |
| 18 | LAST\_CHNG\_BY | VARCHAR2(12) | 03018AA103 |
| 19 | DMMY\_FLAG | VARCHAR2(1) | Y |
| 20 | ENCP\_KI | VARCHAR2(32) | 1A6852C37D9E0941F62D8AD0E870987D |

##### DWO\_CCB\_RD\_TELP

Feed provides to store mobile number information

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | TELP\_NUMB | VARCHAR2(20) | 66851604058 |
| 2 | BLPD\_CODE | VARCHAR2(2) | 2 |
| 3 | IMSI\_GRUP | INTEGER | 7008 |
| 4 | AREA\_CODE | VARCHAR2(1) | 1 |
| 5 | ALLC\_TYPE | VARCHAR2(1) | A |
| 6 | BRNC\_CODE | VARCHAR2(2) | 10 |
| 7 | DEAL\_NUMB | VARCHAR2(8) | 13518002 |
| 8 | GOLD\_TYPE | VARCHAR2(8) |  |
| 9 | SPCL\_TYPE | VARCHAR2(5) | Y1 |
| 10 | LIVE\_FLAG | VARCHAR2(1) | Y |
| 11 | RESV\_FLAG | VARCHAR2(1) | 2 |
| 12 | CARD\_NUMB | VARCHAR2(19) | 8966051901413510000 |
| 13 | TELP\_TYPE | VARCHAR2(3) | PRE |
| 14 | SWOF\_DATE | DATE |  |
| 15 | LOAD\_INDC | VARCHAR2(1) | 0 |
| 16 | USED\_FLAG | VARCHAR2(1) | 1 |
| 17 | ASGN\_RESN\_CODE | VARCHAR2(2) | 0 |
| 18 | RETN\_FLAG | VARCHAR2(1) | Y |
| 19 | CRTD\_DTTM | DATETIME | 2/11/2003 20:00 |
| 20 | CRTD\_BY | VARCHAR2(12) | ATTHAPOC |
| 21 | LAST\_CHNG\_DTTM | DATETIME | 7/17/2019 13:29 |
| 22 | LAST\_CHNG\_BY | VARCHAR2(12) | 05018AA104 |
| 23 | DTAC\_FLAG | VARCHAR2(1) | Y |
| 24 | ALLW\_RUSE | VARCHAR2(1) | Y |
| 25 | DEL\_FLAG | VARCHAR2(1) | 20 |
| 26 | COMP\_CODE | VARCHAR2(2) | DTN |
| 27 | NETW\_TYPE | VARCHAR2(10) |  |

##### DIM\_CCB\_CS\_GRUP\_PACK

Feed provides to store package subscription history in corporate group code level information

| **S.NO** | **Field Name** | **Data Type** | **Sample Values** |
| --- | --- | --- | --- |
| 1 | SEQN | INTEGER | 1 |
| 2 | GRUP\_CODE | VARCHAR2(4) | 2598 |
| 3 | PACK\_CODE | VARCHAR2(8) | 82000015 |
| 4 | PACK\_TYPE | VARCHAR2(2) | 82 |
| 5 | PACK\_STRT\_DTTM | DATETIME | 2003-05-20 09:15:11 |
| 6 | PACK\_END\_DTTM | DATETIME | 2003-05-20 09:15:11 |
| 7 | PROV\_STRT\_DTTM | DATETIME | 2003-05-20 09:15:11 |
| 8 | INIT\_END\_DTTM | DATETIME | 2003-05-20 09:15:11 |
| 9 | CRTD\_DTTM | DATETIME | 2015-01-20 22:04:10 |
| 10 | CRTD\_BY | VARCHAR2(12) | MIGRATECBS |
| 11 | LAST\_CHNG\_DTTM | DATETIME | 2015-01-20 22:04:10 |
| 12 | LAST\_CHNG\_BY | VARCHAR2(12) | MIGRATECBS |

### Control Feed - Record Format

Following are the mapping of Raw data file and Feed control file with Feed structure for CCB feeds.

| **Feed data file** | **Feed control file** | **Control File Format** |
| --- | --- | --- |
| ah\_hist\_00\_01.dat | ah\_hist\_00\_01.ctl | 2 |
| cs\_csad\_00\_01.dat | cs\_csad\_00\_01.ctl | 2 |
| cs\_cust\_00\_01.dat | cs\_cust\_00\_01.ctl | 2 |
| cs\_sbsp\_pcn\_\*\_01.dat | cs\_sbsp\_pcn\_\*\_01.ctl | 2 |
| cs\_spkd\_pcn\_\*\_01.dat | cs\_spkd\_pcn\_\*\_01.ctl | 2 |
| cs\_ssvd\_pcn\_\*\_01.dat | cs\_ssvd\_pcn\_\*\_01.ctl | 2 |
| cs\_subr\_pcn\_\*\_01.dat | cs\_subr\_pcn\_\*\_01.ctl | 2 |
| rd\_card\_00\_01.dat | rd\_card\_00\_01.ctl | 2 |
| rd\_telp\_00\_01.dat | rd\_telp\_00\_01.ctl | 2 |
| cs\_corp\_mast.dat | cs\_corp\_mast.log | 3 |
| cs\_cust\_pmtn.dat | cs\_cust\_pmtn.log | 3 |
| cs\_dual\_addr.dat | cs\_dual\_addr.log | 3 |
| cs\_dual\_detl.dat | cs\_dual\_detl.log | 3 |
| cs\_dual\_mast.dat | cs\_dual\_mast.log | 3 |
| cs\_pkgp\_pcn.dat | cs\_pkgp\_pcn.log | 3 |
| cs\_pkpl\_pcn.dat | cs\_pkpl\_pcn.log | 3 |
| cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | cs\_spkd\_pass\_06\_01.ctl | 2 |

There are two type of control file structure being used on CCB feeds as mentioned above

* Sample structure for Type # 2 of the control files-

|  |  |
| --- | --- |
| Key | Value |
| SRCSYSTEM | CCB |
| SRCHOSTNAME | nebula2 |
| SRCOBJNAME | oltp.cs\_spkd\_pass\_06 |
| FILENUM | 1 |
| TOTALFILE | 1 |
| DATFILENROWS | 235 |
| DATFILESIZE | 37940 |
| DATFILE | /PROD/EDW/SRC\_DATA/CCB/CS/20190808/cs\_spkd\_pass\_06\_01.dat |
| CTLFILE | /PROD/EDW/SRC\_DATA/CCB/CS/20190808/LOG/cs\_spkd\_pass\_06\_01.ctl |
| DATADATE | 20190808 |
| STARTDTTM | 20190809 |
| FINISHDTTM | 20190809 |
| CHECKSUM | N/A |

* Sample structure for Type # 3 of the control files-

20190807000511 cs\_corp\_mast ==> 19979589 bytes unloaded 130173 records detected 0 errors

### Privacy Columns/Business Rules

No data filtration and no exception handling for any columns. Direct one to one mapping and loading to ODS. Surrogate key will be generated only for MSISDN.

Only following type of fields will be encrypted while loading to ODS tables.

* Group 1 - MSISDN / Subscriber Number /Phone no /Fax No
* Group 2 - IMSI\_IMEI
* Group 3 - ADDRESS
* Group 4 - Name
* Group 5 – ID Key
* Group 6 - Email
* Group 7 - Credit Card Number
* Group 8 - Bank Account ID

Attached excel contains CCB feed wise consolidations



# Interface SLAs & Methods

## 4.1 Availability

CCB related transaction and master data will be pulled daily once into AEP landing server from EDW- Landing server - nassnk02. Schedule time is mentioned in the below table

| **#** | **Feed Name** | **File Name** | **Scheduling Time** | **AEP Landing path - Data files** | **AEP Landing path - Control files** |
| --- | --- | --- | --- | --- | --- |
| 1 | ah\_hist | ah\_hist\_00\_01.dat | 12:50:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 2 | cs\_corp\_mast | cs\_corp\_mast.dat | 1:55:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 3 | cs\_csad | cs\_csad\_00\_01.dat | 12:50:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 4 | cs\_cust | cs\_cust\_00\_01.dat | 12:50:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 5 | cs\_cust\_pmtn | cs\_cust\_pmtn.dat | 1:00:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 6 | cs\_dual\_addr | cs\_dual\_addr.dat | 1:55:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 7 | cs\_dual\_detl | cs\_dual\_detl.dat | 12:30:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 8 | cs\_dual\_mast | cs\_dual\_mast.dat | 12:30:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 9 | cs\_pkgp\_pcn | cs\_pkgp\_pcn.dat | 12:30:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 10 | cs\_pkpl\_pcn | cs\_pkpl\_pcn.dat | 12:30:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 11 | cs\_sbsp\_pcn | cs\_sbsp\_pcn\_\*\_01.dat | 1:15:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 12 | cs\_spkd\_pass\_[00-09] | cs\_spkd\_pass\_[0-9][0-9]\_[0-1][0-2].dat | 1:00:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 13 | cs\_spkd\_pcn | cs\_spkd\_pcn\_\*\_01.dat | 12:50:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 14 | cs\_ssvd\_pcn\_[00-09] | cs\_ssvd\_pcn\_\*\_01.dat | 1:15:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 15 | cs\_subr\_pcn | cs\_subr\_pcn\_\*\_01.dat | 1:00:00 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/LOG/ |
| 16 | rd\_card | rd\_card\_00\_01.dat | 12:50:00 AM | /<root>/SRC\_DATA/CCB/RD/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/RD/<YYYYMMDD>/LOG/ |
| 17 | rd\_telp | rd\_telp\_00\_01.dat | 1:00:00 AM | /<root>/SRC\_DATA/CCB/RD/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/RD/<YYYYMMDD>/LOG/ |
| 18 | cs\_grup\_pack | cs\_grup\_pack\_\*.dat | 2:00:12 AM | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ | /<root>/SRC\_DATA/CCB/CS/<YYYYMMDD>/ |

## 4.2 File Validation

* Following are the high-level validations being performed on master and transaction data feeds -

1. Orphan File check
2. Duplicate file check
3. Zero byte check
4. Header and Trailer
5. Record Count
6. Delimiter check
7. MD5 file checksum check (Not applicable for CCB)

### 4.2.1 Duplicate File Check

If the same file is received at AEP landing area for the same day, the process has to mark it duplicate (FileName\_Duplicate.dat) and reject the file.

* Audit table will record name of each file. Compare the file name with previous 30 days filename (configurable), to identify duplicate files.
* Alerts for Duplicate file name to Source system owner over the email once a day (configurable).
* Move duplicate files in reject folder

### 4.2.2 Missing file from Source

An alert will be send to source owner if file is not received in given time frame.

In case of files which are coming in sequence and there is a sequence missing in file, an alert will be sent for missing file sequence.

Email Notification for missing file has been shared by DTAC as per below template



PS: Please refer Sec – 5 Appendix for email attachment.

### 4.2.3 Missing records or Incomplete File

Reconciliation can be done with source system as able to validate between feed file and control file available with every feed. Reconciliation can also be done based on source file wise count and the data loaded to ODS. Source owners will be notified in case of any anomalies.

### 4.2.4 Alerts

An alert mechanism will be in place to notify source and business owners in case of deviation from processes.

An Email will be triggered to source owners when

* Less number of Files received in expected time.
* When Files will be pushed to rejected folder.

\*\*A Governance process will be set to address any issues in the file transfer process including manual intervention when necessary.

**Action to be taken by source owner after alert - Once Notification alert is sent, Source owner should check and resend the correct data within 4 hours after the receipt of alert.**

**Sample Email Content for Missing file :-**

|  |  |  |
| --- | --- | --- |
| Source System | Source Feed | File Name |
| CCB | ah\_hist | ah\_hist\_00\_01.dat |

**For respective list of Feed wise file name refer to section 3.1.1**

**Sample Email Content for Reject file :-**

|  |  |  |  |
| --- | --- | --- | --- |
| Source System | Source Feed | File Name | Reject Reason |
| CCB | ah\_hist | ah\_hist\_00\_01.dat | Name of file is not correct |

**For respective list of Feed wise file name refer to section 3.1.1**

**Sample Email for Less number of files.**

|  |  |  |  |
| --- | --- | --- | --- |
| Source System | Source Feed | Previous Day File Count | Today’s File Count |
| CCB | ah\_hist | 2 | 1 |

**For respective list of Feed wise file name refer to section 3.1.1**

### 4.2.5 Invalid file format

Files which don’t follow standards of file naming convention will be rejected. For example

* File name should exactly match with the name specified in sec 3.1.1.
* File should always have the .dat extension. Rest all other files with different extension will be rejected.

Refer the extension specified in sec 3.1.1.

### 4.2.6 Erroneous data

In case of any mandatory field missing, datatype mismatch, record separator is not proper, junk VARCHAR2 coming in any field or file name is wrong, then file will not be processed. In such a case notification to be sent for error file and source system need to correct the file and push the correct file into AEP landing path.

## 4.3 Source System Changes

In case of any changes in file format or data format, Source team will inform team well in advance. Any new column addition or changes in existing feed format will be considered as Change Request.

Guidelines for adding new columns are as follows:

**Addition/modification/deletion of columns in file:**

1. When new columns added after registered\* columns in the file. File handling process will ignore the newly added columns (until the columns are registered in the metadata table for that file ). File will not be rejected by the processes; however, these columns will be ignored for processing.
2. If columns are added in between registered\* columns the file will be rejected.
3. If number of columns received are lesser than registered\* columns the file will be rejected.

## 4.4 Unable to Collect or receive files from source

If the files are not received, then after one hour<configurable> auto email alert will be sent to the source system owner.

## 4.5 Unavailability of Data Collection & Integration Layer

In case of unavailability of Data Collection and Integration layer, AEP landing server will keep the files until Data Collection and Integration layer is restored.

However, in case of capacity issues DTAC will notify source owners, to stop pushing files to AEP landing area and manage the files at source end until normalcy is restored.

## 4.6 Data Quality and Timeliness

It would be responsibility of CCB team to have some files/data level checks before files are made available Platform Consumption. Source system team will inform in case there is any issues in CCB provided files.

## 4.7 Exception Handling

Exception handling is subject to scenarios. Different scenarios will be handled differently:

All such files those are required to be reprocessed will be kept in the same source folder from where files are to be collected.

For source files which do not have datetimestamp, duplicate file identification will not be possible. In such case if source push the file twice then the previous file will get overridden and latest overridden file will be processed.  
  
For re-processing of a file which has already been processed and data loaded into tables in such a case we will delete / unload the data from tables by identifying the data based on FILE\_ID and LOAD\_DATE.  
  
In case the file gets pushed with different name then notification via email / or on call will be sent so that the file can be considered for re-processing.

# Appendix



### Email Notification for missing file:

