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Integration Design & Specification

Module: Integration with Surroundings

**Integration with HADOOP**

Version 1.7\_draft

September 2, 2020

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This document outlines the interface specification for integration

# VERSION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| VER | DATE | CHANGE | BY |
| 1.7 | 02/09/2020 | Interface SIM Selling Outlet with High Value Customer new interface (CR#20456-01) | Romet Roosalu |
| 1.6 | 01/09/2020 | Interface INTHDP005 - RGU-GA with Injection 7K updated, adding field “CLUSTER” (CR#19760) | Parthipan Rajagopal |
| 1.5 | 08/07/2020 | New Interface “Outlet Starter-Pack Tagging (INTHDP019)” added (CR#18853) | Parthipan Rajagopal |
| 1.4 | 22/06/2020 | Low revenue site CATEGORY field updated | Parthipan Rajagopal |
| 1.3 | 10/06/2020 | Based on SIT Run01 feedback next changes implemented:  1. Sales Territory hierarchy refence code change to Sales Territory Description  2. Some Mandatory fields changed as Non-Mandatory | Parthipan Rajagopal |
| 1.2 | 28/05/2020 | File naming harmonized with folder name | Romet Roosalu |
| 1.1 | 27/05/2020 | 1. Tertiary Sales (INTHDP006) data period changed from D-9 to D-2 (7D) to D-8 to D-1  2. Organization MOBO Balance (INTHDP007) data period changed from D-9 to D-2 (7D) to D-1 | Parthipan Rajagopal |
| 1.0 | 19/05/2020 | Circulated for sign-off/approve | Romet Roosalu |
| 0.5 | 15/05/2020 | New interface introduced INTHDP018- Stock Taking Activity | Parthipan Rajagopal |
| 0.4 | 13/05/2020 | Interface “Cross selling cluster reload (INTHDP013)” updated, additional field CATEGORY and CLUSTER\_TYPE introduced | Parthipan Rajagopal |
| 0.3 | 13/05/2020 | Changes as per discussion on conf-call | Parthipan Rajagopal |
| 0.2 | 12/05/2020 | Formatting changes & 1st Draft to review | Romet Roosalu |
| 0.1 | 08/05/2020 | Creating of document | Parthipan Rajagopal |

# INTEGRATION SPECIFICATION

## Interfaces

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NO | ID | INTERFACE NAME | FREQUENCY | PERIOD | DIRECTION |
|  | INTHDP001 | Site Mapping | DAILY 2 AM | SNAPSHOT | HDP > MOBII |
|  | INTHDP002 | Primary MOBO | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP003 | Secondary MOBO | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP004 | Daily SIM Selling Outlet (SSO) | DAILY 2 AM | MTD-2 | HDP > MOBII |
|  | INTHDP005 | RGU-GA with Injection 7K | DAILY 2 AM | MTD-2 | HDP > MOBII |
|  | INTHDP006 | Tertiary Sales | DAILY 2 AM | D-8 to D-1 (7D) | HDP > MOBII |
|  | INTHDP007 | Organization MOBO Balance | DAILY 2 AM | D-1 | HDP > MOBII |
|  | INTHDP008 | Prepaid Service Revenue | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP009 | MOBO Usage Revenue | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP010 | Acquisition Revenue | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP011 | Low revenue Sites | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP012 | Sites with RGU-GA | DAILY 2 AM | MTD-2 | HDP > MOBII |
|  | INTHDP013 | Cross Selling Cluster Reload | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP014 | Cross Selling Area Data Package | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP015 | Outlet Program Achiever | DAILY 2 AM | MTD-2 | HDP > MOBII |
|  | INTHDP016 | Onetime Allocation Payment | DAILY 2 AM | MTD-2 | HDP > MOBII |
|  | INTHDP017 | URO 20K | DAILY 2 AM | D-9 to D-2 (7D) | HDP > MOBII |
|  | INTHDP018 | Stock Taking Activity | DAILY 2 AM | D-1 | MOBII > HDP |
|  | INTHDP019 | Outlet Starter-Pack Tagging | DAILY 2 AM | MTD-2 | HDP > MOBII |
|  | INTHDP020 | SIM Selling Outlet with High Value Customer | DAILY 2 AM | Add | HDP > MOBII |

## Application

|  |  |  |  |
| --- | --- | --- | --- |
| ENVIRONMENT | LOCATION | IP | LOGICAL SERVER NAME |
| Production | Client Network DC1 | 10.34.19.136 – PROD  10.34.45.198 – SIT  10.34.45.201 – UAT  10.34.45.204 – Pre-PROD | Batch Servers |

## Sub-Systems

|  |  |  |  |
| --- | --- | --- | --- |
| ENVIRONMENT | LOCATION | IP | LOGICAL SERVER NAME |
| Production | Client Network DC1 | 10.34.163.\* (Subnet mask) | N/A |

## Authentication

### Protocol

Offline files transferred using SFTP access. All incoming files must be copied to agreed server path. Server access details will be communicated with team before deployment. SFTP access (port 22) between system must be enabled by Indosat Infra team.

### Authentication

Next user is created in MOBII for HADOOP to copy files:

Servers: 10.34.19.136

Username: hdpuser

Password: *<shared privately>*

Next user is created in HADOOP for MOBII to copy files:

Servers: 10.34.163.116

Username: mobii

Password: *<shared privately>*

# STANDARDS

## MOBII Offline Data Feed syncronization

MOBII follows ASCII file interface for offline file integration. MOBII always follows few standards for its offline file integration with surrounding system the same is described as follows,

* Offline file has the format of ASCII text file and one record per line.
* First line of record is reserved for header. Even if there are no records available, still the file must be shared with Destination System including just the header.
* Initiator System copy (push) files to the Destination System corresponding SFTP server path.
* Two files are generated and shared for each interface. One file is called Actual (A) file, and it contains the actual records. Second file is called Control File (CTL) and it contains Meta Data information about Actual (A) file (for file contents please refer next section).
* Fields delimiter, for Actual file is pipe – '|'
* Only agreed file names will be considered from SFTP path. Other files will not be considered for processing and will be delete from SFTP path without informing anyone.

### Control file

MOBII accept the offline files only along with control file, this file needs to be generated for every sync file. Control file contains below details with <TAB> delimiter.

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| Sync file gen Date | Yes | Date Time | Date of file generated. In the format YYYY-MM-DD HH:MM:SS in 24 hour format |
| Number of Row in Sync File | Yes | Number | Number of rows in the .csv file including header. |
| Size | Yes | Number | Sync file size in bytes |
| Hash Key | Yes | String | MD5 hash key of sync .csv file. /usr/bin/md5sum UNIX command will be used to generate the key. |
| Sync File name | Yes | String | File name of dump/sync file. |

* Both Control file and Actual file names must be same and only file extension will be different.
* Source System must copy the Actual (A) file first to the SFTP path and then Control (CTL) file. When MOBII transfer the files from SFTP path to processing folder it searches first the Control (CTL) and then Actual (A) file.
* MOBII will generate the MD5 hash key for Actual (A) file and compare this key with Control (CTL) file key, additionally it will validate with file size and number of rows between Actual and Control file specification. If any mismatch identified, then those file statuses will be changed to rejected and notified to MOBII support for further action.

|  |  |
| --- | --- |
| Actual File | Control File |
|  |  |

### Sync frequency

|  |  |
| --- | --- |
| Frequency | Description |
| Monthly | File shared to MOBII SFTP once in a month |
| Weekly | File shared to MOBII SFTP once in a week |
| Daily | File shared to MOBII SFTP once in a day |
| Hourly | File shared to MOBII SFTP every hour |

### Data processing frequency

|  |  |
| --- | --- |
| Frequency | Description |
| M | Referred for Month (M-1 is considered previous month) |
| W | Referred for Week (W-1 is considered previous week) |
| D | Referred for Date (D-1 is considered as yesterday) |

### MOBII record level processing

1. MOBII processes Actual (A) file, validating data on record level. If there are record level rejection while processing, System shall process all success records & generate rejected file for all rejected records with reason of rejection & copy this file to rejected folder path. System shall also send mail to operations team for intimation of rejected files.
2. Both rejected and actual files are moved to backup and available to download from MOBII web UI for a period after that that it will be deleted from system.
3. All files (control, actual, rejected actual and rejected control) will be zipped (.gz format) & pushed to SFTP/FTP server. MD5 key will be generated before zipped.
4. Below status will be maintained for each file in MOBII:
   1. File Received
   2. File Processed
   3. File Completed
   4. File Rejected
   5. File Partially Rejected

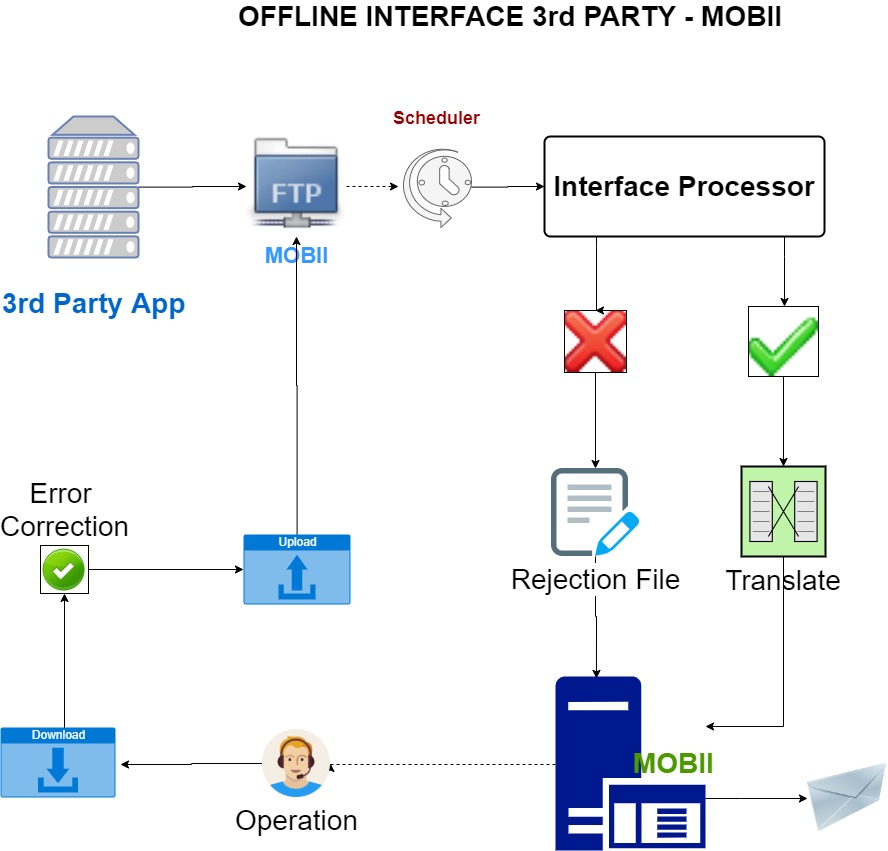
### File Rejection reasons

1. If generated MD5 hash key does not match or other values from control file does not match.
2. During file processing, if file is not as per expected format.
3. Columns missing in file (Heading level validation first row).

### Record rejection reasons

1. During file processing, if any record is rejected, all records will be processed except the erroneous one.
2. Such rejected records details will be collected in separate file and would be pushed to FTP path & alert will be sending to operation team on email. User needs to download and correct such records & upload it back to MOBII again
3. Common cases for record rejection:
   1. Reference data not existing in system
   2. Product ID does not exist in system
   3. Org code does not exist in system
4. All dependent transactions related to error record will also get rejected.

### Process flowchart



# INTERFACES

## SITE MAPPING (INTHDP001)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| INITIATOR SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | Snapshot |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP system will generate a daily file for latest site mapping snapshot information.
2. MOBII use this mapped file to identify the corresponding sales territory from various other interfaces which supplies data based on site id.
3. File name must include prepared date with time, (current date with time)
4. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
5. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All sales territory ids must be pre-created in MOBII.

### Post-conditions

1. If MOBII has given SITE ID and there is no change with mapping it skips the row.
2. If MOBII has given SITE ID and there are changes in with mapping, then it replaces the mapping in system and stores the modified date.
3. If MOBII is not having given SITE ID then it will create a new record for it.

### File naming

site\_mapping\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *site\_mapping\_20200203013512.csv.gz*
* Sample Control File Name is *site\_mapping\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/site\_mapping/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/site\_mapping/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/site\_mapping/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/site\_mapping/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/site\_mapping/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Site mapping date with sales territory |
| SITE\_ID | Yes | String | Unique reference code for site reference |
| LONGITUDE | Yes | Decimal (2) | Site location longitude (Max 15 decimal points are allowed) |
| LATITUDE | Yes | Decimal (2) | Site location latitude (Max 15 decimal points are allowed) |
| MICRO\_CLUSTER | Yes | String | Micro cluster description from sales territory |
| SALES\_CLUSTER | Yes | String | Cluster description from sales territory |
| SALES\_AREA | Yes | String | Sales area description from sales territory |
| AREA | Yes | String | Area description from sales territory |
| REGION | Yes | String | Region description from sales territory |
| JAVA\_NONJAVA | Yes | String | Region classification type |
| SITE\_NAME | Yes | String | Site name for reference |
| SITE\_POPULATION | Yes | Number | No of subscribers linked with this SITE. |

**Example:**

|  |
| --- |
| DATE|SITE\_ID|LONGITUDE|LATITUDE|MICRO\_CLUSTER|SALES\_CLUSTER|SALES\_AREA|AREA|REGION|JAVA\_NONJAVA|SITE\_NAME|SITE\_POPULATION  20200506|01COW015|106.78437|-6.28178|MC-KEBAYORAN|JB-JAK-JAKARTA SELATAN|SOUTH JAKARTA|JAKARTA|Jabotabek|JAVA|M\_LAP\_TNS\_PI|12345  20200506|01JKB006|106.76925|-6.197|MC-KEBON JERUK-KEMBANGAN|JB-JAK-JAKARTA BARAT|WEST JAKARTA|JAKARTA|Jabotabek|JAVA|POLIYAMA|76543 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|SITE\_ID|LONGITUDE|LATITUDE|MICRO\_CLUSTER|SALES\_CLUSTER|SALES\_AREA|AREA|REGION|JAVA\_NONJAVA|SITE\_NAME|SITE\_POPULATION|ERROR\_CODE|ERROR\_MESSAGE  20200506||106.78437|-6.28178|MC-KEBAYORAN|JB-JAK-JAKARTA SELATAN|SOUTH JAKARTA|JAKARTA|Jabotabek|JAVA|M\_LAP\_TNS\_PI|12345|1001|Mandatory field SITE\_ID is missing  20200506|01JKB006|106.76925|-6.197|MC-KEBON JERUK-KEMBANGAN|JB-JAK-JAKARTA BARAT|WEST JAKARTA|JAKARTA|Jabotabek|JAVA|POLIYAMA|76543|Given MICRO\_CLUSTER id is not existing in MOBII |

## PRIMARY MOBO (INTHDP002)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | MOBO |

### Context goal

1. HADOOP system will generate a daily file for MOBO balance allocation from Indosat to MPC wallet.
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same allocation date and MPC code in latest file it will replace the previously stored transaction value.
4. HADOOP must accumulate the amount based on date and MPC code. If MOBII found same allocation date and MPC code within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for standard report data view and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All MPC ids must be pre-created in MOBII.

### Post-conditions

1. Accumulated MOBO amount for each MPC can be viewed in standard report dashboard.

### File naming

primary\_mobo\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *primary\_mobo\_20200203013512.csv.gz*
* Sample Control File Name is *primary\_mobo\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/primary\_mobo/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/primary\_mobo/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/primary\_mobo/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/primary\_mobo/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/primary\_mobo/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| MPC\_CODE | Yes | String | MPC reference code |
| MOBO\_DATE | Yes | Date – YYYYMMDD | MOBO allocation date |
| AMOUNT | Yes | Decimal (2) | Accumulated amount for the given date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| MPC\_CODE|MOBO\_DATE|AMOUNT  D3070027|20200427|150000000  D30161|20200427|1000000000 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| MPC\_CODE|MOBO\_DATE|AMOUNT|ERROR\_CODE|ERROR\_MESSAGE  D3070027|20200427|150000000|1001|Mandatory Field MPC\_CODE is missing  D30161|20200427|1000000000|1002|Given MPC\_CODE is not available in system |

## SECONDARY MOBO (INTHDP003)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | MOBO |

### Context goal

1. HADOOP system will generate a daily file for MOBO balance injection from MPC wallet to Outlet wallet. This includes direct allocation from MPC login using MOBO and allocation by CSO using MOBII and other channels (if any).
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE, MPC\_CODE and ORGANIZATION\_ID in latest file it will replace the previously stored transaction value.
4. HADOOP must accumulate the amount based on date and MPC\_CODE and ORGANIZATION\_ID. If MOBII found same DATE, MPC\_CODE and ORGANIZATION\_ID within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for CSO incentive calculation and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All MPC and ORGANIZATION\_ID must be pre-created in MOBII.

### Post-conditions

1. MOBO value will be stored against outlet based on given organization id.
2. Based on organization id CSO will be identified using operator mapping and used for incentive calculation.

### File naming

secondary\_mobo\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *secondary\_mobo\_20200203013512.csv.gz*
* Sample Control File Name is *secondary\_mobo\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/secondary\_mobo/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/secondary\_mobo/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/secondary\_mobo/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/secondary\_mobo/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/secondary\_mobo/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| MPC\_CODE | Yes | String | MPC reference code |
| DATE | Yes | Date – YYYYMMDD | MOBO Sell-in date |
| ORGANIZATION\_ID | Yes | String | Unique outlet reference code |
| DEALER\_MSISDN | No | String | Outlet SaldoMOBO MSISDN number |
| AMOUNT | Yes | Decimal (2) | Accumulated Sell-in amount for the given date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| MPC\_CODE|DATE|ORGANIZATION\_ID|DEALER\_MSISDN|AMOUNT  D1032952|20200427|17236904|6285763469133|700000.0  D3070004|20200427|1303205|6281558718848|35000.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| MPC\_CODE|DATE|ORGANIZATION\_ID|DEALER\_MSISDN|AMOUNT|ERROR\_CODE|ERROR\_MESSAGE  D1032952|20200427|17236904|6285763469133|700000.0|1001|Mandatory Field MPC\_CODE is missing  D3070004|20200427|1303205|6281558718848|35000.0|1002|Given MPC\_CODE is not available in system |

## DAILY-SSO (INTHDP004)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | MTD-2 |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. # of outlet that daily injected reload or data package to New SP in M0 or M-1

Includes all outlet (both FISIK and NON-FISIK)

Based on favorite location (Site Wise)

Reload/Data voucher redemption to new SP is also part of DSSO.

1. This file contains data from month start date to D-2. This means when MOBII receive file in his SFTP path on 01-May-2020 (20200501), file name contains date 01-May-2020 (20200501) and inside file injection date from 20200401 from 20200429.
2. MOBII always consider latest processed file records, when MOBII receive same DATE and ID\_OUTLET in latest file it will replace the previously stored transaction value.
3. If MOBII found any duplicate row (DATE|MICRO|SITE\_ID|ID\_OUTLET) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
4. This file data is used for MPC/CSO incentive calculation, standard report view and if required can also be used other functions from upcoming change request.
5. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
6. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All ID\_OUTLET, SITE\_ID and MICRO must be pre-created in MOBII.

### Post-conditions

1. Given injection qty value will be stored in MOBII.

### File naming

d\_sso\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *d\_sso\_20200203013512.csv.gz*
* Sample Control File Name is *d\_sso\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/d\_sso/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/d\_sso/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/d\_sso/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/d\_sso/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/d\_sso/

### Data feed fields

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Field | Mandatory | Data Type | Description |
| 1 | DATE | Yes | Date – YYYYMMDD | Injection to new SP date |
| 2 | MICRO | Yes | String | Unique micro cluster description |
| 3 | SITE\_ID | Yes | String | Unique site reference code |
| 4 | ID\_OUTLET | Yes | String | Outlet unique reference code |
| 5 | QTY | Yes | Number | Accumulated injected new SP quantity for the given date |
| 5 | AMOUNT | Yes | Decimal (2) | Accumulated injection amount to new SP for the given date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|ID\_OUTLET|QTY|AMOUNT  20200430|MC-TABANAN|21TAB045|17113972|56.0|442000.0  20200427|MC-WONOGIRI|14WNG030|17126980|4.0|100000.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|ID\_OUTLET|QTY|AMOUNT |ERROR\_CODE|ERROR\_MESSAGE  20200430|MC-TABANAN||17113972|56.0|442000.0|1001|Mandatory Field SITE\_ID is missing  20200427|MC-WONOGIRI|14WNG030|17126980|4.0|100000.0|1002|Given ID\_OUTLET is not available in system |

## RGU-GA WITH INJECTION (INTHDP005)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | MTD-2 |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains all RGU-GA details with accumulated injection amount information.
2. This file contains data from month start date to D-2. This means when MOBII receive file in his SFTP path on 01-May-2020 (20200501), file name contains date 01-May-2020 (20200501) and inside file RGU-GA date from 20200401 from 20200429.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and ID\_OUTLET in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|CLUSTER|MICRO|SITE\_ID|ID\_OUTLET) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC/CSO incentive calculation, standard report views and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All ID\_OUTLET, SITE\_ID, CLUSTER and MICRO must be pre-created in MOBII.

### Post-conditions

1. Given RGU-GA quantity value will be stored in MOBII.

### File naming

rgu\_injection\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *rgu\_injection\_20200203013512.csv.gz*
* Sample Control File Name is *rgu\_injection\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/rgu\_injection/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/rgu\_injection/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/rgu\_injection/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/rgu\_injection/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/rgu\_injection/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | RGU-GA date from new SP |
| CLUSTER | Yes | String | Unique cluster description |
| MICRO | Yes | String | Unique micro cluster description |
| SITE\_ID | Yes | String | Unique site reference code |
| ID\_OUTLET | No | String | Outlet unique reference code |
| STATUS\_INJECTION | Yes | String | Status of injection of received RGU-GA SP  Possible values are With Injection and Without Injection. Without Injection record will be filtered and stored in separated file. (it will not be part of rejection file in MOBII). |
| FLAG\_ACM | Yes | String | Accumulated injection value |
| COUNT\_MSISDN | Yes | Number | Total number of new SP RGU-GA received |

**Example:**

|  |
| --- |
| DATE|CLUSTER|MICRO|SITE\_ID|ID\_OUTLET|STATUS\_INJECTION|FLAG\_ACM |COUNT\_MSISDN  20200504|EB-EJA-PROBOLINGGO|MC-KEDIRI1|20KDR149|17152860|With Injection|c. >=7k - <10k|1  20200504|CW-CJA-BLOREMPATIGRO|MC-BLOREM|14RBG020|17237761|Without Injection|c. >=7k - <10k|1 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|CLUSTER|MICRO|SITE\_ID|ID\_OUTLET|STATUS\_INJECTION|FLAG\_ACM |COUNT\_MSISDN|ERROR\_CODE|ERROR\_MESSAGE  20200504|EB-EJA-PROBOLINGGO|MC-KEDIRI1||17152860| With Injection |c. >=7k - <10k|1|1001|Mandatory Field SITE\_ID is missing  20200504|CW-CJA-BLOREMPATIGRO|MC-BLOREM|14RBG020|17237761| Without Injection|c. >=7k - <10k|1|1002|Given ID\_OUTLET is not available in system |

## TERTIARY SALES (INTHDP006)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-8 to D-1 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains all recharge done by end customer including direct reload or data package to old SP and voucher redemption. Injection to blank voucher or blank SP is not part of the sales.
2. This file contains data for previous 7 days from D-1. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and ID\_OUTLET in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|MICRO|SITE\_ID|OUTLET) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC incentive calculation, standard report view and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All ID\_OUTLET, SITE\_ID and MICRO must be pre-created in MOBII.

### Post-conditions

1. Tertiary sales amount will be stored in MOBII against outlet and site reference.

### File naming

tertiary\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *tertiary\_20200203013512.csv.gz*
* Sample Control File Name is *tertiary\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/tertiary/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/tertiary/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/tertiary/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/tertiary/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/tertiary/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Transaction (recharge) date (MOBO reload/data package to old SP or VC redeem date). |
| MICRO | No | String | Unique micro cluster description |
| SITE\_ID | No | String | Unique site reference code |
| OUTLET | Yes | String | Outlet unique reference code |
| AMOUNT | Yes | Decimal (2) | Accumulated recharge amount for the date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|OUTLET|AMOUNT  20200504|MC-KEDIRI1|20KDR149|17152860|8765445.0  20200504|MC-BLOREM|14RBG020|17237761|45678876.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|OUTLET|AMOUNT|ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-KEDIRI1||17152860|8765445.0|1001|Mandatory Field SITE\_ID is missing  20200504|MC-BLOREM|14RBG020|17237761|45678876.0|1002|Given ID\_OUTLET is not available in system |

## ORGANIZATION MOBO BALANCE (INTHDP007)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-1 |
| ORIGINAL DATA SOURCE: | MOBO |

### Context goal

1. HADOOP will share the daily file to MOBII which contains all organizations closing balance for the date. Balance include MOBO wallet amount (all wallet types) and Injection to blank voucher but still not redeemed is also part of the balance.
2. This file contains data for previous day D-1. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date for 20200507.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and ORG\_CODE in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (MOBO\_DATE|ORG\_CODE) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for standard report view and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All ORG\_CODE must be pre-created in MOBII.

### Post-conditions

1. Balance amount will be stored in MOBII against given organization reference.

### File naming

org\_close\_bal\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *org\_close\_bal \_20200203013512.csv.gz*
* Sample Control File Name is *org\_close\_bal \_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/org\_close\_bal/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/org\_close\_bal/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/org\_close\_bal/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/org\_close\_bal/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/org\_close\_bal/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| MOBO\_DATE | Yes | Date – YYYYMMDD | Date for the closing balance |
| ORG\_CODE | Yes | String | Unique organization reference code (Both MPC and Outlet) |
| AMOUNT | Yes | Decimal (2) | Accumulated balance amount for the date. (All wallet type and non-redeemed from blank voucher) (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| MOBO\_DATE|ORG\_CODE|AMOUNT  20200504|17152860|8765445098.0  20200504|17237761|4567887698.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| MOBO\_DATE|ORG\_CODE|AMOUNT|ERROR\_CODE|ERROR\_MESSAGE  20200504||8765445098.0|1001|Mandatory Field ORG\_CODE is missing  20200504|17237761|4567887698.0|1002|Given ORG\_CODE is not available in system |

## PREPAID SERVICE REVENUE (INTHDP008)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains all type of prepaid revenue types and gross revenue value.
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE\_ID in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|SITE\_ID) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All SITE\_ID must be pre-created in MOBII.

### Post-conditions

1. Revenue amount will be stored in MOBII against given site reference.

### File naming

total\_revenue\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *total\_revenue\_20200203013512.csv.gz*
* Sample Control File Name is *total\_revenue\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/total\_revenue/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/total\_revenue/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/total\_revenue/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/total\_revenue/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/total\_revenue/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Revenue date |
| MICRO | No | String | Unique micro cluster description |
| SITE\_ID | No | String | Unique site reference code |
| REVENUE\_TYPE | Yes | String | Type of revenue |
| REVENUE\_TOTAL | Yes | Decimal (2) | Total revenue for the given date for given type (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|REVENUE\_TYPE|REVENUE\_TOTAL  20200504|MC-BLOREM|14RBG020|voice|8765445098.0  20200504|MC-BLOREM|14RBG020|sms|8765445098.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|REVENUE\_TYPE|REVENUE\_TOTAL|ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-BLOREM|14RBG020| |8765445098.0|1001|Mandatory Field REVENUE\_TYPE is missing  20200504|MC-BLOREM|14RBG020|sms|8765445098.0|1002|Given SITE\_ID is not available in system |

## MOBO USAGE REVENUE (INTHDP009)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains all usage from MOBO.
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE\_ID in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|SITE\_ID) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All SITE\_ID must be pre-created in MOBII.

### Post-conditions

1. Usage amount will be stored in MOBII against given site reference.

### File naming

mobo\_revenue\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *mobo\_revenue\_20200203013512.csv.gz*
* Sample Control File Name is *mobo\_revenue\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/mobo\_revenue/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/mobo\_revenue/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/mobo\_revenue/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/mobo\_revenue/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/mobo\_revenue/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Revenue date |
| MICRO | No | String | Unique micro cluster description |
| SITE\_ID | No | String | Unique site reference code |
| REVENUE | Yes | Decimal (2) | Total revenue for the given date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|REVENUE  20200504|MC-BLOREM|14RBG020|765445098.0  20200504|MC-BLOREM|13HBN020|865445098.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|REVENUE |ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-BLOREM|14RBG020||1001|Mandatory Field REVENUE is missing  20200504|MC-BLOREM|14RBG020|8765445098.0|1002|Given SITE\_ID is not available in system |

## ACQUISITION REVENUE (INTHDP010)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains total revenue generated by RGU GA in the same month (accumulated).
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE\_ID in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|SITE\_ID) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All SITE\_ID must be pre-created in MOBII.

### Post-conditions

1. Revenue amount will be stored in MOBII against given site reference.

### File naming

acquisition\_revenue\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *acquisition\_revenue\_20200203013512.csv.gz*
* Sample Control File Name is *acquisition\_revenue\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/acquisition\_revenue/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/acquisition\_revenue/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/acquisition\_revenue/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/acquisition\_revenue/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/acquisition\_revenue/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Revenue date |
| MICRO | No | String | Unique micro cluster description |
| SITE\_ID | No | String | Unique site reference code |
| REVENUE | Yes | Decimal (2) | Total RGU-GA for the given date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|REVENUE  20200504|MC-BLOREM|14RBG020|765445098.0  20200504|MC-BLOREM|13HBN020|865445098.0 |

### Processing result & Repsonse

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|REVENUE |ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-BLOREM|14RBG020||1001|Mandatory Field REVENUE is missing  20200504|MC-BLOREM|14RBG020|8765445098.0|1002|Given SITE\_ID is not available in system |

## LOW REVENUE SITES (INTHDP011)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains all sites below revenue threshold.
2. MOBII receive final list of sites (after removing whitelisted)
3. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
4. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE\_ID in latest file it will replace the previously stored transaction value.
5. If MOBII found any duplicate row (DATE|SITE\_ID) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
6. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
7. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
8. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All SITE\_ID must be pre-created in MOBII.

### Post-conditions

1. Revenue amount will be stored in MOBII against given site reference.

### File naming

low\_revenue\_site\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *low\_revenue\_site\_20200203013512.csv.gz*
* Sample Control File Name is *low\_revenue\_site\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/low\_revenue\_site/

Actual(A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/low\_revenue\_site/

Rejected(R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/low\_revenue\_site/

Backup(A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/low\_revenue\_site/

Backup(R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/low\_revenue\_site/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Revenue date |
| MICRO | Yes | String | Unique micro cluster description |
| SITE\_ID | Yes | String | Unique site reference code |
| CATEGORY | Yes | String | Site category (Java / Non Java) |
| TARGET | No | Decimal (2) | Target on the revenue (Max 2 decimal points are allowed) |
| REVENUE | Yes | Decimal (2) | Actual revenue value (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|CATEGORY|TARGET|REVENUE  20200504|MC-BLOREM|14RBG020|Java|987654456|765445098.0  20200504|MC-BLOREM|13HBN020|Non Java|987654567|865445098.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|CATEGORY|TARGET|REVENUE|ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-BLOREM|14RBG020|Java|987654456||1001|Mandatory Field REVENUE is missing  20200504|MC-BLOREM|13HBN020|Non Java|987654567|865445098.0|1002|Given SITE\_ID is not available in system |

## SITES WITH RGU-GA (INTHDP012)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | MTD-2 |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains # of macro sites with surrounding outlet and whitelist site from region who has RGU GA contribution with minimum 10 RGU GA per site.
2. MOBII receive final list of sites (after removing whitelisted)
3. This file contains data from month start date to D-2. This means when MOBII receive file in his SFTP path on 01-May-2020 (20200501), file name contains date 01-May-2020 (20200501) and inside file RGU-GA date from 20200401 from 20200429.
4. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE in latest file it will replace the previously stored transaction value.
5. If MOBII found any duplicate row (DATE|SITE) within the file then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
6. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
7. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
8. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All SITE\_ID must be pre-created in MOBII.

### Post-conditions

1. RGU-GA quantity will be stored in MOBII against given site reference.

### File naming

site\_rgu\_ga\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *site\_rgu\_ga\_20200203013512.csv.gz*
* Sample Control File Name is *site\_rgu\_ga\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/site\_rgu\_ga/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/site\_rgu\_ga/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/site\_rgu\_ga/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/site\_rgu\_ga/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/site\_rgu\_ga/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Revenue date |
| MICRO | Yes | String | Unique micro cluster description |
| SITE | Yes | String | Unique site reference code |
| QTY | Yes | Number | RGU-GA quantity |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE|QTY  20200504|MC-BLOREM|14RBG020|15  20200504|MC-BLOREM|13HBN020|20 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE|QTY|ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-BLOREM|14RBG020||1001|Mandatory Field QTY is missing  20200504|MC-BLOREM|13HBN020|20|1002|Given SITE\_ID is not available in system |

## CROSS SELLING CLUSTER RELOAD (INTHDP013)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains total reload amount and cross reload amount from every cluster.
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|CLUSTER) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All cluster id must be pre-created in MOBII.

### Post-conditions

1. Total and cross reload amount will be stored in MOBII against given cluster reference.

### File naming

cross\_reload\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *cross\_reload\_20200203013512.csv.gz*
* Sample Control File Name is *cross\_reload\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/cross\_reload/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/cross\_reload/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/cross\_reload/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/cross\_reload/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/cross\_reload/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Reload date |
| CLUSTER\_ID | Yes | String | Unique cluster reference code |
| CATEGORY | Yes | String | Java / Non Java |
| CLUSTER\_TYPE | Yes | String | Inner/Outer (when a cluster is having both inner and outer it should be given in two records) |
| TOTAL\_RELOAD | Yes | Decimal (2) | Total reload value for the date (Max 2 decimal points are allowed) |
| CROSS\_RELOAD | Yes | Decimal (2) | Cross reload for the date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|CLUSTER\_ID|CATEGORY|CLUSTER\_TYPE|TOTAL\_RELOAD|CROSS\_RELOAD  20200504|CL-BLOREM|Java|Inner|98765498.0|9876567.0  20200504|CL-JAKARTA|Non Java|Outer|87654567.0|56789876.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|CLUSTER\_ID|CATEGORY| CLUSTER\_TYPE|TOTAL\_RELOAD|CROSS\_RELOAD|ERROR\_CODE|ERROR\_MESSAGE  20200504|CL-BLOREM||Java|Inner |98765498.0||1001|Mandatory Field CROSS\_RELOAD is missing  20200504|CL-JAKARTA|Non Java|Outer|87654567.0|56789876.0|1002|Given CLUSTER\_ID is not available in system |

## CROSS SELLING AREA DATA PACKAGE (INTHDP014)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains total data package amount and cross data package amount from every cluster.
2. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and SITE in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|CLUSTER) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All cluster id must be pre-created in MOBII.

### Post-conditions

1. Total and cross data package amount will be stored in MOBII against given cluster reference.

### File naming

cross\_data\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *cross\_data\_20200203013512.csv.gz*
* Sample Control File Name is *cross\_data\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/cross\_data/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/cross\_data/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/cross\_data/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/cross\_data/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/cross\_data/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Reload date |
| CLUSTER\_ID | Yes | String | Unique cluster reference code |
| TOTAL\_DATA | Yes | Decimal (2) | Total data value for the date (Max 2 decimal points are allowed) |
| CROSS\_DATA | Yes | Decimal (2) | Cross data value for the date (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|CLUSTER\_ID|TOTAL\_DATA|CROSS\_DATA  20200504|CL-BLOREM|98765498.0|9876567.0  20200504|CL-JAKARTA|87654567.0|56789876.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|CLUSTER\_ID|TOTAL\_DATA|CROSS\_DATA|ERROR\_CODE|ERROR\_MESSAGE  20200504|CL-BLOREM|98765498.0||1001|Mandatory Field CROSS\_RELOAD is missing  20200504|CL-JAKARTA|87654567.0|56789876.0|1002|Given CLUSTER\_ID is not available in system |

## OUTLET PROGRAM ACHIEVER (INTHDP015)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | MTD-2 |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains # of outlet that achieve Sultan program following rules from Trade Marketing Division.
2. This file contains data from month start date to D-2. This means when MOBII receive file in his SFTP path on 01-May-2020 (20200501), file name contains date 01-May-2020 (20200501) and inside file rgu-ga date from 20200401 from 20200429.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and ID\_OUTLET in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE| ID\_OUTLET) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All ID\_OUTLET must be pre-created in MOBII.

### Post-conditions

1. Sales program achievement will be stored in MOBII against given outlet reference.

### File naming

outlet\_program\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *outlet\_program\_20200203013512.csv.gz*
* Sample Control File Name is *outlet\_program\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/outlet\_program/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/outlet\_program/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/outlet\_program/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/outlet\_program/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/outlet\_program/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| MONTH\_ID | Yes | Date – YYYYMM | Month reference |
| CLUSTER | Yes | String | Unique cluster description |
| ID\_OUTLET | Yes | String | Unique outlet reference code |
| TARGET | Yes | Decimal (2) | Sales value target (Max 2 decimal points are allowed) |
| ACTUAL | Yes | Decimal (2) | Actual sales value of MTD (accumulated) (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| MONTH\_ID|CLUSTER|ID\_OUTLET|TARGET|ACTUAL  202005|CL-BLOREM|14RBG020|98765.0|67895.0  202005|CL-JAKARTA|13HBN020|98765.0|67895.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| MONTH\_ID|CLUSTER|ID\_OUTLET|TARGET|ACTUAL|ERROR\_CODE|ERROR\_MESSAGE  202005|CL-BLOREM|14RBG020|98765.0||1001|Mandatory Field ACTUAL is missing  202005|CL-JAKARTA|13HBN020|98765.0|67895.0|1002|Given ID\_OUTLET is not available in system |

## ONTIME ALLOCATION PAYMENT (INTHDP016)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | MTD-2 |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains payment allocation percentage.
2. This file contains data from month start date to D-2. This means when MOBII receive file in his SFTP path on 01-May-2020 (20200501), file name contains date 01-May-2020 (20200501) and inside file rgu-ga date from 20200401 from 20200429.
3. MOBII always consider latest processed file records, when MOBII receive same MONTH and MPC\_CODE in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (MONTH|MPC\_CODE) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All MPC\_CODE must be pre-created in MOBII.

### Post-conditions

1. Allocation payment percentage will be stored in MOBII against given MPC reference.

### File naming

alloc\_payment\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *alloc\_payment\_20200203013512.csv.gz*
* Sample Control File Name is *alloc\_payment\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/alloc\_payment/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/alloc\_payment/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/alloc\_payment/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/alloc\_payment/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/alloc\_payment/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| MONTH\_ID | Yes | Date – YYYYMM | Month reference |
| CLUSTER | Yes | String | Unique cluster description |
| MPC\_CODE | Yes | String | Unique MPC reference code |
| PAYMENT\_ALLOCATION | Yes | Number | Allocation payment percentage |

**Example:**

|  |
| --- |
| MONTH\_ID|CLUSTER|MPC\_CODE |PAYMENT\_ALLOCATION  202005|CL-BLOREM|14RBG020|100  202005|CL-JAKARTA|13HBN020|90 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| MONTH\_ID|CLUSTER|MPC\_CODE |PAYMENT\_ALLOCATION|ERROR\_CODE|ERROR\_MESSAGE  202005|CL-BLOREM|14RBG020||1001|Mandatory Field PAYMENT\_ALLOCATION is missing  202005|CL-JAKARTA|13HBN020|90|1002|Given MPC\_CODE is not available in system |

## URO 20K (INTHDP017)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-9 to D-2 (7D) |
| ORIGINAL DATA SOURCE: | add |

### Context goal

1. HADOOP will share the daily file to MOBII which contains unique outlet counts which make more than 20000 tertiary sales.
2. Given outlet quantity values should be MTD value for the given date.
3. This file contains data for previous 7 days from D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
4. MOBII always consider latest processed file records, when MOBII receive same DATE and OUTLET in latest file it will replace the previously stored transaction value.
5. If MOBII found any duplicate row (DATE|MICRO|SITE\_ID|OUTLET) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
6. This file data is used for MPC Incentive and if required can also be used other functions from upcoming change request.
7. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
8. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Server path is accessible by HADOOP.
2. All SITEs must be pre-created in MOBII.

### Post-conditions

1. Outlet counts will be marked against given site id.

### File naming

uro20\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is *uro20\_20200203013512.csv.gz*
* Sample Control File Name is *uro20\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/uro20/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/uro20/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_filesHADOOP/uro20/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/uro20/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/uro20/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Date reference |
| MICRO | Yes | String | Unique micro cluster description |
| SITE\_ID | Yes | String | Unique site reference code |
| OUTLET | Yes | String | Unique Id outlet |
| HIT | Yes | Number | Number transactions |
| AMOUNT | Yes | Decimal (2) | Total tertiary value (Max 2 decimal points are allowed) |

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|OUTLET |HIT|AMOUNT  20200504|MC-PEMALANG|14PML014|170000|36|701900.0  20200504|MC-SAMARINDA 1|19SMR012|1666665A|18|437250.0 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|MICRO|SITE\_ID|OUTLET |HIT|AMOUNT|ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-PEMALANG|14PML014||36|701900.0|1001|Mandatory Field OUTLET is missing  20200504|MC-SAMARINDA 1|19SMR012|2|18|437250.0|1002|Given SITE\_ID is not available in system |

## STOCK TAKING ACTIVITY (INTHDP018)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | MOBII |
| RESPONDER SYSTEM: | HADOOP |
| FILE FREQUENCY | Daily Once |
| DATA PERIOD | D-1 |
| ORIGINAL DATA SOURCE: | MOBII |

### Context goal

1. MOBII will share the daily file to HADOOP which contains the voucher balance and multi-chip balance which is purchased from big player by Outlet.
2. This file contains data for previous day. This means when MOBII send file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file activity date is D-1 (20200507). Some cases this is possible for older dates also if CSO do the sync offline transactions next day.
3. MOBII will push file to HADOOP sftp path daily before 2AM with latest updated records.

### Pre-conditions

1. Server path is accessible by MOBII.

### Post-conditions

1. File available at HADOOP SFTP path.

### File naming

stock\_taking\_activity\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is stock\_taking\_activity\_20200203013512.csv.gz
* Sample Control File Name is stock\_taking\_activity\_20200203013512.ctl.gz

### MOBII PATH

* add

### HADOOP Server & Path

Landing: /data/02/landing/snd/outlet\_stock\_balance/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Activity date |
| CHANNEL\_CATEGORY | Yes | String | Outlet channel (Traditional) |
| REGIONAL | Yes | String | Outlet region reference code from sales territory |
| AREA | Yes | String | Outlet area reference code from sales territory |
| SALES\_AREA | Yes | String | Outlet sales area reference code from sales territory |
| CLUSTER | Yes | String | Outlet Cluster reference code from sales territory |
| MICRO\_CLUSTER | Yes | String | Outlet Micro Cluster reference code from sales territory |
| SALE\_TERRITORY | Yes | String | Sales territory description (includes Nasional to Micro-Cluster) |
| TERRITORY\_ID | Yes | String | Outlet linked sales territory ref code |
| OUTLET\_ID | Yes | Number | Unique outlet id (MOBII internal id) |
| OUTLET\_REF\_CODE | Yes | String | Unique outlet reference code |
| OUTLET\_NAME | Yes | String | Outlet name |
| CSO\_NAME | Yes | String | CSO username who linked with Outlet |
| CSO\_OPERATOR\_ID | Yes | String | CSO operator id who linked with Outlet |
| CSO\_ORG\_ID | Yes | Number | MPC org id MOBII internal id |
| CSO\_ORG\_REF\_CODE | Yes | String | MPC org ref code |
| CSO\_ORG\_NAME | Yes | String | MPC org name |
| VOUCHER\_BALANCE | Yes | Number | Captured outlet balance for the date |
| MULTI\_CHIP\_BALANCE | Yes | Double | Captured multi chip balance for the date |

**Example:**

|  |
| --- |
| DATE | CHANNEL\_CATEGORY | REGIONAL | AREA | SALES\_AREA | CLUSTER | MICRO\_CLUSTER | SALE\_TERRITORY | TERRITORY\_ID|OUTLET\_ID | OUTLET\_REF\_CODE | OUTLET\_NAME | CSO\_NAME | CSO\_OPERATOR\_ID | CSO\_ORG\_ID | CSO\_ORG\_REF\_CODE | CSO\_ORG\_NAME | VOUCHER\_BALANCE | MULTI\_CHIP\_BALANCE  20200515|Traditional|East Java and Bali Nusra|BALI NUSRA|DENPASAR|EB-BNA-BADUNG|MC-BADUNG\_1|MC-BADUNG\_1->EB-BNA-BADUNG->DENPASAR->BALI NUSRA->East Java and Bali Nusra->NASIONAL|micro4|50523|464460|ADI JAYA CELL|CSOBYGBADUNG02|CSOBYGBADUNG02|50126|D10334582|PT. TRIMITRA TUNAS SAKTI - BALI NUSRA|1000|9876567.00  20200515|Traditional|East Java and Bali Nusra|BALI NUSRA|DENPASAR|EB-BNA-BADUNG|MC-BADUNG\_1|MC-BADUNG\_1->EB-BNA-BADUNG->DENPASAR->BALI NUSRA->East Java and Bali Nusra->NASIONAL|micro4|50523|464460|ADI JAYA CELL|CSOBYGBADUNG02|CSOBYGBADUNG02|50126|D10334582|PT. TRIMITRA TUNAS SAKTI - BALI NUSRA|500|98789.00 |

## OUTLET STARTERPACK TAGGING (INTHDP019)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY: | Daily Once |
| DATA PERIOD: | MTD-2 |
| ORIGINAL DATA SOURCE: | MOBO |

### Context goal

1. HADOOP will share the daily file to MOBII which contains details for Outlet SP Tagging.
2. This file contains data from month start date to D-2. This means when MOBII receive file in his SFTP path on 08-May-2020 (20200508), file name contains prepared date with time and inside file allocation date from 20200430 from 20200506.
3. MOBII always consider latest processed file records, when MOBII receive same DATE and OUTLET\_ID in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (DATE|OUTLET\_ID) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for CSO Incentive and if required can also be used other functions from upcoming change request.
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Data is shared with HADOOP by MOBO.
2. Server path is accessible by HADOOP.
3. All outlets must be pre-created in MOBII.

### Post-conditions

1. SP\_TAG\_QTY will be aggregated against given OUTLET\_ID for given date.

### File naming

outlet\_sp\_tagging\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is outlet\_sp\_tagging*\_20200203013512.csv.gz*
* Sample Control File Name is outlet\_sp\_tagging*\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/outlet\_sp\_tagging/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/outlet\_sp\_tagging/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/outlet\_sp\_tagging/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/outlet\_sp\_tagging/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/outlet\_sp\_tagging/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | Date reference |
| OUTLET\_ID | Yes | String | Unique Id outlet |
| SP\_TAG\_QTY | Yes | Number | Tagged SP count |

**Example:**

|  |
| --- |
| DATE|OUTLET\_ID|SP\_TAG\_QTY  20200501|OUTA1|8  20200501|OUTA2|2  20200501|OUTA3|20 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|OUTLET\_ID|SP\_TAG\_QTY|ERROR\_CODE|ERROR\_MESSAGE  20200501||8|1001|Mandatory Field OUTLET\_ID is missing  20200501|OUTA2|2.0|1002|SP\_TAG\_QTY contains invalid data |

## SIM SELLING OUTLET WITH HIGH VALUE CUSTOMER (INTHDP020)

|  |  |
| --- | --- |
| INTERFACE TYPE: | Off-line file feed |
| INTERFACE METHOD: | Batch file |
| SOURCE SYSTEM: | HADOOP |
| RESPONDER SYSTEM: | MOBII |
| FILE FREQUENCY: | Daily Once |
| DATA PERIOD: | MTD-2 |
| ORIGINAL DATA SOURCE: | MOBO |

### Context goal

1. SIM Selling Outlet with High Value Customer (SSO HVC) contains records of SIM Selling Outlets (count of Outlets) which injects balance/package at least in IDR 35.000,00 value to the new SIM (subscriber) and its part of RGU-GA;
2. SSO HVC will be calculated from RGU-GA data for the current month and joint with SSO HVC (min IDR 35.000,00) taken from M0, -M1, -M2 (3 months);
3. MOBII always consider latest processed file records, when MOBII receive same GA\_DATE and ORGANIZATION\_ID in latest file it will replace the previously stored transaction value.
4. If MOBII found any duplicate row (GA\_DATE | ORGANIZATION\_ID) within the file, then it will consider only first record and upcoming records will be rejected with reason duplicate transaction found.
5. This file data is used for Target KPI & Achievement Calculation, and if required can also be used for other functions and/or upcoming enhancement or change requests;
6. HADOOP must push file to the MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Files from Landing path will be deleted, after copied by MOBII from Landing to Actual (A) path.

### Pre-conditions

1. Data is shared with HADOOP by MOBO;
2. Server path is accessible by HADOOP;
3. All Outlets (ORGANIZATION\_ID) must be pre-created and available in MOBII.

### Post-conditions

1. SAME\_MC\_RGU\_QTY, SAME\_CL\_RGU\_QTY|ALL\_CL\_RGU\_QTY will be aggregated against given OUTLET\_ID for given date.

### File naming

sso\_hvc\_rgu\_<YYYYMMDDHH24MISS>.csv.gz

* <YYYYMMDDHH24MISS> = date and time of file generation.
* Sample Actual File Name is sso\_hvc\_rgu*\_20200203013512.csv.gz*
* Sample Control File Name is sso\_hvc\_rgu*\_20200203013512.ctl.gz*

### File Path

Landing: /home/hdpuser/interfaces/HADOOP/master\_files/sso\_hvc\_rgu/

Actual (A): /snoc/interfaces/S-NOC/interfaces/master\_file/HADOOP/sso\_hvc\_rgu/

Backup (A): /snoc/interfaces/S-NOC/interfaces/backup/master\_file/HADOOP/sso\_hvc\_rgu/

Rejected (R): /snoc/interfaces/S-NOC/interfaces/rejected\_file/HADOOP/sso\_hvc\_rgu/

Backup (R): /snoc/interfaces/S-NOC/interfaces/backup/rejected\_file/HADOOP/sso\_hvc\_rgu/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| GA\_DATE | Yes | Date – YYYYMMDD | RGU-GA Date |
| OUTLET\_ID | Yes | String | ORGANIZATION\_ID / OUTLET ID |
| SAME\_MC\_RGU\_QTY | Yes | Number | MSISDN quantity – Injection and RGU from same micro cluster |
| SAME\_CL\_RGU\_QTY | Yes | Number | MSISDN quantity – Injection and RGU from same cluster |
| ALL\_CL\_RGU\_QTY | Yes | Number | All MSISDN quantity with Injection and RGU |

**Example:**

|  |
| --- |
| DATE|OUTLET\_ID|SAME\_MC\_RGU\_QTY|SAME\_CL\_RGU\_QTY|ALL\_CL\_RGU\_QTY  20200901|OUT1|2|4|6  20200901|OUT2|3|5|10 |

### Processing result & Response

File status can be tracked from MOBII web. If any records are rejected, then rejected files can be downloaded from MOBII web which contains all columns of original file and additionally ERROR\_CODE|ERROR\_MESSAGE.

**Example:**

|  |
| --- |
| DATE|OUTLET\_ID|SAME\_MC\_RGU\_QTY|SAME\_CL\_RGU\_QTY|ALL\_CL\_RGU\_QTY|ERROR\_CODE|ERROR\_MESSAGE  20200901||2|4|6|Mandatory field OUTLET\_ID is missing |

# TECHNICAL SPECIFICATIONS

This section documents the system parameters and the corresponding values for the integration

## Performance specifications

This section documents describes the performance parameters that the interface should meet and the corresponding values. The performance requirements capture parameters such as expected frequency of the interface & data load etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NO | ID | INTERFACE NAME | FREQUENCY | # RECORDS PER SYNC |
|  | INTHDP001 | Site Mapping | DAILY ONCE | up to 40,000 |
|  | INTHDP002 | Primary MOBO | DAILY ONCE | up to 2,000 |
|  | INTHDP003 | Secondary MOBO | DAILY ONCE | up to 500,000 |
|  | INTHDP004 | Daily SIM Selling Outlet (SSO) | DAILY ONCE |  |
|  | INTHDP005 | RGU-GA with Injection 7K | DAILY ONCE | up to 3,000,000 |
|  | INTHDP006 | Tertiary Sales | DAILY ONCE | up to 2,000,000 |
|  | INTHDP007 | Organization MOBO Balance | DAILY ONCE | up to 1,000,000 |
|  | INTHDP008 | Prepaid Service Revenue | DAILY ONCE | up to 2,000,000 |
|  | INTHDP009 | MOBO Usage Revenue | DAILY ONCE | up to 500,000 |
|  | INTHDP010 | Acquisition Revenue | DAILY ONCE | N/A |
|  | INTHDP011 | Low revenue Sites | DAILY ONCE | N/A |
|  | INTHDP012 | Sites with RGU-GA | DAILY ONCE | N/A |
|  | INTHDP013 | Cross Selling Cluster Reload | DAILY ONCE | N/A |
|  | INTHDP014 | Cross Selling Area Data Package | DAILY ONCE | N/A |
|  | INTHDP015 | Outlet Program Achiever | DAILY ONCE | N/A |
|  | INTHDP016 | Onetime Allocation Payment | DAILY ONCE | N/A |
|  | INTHDP017 | URO 20K | DAILY ONCE | N/A |
|  | INTHDP018 | Stock Taking Activity | DAILY ONCE | up to 400,000 |
|  | INTHDP019 | Outlet StarterPack Tagging | DAILY ONCE | N/A |
|  | INTHDP020 | SIM Selling Outlet with High Value Customer | DAILY ONCE | N/A |

# FLAT-FILE PROCESSING

This section documents the system parameters and the corresponding values for the integration

## MOBII Approval & Rejection Validation

This section documents the system parameters and the corresponding values for the integration

### Error and Reason Codes

This section documents

|  |  |
| --- | --- |
| CODE | ERROR MESSAGE |
| 101 | Internal Process Error - Please contact support team |
| 102 | File not received error |
| 103 | Unknown error |
| 105 | Partial file rejection error |
| 106 | Full file rejection error |
| 107 | Email address is not verified error |
| 108 | Serial not available |
| 109 | Error code Duplicate Serials |
| 110 | Order not placed or not in completed status error |
| 111 | Email compose error |
| 1001 | File name exist error |
| 10001 | Internal server error : |
| 10002 | Service error : |
| 12001 | Files are loaded into System. Waiting for record process / rejection preparation |
| 12002 | Files are converted to System. format and waiting for process / rejection preparation |
| 12003 | Files are created and ready to upload into SFTP |
| 12004 | Received files are loaded successfully into system |
| 12005 | All records shared in files were rejected by system - to know more details please check rejection file |
| 12006 | Few records shared in files were rejected by system - to know more details please check rejection file |
| 12007 | Files are uploaded to SFTP server |
| 12008 | No data found in uploaded file |
| 12009 | File data has been rollbacked due to internal issue |
| 12010 | Currently file process was disabled for interface ID : |
| 20001 | No of columns do not exist correctly : |
| 20002 | Mandatory Field value should not be empty : |
| 20003 | Contains invalid data : |
| 20004 | Error on validation : |
| 20005 | Duplicate record exists in the shared file : |
| 20006 | Considered latest, since multiple entries identified |
| 30001 | Invalid Organization : |
| 30002 | Organization is not in active status : |
| 30003 | Invalid Organization or not in Active status : |
| 30004 | External operator mapping not available for the given organization : |
| 30005 | Organization is already in the same status as shared in the file |
| 30101 | Invalid User : |
| 30102 | Invalid Username for User : |
| 30103 | Username should not contain spaces : |
| 30104 | User is already in the same status as shared in the file : |
| 30201 | Node not available for the given organization : |
| 30202 | Node not available or not in Active status for : |
| 30301 | Relationship do not exist between the organizations to perform the operation |
| 30302 | Relation does not exist between User and Organization : |
| 30401 | Invalid Product Code : |
| 30402 | Product is not in active status : |
| 30403 | Invalid Product or not in Active status : |
| 30404 | Invalid Product Category : |
| 30405 | Product category not in active status : |
| 30406 | Invalid Product category or not in Active status : |
| 30407 | Invalid Sub-Category for Category : |
| 30408 | Invalid Brand : |
| 30409 | Product ID not available for |
| 30410 | Found duplicates for given Product ID : |
| 30411 | Material Code already exists : |
| 30501 | Serial Numbers do not exist for the product : |
| 30502 | Serial Number Length should not be greater than : |
| 30601 | Default account not found for organization code : |
| 30602 | Default account is not in active status : |
| 30603 | Account not available or not in Active status for : |
| 30701 | Invalid Territory ID : |
| 30702 | Country value not available for the given Province : |
| 30703 | Failed in site mapping |
| 40001 | Duplicate Transaction : |
| 40002 | Invalid Payment Date |
| 40003 | Notification Receiving E-Mail is mandatory |
| 40004 | Notification Receiving MSISDN is mandatory |
| 40005 | Invalid Value for the Role Id : |
| 40006 | Transaction is not in completed status |
| 40007 | Record rejected due to some other invalid record in this transaction |
| 50001 | Invalid collection Organization for S-NOC database |
| 50002 | Invalid value or not in Active status : |
| 50003 | Invalid date format |
| 50004 | Date should not be future date |
| 60101 | Actor Mapping not found for |
| 60102 | Actor Mapping not found for |
| 60201 | Metric Mapping not found for |
| 60202 | Found duplicate Metric Mapping for |
| 60203 | Invalid Metric in configuration |
| 60301 | Source Mapping not found for |
| 60401 | Instance Mapping not found for |
| 60402 | Found Duplicate Instance Mapping for |
| 60501 | Dimension Mapping not found for given configuration |

# OPERATIONAL MONITORING & SUPPORT

## Monitoring & Alerts

For every interface next e-mail monitoring alert is configured in MOBII, which sent to configured e-mail addresses.

# ANNEXURES

## Appendix A: Open Issues

In this section are all unresolved issues, TBDs, pending decisions, findings required, conflicts, etc.

|  |  |  |  |
| --- | --- | --- | --- |
| ID | DESCRIPTION | RESPONSIBLE | STATUS |
|  | If any site or organization reference given in file feed not (mapping) found in MOBII then record should not be rejected. In feed there are possible for given organization code is not available in MOBII but still this record needs to be aggregated to site or micro cluster level.  **Solution (15/05):** if any mapping not found it will be stored under OTHERS | Parthipan | Solved |
|  | Wherever HADOOP file contains MICRO and SITE ID then it should be mapped based on the transaction date mapping not based on the latest mapping (file preparation time)  **Solution (19/05):** MOBII always takes MICRO as priority, when MICRO is missing then SITE ID is mapped against MICRO in MOBII. | Robby | Solved |
|  | INTHDP004, INTHDP005 and INTHDP017 mandatory information for fields must be confirmed.  **Solution (19/05):** All fields are mandatory for MOBII for proper mapping. If HADOOP don’t have data, then there is option to configure dummy records in MOBII and give this record refence ID as default value. | Robby | Solved |

# APPROVAL SIGN-OFF

I have received soft copy of current version document via e-mail, reviewed and approved confirm with reply to e-mail and as undersigned, I change request and agree that it’s appropriate:

|  |  |  |
| --- | --- | --- |
| 1. **PARTHIPAN RRAJAGOPAL** Business Analytic (ENHANCESYS) | Approved via e-mail |  |
|  | Signature | Date |
| 1. **ROMET ROOSALU** Project Manager (TIMWETECH) | Approved via e-mail |  |
|  | Signature | Date |
| 1. **ROBBY AL-AZIZ** Business User (INDOSAT) | Approved via e-mail |  |
|  | Signature | Date |
| 1. **AMRI SETIADI** Business User (INDOSAT) | Approved via e-mail |  |
|  | Signature | Date |
| 1. **DEDY ANDRIAN WIDYANTO** IT HADOOP DevOps (INDOSAT) | Approved via e-mail |  |
|  | Signature | Date |
| 1. **BUDI PRIYAMBODO** Business User (INDOSAT) | Approved via e-mail |  |
|  | Signature | Date |
| 1. **SANTI ROSANA** IT-DevOps (INDOSAT) | Approved via e-mail |  |
|  | Signature | Date |

## E-mail approval screen captures

1. PARTHIPAN RRAJAGOPAL / Business Analytic (ENHANCESYS)

2. ROMET ROOSALU / Project Manager (TIMWETECH)