

The information in this document is confidential and meant to be used only by the intended or authorized owner, it contains confidential, proprietary or legally privileged information. No confidentiality or privilege is waived or lost by any miss-transmission. If you receive this document in error, please immediately delete it and all copies of it, destroy any hard copies of it and notify the  
TIMWETECH. You must not, directly, use, disclose, distribute, print, or copy any part of this message if you are not the intended or authorized owner.



Presented by:

TIMwe Asia Pacific Sdn Bhd

Suite 18-02, Level 18, GTower 199 Jalan Tun Razak, 50400, Kuala Lumpur, Malaysia

Integration Specification

Integration with HADOOP

Version 1.3

June 10, 2020

Contents

[VERSION HISTORY 6](#_Toc42698832)

[INTEGRATION SPECIFICATION 7](#_Toc42698833)

[Interfaces 7](#_Toc42698834)

[Application 8](#_Toc42698835)

[Sub-Systems 8](#_Toc42698836)

[Authentication 8](#_Toc42698837)

[Protocol 8](#_Toc42698838)

[Authentication 8](#_Toc42698839)

[STANDARDS 9](#_Toc42698840)

[MOBII Offline Data Feed syncronization 9](#_Toc42698841)

[Control file 9](#_Toc42698842)

[Sync frequency 10](#_Toc42698843)

[Data processing frequency 10](#_Toc42698844)

[MOBII record level processing 11](#_Toc42698845)

[File Rejection reasons 11](#_Toc42698846)

[Record rejection reasons 11](#_Toc42698847)

[Rejection types & errors 11](#_Toc42698848)

[Process flowchart 12](#_Toc42698849)

[INTERFACES 13](#_Toc42698850)

[SITE MAPPING (INTHDP001) 13](#_Toc42698851)

[Context goal 13](#_Toc42698852)

[Pre-conditions 13](#_Toc42698853)

[Post-conditions 13](#_Toc42698854)

[File naming 13](#_Toc42698855)

[File Path 13](#_Toc42698856)

[Data feed fields 14](#_Toc42698857)

[Processing result & Response 14](#_Toc42698858)

[PRIMARY MOBO (INTHDP002) 15](#_Toc42698859)

[Context goal 15](#_Toc42698860)

[Pre-conditions 15](#_Toc42698861)

[Post-conditions 15](#_Toc42698862)

[File naming 16](#_Toc42698863)

[File Path 16](#_Toc42698864)

[Data feed fields 16](#_Toc42698865)

[Processing result & Response 16](#_Toc42698866)

[SECONDARY MOBO (INTHDP003) 17](#_Toc42698867)

[Context goal 17](#_Toc42698868)

[Pre-conditions 17](#_Toc42698869)

[Post-conditions 17](#_Toc42698870)

[File naming 17](#_Toc42698871)

[File Path 18](#_Toc42698872)

[Data feed fields 18](#_Toc42698873)

[Processing result & Response 18](#_Toc42698874)

[DAILY-SSO (INTHDP004) 19](#_Toc42698875)

[Context goal 19](#_Toc42698876)

[Pre-conditions 19](#_Toc42698877)

[Post-conditions 19](#_Toc42698878)

[File naming 20](#_Toc42698879)

[File Path 20](#_Toc42698880)

[Data feed fields 20](#_Toc42698881)

[Processing result & Response 20](#_Toc42698882)

[RGU-GA WITH INJECTION (INTHDP005) 21](#_Toc42698883)

[Context goal 21](#_Toc42698884)

[Pre-conditions 21](#_Toc42698885)

[Post-conditions 21](#_Toc42698886)

[File naming 22](#_Toc42698887)

[File Path 22](#_Toc42698888)

[Data feed fields 22](#_Toc42698889)

[Processing result & Response 22](#_Toc42698890)

[TERTIARY SALES (INTHDP006) 24](#_Toc42698891)

[Context goal 24](#_Toc42698892)

[Pre-conditions 24](#_Toc42698893)

[Post-conditions 24](#_Toc42698894)

[File naming 25](#_Toc42698895)

[File Path 25](#_Toc42698896)

[Data feed fields 25](#_Toc42698897)

[Processing result & Response 25](#_Toc42698898)

[ORGANIZATION MOBO BALANCE (INTHDP007) 26](#_Toc42698899)

[Context goal 26](#_Toc42698900)

[Pre-conditions 26](#_Toc42698901)

[Post-conditions 26](#_Toc42698902)

[File naming 27](#_Toc42698903)

[File Path 27](#_Toc42698904)

[Data feed fields 27](#_Toc42698905)

[Processing result & Response 27](#_Toc42698906)

[PREPAID SERVICE REVENUE (INTHDP008) 28](#_Toc42698907)

[Context goal 28](#_Toc42698908)

[Pre-conditions 28](#_Toc42698909)

[Post-conditions 28](#_Toc42698910)

[File naming 29](#_Toc42698911)

[File Path 29](#_Toc42698912)

[Data feed fields 29](#_Toc42698913)

[Processing result & Response 29](#_Toc42698914)

[MOBO USAGE REVENUE (INTHDP009) 30](#_Toc42698915)

[Context goal 30](#_Toc42698916)

[Pre-conditions 30](#_Toc42698917)

[Post-conditions 30](#_Toc42698918)

[File naming 31](#_Toc42698919)

[File Path 31](#_Toc42698920)

[Data feed fields 31](#_Toc42698921)

[Processing result & Response 31](#_Toc42698922)

[ACQUISITION REVENUE (INTHDP010) 32](#_Toc42698923)

[Context goal 32](#_Toc42698924)

[Pre-conditions 32](#_Toc42698925)

[Post-conditions 32](#_Toc42698926)

[File naming 33](#_Toc42698927)

[File Path 33](#_Toc42698928)

[Data feed fields 33](#_Toc42698929)

[Processing result & Repsonse 33](#_Toc42698930)

[LOW REVENUE SITES (INTHDP011) 34](#_Toc42698931)

[Context goal 34](#_Toc42698932)

[Pre-conditions 34](#_Toc42698933)

[Post-conditions 34](#_Toc42698934)

[File naming 35](#_Toc42698935)

[File Path 35](#_Toc42698936)

[Data feed fields 35](#_Toc42698937)

[Processing result & Response 35](#_Toc42698938)

[SITES WITH RGU-GA (INTHDP012) 36](#_Toc42698939)

[Context goal 36](#_Toc42698940)

[Pre-conditions 36](#_Toc42698941)

[Post-conditions 36](#_Toc42698942)

[File naming 37](#_Toc42698943)

[File Path 37](#_Toc42698944)

[Data feed fields 37](#_Toc42698945)

[Processing result & Response 37](#_Toc42698946)

[CROSS SELLING CLUSTER RELOAD (INTHDP013) 38](#_Toc42698947)

[Context goal 38](#_Toc42698948)

[Pre-conditions 38](#_Toc42698949)

[Post-conditions 38](#_Toc42698950)

[File naming 39](#_Toc42698951)

[File Path 39](#_Toc42698952)

[Data feed fields 39](#_Toc42698953)

[Processing result & Response 39](#_Toc42698954)

[CROSS SELLING AREA DATA PACKAGE (INTHDP014) 40](#_Toc42698955)

[Context goal 40](#_Toc42698956)

[Pre-conditions 40](#_Toc42698957)

[Post-conditions 40](#_Toc42698958)

[File naming 41](#_Toc42698959)

[File Path 41](#_Toc42698960)

[Data feed fields 41](#_Toc42698961)

[Processing result & Response 41](#_Toc42698962)

[OUTLET PROGRAM ACHIEVER (INTHDP015) 42](#_Toc42698963)

[Context goal 42](#_Toc42698964)

[Pre-conditions 42](#_Toc42698965)

[Post-conditions 42](#_Toc42698966)

[File naming 43](#_Toc42698967)

[File Path 43](#_Toc42698968)

[Data feed fields 43](#_Toc42698969)

[Processing result & Response 43](#_Toc42698970)

[ONTIME ALLOCATION PAYMENT (INTHDP016) 44](#_Toc42698971)

[Context goal 44](#_Toc42698972)

[Pre-conditions 44](#_Toc42698973)

[Post-conditions 44](#_Toc42698974)

[File naming 45](#_Toc42698975)

[File Path 45](#_Toc42698976)

[Data feed fields 45](#_Toc42698977)

[Processing result & Response 45](#_Toc42698978)

[URO 20K (INTHDP017) 46](#_Toc42698979)

[Context goal 46](#_Toc42698980)

[Pre-conditions 46](#_Toc42698981)

[Post-conditions 46](#_Toc42698982)

[File naming 47](#_Toc42698983)

[File Path 47](#_Toc42698984)

[Data feed fields 47](#_Toc42698985)

[Processing result & Response 47](#_Toc42698986)

[STOCK TAKING ACTIVITY (INTHDP018) 48](#_Toc42698987)

[Context goal 48](#_Toc42698988)

[Pre-conditions 48](#_Toc42698989)

[Post-conditions 48](#_Toc42698990)

[File naming 49](#_Toc42698991)

[File Path 49](#_Toc42698992)

[Data feed fields 50](#_Toc42698993)

[TECHNICAL SPECIFICATIONS 51](#_Toc42698994)

[Performance specifications 51](#_Toc42698995)

[ANNEXURES 52](#_Toc42698996)

[Appendix A: Analysis Documentation 52](#_Toc42698997)

[Appendix B: Open Issues 52](#_Toc42698998)

[APPROVAL SIGN-OFF 53](#_Toc42698999)

[E-mail approval screen captures 54](#_Toc42699000)

This document outlines the interface specification for integration

# VERSION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| VERSION | DATE | CHANGE | BY |
| 0.1 | 08/05/2020 | Creating of document | Parthipan Rajagopal |
| 0.2 | 12/05/2020 | Formatting changes & 1st Draft to review | Romet Roosalu |
| 0.3 | 13/05/2020 | Changes as per discussion on conf-call | Parthipan Rajagopal |
| 0.4 | 13/05/2020 | Interface “Cross selling cluster reload (INTHDP013)” updated, additional field CATEGORY and CLUSTER\_TYPE introduced | Parthipan Rajagopal |
| 0.5 | 15/05/2020 | New interface introduced INTHDP018- Stock Taking Activity | Parthipan Rajagopal |
| 1.0 | 19/05/2020 | Circulated for sign-off/approve | 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 |
| 1.2 | 28/05/2020 | File naming harmonized with folder name | Romet Roosalu |
| 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 |

# 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 |

## 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).

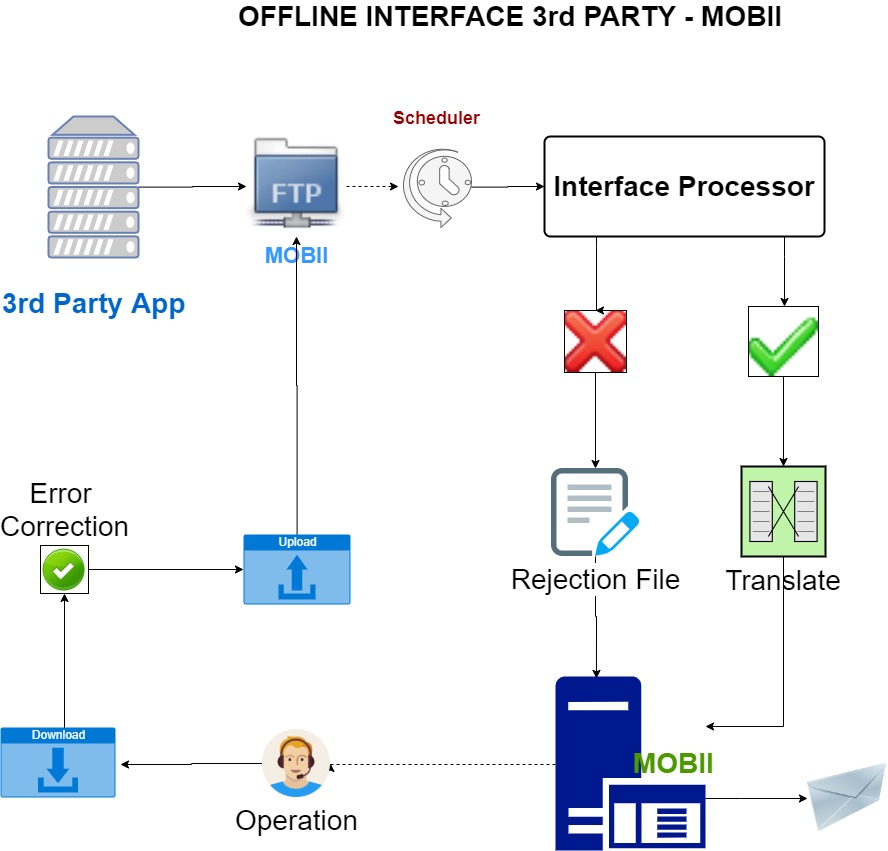
### Record rejection reasons

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.

### Rejection types & errors

|  |  |
| --- | --- |
| ERROR ID | ERROR MESSAGE |
| 101 | Unknown error on validation |
| 1002 | No of columns not exist correctly--> <<Record in File>> |
| 1004 | Duplicate record exists in the shared file |
| 1006 | Mandatory Field <<Field Name>> is missing |
| 1009 | <<Field>> contains invalid data <<Field Value>> |
| 3001 | Invalid Organization: <<VALUE>> |
| 3002 | Organization is not in active status: <<VALUE>> |

### 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 |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
5. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/site\_mapping/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ site\_mapping /
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ site\_mapping /
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ site\_mapping /
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/primary\_mobo/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ primary\_mobo/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ primary\_mobo/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ primary\_mobo/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/secondary\_mobo/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ secondary\_mobo/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ secondary\_mobo/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ secondary\_mobo/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
6. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/d\_sso/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ d\_sso/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ d\_sso/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ d\_sso/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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|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 view and if required can also be used other functions from upcoming change request.
6. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/rgu\_injection/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ rgu\_injection/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ rgu\_injection/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ rgu\_injection/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ HADOOP/ rgu\_injection/

### Data feed fields

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Mandatory | Data Type | Description |
| DATE | Yes | Date – YYYYMMDD | RGU-GA date from new SP |
| 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|MICRO|SITE\_ID|ID\_OUTLET|STATUS\_INJECTION|FLAG\_ACM |COUNT\_MSISDN  20200504|MC-KEDIRI1|20KDR149|17152860|With Injection|c. >=7k - <10k|1  20200504|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|MICRO|SITE\_ID|ID\_OUTLET|STATUS\_INJECTION|FLAG\_ACM |COUNT\_MSISDN|ERROR\_CODE|ERROR\_MESSAGE  20200504|MC-KEDIRI1||17152860| With Injection |c. >=7k - <10k|1|1001|Mandatory Field SITE\_ID is missing  20200504|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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/tertiary/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ tertiary/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ tertiary/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ tertiary/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/org\_close\_bal/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/org\_close\_bal/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ org\_close\_bal/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ org\_close\_bal/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/total\_revenue/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ total\_revenue/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ total\_revenue/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ total\_revenue/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/mobo\_revenue/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ mobo\_revenue/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ mobo\_revenue/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ mobo\_revenue/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/acquisition\_revenue/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ acquisition\_revenue/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ acquisition\_revenue/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ acquisition\_revenue/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
8. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/low\_revenue\_site/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ low\_revenue\_site/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ low\_revenue\_site/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ low\_revenue\_site/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
8. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/site\_rgu\_ga/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ site\_rgu\_ga/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ site\_rgu\_ga/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ site\_rgu\_ga/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/cross\_reload/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ cross\_reload/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ cross\_reload/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ cross\_reload/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/cross\_data/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ cross\_data/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ cross\_data/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ cross\_data/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/outlet\_program/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ outlet\_program/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ outlet\_program/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ outlet\_program/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
7. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/alloc\_payment/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ alloc\_payment/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ alloc\_payment/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ alloc\_payment/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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) |

### 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. File must be pushed to MOBII path daily before 2AM with latest updated records. MOBII scheduler will pick pushed files for process.
8. Once file is copied to MOBII interface server then file will be deleted from SFTP 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

* SFTP PATH
  + Master: /home/hdpuser/interfaces/HADOOP/master\_files/uro20/
* MOBII Application
  + Master: /snoc/interfaces/S-NOC/interfaces/master\_files/HADOOP/ uro20/
  + Backup: /snoc/interfaces/S-NOC/interfaces/backup/master\_files/ HADOOP/ uro20/
  + Rejected: /snoc/interfaces/S-NOC/interfaces/rejected\_files/ HADOOP/ uro20/
  + Rejected Backup: /snoc/interfaces/S-NOC/interfaces/backup/rejected\_files/ 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 |

### 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

### File Path

* SFTP PATH
  + /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 |

# 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 | MAX # RECORDS PER FILE |
|  | INTHDP001 | Site Mapping | DAILY ONCE | N/A |
|  | INTHDP002 | Primary MOBO | DAILY ONCE | N/A |
|  | INTHDP003 | Secondary MOBO | DAILY ONCE | N/A |
|  | INTHDP004 | Daily SIM Selling Outlet (SSO) | DAILY ONCE | N/A |
|  | INTHDP005 | RGU-GA with Injection 7K | DAILY ONCE | N/A |
|  | INTHDP006 | Tertiary Sales | DAILY ONCE | N/A |
|  | INTHDP007 | Organization MOBO Balance | DAILY ONCE | N/A |
|  | INTHDP008 | Prepaid Service Revenue | DAILY ONCE | N/A |
|  | INTHDP009 | MOBO Usage Revenue | DAILY ONCE | N/A |
|  | 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 | 400000 |

# ANNEXURES

## Appendix A: Analysis Documentation

In this section is list of files / document names / provided links to all diagrams, models, additional findings pertinent to technical specification development:

|  |  |
| --- | --- |
| FILE | DESCRIPTION |
|  | Collected Business & Functional Requirements Specification from TIMWETECH |
|  | IBRS from ISAT |

## Appendix B: 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) |  |  |
|  | Signature | Date |
| 1. **ROMET ROOSALU** Project Manager (TIMWETECH) |  |  |
|  | Signature | Date |
| 1. **ROBBY AL-AZIZ** Business User (INDOSAT) |  |  |
|  | Signature | Date |
| 1. **DEDY ANDRIAN WIDYANTO** IT HADOOP DevOps (INDOSAT) |  |  |
|  | Signature | Date |
| 1. **BUDI PRIYAMBODO** Channel Team (INDOSAT) |  |  |
|  | Signature | Date |
| 1. **PRADYOT CHANDRA SINGH** Requester (INDOSAT) |  |  |
|  | Signature | Date |
| 1. **SANTI ROSANA** IT-DevOps (INDOSAT) |  |  |
|  | Signature | Date |

## E-mail approval screen captures

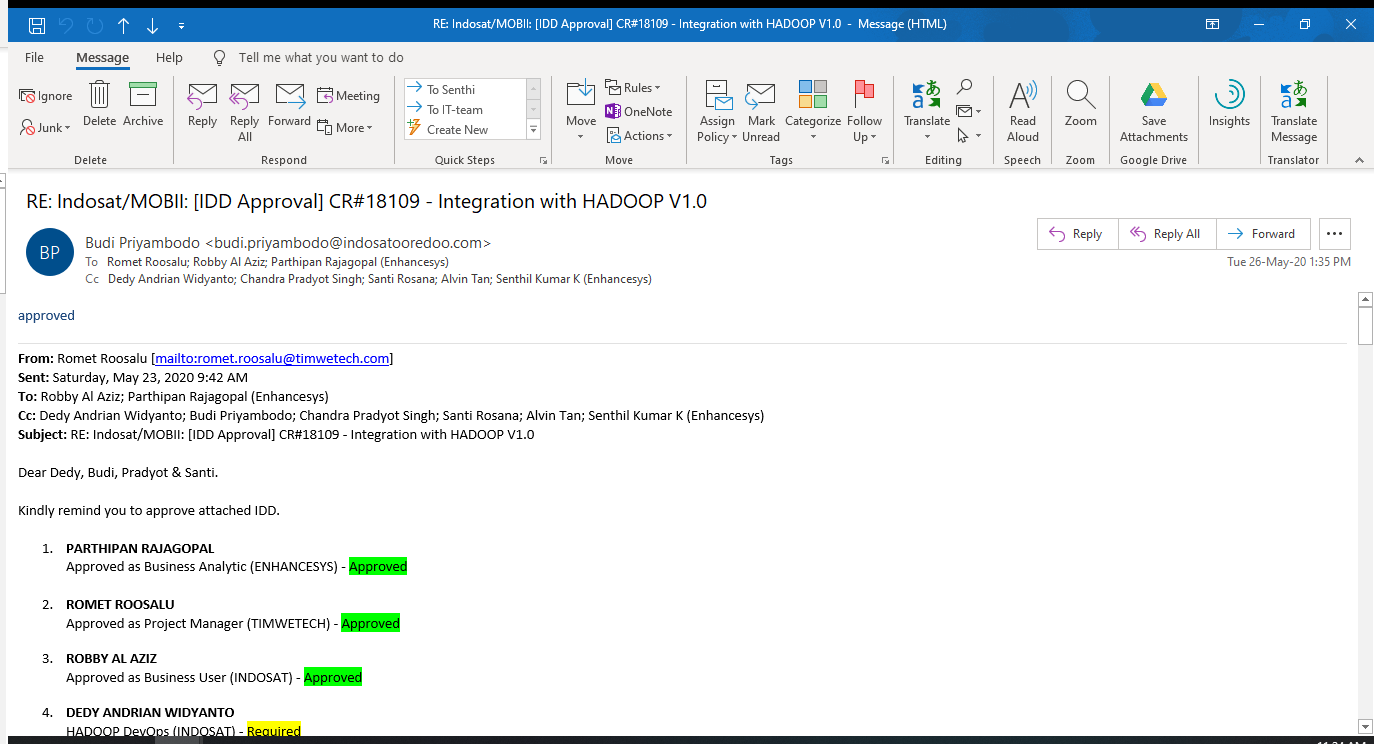
1. PARTHIPAN RRAJAGOPAL / Business Analytic (ENHANCESYS)

2. ROMET ROOSALU / Project Manager (TIMWETECH)

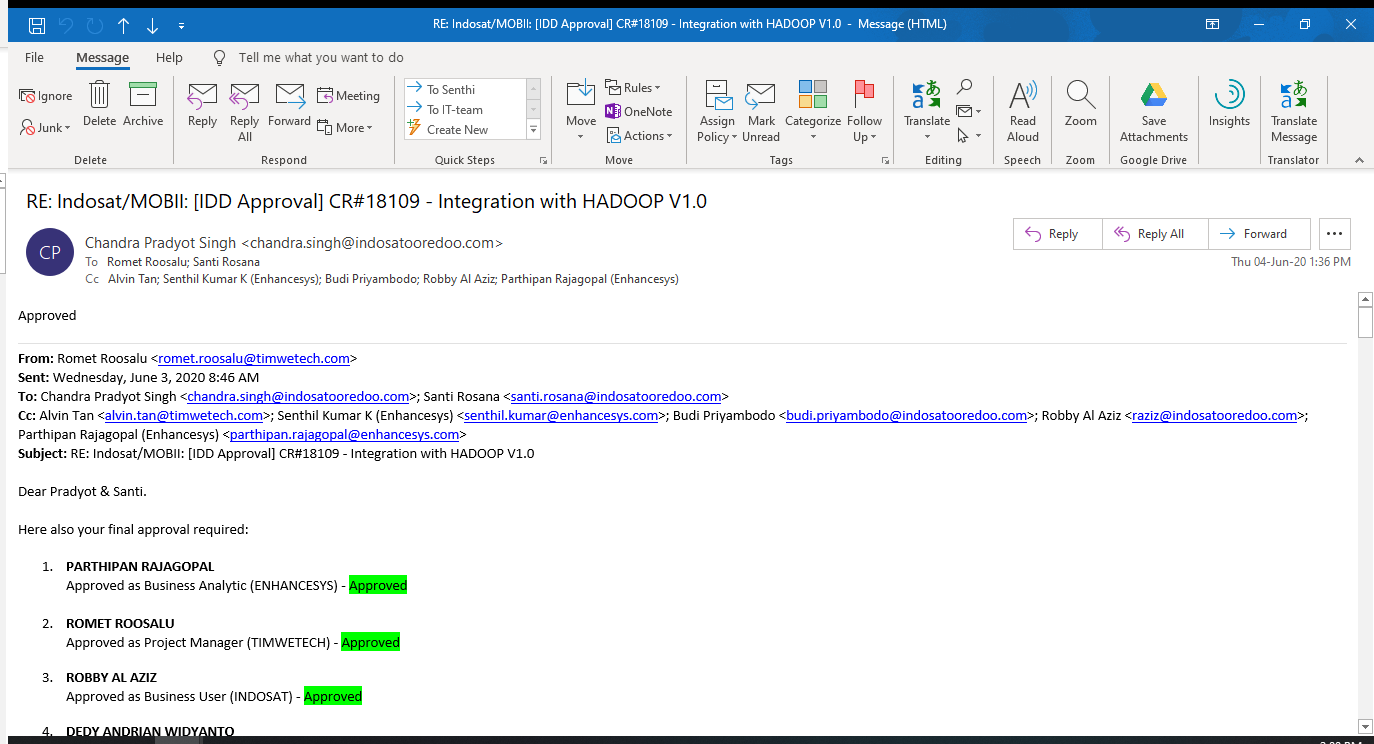
3. ROBBY AL-AZIZ / Business User (INDOSAT)

4. DEDY ANDRIAN WIDYANTO / IT HADOOP DevOps (INDOSAT)

4. BUDI PRIYAMBODO / Channel Team (INDOSAT)



5. PRADYOT CHANDRA SINGH / Requester (INDOSAT)



6. SANTI ROSANA / IT-DevOps (INDOSAT)

