



VERSION 0.4

MAY 13, 2020

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INTEGRATION SPECIFICATION

Integration with HADOOP

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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 & 1 st 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

INTEGRATION SPECIFICATION

INTERFACES

INTERFACE ID	NAME
INTHDP001	Site Mapping
INTHDP002	Primary MOBO
INTHDP003	Secondary MOBO
INTHDP004	Daily SIM Selling Outlet (SSO)
INTHDP005	RGU-GA with Injection
INTHDP006	Tertiary Sales
INTHDP007	Organization MOBO Balance
INTHDP008	Prepaid Service Revenue
INTHDP009	MOBO Usage Revenue
INTHDP010	Acquisition Revenue
INTHDP011	Low revenue Sites
INTHDP012	Sites with RGU-GA
INTHDP013	Cross Selling Cluster Reload
INTHDP014	Cross Selling Area Data Package
INTHDP015	Outlet Program Achiever
INTHDP016	Onetime Allocation Payment
INTHDP017	URO 20K

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

MOBII accept offline files from surrounding systems using SFTP access. All incoming files to MOBII must be copied to MOBII server path. Server access details will be communicated with team before deployment. SFTP access (port 22) between Surrounding (HADOOP) to MOBII must be enabled by Indosat hardware team.

AUTHENTICATION

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

Servers:	10.34.19.136
Username:	hdpuser
Password:	<shared privately>
Group:	hdpgroup

STANDARDS

OFFLINE DATA FILE FEED

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 is no record available for the day still file must be shared to MOBII just with header.
- HADOOP must push the files to MOBII SFTP server path. File format and path are explained in corresponding interface section.
- While sharing file to MOBII path there must be two files shared for each interface. One file is called actual file it contains the actual records and another file is called control file and it contains Meta data information about actual file (for file contents please refer next section).
- Only agreed file names will be considered from SFTP path.
- Other files will not be considered for process and MOBII support team can delete from SFTP path by not informing to anyone.
- MOBII schedulers are configured to accept the files from 2AM daily, so file must be available in MOBII SFTP path before that.
- After that MOBII process starts validating 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.
- Both rejected and actual files are moved to backup and available to download from MOBII web UI for a particular period after that that it will be deleted from system.
- 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.
- Fields delimiter:
 - Actual file: pipe – '|', field values that contain the pipe character
- Control file: the field separator will be TAB.
- Below status will be maintained for each file:
 - File Received
 - File Processed
 - File Completed
 - File Rejected
 - File Partially Rejected

CONTROL FILE



MOBII always accept the offline files along with control file, this file needs to be generated for every sync file.

Control file contains below details with <TAB> delimiter.

No	Field	Mandatory	Data Types	Description
1	Sync file gen Date	Yes	Date Time	Date of file generated. In the format YYYY-MM-DD HH:MM:SS in 24 hour format
2	Number of Row in Sync File	Yes	Number	Number of rows in the .csv file including header.
3	Size	Yes	Number	Sync file size in bytes
4	Hash Key	Yes	String	MD5 hash key of sync .csv file. /usr/bin/md5sum UNIX command will be used to generate the key.
5	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.
- HADOOP must copy the actual file first to the SFTP path and then control file, when MOBII transfer the file from SFTP to local it searches the control file first and then actual file.
- MOBII will generate the MD5 hash key for actual file and compare this key with control file key and 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.

SAMPLE OF ACTUAL AND CONTROL FILE

File	Description
 primary_mobo_bi_20200504.csv.gz	Actual file
 primary_mobo_bi_20200504.cti.gz	Control file

FILE FREQUENCY

No	Field	Description
1	Daily	File shared to MOBII SFTP once in a day
2	Monthly	File shared to MOBII SFTP once in a month
3	Hourly	File shared to MOBII SFTP every hour
4	Weekly	File shared to MOBII SFTP once in a week

DATA FREQUENCY

D – Referred for Date (D-1 is considered as yesterday)

M – Referred for Month (M-1 is considered previous month)

W – Referred for Week (W-1 is considered previous week)

POSSIBLE REJECTION CASES

FILE REJECTION REASONS

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

RECORD REJECTION REASONS

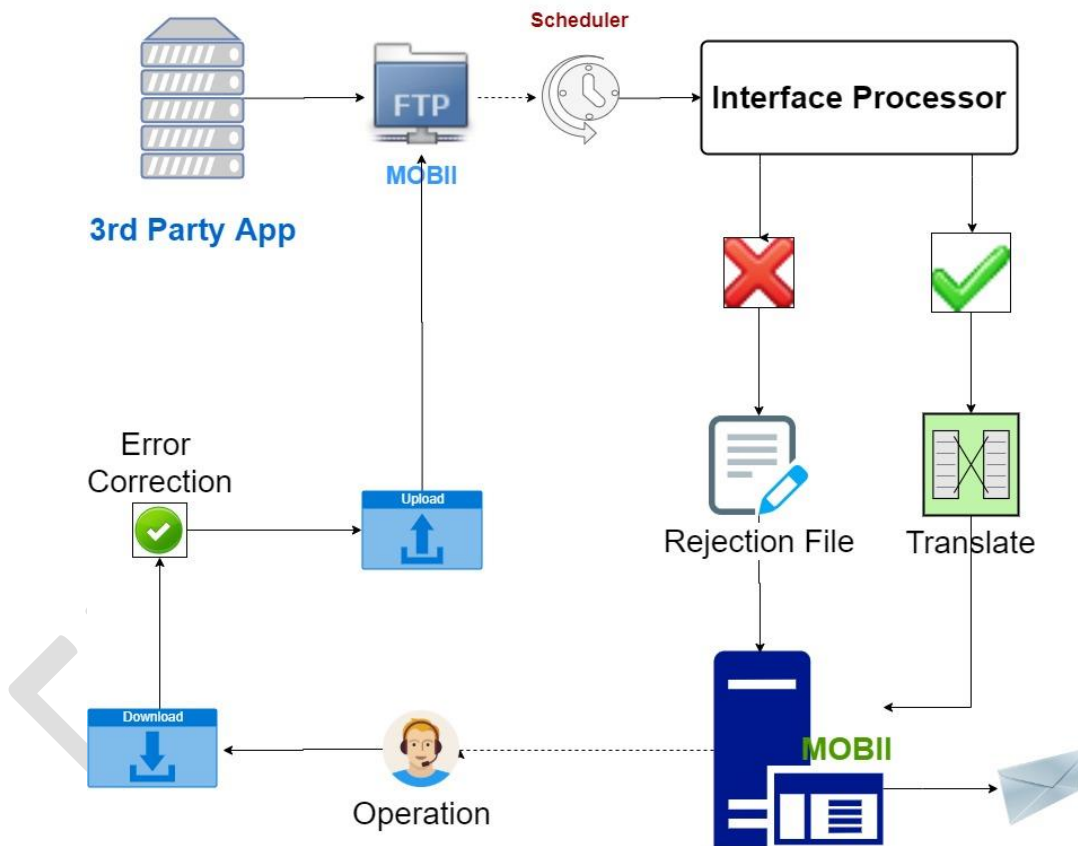
- During file processing, if any record is rejected, all records will be processed except the erroneous one.
- Such rejected records details will be collected in separate file and would be pushed to FTP path & alert will be sending to operation team on email. User needs to download and correct such records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

OFFLINE INTERFACE 3rd PARTY - MOBII



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 skip 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is site_mapping_bi_20200203013512.csv.gz
- Sample Control File Name is site_mapping_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Site mapping date with sales territory
2	SITE_ID	Yes	String	Unique reference code for site reference
3	LONGITUDE	Yes	Double	Site location longitude (Max 15 decimal points are allowed)
4	LATITUDE	Yes	Double	Site location latitude (Max 15 decimal points are allowed)
5	MICRO_CLUSTER	Yes	String	Micro cluster reference code from sales territory
6	SALES_CLUSTER	Yes	String	Cluster reference code from sales territory
7	SALES_AREA	Yes	String	Sales area reference code from sales territory
8	AREA	Yes	String	Area reference code from sales territory
9	REGION	Yes	String	Region reference code from sales territory
10	JAVA_NONJAVA	Yes	String	Region classification type
11	SITE_NAME	Yes	String	Site name for reference
12	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 exist in MOBII
```

PRIMARY MOBO (INTHDP002)

INTERFACE TYPE:	Off-line file feed
INTERFACE METHOD:	Batch file
INITIATOR 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is primary_mobo_bi_20200203013512.csv.gz
- Sample Control File Name is primary_mobo_bi_20200203013512.ctl.gz

FILE PATH

- SFTP PATH
 - Master: /home/hdpuser/interfaces/HADOOP/master_files/primary_mobo/
- MOBI 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

No	Field	Mandatory	Data Types	Description
1	MPC_CODE	Yes	String	MPC reference code
2	MOBO_DATE	Yes	Date – YYYYMMDD	MOBO allocation date
3	AMOUNT	Yes	Double	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 MOBI web. If any records are rejected, then rejected files can be downloaded from MOBI 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
INITIATOR 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is secondary_mobo_bi_20200203013512.csv.gz
- Sample Control File Name is secondary_mobo_bi_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

No	Field	Mandatory	Data Types	Description
1	MPC_CODE	Yes	String	MPC reference code
2	DATE	Yes	Date – YYYYMMDD	MOBO Sell-in date
3	ORGANIZATION_ID	Yes	String	Unique outlet reference code
4	DEALER_MSISDN	Yes	String	Outlet SaldoMOBO MSISDN number
5	AMOUNT	Yes	Double	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
```

D-SSO (INTHDP004)

INTERFACE TYPE:	Off-line file feed
INTERFACE METHOD:	Batch file
INITIATOR 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.
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 injection 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 injection qty value will be stored in MOBII.

FILE NAMING

daily_sso_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is daily_sso_bi_20200203013512.csv.gz
- Sample Control File Name is daily_sso_bi_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 Types	Description
1	DATE	Yes	Date – YYYYMMDD	Injection to new SP date
2	MICRO	Yes	String	Unique micro cluster reference code
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	Double	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
INITIATOR 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_ga_injection_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is rgu_ga_injection_bi_20200203013512.csv.gz
- Sample Control File Name is rgu_ga_injection_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	RGU-GA date from new SP
2	MICRO	Yes	String	Unique micro cluster reference code
3	SITE_ID	Yes	String	Unique site reference code
4	ID_OUTLET	Yes	String	Outlet unique reference code
5	STATUS_INJECTION	Yes	String	Status of injection of received RGU-GA SP
5	FLAG_ACM	Yes	String	Accumulated injection value
6	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|injected|c. >=7k - <10k|1
20200504|MC-BLOREM|14RBG020|17237761|injected|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|injected|c. >=7k - <10k|1|1001|Mandatory Field SITE_ID is missing
20200504|MC-BLOREM|14RBG020|17237761|injected|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
INITIATOR 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 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-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 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

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

FILE NAMING

tertiary_sales_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is tertiary_sales_bi_20200203013512.csv.gz
- Sample Control File Name is tertiary_sales_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Transaction (recharge) date (MOBO reload/data package to old SP or VC redeem date).
2	MICRO	Yes	String	Unique micro cluster reference code
3	SITE_ID	Yes	String	Unique site reference code
4	OUTLET	Yes	String	Outlet unique reference code
5	AMOUNT	Yes	Double	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
INITIATOR 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 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 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 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

organization_closing_balance_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is organization_closing_balance_bi_20200203013512.csv.gz
- Sample Control File Name is organization_closing_balance_bi_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

No	Field	Mandatory	Data Types	Description
1	MOBO_DATE	Yes	Date – YYYYMMDD	Date for the closing balance
2	ORG_CODE	Yes	String	Unique organization reference code (Both MPC and Outlet)
3	AMOUNT	Yes	Double	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
INITIATOR 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_usage_revenue_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is total_usage_revenue_bi_20200203013512.csv.gz
- Sample Control File Name is total_usage_revenue_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Revenue date
2	MICRO	No	String	Unique micro cluster reference code
3	SITE_ID	No	String	Unique site reference code
4	REVENUE_TYPE	Yes	String	Type of revenue
5	REVENUE_TOTAL	Yes	Double	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
INITIATOR 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_usage_revenue_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is mobo_usage_revenue_bi_20200203013512.csv.gz
- Sample Control File Name is mobo_usage_revenue_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Revenue date
2	MICRO	No	String	Unique micro cluster reference code
3	SITE_ID	No	String	Unique site reference code
4	REVENUE	Yes	Double	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
INITIATOR 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

total_rgu_ga_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is total_rgu_ga_bi_20200203013512.csv.gz
- Sample Control File Name is total_rgu_ga_bi_20200203013512.ctl.gz

FILE PATH

- SFTP PATH
 - Master: /home/hdpuser/interfaces/HADOOP/master_files/acquisition_revenue/
- MOBI 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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Revenue date
2	MICRO	No	String	Unique micro cluster reference code
3	SITE_ID	No	String	Unique site reference code
4	REVENUE	Yes	Double	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 MOBI web. If any records are rejected, then rejected files can be downloaded from MOBI 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
INITIATOR 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is low_revenue_site_bi_20200203013512.csv.gz
- Sample Control File Name is low_revenue_site_bi_20200203013512.ctl.gz

FILE PATH

- SFTP PATH
 - Master: /home/hdpuser/interfaces/HADOOP/master_files/low_revenue_site/
- MOBI 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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Revenue date
2	MICRO	Yes	String	Unique micro cluster reference code
3	SITE_ID	Yes	String	Unique site reference code
4	CATEGORY	Yes	String	Site category (Java/Non-Java)
5	TARGET	No	Double	Target on the revenue (Max 2 decimal points are allowed)
6	REVENUE	Yes	Double	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 MOBI web. If any records are rejected, then rejected files can be downloaded from MOBI 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
INITIATOR 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is site_rgu_ga_bi_20200203013512.csv.gz
- Sample Control File Name is site_rgu_ga_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Revenue date
2	MICRO	Yes	String	Unique micro cluster reference code
3	SITE	Yes	String	Unique site reference code
4	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
INITIATOR 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is cross_reload_bi_20200203013512.csv.gz
- Sample Control File Name is cross_reload_bi_20200203013512.ctl.gz

FILE PATH

- SFTP PATH
 - Master: /home/hdpuser/interfaces/HADOOP/master_files/cross_reload/
- MOBI 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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Reload date
2	CLUSTER_ID	Yes	String	Unique cluster reference code
3	CATEGORY	Yes	String	Java / Non Java
4	CLUSTER_TYPE	Yes	String	Inner/Outer (when a cluster is having both inner and outer it should be given in two records)
5	TOTAL_RELOAD	Yes	Double	Total reload value for the date (Max 2 decimal points are allowed)
6	CROSS_RELOAD	Yes	Double	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 MOBI web. If any records are rejected, then rejected files can be downloaded from MOBI 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
INITIATOR 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_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is cross_data_bi_20200203013512.csv.gz
- Sample Control File Name is cross_data_bi_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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Reload date
2	CLUSTER_ID	Yes	String	Unique cluster reference code
3	TOTAL_DATA	Yes	Double	Total data value for the date (Max 2 decimal points are allowed)
4	CROSS_DATA	Yes	Double	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
INITIATOR 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_achiever_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is outlet_program_achiever_bi_20200203013512.csv.gz
- Sample Control File Name is outlet_program_achiever_bi_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

No	Field	Mandatory	Data Types	Description
1	MONTH_ID	Yes	Date – YYYYMM	Month reference
2	CLUSTER	Yes	String	Unique cluster reference code
3	ID_OUTLET	Yes	String	Unique outlet reference code
4	TARGET	Yes	Double	Sales value target (Max 2 decimal points are allowed)
5	ACTUAL	Yes	Double	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
INITIATOR 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

ontime_alloc_payment_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is ontime_alloc_payment_bi_20200203013512.csv.gz
- Sample Control File Name is ontime_alloc_payment_bi_20200203013512.ctlgz

FILE PATH

- SFTP PATH
 - Master: /home/hdpuser/interfaces/HADOOP/master_files/alloc_payment/
- MOBI 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

No	Field	Mandatory	Data Types	Description
1	MONTH_ID	Yes	Date – YYYYMM	Month reference
2	CLUSTER	Yes	String	Unique cluster reference code
3	MPC_CODE	Yes	String	Unique MPC reference code
4	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 MOBI web. If any records are rejected, then rejected files can be downloaded from MOBI 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
INITIATOR 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

uro_20k_bi_<YYYYMMDDHH24MISS>.csv.gz

- <YYYYMMDDHH24MISS> = date and time of file generation.
- Sample Actual File Name is uro_20k_bi_20200203013512.csv.gz
- Sample Control File Name is uro_20k_bi_20200203013512.ctl.gz

FILE PATH

- SFTP PATH
 - Master: /home/hdpuser/interfaces/HADOOP/master_files/uro20/
- MOBI 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

No	Field	Mandatory	Data Types	Description
1	DATE	Yes	Date – YYYYMMDD	Date reference
2	MICRO	Yes	String	Unique micro cluster reference code
3	SITE_ID	Yes	String	Unique site reference code
4	OUTLET	Yes	String	Unique Id outlet
5	HIT	Yes	Number	Number transactions
6	AMOUNT	Yes	Double	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 MOBI web. If any records are rejected, then rejected files can be downloaded from MOBI 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
```

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
 02-BR - 18109-Integration w	Collected Business & Functional Requirements Specification from TIMWETECH
 iBRS - 0003-IDH-IDHD-BAL-	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
1.	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 records need to be aggregated to site or micro cluster level.	Parthipan	Open
2.	Where ever 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)	Robby	Open
3.	INTHDP004, INTHDP005 and INTHDP017 mandatory information for fields has to be confirmed.	Robby	Open

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

2. **ROMET ROOSALU**
Project Manager (TIMWETECH)

Signature

Date

3. **YOKIE YUSNIKA SUPONO**
Project Manager (INDOSAT)

Signature

Date

4. **ROBBY AL-AZIZ**
Business User (INDOSAT)

Signature

Date

5. **DEDY ANDRIAN WIDYANTO**
HADOOP DevOps (INDOSAT)

Signature

Date

6. **BUDI PRIYAMBODO**
Channel Team (INDOSAT)

Signature

Date

7. **SANTI ROSANA**
IT-DevOps (INDOSAT)

Signature

Date