

# Data & Integration Practice

Acceptance Test Case Specification Format



# Enterprise Data Platform

## Acceptance Test Case Sample Specification

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# 1.0 Acceptance Test Case Sample Specification

## 1.1 Acceptance Test Case Introduction

An Acceptance Test Case is a criterion-driven ‘specification by example’ that describes the behavior of a software product through various usage scenarios.

Acceptance Test Cases are written by domain experts by collaborating with end customers. It acts as a functional contract between the customers and the developers. The software products are verified & validated based on Acceptance Test Cases by customers for its functional correctness before accepting it from the developers and developers implement & test their software products based on Acceptance Test Cases before releasing it to the end users.

Acceptance Test Cases include a set of:

- **Acceptance Criteria** and
- **Specification by Example**

**Acceptance Criteria** are the conditions of satisfaction that specifies the boundary for requirements statement and correctness of deliverables.

**Specification by Example** defines behaviors as scenarios and provides examples to implement, verify & validate that the software products and features work as expected.

This document provides a sample format for describing Acceptance Test Cases in order to repeat the process of specifying the behavior of a software product through various usage scenarios. This sample is based on the Enterprise Data Platform (EDP) requirements of Consumer Loan & Consumer Lease Account Data Synchronization between Legacy Systems (i.e. Shaw & LeMans) and Customer Engagement Platform (CEP). These Acceptance Test Cases are specified for EDP Implementation Milestone 3 Deliverables as included in the vendor SOW.

## 1.2 Consumer Loan Account Data Synchronization Service

### 1.2.1 Consumer Loan Account Data Synchronization Service Acceptance Criteria

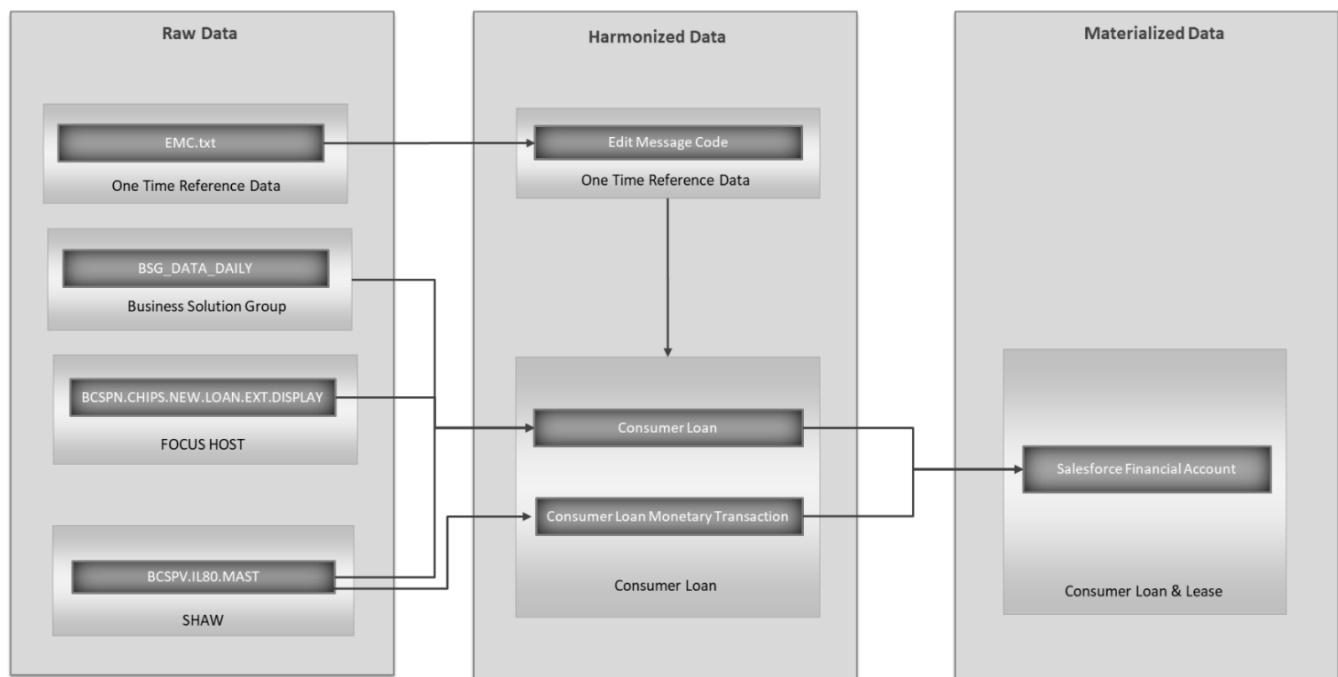
#### 1.2.1.1 Consumer Loan Source Data Interfaces

The table below depicts Source Interface name & description with the respective IR Interface for Consumer Loan Account.

		Source Interface	IR Interface	Description
Consumer Loan	SHAW	BCSPV.IL80.MAST	TCDM_STAGE. DM_STG_RETAIL_LOAN_MAST_DLY	SHAW Consumer Loan Master
	FOCUS HOST	BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	TCDM_STAGE. DM_IR_STG_RTL_FIN_DATA	Consumer Loan Derived Information
Common	BSIS	BUSINESS.SOLUTIONS.GROUP	TCDM_STAGE.DM_IR_STG_BSG_DATA_DAILY	Private Fleet Master

#### 1.2.1.2 Consumer Loan Source Data Interface Mapping

The diagram below illustrates the Source Data Interfaces and Data Mapping across Raw Data, Harmonized Data & Materialized Data layers for Consumer Loan.

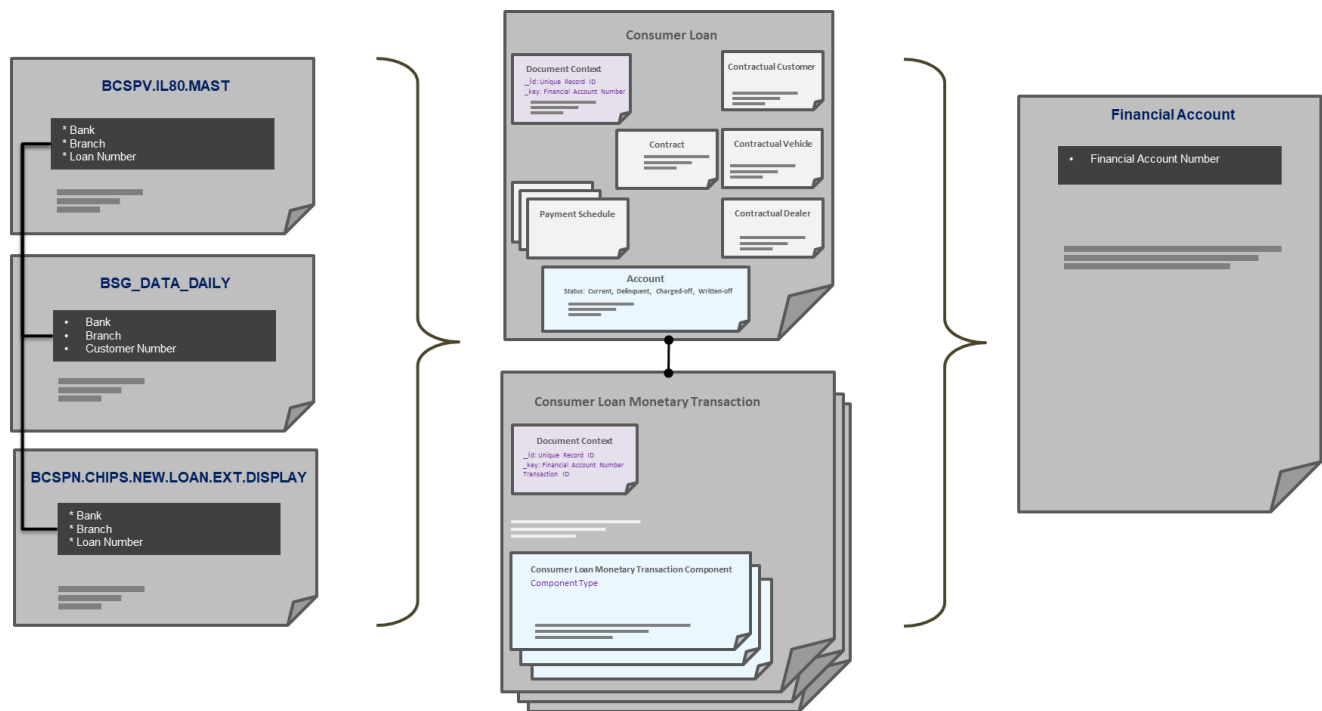


## Acceptance Criteria

- It is necessary that EMC.txt is Received & Ingressed into Raw Data Store in native-format as a one-time data-feed.
- It is necessary that BSG\_DAILY\_DATA from Business Solution Group System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY from Focus Host System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that BCSPV.IL80.MAST from Shaw System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that Raw Data across BSG\_DAILY\_DATA, BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY & BCSPV.IL80.MAST is mapped to Consumer Loan & Consumer Loan Monetary Transaction in Harmonized Data Store as per the Harmonization mapping rules.
- It is necessary that Consumer Loan & Consumer Loan Monetary Transaction in Harmonized Data Store is mapped to Financial Account in Materialized Data Store as per the Materialization mapping rules.

### 1.2.1.3 Consumer Loan Source Data Correlation

The diagram below captures the Data Correlation Key for Harmonization & Materialization of Consumer Loan Account.



### Acceptance Criteria

- It is necessary that Consumer Loan Account Data received from Shaw, Focus Host & BSG is correlated using the Business Key (Bank, Branch & Loan Number) along with Interaction Group ID & Interaction ID and harmonized into a single Account Record.
- It is necessary that Most Recent Payments for a given Financial Account Number is UPSERTed into Consumer Loan Monetary Transaction collection.



### 1.2.1.4 Consumer Loan Source Data Mapping Sample

The table below shows a small sub-set of data harmonization mapping rules for Consumer Loan Account.

Source File/Table Name	Source Field Name	Harmonized Data Concept Name	Key	Transformation Logic/Mapping
BCSPV.IL80.MAST	BK	Current Retail Loan Portfolio Type	x	Simple Copy
BCSPV.IL80.MAST	BR	Current Dealer Sales And Service Office Retail Code	x	Simple Copy
BCSPV.IL80.MAST	CUS	Loan Number	x	Simple Copy
BCSPV.IL80.MAST	LN	Schedule Number	x	Simple Copy
BCSPV.IL80.MAST	BK BR CUS LN	Financial Account Number	x	Concatenate Bank (Current Retail Loan Portfolio Type), Branch (Current Dealer Sales And Service Office Retail Code ), Customer Number (Loan Number), Loan Number (Schedule Number)  [Bank][Branch][Loan Number][Schedule Number] [999][999][AAAAAA][9999]
BCSPV.IL80.MAST	PAST_DTE	90% Rule Oldest Delinquent Invoice Due Date		If substring(Principle Past Due Date,2,5) is '00000' or Principle Past Due Date is '0' populate Null else convert the Julian date format to date format (mm/dd/yyyy)
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_PAST_DUE_AMT	90% Rule Past Due Amount		Simple Copy
BUSINESS_SOLUTION_GROUP	BSG_INDICATOR	Business Solution Group Indicator		Match (Bank   Branch Number   Customer Number) as Account Number to extract Business Solution Group Indicator: If Business Solution Group Indicator is 'B', then populate '1' else '0'
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_PMT_HIST_15DAYS	15-29 Days Delinquency Counter		Simple Copy
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_PPMT_30PLUS_DAYS_FLAG	30+ Days Delinquent Indicator		Trim Spaces
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_PMT_HIST_30DAYS	30-59 Days Delinquency Counter		Simple Copy
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_PMT_HIST_60DAYS	60-89 Days Delinquency Counter		Simple Copy
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_PMT_HIST_90DAYS	90-119 Days Delinquency Counter		Simple Copy
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_ACH_ACCOUNT_NUMBER	Automated Clearing House Bank Account Number		Trim Spaces
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_ACH_ACCOUNT_TYPE	Automated Clearing House Bank Account Type		Trim Spaces
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_ACH_ROUTING_NUMBER	Automated Clearing House Bank Routing Number		Trim Spaces
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_ACH_CUR_EFF_DATE	Automated Clearing House Current Effective Date		If date is valid then convert to date format (mm/dd/yyyy) else null
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_NEXT_ACH_DATE	Automated Clearing House Next Payment Due Date		If date is valid then convert to date format (mm/dd/yyyy) else null
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_ACH_ORG_EFF_DATE	Automated Clearing House Original Effective Date		If date is valid then convert to date format (mm/dd/yyyy) else null
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_ACH_FLAG	Automated Clearing House Payment Indicator		Trim Spaces
BCSPN.CHIPS.NEW.LOAN.EXT.DISPLAY	BR5030N_BALLOON_PMT_AMOUNT	Balloon Payment Amount		Convert to Decimal with a scale of 2
BCSPV.IL80.MAST	NOTE_DTE	Contract Signed Date		Step1: If substring(Note Date,2,5) is '00000' or Note Date is '0' populate Null else convert the Julian date format to date format (mm/dd/yyyy)  Step2: If date is valid, populate value else Null

### Acceptance Criteria

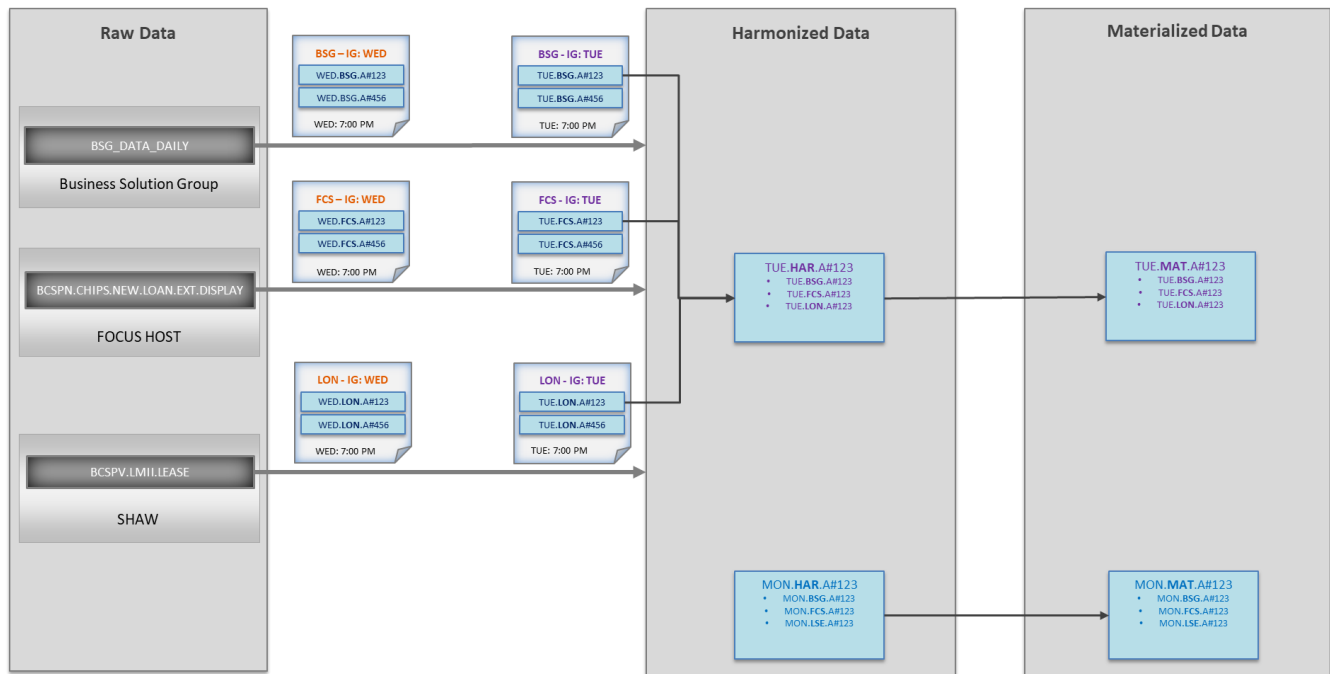
- It is necessary that Business Solution Group Indicator is deduced based on BSG Indicator (loaded from BSG Master) for a given Financial Account number.
- It is necessary that BSG Indicator value “B” is mapped to “1” and other values are mapped to “0”



### 1.2.1.5 Consumer Loan Data Pipeline Processing

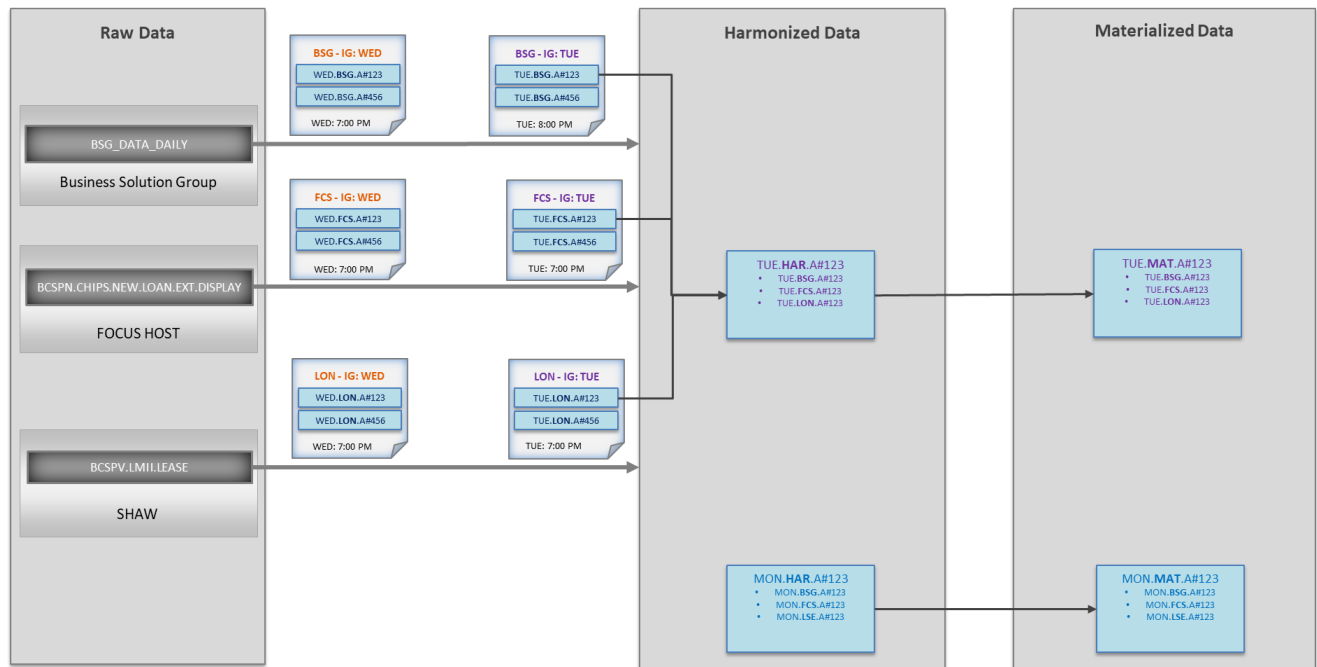
#### TUE Batch Received On Time Scenario Acceptance Criteria

- It is necessary that Consumer Loan Account Data for TUE Batch received from Business Solution Group (at TUE 7:00 PM), Focus Host (at TUE 7:00 PM) & Shaw (at TUE 7:00 PM) is correlated & integrated into a single Harmonized Consumer Loan Account by Financial Account Number.



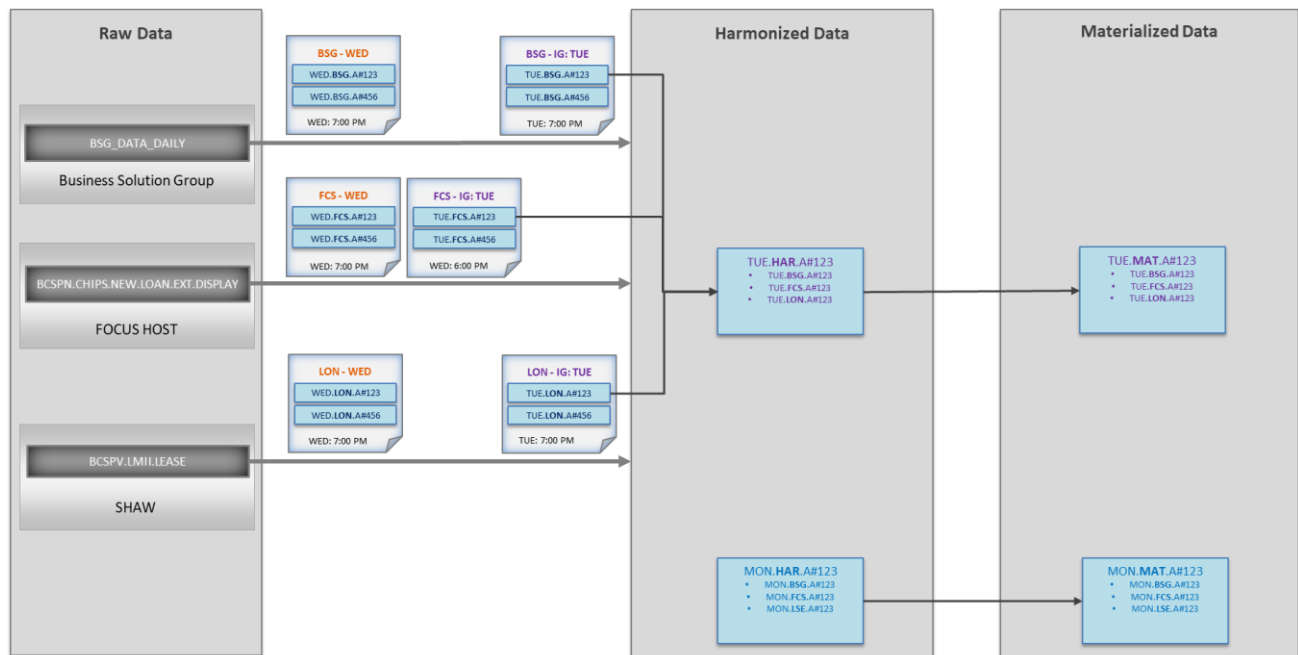
#### TUE Batch Received Late by Few Hours Scenario Acceptance Criteria

- It is necessary that Consumer Loan Account Data for TUE Batch received from Business Solution Group (at TUE 8:00 PM), Focus Host (at TUE 7:00 PM) & Shaw (at TUE 7:00 PM) is correlated & conjugated into a single Harmonized Consumer Loan Account by Financial Account Number.



## TUE Batch Received Late by One Day Scenario Acceptance Criteria

- It is necessary that Consumer Loan Account Data for TUE Batch received from Business Solution Group (at TUE 7:00 PM), Focus Host (at WED 8:00 PM) & Shaw (at TUE 7:00 PM) is correlated & conjugated into a single Harmonized Consumer Loan Account by Financial Account Number.



## 1.2.2 Consumer Loan Account Data Synchronization Service Specification By Example

### 1.2.2.1 Consumer Loan Ingression Services

**Feature:** Ingress Shaw Loan Master Data into Raw Data Store

**Scenario:** Ingress Shaw Loan Master Data

**Given** Shaw Loan Master Interface Batch Data File is Delivered at <Delivery Time>

**And** Shaw Loan Master Interaction Group ID is <IL80.GroupID>

**And** Shaw Loan Master Interaction ID is <IL80.ID>

**When** Shaw Loan Master Interface Ingression Service is Invoked

**Then** Shaw Loan Master is Ingested into Raw Data Store at <Ingression Completion Time>

**Examples:**

IL80. Group ID	IL80. ID	Delivery Time	Ingression Completion Time
TUE	I#100	09-25-18 07:00 PM	09-25-18 07:30 PM

### 1.2.2.2 Consumer Loan Harmonization Services

**Feature:** Harmonize Consumer Loan Account

**Scenario:** Deduce Harmonized 'Financial Account Number'

**Given** Shaw Loan Master Interface Data is Ingested into Raw Data Store

**And** Shaw Loan Master Interaction Group ID is <IL80.GroupID>

**And** Shaw Loan Master Interaction ID is <IL80.ID>

**And** Shaw Loan Master Delivery Time is <IL80.Time>

**And** Shaw Loan Master Bank Number is <IL80.BK>

**And** Shaw Loan Master Branch Number is <IL80.BR>

**And** Shaw Loan Master Loan Number is <IL80.CUS>

**And** Shaw Loan Master Schedule Number is <IL80.LN>

**When** Consumer Loan Account Harmonization Service is Invoked

**Then** Harmonized Financial Account Number should be <FinancialAccountNumber>

**Examples:**

IL80. Group ID	IL80. ID	IL80. Time	IL80. BK	IL80. BR	IL80. CUS	IL80. LN	Financial Account Number
TUE	I#100	09-25-18 07:00 PM	704	020	1234567	0001	70402012345670001

### Scenario: Deduce Harmonized 'Business Solution Group Indicator'

**Given** Shaw Loan Master Interface Data is Ingested into Raw Data Store  
**And** Shaw Loan Master Interaction Group ID is <IL80.GroupID>  
**And** Shaw Loan Master Interaction ID is <IL80.ID>  
**And** Shaw Loan Master Delivery Time is <IL80.Time>  
**And** Shaw Loan Master Bank Number is <IL80.BK>  
**And** Shaw Loan Master Branch Number is < IL80.BR>  
**And** Shaw Loan Master Loan Number is < IL80.CUS>  
**And** BSSI Bsg Interface Data is Ingested into Raw Data Store  
**And** Bsg File Interaction Group ID is <BSG.GroupID>  
**And** Bsg File Interaction ID is <BSG.ID>  
**And** Bsg File Delivery Time is <BSG.Time>  
**And** Bsg Bank Number is <BSG.BANK>  
**And** Bsg Branch Number is <BSG.BRANCH>  
**And** Bsg Customer Number is <BSG.CUST\_NUMBER>  
**And** Bsg Business Solution Group Indicator is <BSG.BSG\_INDICATOR>  
**When** Consumer Loan Account Harmonization Service is Invoked  
**Then** Harmonized Business Solution Group Indicator should be <BusinessSolutionGroupIndicator>

### Examples:

IL80. Group ID	IL80. ID	IL80. Time	IL80. BK	IL80. BR	IL80. CUS	BSG. Group ID	BSG. ID	BSG. Time	BSG. BANK	BSG. BRANCH	BSG. CUST_NUMBER	BSG. BSG_INDICATOR	Business Solution Group Indicator
TUE	I#100	09-25-18 07:00 PM	704	020	1234567	TUE	I#100	09-25-18 07:00 PM	704	020	1234567	B'	1
TUE	I#100	09-25-18 07:00 PM	704	020	1234567	TUE	I#100	09-25-18 07:00 PM	704	020	1234567	NOT 'B'	0

### Scenario: Deduce Harmonized 'Current Account Close Status Indicator'

**Given** Shaw Loan Master Interface Data is Ingested into Raw Data Store  
**And** Shaw Loan Master Interaction Group ID is <IL80.GroupID>  
**And** Shaw Loan Master Interaction ID is <IL80.ID>  
**And** Shaw Loan Master Delivery Time is <IL80.Time>  
**And** Shaw Loan Master Branch Number is < IL80.BR>  
**And** Shaw Loan Master Loan Number is < IL80.CUS>  
**And** FocusHost Finance Interface Data is Ingested into Raw Data Store  
**And** FocusHost File Interaction Group ID is <BRS030N.GroupID>  
**And** FocusHost File Interaction ID is <BRS030N.ID>  
**And** FocusHost File Delivery Time is <BRS030N.Time>  
**And** FocusHost Branch Number is <BRS030N.BRANCH\_NBR>  
**And** FocusHost Customer Number is < BRS030N.CUST\_NBR>  
**And** FocusHost Business Solution Group Indicator is <BRS030N.CLOSE\_CODE>  
**When** Consumer Loan Account Harmonization Service is Invoked  
**Then** Harmonized Current Account Close Status Indicator should be <Current Account Close Status Indicator>

## Examples:

IL80. Group ID	IL80. ID	IL80. Time	IL80. BR	IL80. CUS	BRS030N. Group ID	BRS030N. ID	BRS030N. Time	BRS030N. BRANCH_NBR	BRS030N. CUST_NBR	BRS030N. CLOSE_CODE	Current Account Close Status Indicator
TUE	I#100	09-25-18 07:00 PM	020	1234567	TUE	I#100	09-25-18 07:00 PM	020	1234567	B'	1
TUE	I#100	09-25-18 07:00 PM	020	1234567	TUE	I#100	09-25-18 07:00 PM	020	1234567	NOT 'B'	0

### 1.2.2.3 Consumer Loan Materialization Services

#### Feature: Materialize Consumer Loan Account

#### Scenario: Deduce Materialized 'Bankruptcy Description'

**Given** Consumer Loan Account Data is Harmonized

**And** Interaction Group ID is <Group ID >

**And** Harmonization Transaction ID is <ID>

**And** Financial Account Number is <Financial Account Number>

**And** Credit Bureau Bankruptcy Status Code is <Credit Bureau Bankruptcy Status Code>

**When** Consumer Loan Account Materialization Service is Invoked

**Then** Materialized Bankruptcy Description should be <Bankruptcy Description>

## Examples:

Group ID	ID	Financial Account Number	Credit Bureau Bankruptcy Status Code	Bankruptcy Description
TUE	I#100	70402012345670001	A	Petition for Ch 7 Bankruptcy
TUE	I#100	70402012345670001	B	Petition for Ch 11 Bankruptcy

### 1.2.2.4 Consumer Loan Egression Services

#### Feature: Egress Consumer Loan Financial Account from Materialized Data Store

#### Scenario: Egress Consumer Loan Financial Account Data

**Given** Consumer Loan Financial Account Data is Materialized at <Materialization Completion Time>

**And** Interaction Group ID is <Group ID >

**And** Materialization Transaction ID is <ID>

**When** Consumer Loan Financial Account Interface Egression Service is Invoked

**Then** Consumer Loan Financial Account Data File is Egressed from Materialized Data Store at <Egression Completion Time>

## Examples:

Group ID	ID	Materialization Completion Time	Egression Completion Time
TUE	I#100	09-25-18 07:00 PM	09-25-18 07:30 PM

## 1.3 Consumer Lease Account Data Synchronization Service

### 1.3.1 Consumer Lease Account Data Synchronization Service Acceptance Criteria

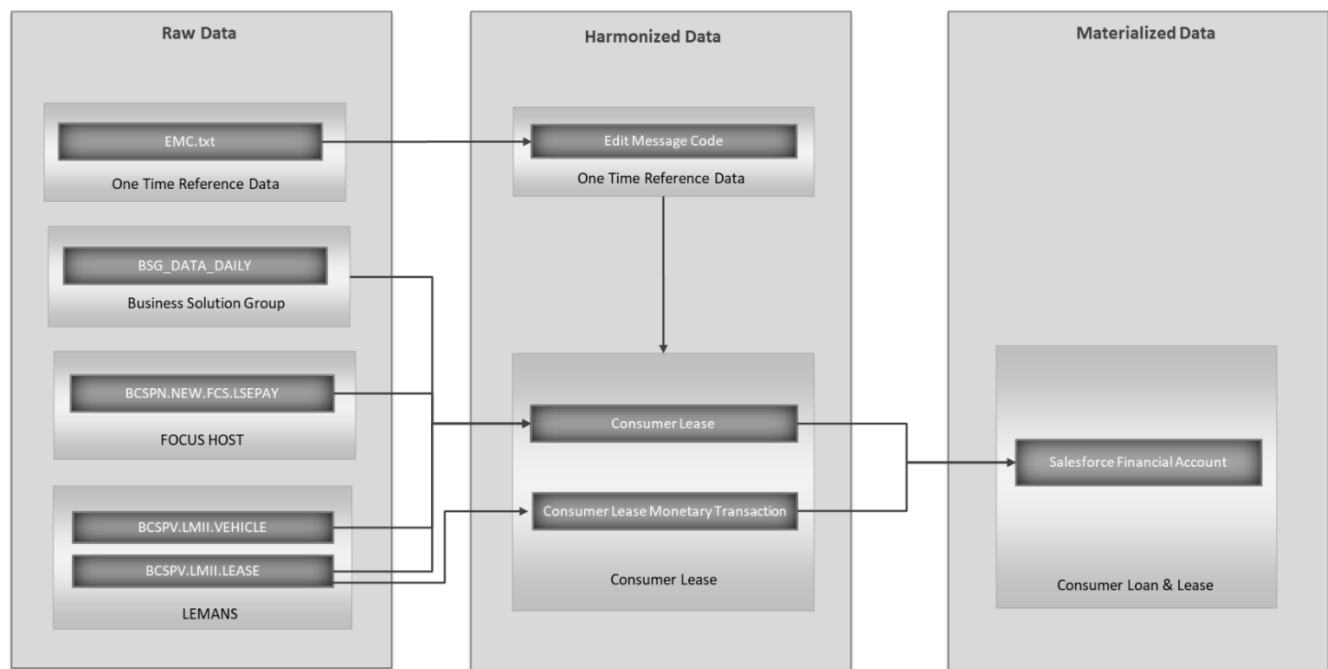
#### 1.3.1.1 Consumer Lease Source Data Interfaces

The table below depicts Source Interface name & Description with their respective IR Interface for Consumer Lease Account.

		Source Interface	IR Interface	Description
Consumer Lease	LEMANS	BCSPN.LMII.LEASE	TCDM_LABS.DM_LEASE_MF12_CONTRACT_DLY	LEMANS Consumer Lease Master
		BCSPN.LMII.VEHICLE	TCDM_LABS.DM_LEASE_MF10_VEHICLE_DLY	LEMANS Vehicle Master
	FOCUS HOST	BCSPN.NEW.FCS.LSEPAY	TCDM_LABS.DM_IR_STG_LSE_FIN_DATA	Consumer Lease Derived Information
Common	BSIS	BUSINESS.SOLUTIONS.GROUP	TCDM_STAGE.DM_IR_STG_BSG_DATA_DAILY	Private Fleet Master

#### 1.3.1.2 Consumer Lease Source Data Interface Mapping

The diagram below illustrates the Source Data Interfaces and Data Mapping across Raw Data, Harmonized Data & Materialized Data layers for Consumer Lease.



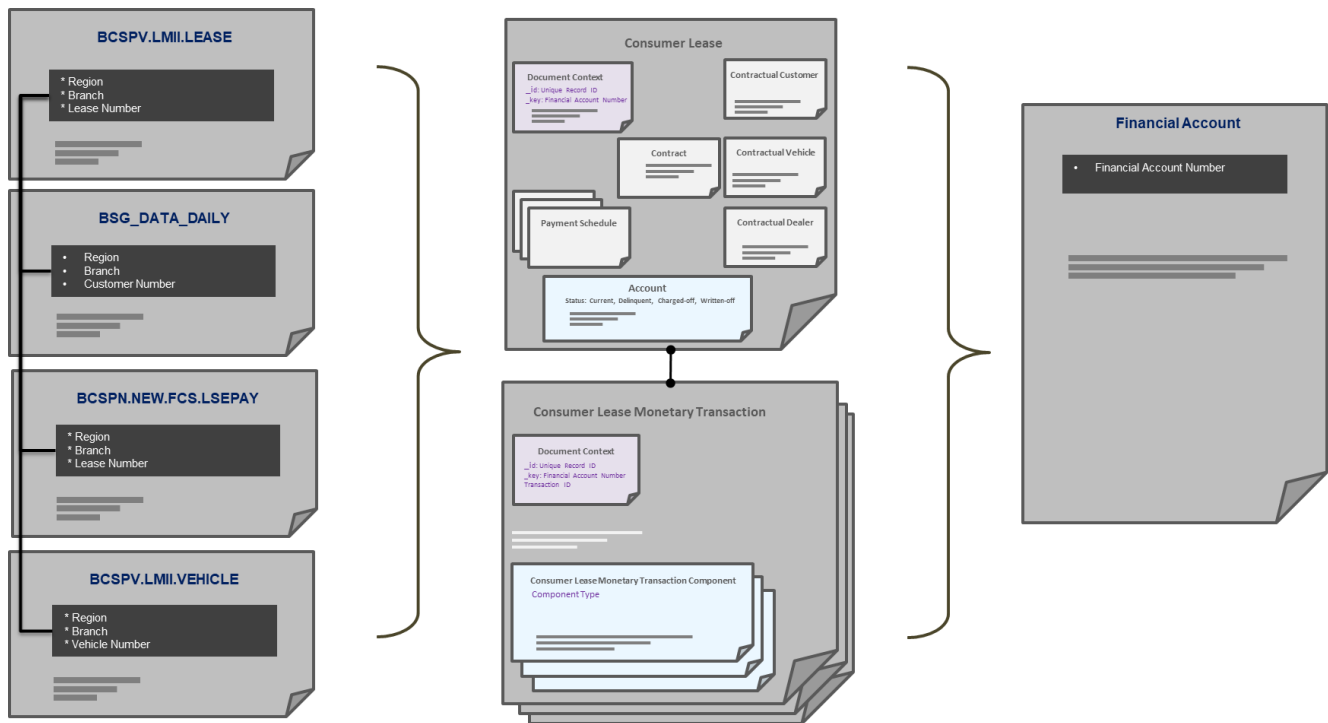
## Acceptance Criteria

- It is necessary that EMC.txt is Received & Ingressed into Raw Data Store in native-format as a one-time data-feed.
- It is necessary that BSG\_DAILY\_DATA from Business Solution Group System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that BCSPN.NEW.FCS.LSEPAY from Focus Host System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that BCSPV.LMII.LEASE from LeMans System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that BCSPV.LMII.VEHICLE from LeMans System is Received & Ingressed into Raw Data Store in native-format as a Daily Batch Data Feed.
- It is necessary that Raw Data across BSG\_DAILY\_DATA, BCSPN.NEW.FCS.LSEPAY, BCSPV.LMII.LEASE & BCSPV.LMII.VEHICLE is mapped to Consumer Lease & Consumer Lease Monetary Transaction in Harmonized Data Store as per the Harmonization mapping rules.
- It is necessary that Consumer Lease & Consumer Lease Monetary Transaction in Harmonized Data Store is mapped to Financial Account in Materialized Data Store as per the Materialization mapping rules.



### 1.3.1.3 Consumer Lease Source Data Correlation

The diagram below captures the Data Correlation Key for Harmonization & Materialization of Consumer Lease Account.



### Acceptance Criteria

- It is necessary that Consumer Lease Account Data received from LeMans, Focus Host & BSG is correlated using the Business Key (Region, Branch & Lease Number) along with Interaction Group ID & Interaction ID and harmonized into a single Account Record.
- It is necessary that Most Recent Payments for a given Financial Account Number is UPSERTed into Consumer Lease Monetary Transaction collection.

### 1.3.1.4 Consumer Lease Source Data Mapping Sample

The table below shows a small sub-set of data harmonization mapping rules for Consumer Lease Account.

Source File/Table Name	Source Field Name	Harmonized Data Concept Name	Ke	Transformation Logic/Mapping
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_REGION	Current Dealer Sales And Service Office Lease Region Code		Simple Copy
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_BRANCH	Current Dealer Sales And Service Office Lease Code		Simple Copy
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_NBR	Lease Number		Simple Copy
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_REGION FCS2_N_LSE_BRANCH FCS2_N_LSE_NBR	Financial Account Number	x	Concatenate Region, Branch and Lease Number [Region][Branch Number][Lease Number] [99][999][AAAAA]
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_DEL_30	30-59 Days Delinquency Counter		Simple Copy
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_DEL_60	60-89 Days Delinquency Counter		Simple Copy
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_DEL_90	90-119 Days Delinquency Counter		Simple Copy
BCSPN.LMIII.LEASE	MF12-LSE-REC-DUE-30 MF12-LSE-REC-DUE-60 MF12-LSE-REC-DUE-90	90% Rule Past Due Amount		SUM(MF12-LSE-REC-DUE-30, MF12-LSE-REC-DUE-60, MF12-LSE-REC-DUE-90)
BCSPN.LMIII.LEASE	MF12-LSE-INV-DUE-DATE	90% Rule Oldest Delinquent Invoice Due Date		IF "90% Rule Past Due Amount" > 0 then MF12-LSE-INV-DUE-DATE
BCSPN.LMIII.LEASE	MF12-LSE-VEH-NBR	Vehicle Number		Simple Copy
BCSPN.LMIII.VEHICLE	MF10-VEH-MAKE	Vehicle Make		JOIN Vehicle Master using Vehicle Number from Lease Master Trim Spaces and Convert to CAPS
BCSPN.LMIII.VEHICLE	MF10-VEH-MODEL	Vehicle Model		JOIN Vehicle Master using Vehicle Number from Lease Master Trim Spaces and Convert to CAPS
BCSPN.LMIII.VEHICLE	MF10-VEH-YR	Vehicle Year		JOIN Vehicle Master using Vehicle Number from Lease Master Simple Copy
BCSPN.NEW.FCS.LSEPAY	FCS2_N_CHARGE_PER_MILE	Vehicle Charge Per Mile		Simple Copy
BCSPN.NEW.FCS.LSEPAY		Effective Vehicle Charge Per Mile		If Vehicle Make = 'TOYOTA' AND Agreement Signed Date <='1/1/1990' Then TO_DECIMAL('0.1') Else Vehicle Charge Per Mile  If Vehicle Make = 'LEXUS' AND Agreement Signed Date <='1/1/1990' TO_DECIMAL('0.1') Else Vehicle Charge Per Mile
BCSPN.NEW.FCS.LSEPAY	FCS2_N_LSE_DATE_LEASE	Agreement Signed Date		Date Conversion from String
BUSINESS_SOLUTION_GROUP	BSG_INDICATOR	Business Solution Group Indicator		Match (Branch Number   Region   Customer Number) as Account Number to extract Business Solution Group Indicator: If Business Solution Group Indicator is 'B', then populate '1' else '0'

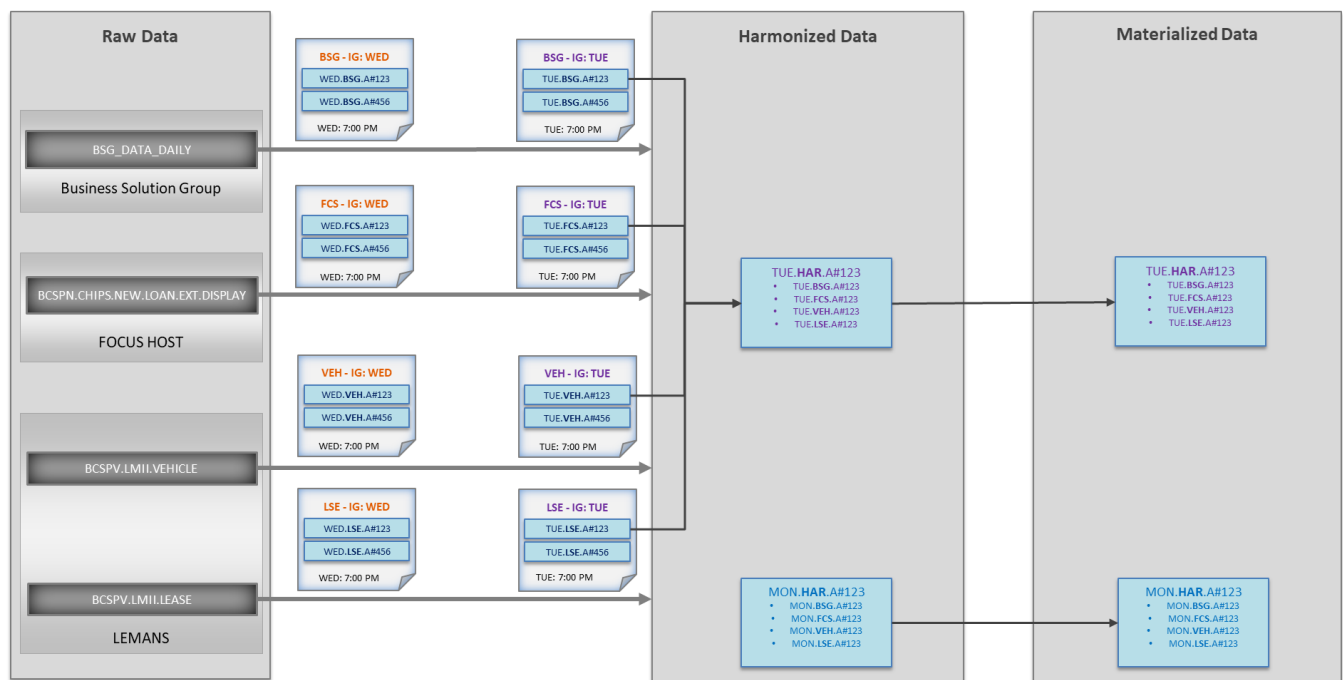
### Acceptance Criteria

- It is necessary that Effective Vehicle Charge Per Mile is deduced based on Vehicle Make (loaded from Vehicle Master) & Lease Agreement Date (loaded from Lease Master) for a given Financial Account number.

### 1.3.1.5 Consumer Lease Data Pipeline Processing

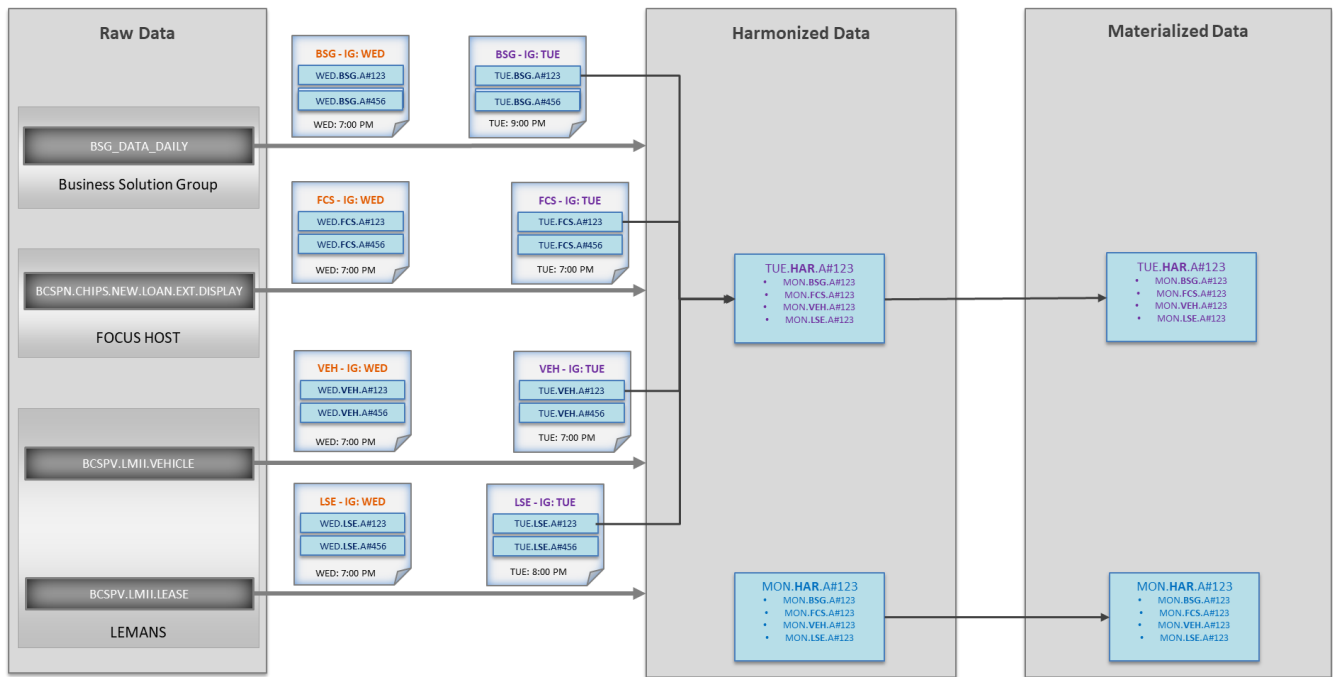
#### TUE Batch Received On Time Scenario Acceptance Criteria

- It is necessary that Consumer Lease Account Data for TUE Batch received from Business Solution Group (at TUE 7:00 PM), Focus Host (at TUE 7:00 PM), LeMans Lease (at TUE 7:00 PM) & LeMans Vehicle (at TUE 7:00 PM) is correlated & conjugated into a single Harmonized Consumer Lease Account by Financial Account Number.



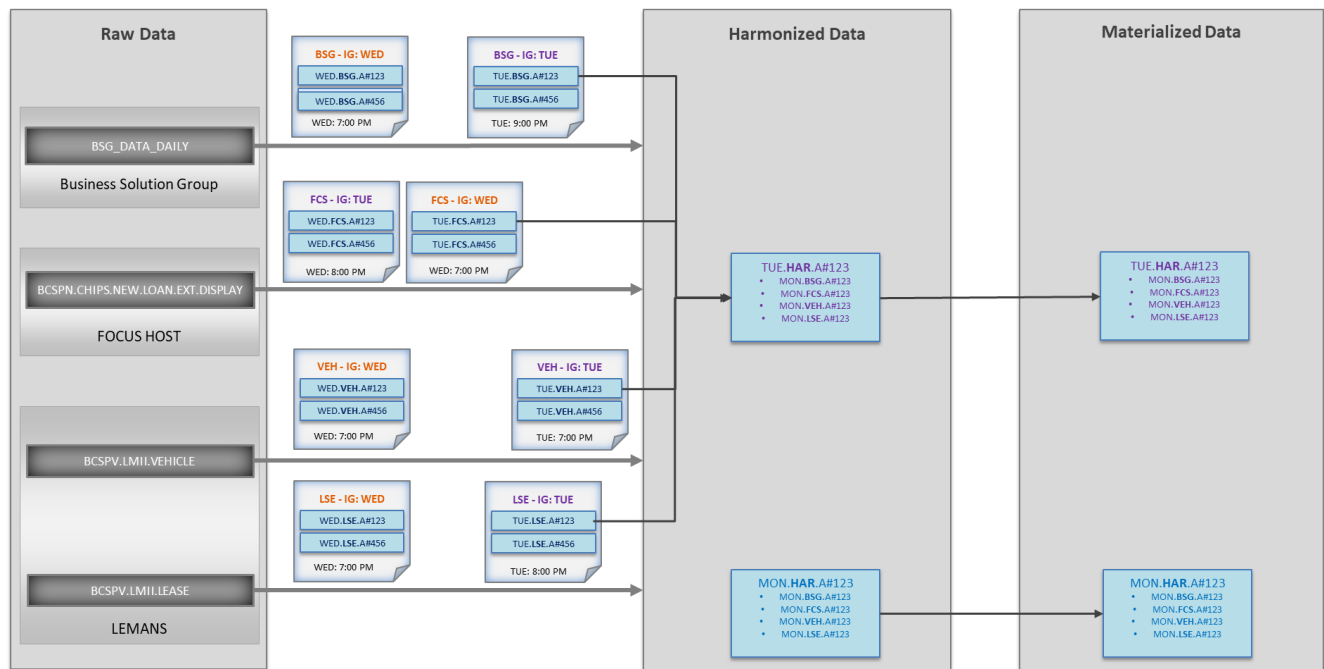
#### TUE Batch Received Late by Few Hours Scenario Acceptance Criteria

- It is necessary that Consumer Lease Account Data for TUE Batch received from Business Solution Group (at TUE 9:00 PM), Focus Host (at TUE 7:00 PM), LeMans Lease (at TUE 8:00 PM) & LeMans Vehicle (at TUE 7:00 PM) is correlated & conjugated into a single Harmonized Consumer Lease Account by Financial Account Number.



## TUE Batch Received Late by One Day Scenario Acceptance Criteria

- It is necessary that Consumer Lease Account Data for TUE Batch received from Business Solution Group (at TUE 9:00 PM), Focus Host (at WED 8:00 PM), LeMans Lease (at TUE 8:00 PM) & LeMans Vehicle (at TUE 7:00 PM) is correlated & conjugated into a single Harmonized Consumer Lease Account by Financial Account Number.



## 1.3.2 Consumer Lease Account Data Synchronization Service Specification By Example

### 1.3.2.1 Consumer Lease Ingression Services

**Feature:** Ingress LeMans Lease Master Data into Raw Data Store

**Scenario:** Ingress LeMans Lease Master Data

**Given** LeMans Lease Master Interface Batch Data File is Delivered at <Delivery Time>

**And** LeMans Lease Master Interaction Group ID is <MF12.GroupID>

**And** LeMans Lease Master Interaction ID is < MF12.ID>

**When** LeMans Lease Master Interface Ingression Service is Invoked

**Then** LeMans Lease Master is Ingested into Raw Data Store at <Ingression Completion Time>

**Examples:**

MF12. Group ID	MF12. ID	Delivery Time	Ingression Completion Time
TUE	I#100	09-25-18 07:00 PM	09-25-18 07:30 PM

### 1.3.2.2 Consumer Lease Harmonization Services

**Feature:** Harmonize Consumer Lease Account

**Scenario:** Deduce Harmonized 'Financial Account Number'

**Given** LeMans Lease Master Interface Data is Ingested into Raw Data Store

**And** LeMans Lease Master Interaction Group ID is <MF12.GroupID>

**And** LeMans Lease Master Interaction ID is < MF12.ID>

**And** LeMans Lease Master Delivery Time is < MF12.Time>

**And** LeMans Lease Master Bank Number is < MF12.REGION>

**And** LeMans Lease Master Branch Number is < MF12.BRANCH>

**And** LeMans Lease Master Lease Number is < MF12.LSE\_NBR>

**When** Consumer Lease Account Harmonization Service is Invoked

**Then** Harmonized Financial Account Number should be <FinancialAccountNumber>

**Examples:**

MF12. Group ID	MF12. ID	MF12. Time	MF12. REGION	MF12. BRANCH	MF12. LSE_NBR	Financial Account Number
TUE	I#100	09-25-18 07:00 PM	100	200	12345	10020012345

### Scenario: Deduce Harmonized 'Business Solution Group Indicator'

**Given** LeMans Lease Master Interface Data is Ingested into Raw Data Store  
**And** LeMans Lease Master Interaction Group ID is <MF12.GroupID>  
**And** LeMans Lease Master Interaction ID is < MF12.ID>  
**And** LeMans Lease Master Delivery Time is < MF12.Time>  
**And** LeMans Lease Master Bank Number is < MF12.REGION>  
**And** LeMans Lease Master Branch Number is < MF12.BRANCH>  
**And** LeMans Lease Master Lease Number is < MF12.LSE\_NBR>  
**And** BSSI Bsg Interface Data is Ingested into Raw Data Store  
**And** Bsg File Interaction Group ID is <BSG.GroupID>  
**And** Bsg File Interaction ID is <BSG.ID>  
**And** Bsg File Delivery Time is <BSG.Time>  
**And** Bsg Bank Number is <BSG.REGION>  
**And** Bsg Branch Number is <BSG.BRANCH>  
**And** Bsg Customer Number is <BSG.CUST\_NUMBER>  
**And** Bsg Business Solution Group Indicator is <BSG.BSG\_INDICATOR>  
**When** Consumer Lease Account Harmonization Service is Invoked  
**Then** Harmonized Business Solution Group Indicator should be <BusinessSolutionGroupIndicator>

### Examples:

MF12. Group ID	MF12. ID	MF12. Time	MF12. REGION	MF12. BRANCH	MF12. LSE_NBR	BSG. Group ID	BSG. ID	BSG. Time	BSG. REGION	BSG. BRANCH	BSG. CUST_NUMBER	BSG. BSG_INDICATOR	Business Solution Group Indicator
TUE	I#100	09-25-18 07:00 PM	100	200	12345	TUE	I#100	09-25-18 07:00 PM	100	200	12345	B'	1
TUE	I#100	09-25-18 07:00 PM	100	200	12345	TUE	I#100	09-25-18 07:00 PM	100	200	12345	NOT 'B'	0

### Scenario: Deduce Harmonized 'Effective Vehicle Charge Per Mile'

**Given** LeMans Lease Master Interface Data is Ingested into Raw Data Store  
**And** LeMans Lease Master Interaction Group ID is <MF12.GroupID>  
**And** LeMans Lease Master Interaction ID is < MF12.ID>  
**And** LeMans Lease Master Delivery Time is < MF12.Time>  
**And** LeMans Lease Master Region Number is < MF12.REGION>  
**And** LeMans Lease Master Branch Number is < MF12.BRANCH>  
**And** LeMans Lease Master Lease Number is < MF12.LSE\_NBR>  
**And** LeMans Lease Master Lease Agreement Date is < MF12.LSE\_DATE>  
**And** LeMans Vehicle Master Interface Data is Ingested into Raw Data Store  
**And** LeMans Vehicle Master Interaction Group ID is <MF10.GroupID>  
**And** LeMans Vehicle Master Interaction ID is < MF10.ID>  
**And** LeMans Vehicle Master Delivery Time is < MF10.Time>  
**And** LeMans Vehicle Master Region Number is <MF10.REGION>  
**And** LeMans Vehicle Master Branch Number is <MF10.BRANCH>  
**And** LeMans Vehicle Master Vehicle Number is <MF10.VEH\_NBR>  
**And** LeMans Vehicle Master Vehicle Make is <MF10.VEH\_MAKE>

**When** Consumer Lease Account Harmonization Service is Invoked

**Then** Harmonized Effective Vehicle Charge Per Mile should be <Effective Vehicle Charge Per Mile>

#### Examples:

MF12. Group ID	MF12. ID	MF12. Time	MF12. REGION	MF12. BRANCH	MF12. LSE_NBR	MF12. LSE_DATE	MF10. Group ID	MF10. ID	MF10. Time	MF10. REGION	MF10. BRANCH	MF10. VEH_NBR	MF10. VEH_MAKE	Effective Vehicle Charge Per Mile
TUE	I#100	09-25-18 07:00 PM	100	200	12345	'1/1/1989'	TUE	I#100	09-25-18 07:00 PM	100	200	12345	'TOYOTA'	0.1
TUE	I#100	09-25-18 07:00 PM	100	200	12345	'1/1/1991'	TUE	I#100	09-25-18 07:00 PM	100	200	12345	'TOYOTA'	Vehicle Charge Per Mile

### 1.3.2.3 Consumer Lease Materialization Services

#### Feature: Materialize Consumer Lease Account

#### Scenario: Deduce Materialized 'Bankruptcy Description'

**Given** Consumer Lease Account Data is Harmonized

**And** Interaction Group ID is <Interaction Group ID >

**And** Harmonization Transaction ID is <Harmonization Transaction ID>

**And** Financial Account Number is <Financial Account Number>

**And** Credit Bureau Bankruptcy Status Code is <Credit Bureau Bankruptcy Status Code>

**When** Consumer Lease Account Materialization Service is Invoked

**Then** Materialized Bankruptcy Description should be <Bankruptcy Description>

#### Examples:

Group ID	ID	Financial Account Number	Credit Bureau Bankruptcy Status Code	Bankruptcy Description
TUE	I#100	10020012345	A	Petition for Ch 7 Bankruptcy
TUE	I#100	10020012345	B	Petition for Ch 11 Bankruptcy

### 1.3.2.4 Consumer Lease Egression Services

#### Feature: Egress Consumer Lease Financial Account from Materialized Data Store

#### Scenario: Egress Consumer Lease Financial Account Data

**Given** Consumer Lease Financial Account Data is Materialized at <Materialization Completion Time>

**And** Interaction Group ID is <Group ID >

**And** Materialization Transaction ID is <ID>

**When** Consumer Lease Financial Account Interface Egression Service is Invoked

**Then** Consumer Lease Financial Account Data File is Egressed from Materialized Data Store at <Egression Completion Time>

#### Examples:



Group ID	ID	Materialization Completion Time	Egression Completion Time
TUE	I#100	09-25-18 07:00 PM	09-25-18 07:30 PM