

**NEW DAY**

**DELUXE CLOUD INTEGRATION PLATFORM**

**SIX FLAGS**

**CUSTOMER EXPERIENCE PLATFORM**

September 19, 2019

Revision 1.00

Deluxe Corporation  
3660 Victoria Street North  
Shoreview, MN 55126-2966

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## REVISION HISTORY

DATE	VERSION	AUTHOR	DOCUMENT CHANGES
7/23/2019	1.00	Stephen Mitchell	Initial Draft
Click to enter date			
Click to enter date			

Table 1: Revision History

## POINTS OF CONTACT

NAME	TITLE AGARWAL	EMAIL	CONTACT NUMBER
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Stephen Mitchell	Technical Writer	<a href="mailto:stephen.mitchell@deluxe.com">stephen.mitchell@deluxe.com</a>	651.490.8434 x528434

Table 2: Points of Contact

## INTRODUCTION

---

### SYSTEM OVERVIEW, SCOPE, AND PURPOSE

An **Integration Platform as a Service (iPaaS)** provides capabilities to enable subscribers (also known as “tenants”) implement integration projects involving any combination of cloud-resident and on-premises endpoints, including APIs, mobile devices and the Internet of Things (IoT). This is achieved by developing, deploying, executing, managing, and monitoring integration processes and flows that connect multiple endpoints so that they can work together.

### TARGET AUDIENCE

This document is meant for System Administrators, Software Architects, and Developers

## SYSTEM, SOFTWARE PERSPECTIVE

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With the direction to keep our “**Flag**” platforms vanilla, there is a need to have a solution that can transport data from one “**Flag**” platform to another transforming the data into the structure and values that each “**Flag**” platform needs, at the time that the data is required.

The **Deluxe Cloud Integration Platform** will act as the **iPaaS** solution that will support each of these “**Flag**” platforms. The solution that will power this integration platform will be **MuleSoft** running as a cloud service in the **MuleSoft CloudHub**.

This solution is designed for High Availability with redundant zones supported by the **Amazon AWS** infrastructure.

## RELATED DOCUMENTS

DOCUMENT NAME	DESCRIPTION
Deluxe Cloud Platform>General	<a href="#">Conversation Files</a>
Deluxe Cloud Platform>Architecture	<a href="#">Conversation Files</a>
Deluxe Cloud Platform>Enablement	<a href="#">Conversation Files</a>
Deluxe Cloud Platform>Gang of Mules	<a href="#">Conversation Files</a>
Deluxe Cloud Platform>Requirement Discussion DCPID>General	<a href="#">Conversation Files</a>
Deluxe Cloud Platform>DCIP CoP>General	<a href="#">Conversation Files</a>
Deluxe Cloud Platform> DCIP CoP>Articles	<a href="#">Conversation Files</a>
Deluxe Cloud Platform> DCIP CoP>Best Practices and Standard	<a href="#">Conversation Files</a>

Table 3: Related Documents

## ACRONYMS AND ABBREVIATIONS USED IN THIS DOCUMENT

TERM	DEFINITION
6 Flags	6 Flags is the iPaaS solution to connect and integrate cloud and on-premises applications and data via APIs rather than the traditional Point-to-Point methodology.
DCIP	DCIP is the Deluxe Cloud Integration Platform
FS	Financial Services is a Deluxe operating unit providing various services to financial institutions. Such as: Preferred partner to 180 of the top 200 financial institutions. Processing more than \$600 billion in payments annually.
iPaaS	Integration platform as a service (iPaaS) is a set of automated tools for connecting software applications that are deployed in different environments. iPaaS is often used by large business-to-business (B2B) enterprises that need to integrate on-premises applications and data with cloud applications and data.
MuleSoft	MuleSoft is the selected Deluxe vendor that provides an integration platform to connect data, applications and devices across on-premises and cloud computing environments.
New Day	New Day is a project that is transforming Deluxes' business processes, and system, software and scope.
SB	Small Business (SB) is a Deluxe operating unit providing various services to small business: Among other services SB provides: Logo Design, Website Design, Email Marketing, Social Media, Search Marketing, Print Marketing, Promotional Products & Apparel.
SFDC	SFDC stands for Salesforce.com (Sales Force Dot Com) The company chose SFDC over the simpler SF to avoid confusing with

	the common acronym for the company's hometown of San Francisco!
--	-----------------------------------------------------------------

Table 4: Acronyms and Abbreviations

**“6 FLAGS: TECHNOLOGY PLATFORMS FOR ONE DULUXE ENTERPRISE**

**RELYING ON CORE COMPETENCIES FOR EACH PLATFORM**

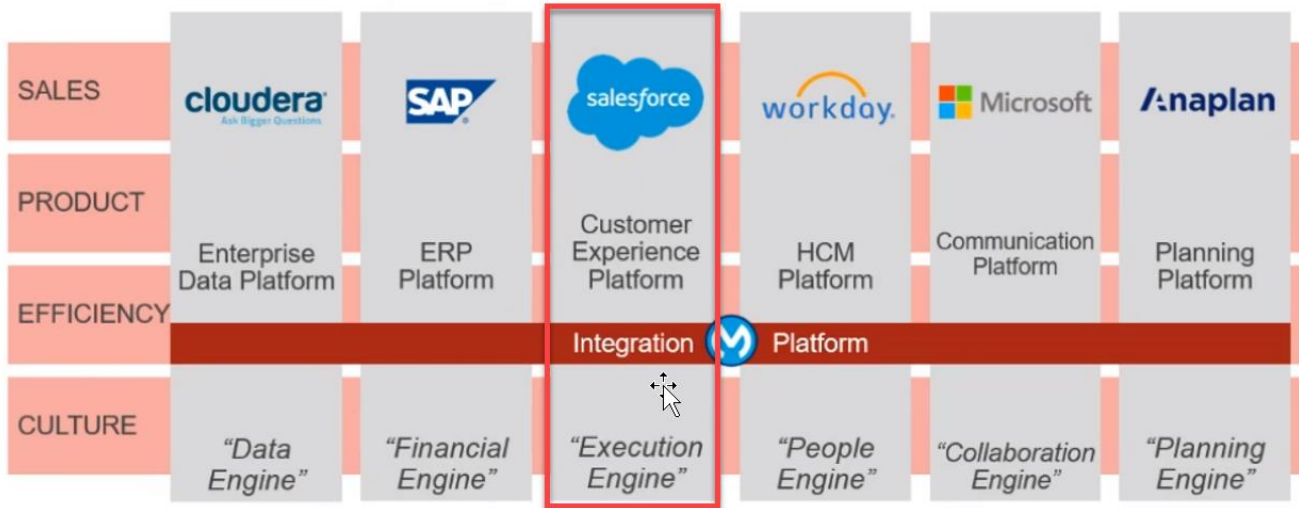


Figure 1: Six Flags: Customer Experience Platform

As more solutions move to the cloud, it becomes more imperative to define an integration framework of best practices and standardize toolsets to reduce risk, improve stability and increase the speed of delivery for existing or future capabilities. Leadership has designated that the preferred **Enterprise Integration** solution should be **MuleSoft**. **MuleSoft** can provide that **Hybrid Integration Platform (HIP)** that offers a hybrid **Cloud/On-Premise**, cross-platform integration orchestration, and API management solution. **MuleSoft** will allow all our existing and future ‘**Application Production Platforms**’ to function and integrate in a more ‘out-of-the-box’ manner, letting **MuleSoft** orchestrate the required data formatting, and data streaming transformations required between platforms/services.

The following chapters in this document; **Accounts, Opportunity, Opportunity Product, Price Book, Price Book Entry, User and Contacts** are derived from the **Salesforce Customer Experience Platform Flag** as illustrated above.

**ACCOUNTS**

**FIELDS RETRIEVED FROM FS**

Query FS Account

- **SELECT Id, Name, Owner.Name, Type, ParentId, BillingStreet, BillingCity, BillingState, BillingPostalCode, BillingCountry, ShippingStreet, ShippingCity, ShippingState, ShippingPostalCode, ShippingCountry, Phone, Fax, AccountNumber, Website, Sic, Industry, AnnualRevenue, NumberOfEmployees, Description, OwnerId, LastModifiedDate, LastModifiedById,**

AccountSource, SicDesc, Portfolio\_\_c, Account\_Health\_\_c, Solution\_\_c,  
Whitespace\_\_c, Account\_Status\_\_c,

- FROM Account,
- Where LastModifiedDate >= :timestamp;

#### Fields Mapped to the Innovation Lab:

- Name, Type, Billing Street, Billing City, Billing State, Billing Country, Billing Postal Code, Shipping Street, Shipping City, Shipping State, Shipping Postal Code, Shipping Country, Phone, Fax, Account Number, Website, Sic, Industry, Annual Revenue, Number of Employees, Description, Account Source, Sic Desc, Source Owners ID, Source Owners Name;
- External id field was taken from “SFDC\_External\_ID\_\_c”
- SObject Max Depth: 5
- Batch Report showed us the Time, Total Records, Loaded Records, ProcessedRecords, Successful Records, and the failed Records
- Scheduled every 30 mins.
- Last Query Stamp: Watermark

**ACCOUNTS FS IMAGES**

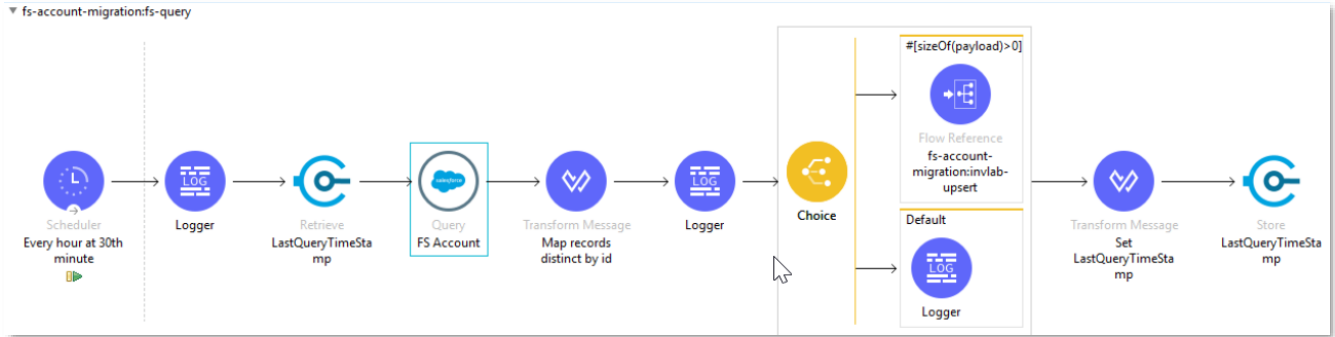


Figure 2: MuleSoft: Accounts: Financial Services (FS): fs-account-migration:fs-query

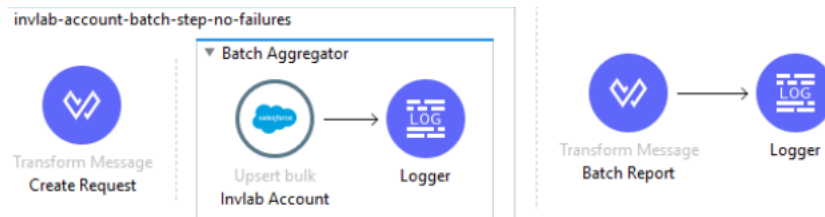


Figure 3: MuleSoft: Accounts: Financial Services (FS): invlab-account-batch-step-no-failures

```

Output Payload 1 issue found
1 %dw 2.0
2 output application/java
3 ---
4 payload distinctBy $.Id map {
5   Name: $.Name,
6   Type: $.Type,
7   BillingStreet: $.BillingStreet,
8   BillingCity: $.BillingCity,
9   BillingState: $.BillingState,
10  BillingCountry: $.BillingCountry,
11  BillingPostalCode: $.BillingPostalCode,
12  ShippingStreet: $.ShippingStreet,
13  ShippingCity: $.ShippingCity,
14  ShippingState: $.ShippingState,
15  ShippingPostalCode: $.ShippingPostalCode,
16  ShippingCountry: $.ShippingCountry,
17  Phone: $.Phone,
18  Fax: $.Fax,
19  AccountNumber: $.AccountNumber,
20  Website: $.Website,
21  Sic: $.Sic,
22  Industry: $.Industry,
23  AnnualRevenue: $.AnnualRevenue,
24  NumberOfEmployees: $.NumberOfEmployees,
25  Description: $.Description,
26  AccountSource: $.AccountSource,
27  SicDesc: $.SicDesc,
28  SFDC_External_ID__c: $.Id,
29  Source_Org_Owner_ID__c: $.OwnerId,
30  Source_Org_Owner_Name__c: $.Owner.Name,
31  ParentId: $.ParentId
32 }
    
```

Figure 4: MuleSoft: Accounts: Output Payload Map

**ACCOUNTS SB IMAGES**

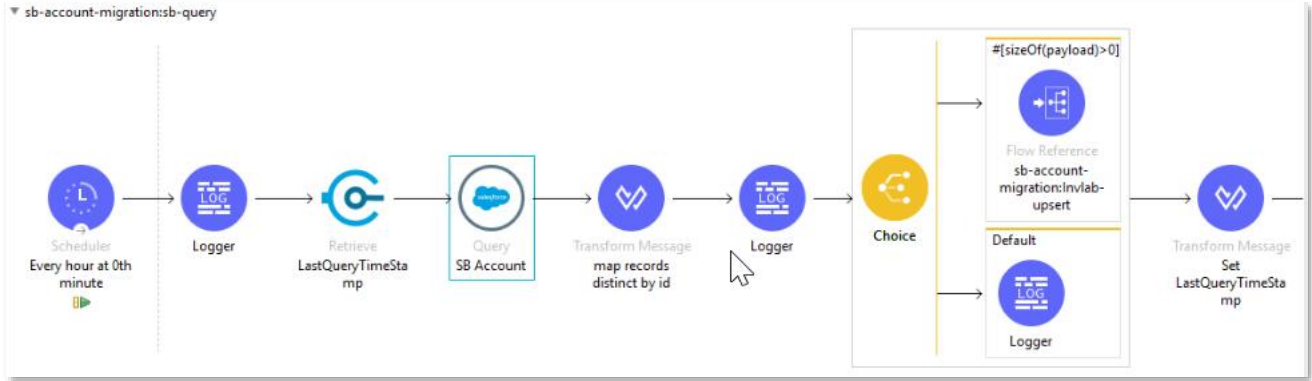


Figure 5: MuleSoft: Accounts: Small Business (SB): sb-account-migration:sb-query

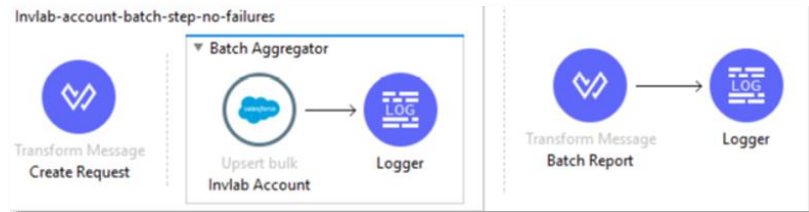


Figure 6: MuleSoft: Accounts: Small Business (SB): invlab-account-batch-step-no-failures

## OPPORTUNITY

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### GETTING FS OPPORTUNITY DATA FROM SALESFORCE

```
SELECT Id, IsDeleted, AccountId, Name,Description, StageName, Amount,
Probability, CloseDate, Type,
NextStep, LeadSource, IsClosed, IsWon, ForecastCategory,ForecastCategoryName,
CurrencyIsoCode, HasOpportunityLineItem,Estimated_Total_Value__c, Term__c,
Date_for_Next_Step__c, Portfolio__c, Solution__c, Revenue_Start_Date__c,
    Pricebook2Id, FiscalQuarter, FiscalYear, Fiscal, OwnerId,
    LastModifiedDate, CampaignId, ContractId, SyncedQuoteId, IsPrivate,
    TotalOpportunityQuantity,
Owner.Name, Account.Name, Account.Type, Account.BillingStreet,
Account.BillingCity, Account.BillingState, Account.BillingCountry,
Account.ShippingStreet, Account.ShippingCity, Account.ShippingState,
Account.ShippingPostalCode, Account.ShippingCountry, Account.Phone,
    Account.Fax, Account.AccountNumber, Account.Website, Account.Sic,
    Account.Industry, Account.AnnualRevenue, Account.NumberOfEmployees
    Account.Description, Account.AccountSource, Account.SicDesc,
Account.LastModifiedDate, Account.LastModifiedById, Account.Portfolio__c,
Account.Account_Health__c, Account.Solution__c, Account.Whitespace__c,
Account.Account_Status__c,
    Account.Id, Account.OwnerId, Account.Owner.Name,
Pricebook2.IsDeleted, Pricebook2.Name, Pricebook2.CurrencyIsoCode,
Pricebook2.CreatedDate, Pricebook2.CreatedById, Pricebook2.LastModifiedDate,
Pricebook2.LastModifiedById, Pricebook2.SystemModstamp,
Pricebook2.LastViewedDate, Pricebook2.LastReferencedDate, Pricebook2.IsActive,
Pricebook2.IsArchived, Pricebook2.Description, Pricebook2.IsStandard
FROM Opportunity
Where LastModifiedDate >= :timeStamp
```

- Tokenization done from Salesforce

**OPPORTUNITY FS IMAGES**

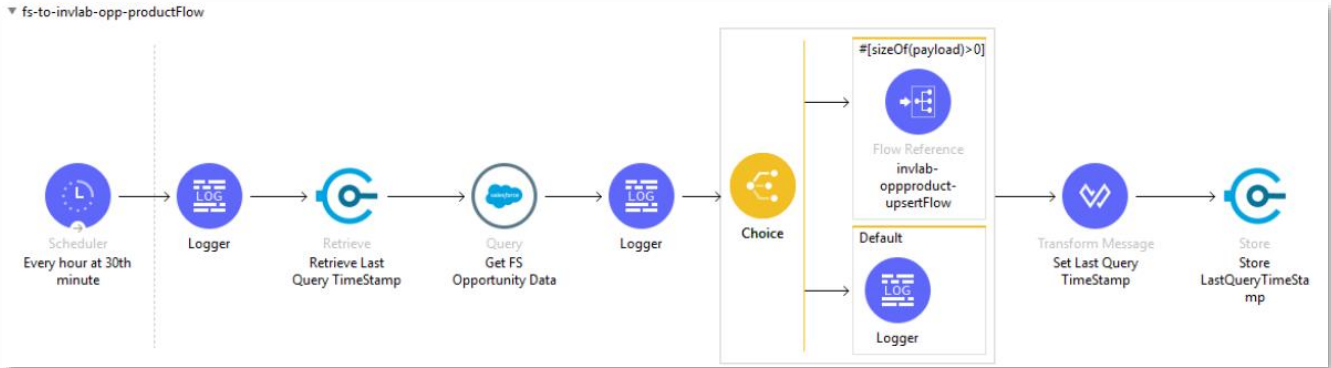


Figure 7: MuleSoft: Opportunity: Financial Services (FS): fs-to-invlab-opp-product-flow

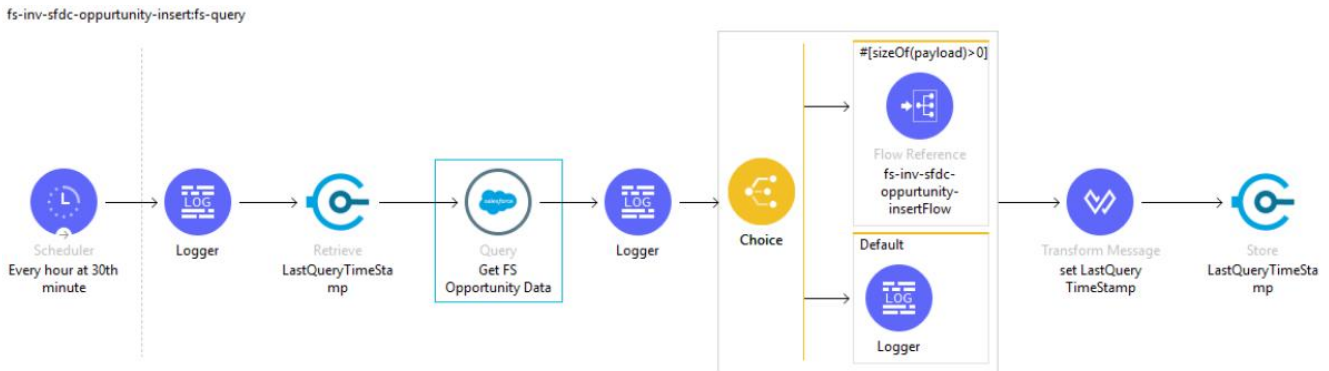


Figure 8: MuleSoft: Financial Services (FS): fs-inv-sfdc-opportunity-insert:fs-query

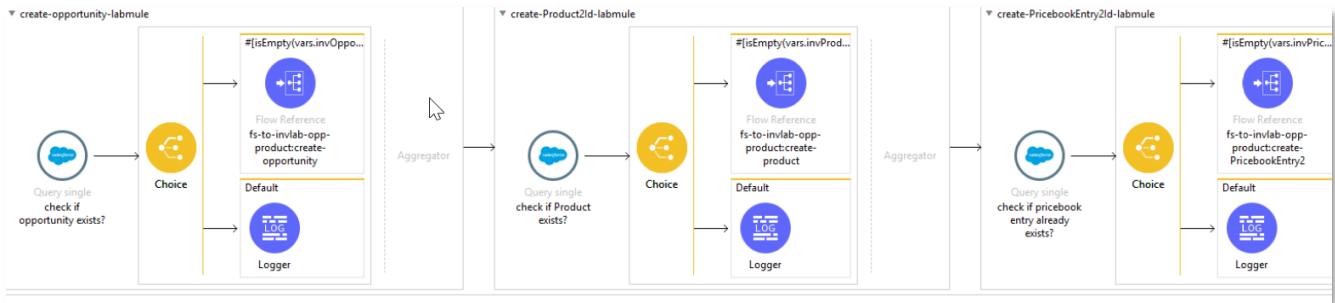


Figure 9: MuleSoft: Financial Services (FS): create-opportunity-labmule

```

Output Payload 1 issue found
1 @%dw 2.0
2 output application/java
3 ---
4 [{
5 AccountId:payload.AccountId,
6 Pricebook2Id: payload.Pricebook2Id,
7 Name:payload.Name,
8 StageName:payload.StageName,
9 CloseDate:payload.CloseDate,
10 Description: payload.Description,
11 Amount: payload.Amount,
12 Probability: payload.Probability,
13 Type: payload.Type,
14 NextStep: payload.NextStep,
15 LeadSource: payload.LeadSource,
16 ForecastCategoryName: payload.ForecastCategoryName,
17 Id: payload.SFDC_External_ID__c,
18 OwnerId: payload.Source_Org_Owner_ID__c,
19 OwnerName: payload.Source_Org_Owner_Name__c
20 }]
21
    
```

Figure 10: MuleSoft: Accounts: Output Payload Map



Figure 11: MuleSoft: Opportunity: Financial Services (FS): fs-to-invlab-opp-product:create-opportunity

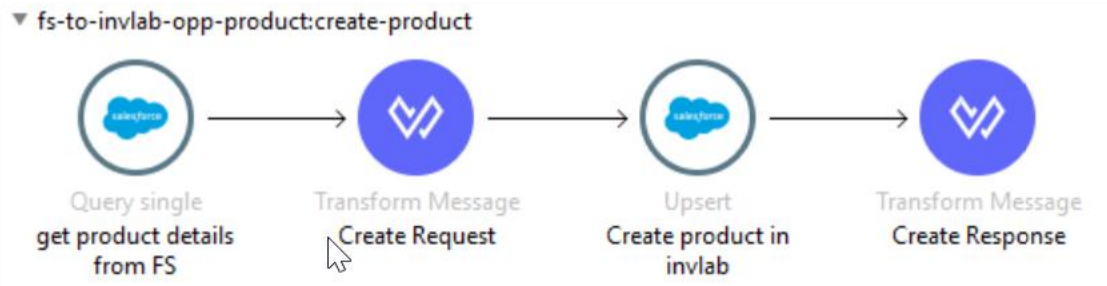


Figure 12: MuleSoft: Opportunity: Financial Services (FS): fs-to-invlab-opp-product:create-product

**OPPORTUNITY SB IMAGES**

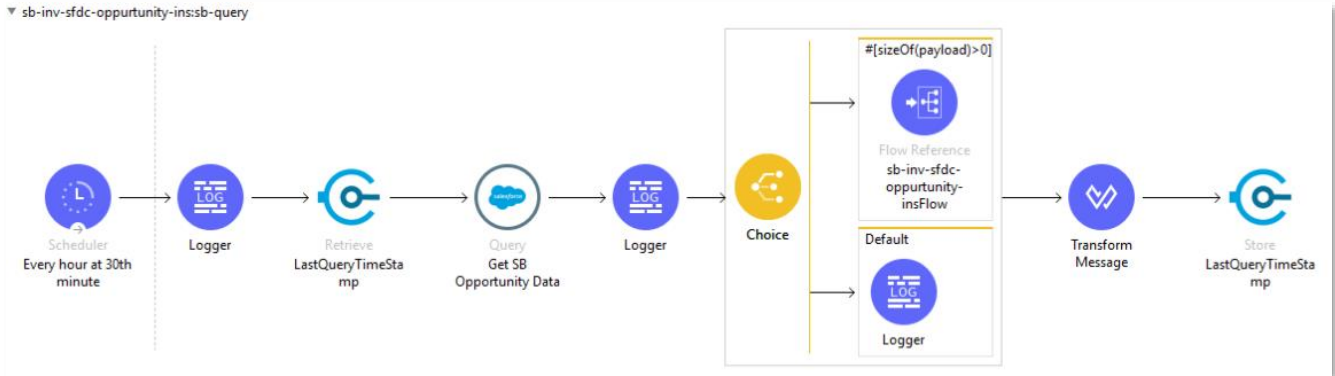


Figure 13: MuleSoft: Opportunity: Small Business (SB) Query: sb-inv-opportunity-ins:sb-query

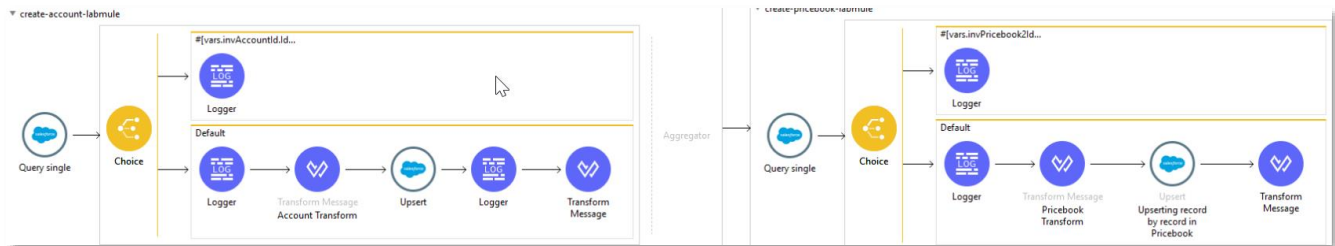


Figure 14: MuleSoft: Opportunity: Financial Services (FS): create-account-labmule

## OPPORTUNITY PRODUCT

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### FIELDS RETRIEVED FROM FS/SB

#### Query FS/SB

- `SELECT Id, OpportunityId, SortOrder, PricebookEntryId, Product2Id, ProductCode, Name, Quantity, TotalPrice, UnitPrice, ListPrice, ServiceDate, Description, IsDeleted,`
- `FROM OpportunityLineItem,`
- `Where LastModifiedDate >= :timestamp;`

#### Fields Mapped to Innovation Lab

- External id field was taken from “SFDC\_External\_ID\_c”
- SObject Max Depth: 5
- Scheduled every 30 mins.
- Last Query Stamp: Watermark
- Getting Opportunity line Item
- Creating/Updating Opportunity

`SELECT Id, IsDeleted, AccountId, Name, Description, StageName, Amount, Probability, CloseDate, Type,`

#### ForecastCategory:

`NextStep, LeadSource, IsClosed, IsWon, ForecastCategoryName, HasOpportunityLineItem, Pricebook2Id, FiscalQuarter, FiscalYear, Fiscal, OwnerId,`

- `Owner.Name, Account.IsDeleted, Account.MasterRecordId, Account.Name, Account.Type, Account.RecordTypeId, Account.ParentId, Account.BillingStreet, Account.BillingCity, Account.BillingState, Account.BillingPostalCode, Account.BillingCountry, Account.BillingAddress, Account.ShippingStreet, Account.ShippingCity, Account.ShippingState, Account.ShippingPostalCode, Account.ShippingCountry, Account.ShippingAddress, Account.Phone, Account.Fax, Account.AccountNumber, Account.Website, Account.PhotoUrl, Account.Sic, Account.Industry, Account.AnualRevenue, Account.NumberOfEmployees, Account.Description, Account.CurrencyIsoCode, Account.OwnerId, Account.CreatedDate, Account.SystemModstamp, Account.LastActivityDate, Account.LastViewedDate, Account.LastReferencedDate, Account.Jigsaw, Account.JigsawCompanyId, Account.AccountSource, Account.SicDesc, Account.Owner.Name, Pricebook2.IsDeleted, Pricebook2.Name, Pricebook2.CurrencyIsoCode, Pricebook2.CreatedDate, Pricebook2.CreatedById, Pricebook2.LastModifiedDate, Pricebook2.LastModifiedById, Pricebook2.SystemModstamp, Pricebook2.LastViewedDate, Pricebook2.LastReferencedDate, Pricebook2.IsActive, Pricebook2.IsArchived, Pricebook2.Description, Pricebook2.IsStandard,`
- `FROM Opportunity,`

- Where Id = :id;

#### Creating/Updating Product2Id

- SELECT Id, Name, ProductCode, Description, IsActive, Family, DisplayUrl, QuantityUnitOfMeasure, StockKeepingUnit,
- FROM Product2,
- Where Id = :id;

#### Creating/Updating Pricebook Entry2

- SELECT Id, Pricebook2Id, Product2Id, UnitPrice, IsActive,
- UseStandardPrice
- FROM PricebookEntry,
- Where Id = :id;
- Updating Opportunity Bulk
- Creating Opportunity Product
- Batch Report showed us the Time, Total Records, Loaded Records, Processed Records, Successful Records and the failed Records.

**OPPORTUNITY PRODUCT FS IMAGES**

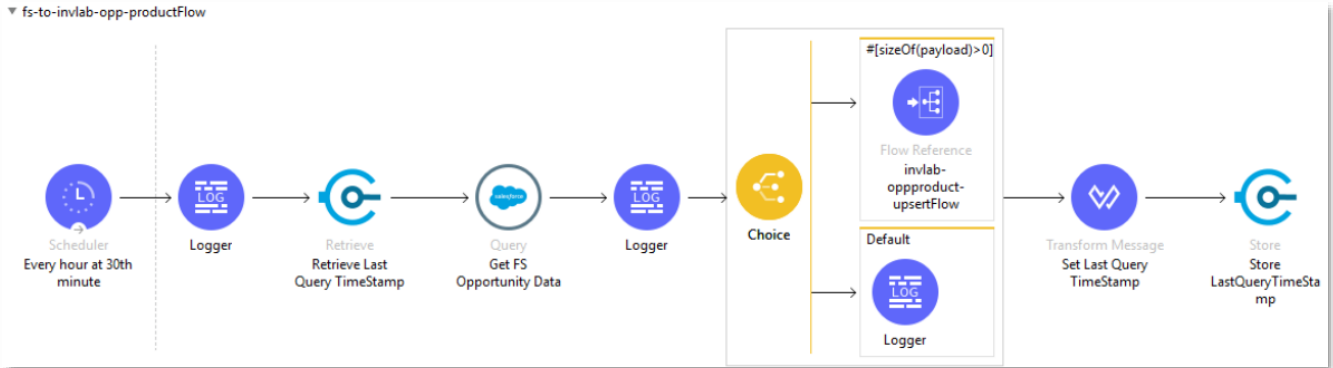


Figure 15: MuleSoft: Opportunity Product: Financial Services (FS): fs-to-invlab-opp-productFlow

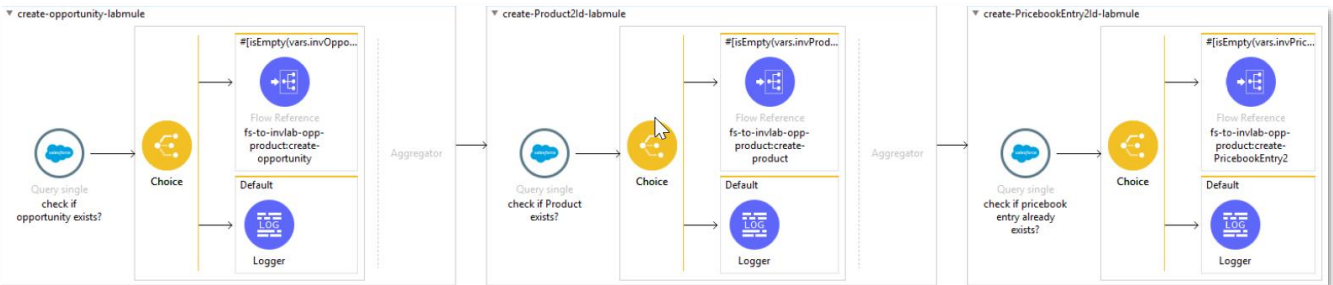


Figure 16: MuleSoft: Opportunity Product: Financial Services (FS): create opportunity-labmule

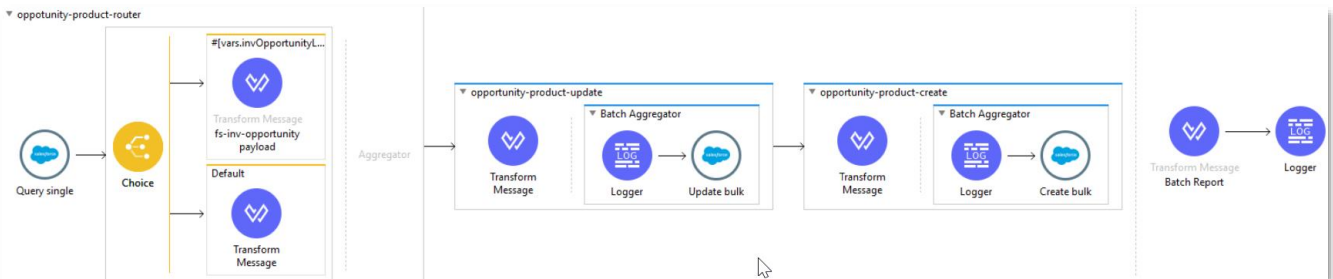


Figure 17: MuleSoft: Opportunity Product: Financial Services (FS): opportunity- product-router

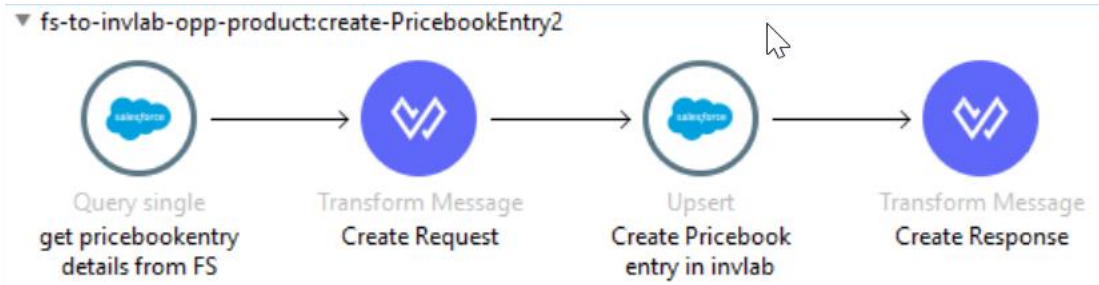


Figure 18: MuleSoft: Opportunity Product: Financial Services (FS): fs-toinvlab-opp-product:create-PricebookEntry2

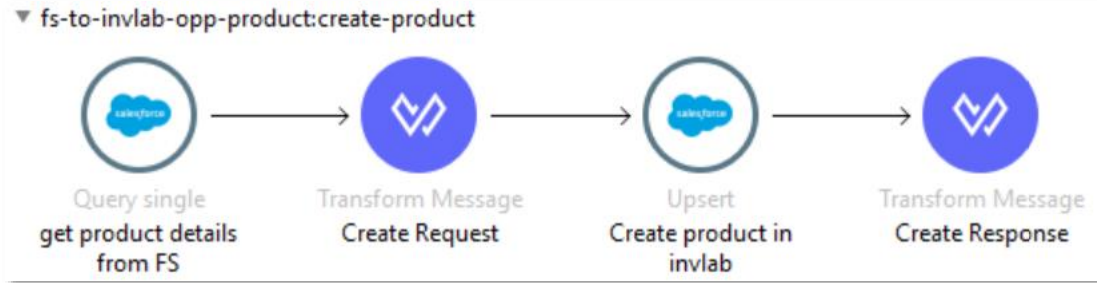


Figure 19: MuleSoft: Opportunity Product: Financial Services (FS): fs-to-invlab-opp-product:create-product



Figure 20: MuleSoft: Opportunity Product: Financial Services (FS): fs-to invlab-opp-product:create opportunity

```

Output Payload 1 issue found
1 %dw 2.0
2 output application/java
3 ---
4 [{"
5   AccountId:payload.AccountId,
6   Pricebook2Id: payload.Pricebook2Id,
7   Name:payload.Name,
8   StageName:payload.StageName,
9   CloseDate:payload.CloseDate,
10  Description: payload.Description,
11  Amount: payload.Amount,
12  Probability: payload.Probability,
13  Type: payload.Type,
14  NextStep: payload.NextStep,
15  LeadSource: payload.LeadSource,
16  ForecastCategoryName: payload.ForecastCategoryName,
17  Id: payload.SFDC_External_ID__c,
18  OwnerId: payload.Source_Org_Owner_ID__c,
19  OwnerName: payload.Source_Org_Owner_Name__c
20  }]
21
    
```

Figure 21: MuleSoft: Opportunity Product: Output Payload Map

**OPPORTUNITY PRODUCT SB IMAGES**

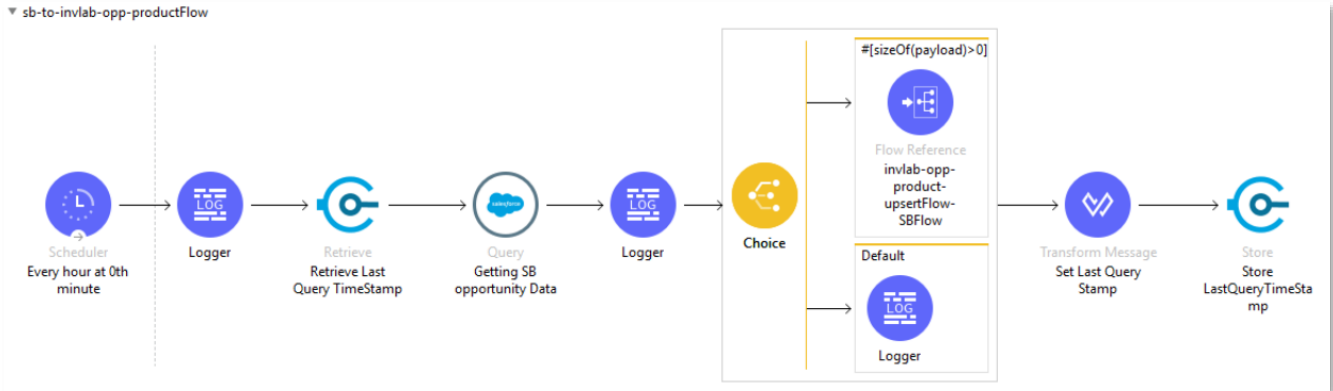


Figure 22: MuleSoft: Opportunity Product: Financial Services (SB): sb-to-invlab-opp-productFlow

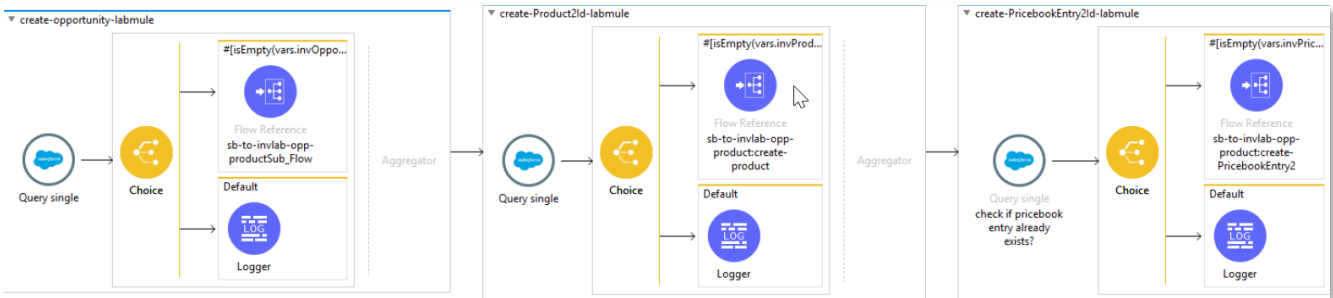


Figure 23: MuleSoft: Opportunity Product: Financial Services (SB): create-opportunity-labmule

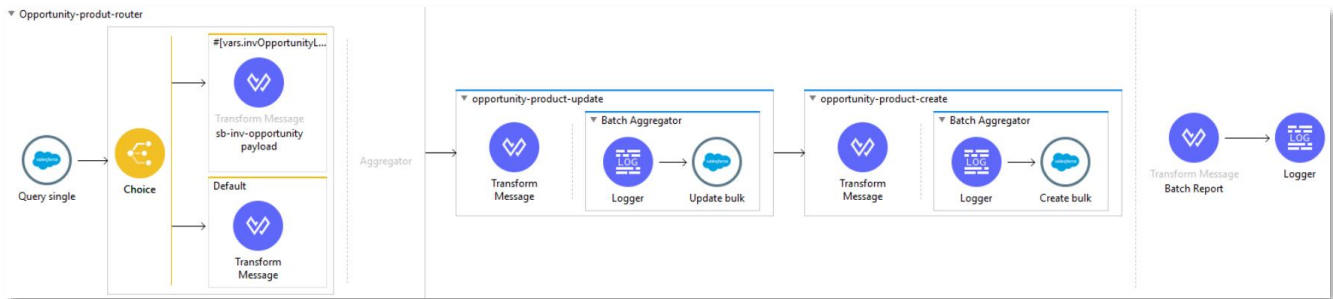


Figure 24: MuleSoft: Opportunity Product: Financial Services (SB): Opportunity-product router

```

Output Payload
1 @%dw 2.0
2 output application/java
3 ---
4 {}
5   Pricebook2Id: payload.Pricebook2Id,
6   Product2Id: payload.Product2Id,
7   UnitPrice: payload.UnitPrice,
8   UseStandardPrice: false,
9   (IsActive: payload.IsActive as Boolean)if(payload.IsActive?),
10  SFDC_External_ID__c: payload.Id
11 }
    
```

Figure 25: MuleSoft: Opportunity Product: Output Payload Map

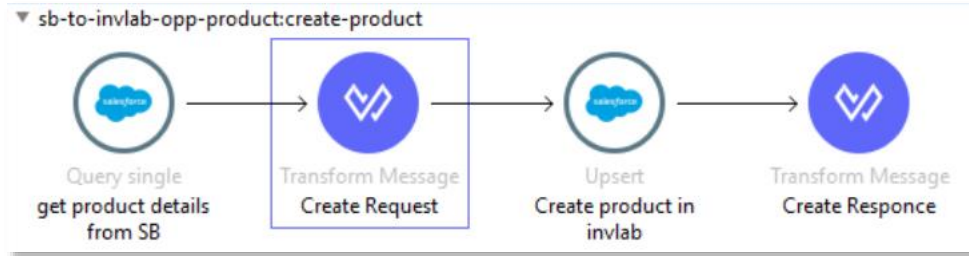


Figure 26: MuleSoft: Opportunity Product: Financial Services (SB): sb-to-invlab-opp-product:create-product



Figure 27: MuleSoft: Opportunity Product: Financial Services (SB): sb-to-invlab-opp-product:create-opportunity

## PRICE BOOK

---

### FIELDS RETRIEVED FROM SB/FS

#### Query Selected SB/FS

- `SELECT Id, Name, CurrencyIsoCode, IsActive, Description, IsStandard,`
- `FROM Pricebook2,`
- `Where LastModifiedDate >= :timestamp;`
- Mapped the distinct records by ID
- Created a Pricebook Entry
- Upsert in the Pricebook
- Getting a batch report
- Last Query Stamp: Watermark
- Secured the properties

**PRICE BOOK FS IMAGES**

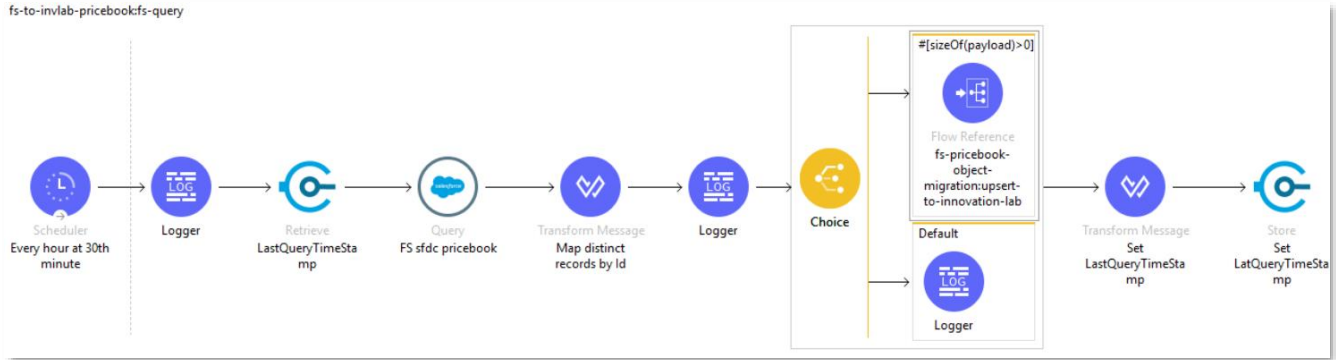


Figure 28: MuleSoft: Price Book: Financial Services (FS): fs-to-invlab-pricebook:fs-query

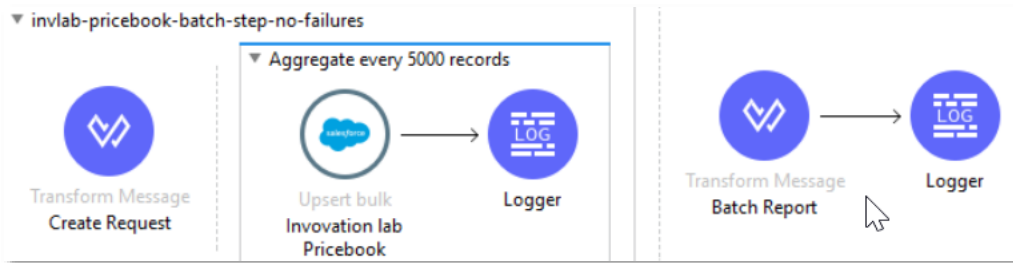


Figure 29: MuleSoft: Price Book: Financial Services (FS): invlab-pricebook-batch-step-no-failures

**PRICE BOOK SB IMAGES**

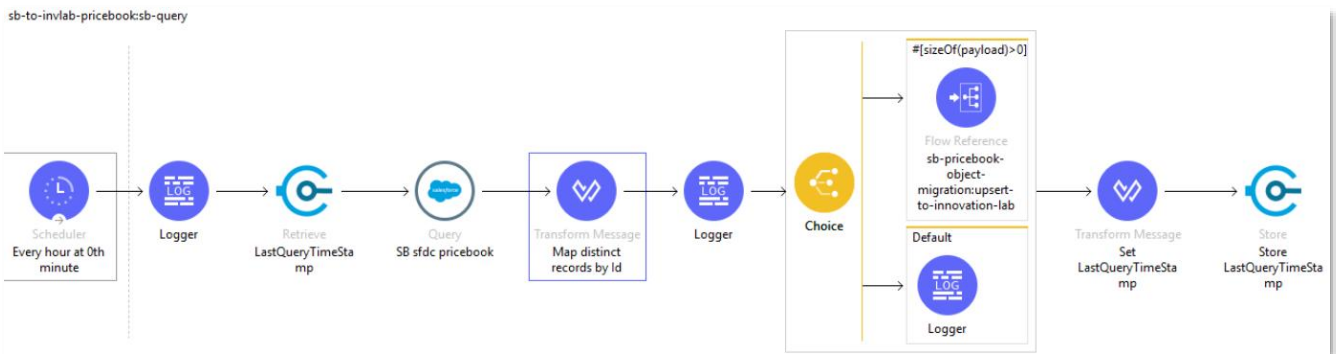


Figure 30: MuleSoft: Price Book: Financial Services (SB): sb-to-invlab-pricebook:sb-query

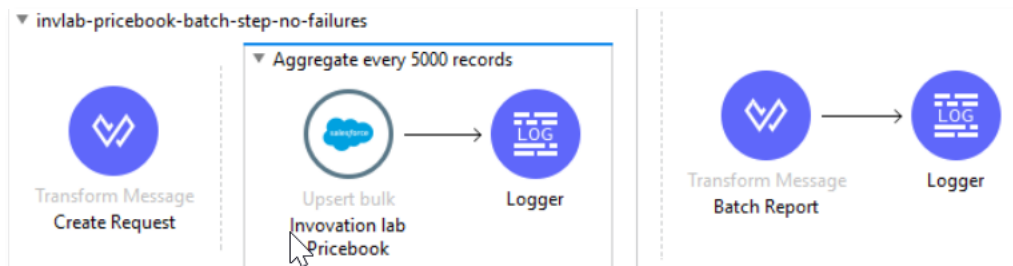


Figure 31: MuleSoft: Price Book: Financial Services: invlab-pricebook-batch-step-no-failures

## PRODUCT

---

### FIELDS RETRIEVED FROM SB/FS

#### Query FS/SB Product

- `SELECT Id, Name, ProductCode, Description, IsActive, Family, DisplayUrl, QuantityUnitOfMeasure, StockKeepingUnit,`
- `FROM Product2,`
- `Where LastModifiedDate >= :timestamp;`
- Mapped distinct records by ID
  - fs-product-object-migration , upsert-to-innovation-lab
- Upserted the records to Inv lab.
- Getting a batch report
- Last Query Stamp: Watermark
- Secure tokenization is done via **Salesforce**

**PRODUCTS FS IMAGES**

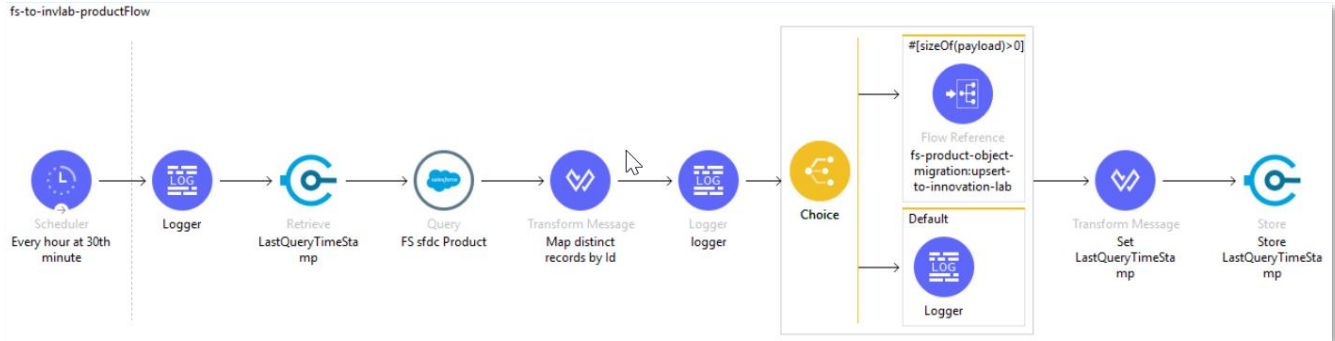


Figure 32: MuleSoft: Products: Financial Services (FS): fs-to-invlab-productFlow

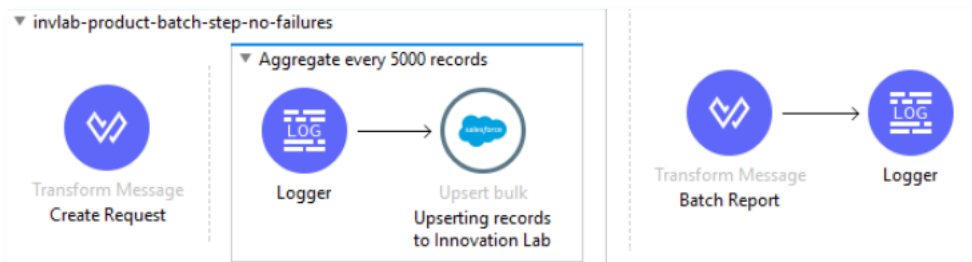


Figure 33: MuleSoft: Products: invlab-product-batch-step-no-failures

```

Output payload
1 @dw 2.0
2 output application/java
3 ---
4 {
5   Name: payload.Name,
6   ProductCode: payload.ProductCode,
7   Description: payload.Description,
8   IsActive: payload.IsActive as Boolean,
9   Family: payload.Family,
10  DisplayUrl: payload.DisplayUrl,
11  QuantityUnitOfMeasure: payload.QuantityUnitOfMeasure,
12  StockKeepingUnit: payload.StockKeepingUnit,
13  SFDC_External_ID__c : payload.SFDC_External_ID__c
14 }
    
```

Figure 34: MuleSoft: Products: Output Payload Map

**PRODUCTS SB IMAGES**

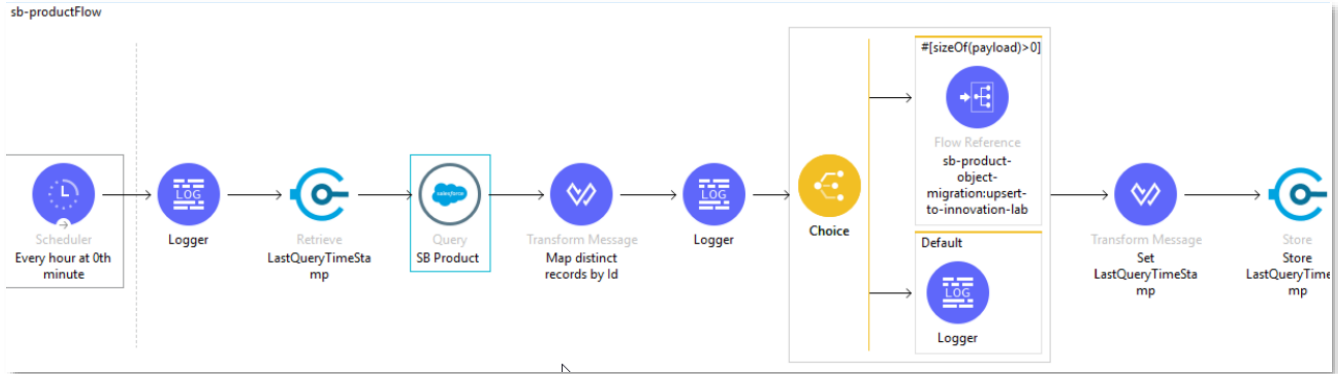


Figure 35: MuleSoft: Products: Financial Services (SB): sb-productFlow

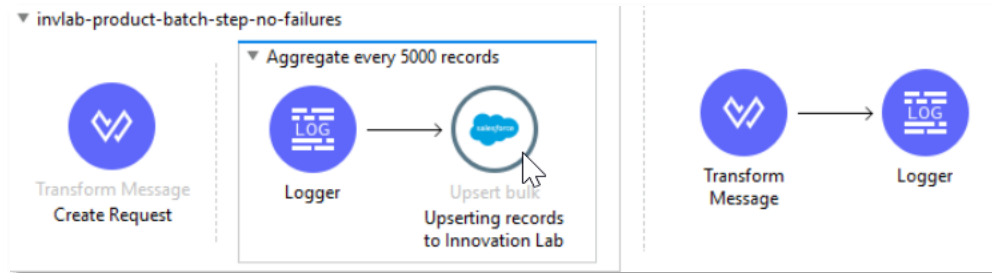


Figure 36: MuleSoft: Products: Financial Services (SB): invlab-product-batch-step-no-failures

```

Output Payload 1 issue found
1 @ %dw 2.0
2 output application/java
3 ---
4 {
5   Name: payload.Name,
6   ProductCode: payload.ProductCode,
7   Description: payload.Description,
8   IsActive: payload.IsActive as Boolean,
9   Family: payload.Family,
10  DisplayUrl: payload.DisplayUrl,
11  QuantityUnitOfMeasure: payload.QuantityUnitOfMeasure,
12  StockKeepingUnit: payload.StockKeepingUnit,
13  SFDC_External_ID_c : payload.SFDC_External_ID_c
14 }
    
```

Figure 37: MuleSoft: Products: Output Payload Map

## PRICE BOOK ENTRY

---

### FIELDS RETRIEVED FROM SB/FS

#### Query FS/SB Pricebook Entry

- `SELECT Id, Pricebook2Id, Product2Id, UnitPrice, IsActive, UseStandardPrice,`
- `FROM PricebookEntry,`
- `Where LastModifiedDate >= :timestamp;`
- Mapped the records by ID
- Pricebook created/Updated
- Product created/Updated
- Standard Price is to be checked if doesn't exist then add the standard price
- Requested created for FS/SB to Inv lab Pricebook Upsert
- Batch Report.
- Properties secured via **Salesforce**
- Last Query: Watermark

**PRICE BOOK ENTRY FS IMAGES**

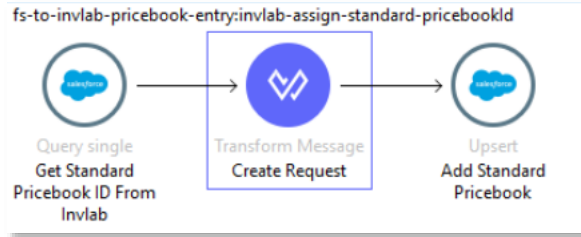


Figure 38: MuleSoft: Price Book Entry: Financial Services (FS): fs-to-invlab-pricebook=entry:invlab-assign-standard-pricebookId



Figure 39: MuleSoft: Price Book Entry: Financial Services (FS): fs-to-invlab-pricebook-entry:update-standard-pricebook

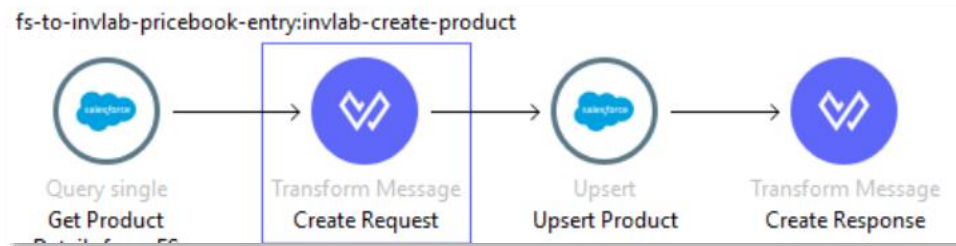


Figure 40: MuleSoft: e Book Entry: Financial Services (FS): fs-to-invlab-pricebook-entry:invlab-create-product

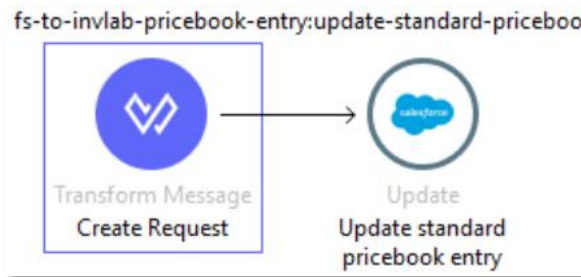


Figure 41: MuleSoft: e Book Entry: Financial Services (FS): fs-to-invlab-pricebook-entry:update-standard-pricebook

```

Output Payload 1 issue found
1 %dw 2.0
2 output application/java
3 ---
4 [{
5   Id: vars.invStandardPricebook2Id.Id,
6   UnitPrice: vars.sourceStandardPriceDetails.UnitPrice,
7   UseStandardPrice: false,
8   (IsActive: vars.sourceStandardPriceDetails.IsActive as Boolean)if(vars.sourceStandardPriceDetails.IsActive?),
9   SFDC_External_ID__c: vars.sourceStandardPriceDetails.Id
10  }]
    
```

Figure 42: MuleSoft: Price Book Entry: Output Payload Map

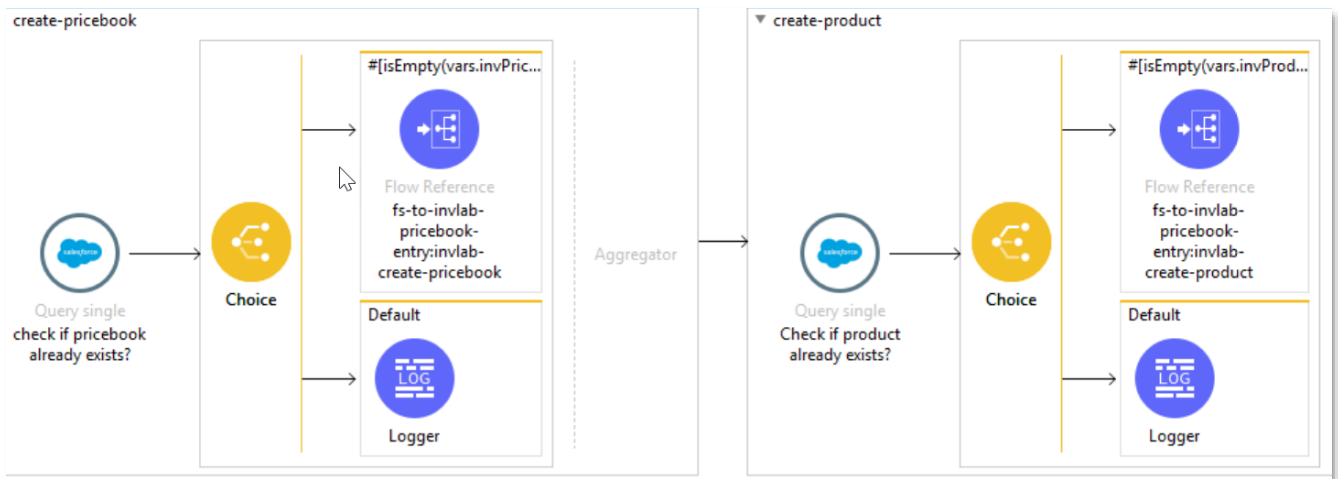


Figure 43: MuleSoft: Price Book Entry: Financial Services (FS): create-pricebook

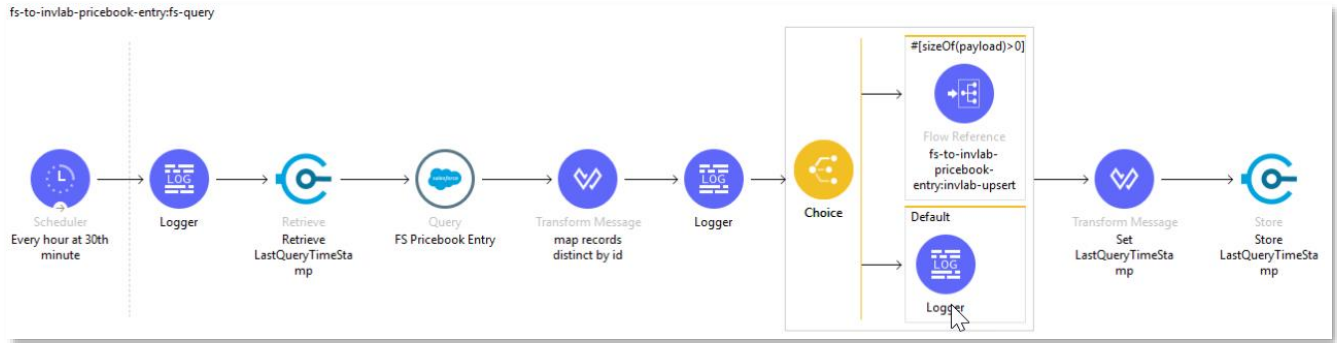


Figure 44: MuleSoft: Price Book Entry: Financial Services (FS): fs-to-invlab-pricebook-entry:fs-query

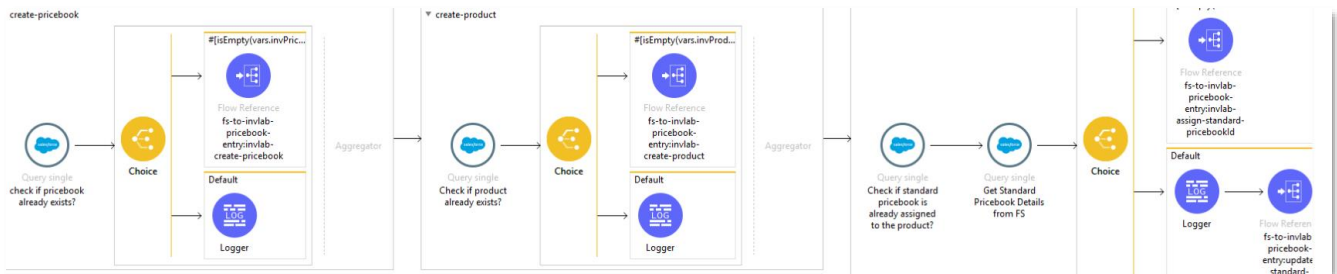


Figure 45: MuleSoft: Price Book Entry: Financial Services (FS): create-pricebook



Figure 46: MuleSoft: Financial Services (FS): fs to invlab-pricebook-entry:invlab-create-pricebook

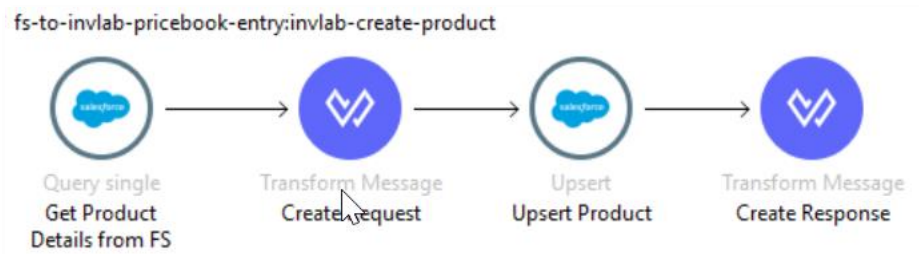


Figure 47: MuleSoft: Price Book Entry: Financial Services (FS): fs to invlab-pricebook-entry:invlab-create-product

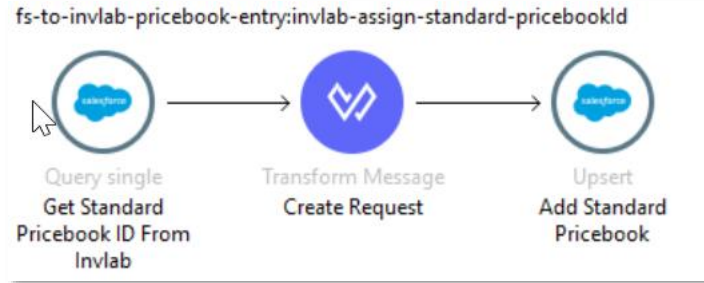


Figure 48: MuleSoft: Price Book Entry: Financial Services (FS): fs-to-invlab-pricebook-entry:invlab-create-pricebookid

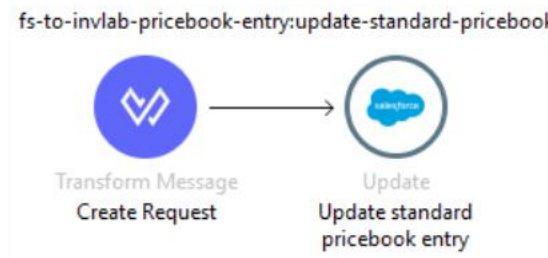


Figure 49: MuleSoft: Price Book Entry: Financial Services (FS): fs to invlab-pricebook-entry:update-standard-pricebook

**PRICE BOOK ENTRY SB IMAGES**

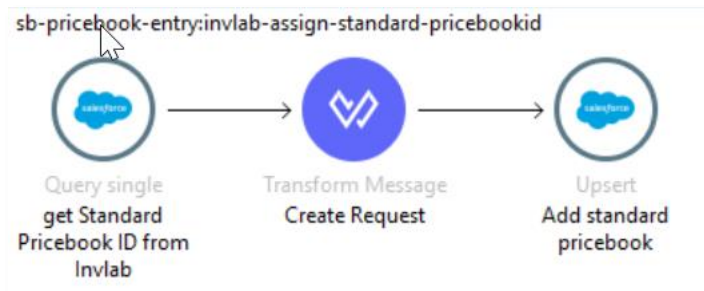


Figure 50: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-assign-standard-pricebookid

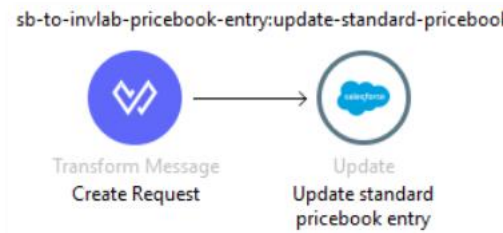


Figure 51: MuleSoft: Price Book Entry: Financial Services (SB): fs to invlab-pricebook-entry:update-standard-pricebook

```

Output Payload 1 issue found
1 @ %dw 2.0
2 output application/java
3 ---
4 @@ [
5   Pricebook2Id: vars.invStandardPricebook2Id,
6   Product2Id: vars.invProduct2Id,
7   UnitPrice: vars.sourceStandardPriceDetails.UnitPrice,
8   UseStandardPrice: false,
9   (IsActive: payload.IsActive as Boolean)if(payload.IsActive?),
10  SFDC_External_ID__c: vars.sourceStandardPriceDetails.Id
11 ]}]
    
```

Figure 52: MuleSoft: Price Book Entry: Output Payload Map

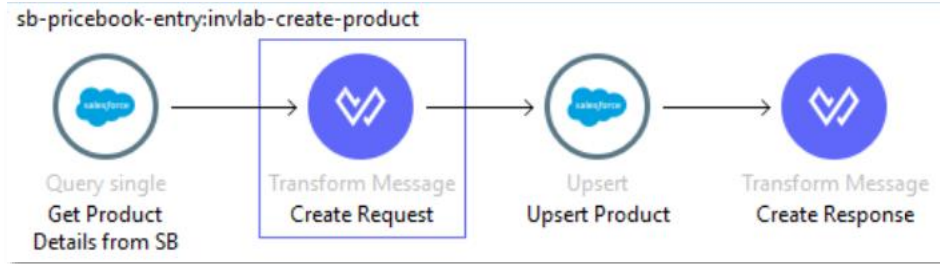


Figure 53: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-create-product



Figure 54: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-create-pricebook

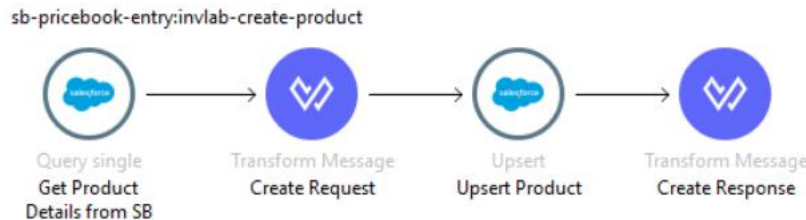


Figure 55: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-create-product

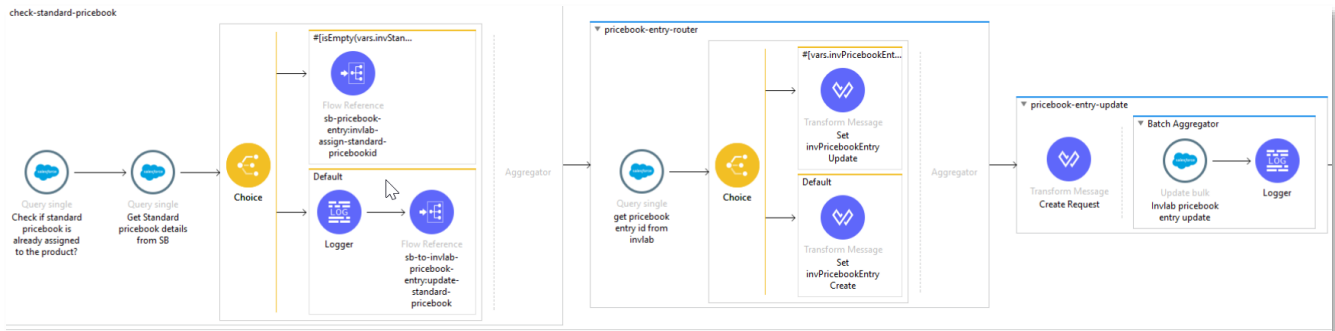


Figure 56: MuleSoft: Price Book Entry: Financial Services (SB): check-standard-pricebook

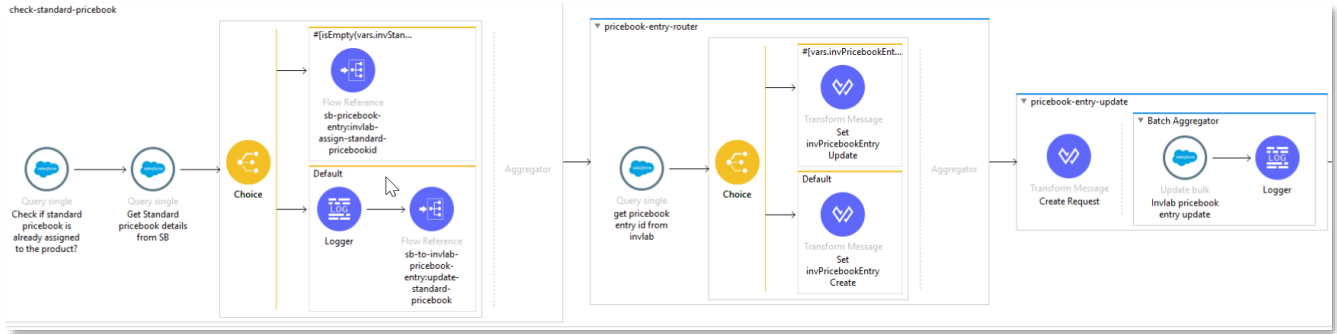


Figure 57: MuleSoft: Price Book Entry: Financial Services (SB): check-standard-pricebook

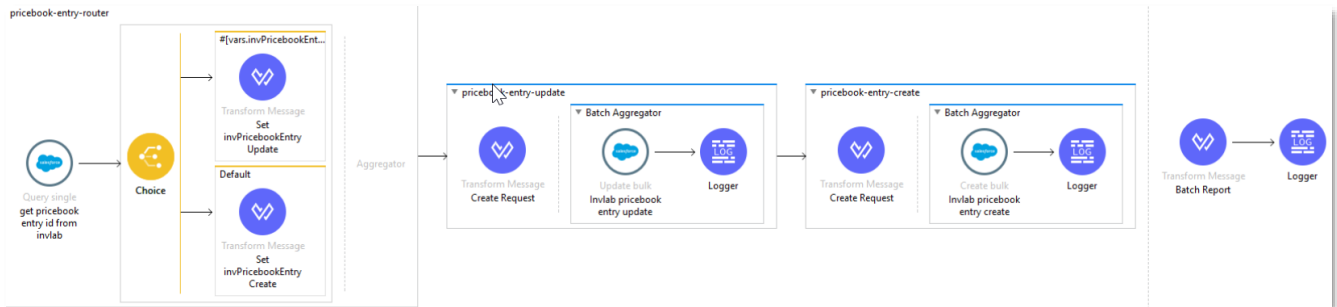


Figure 58: MuleSoft: Price Book Entry: Financial Services (SB): pricebook-entry-router

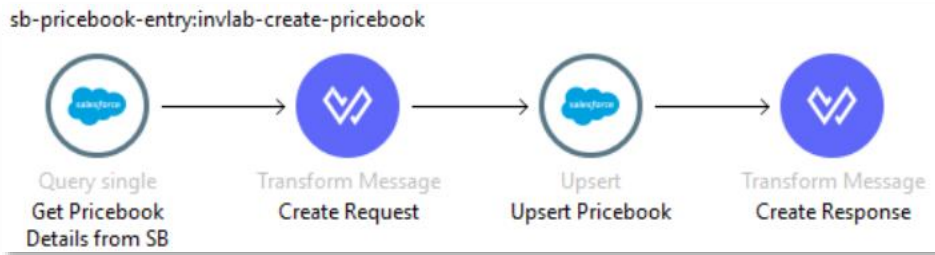


Figure 59: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-create-pricebook

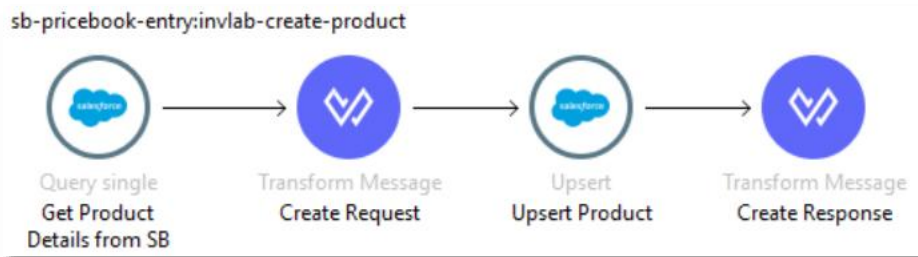


Figure 60: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-create-product

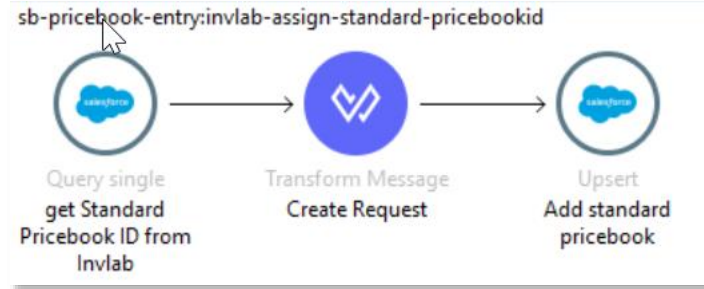


Figure 61: MuleSoft: Price Book Entry: Financial Services (SB): sb-pricebook-entry:invlab-assign-standard-pricebookid

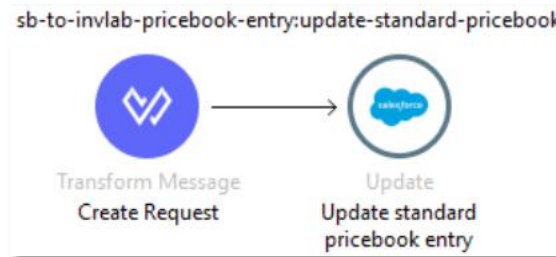


Figure 62: MuleSoft: Price Book Entry: Financial Services (SB): sb-to-invlab-pricebook-entry:update-standard-pricebook

## USER

---

### FIELDS RETRIEVED FROM SB/FS

#### Query SB/FS User

- `if(isEmpty(vars.sourceUserEmployeeNumber)) "SELECT ID, Username, LastName, Email,`
  - `FROM User,`
  - `WHERE LastName = :lastName and Email = :email"`  
`else "SELECT ID, Username, LastName, Email FROM User;`
  - `WHERE EmployeeNumber Like :empNum OR (LastName = :lastName and Email = :email);`
- Checking if the user exists in Innovation lab or not
  - Mapped the records bi ID
  - If it exists good
  - If it doesn't exist, create a new user
  - Upsert the data
  - Created a Batch Report
  - Properties secured via **Salesforce**

**USER FS IMAGES**

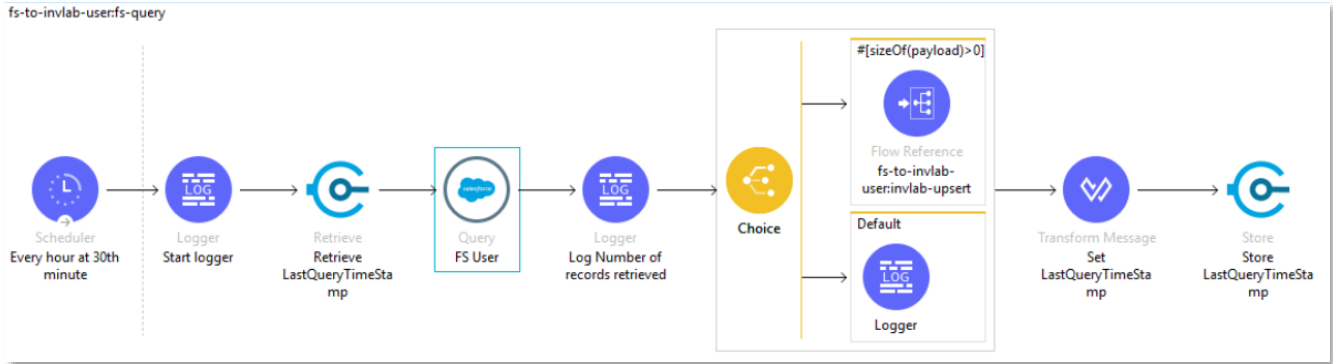


Figure 63: MuleSoft: User: Financial Services (FS): fs-to-invlab-user:fs-query

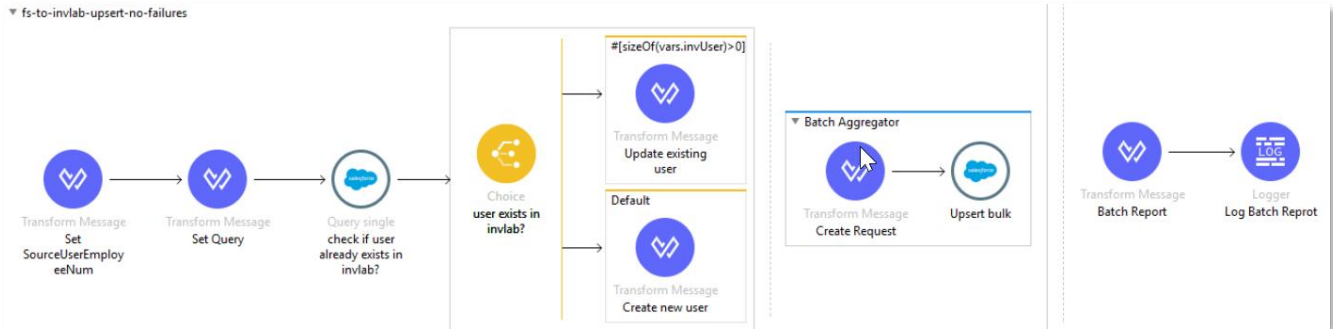


Figure 64: MuleSoft: User: Financial Services (FS): fs-to-invlab-upsert-no-failures

**USER SB IMAGES**

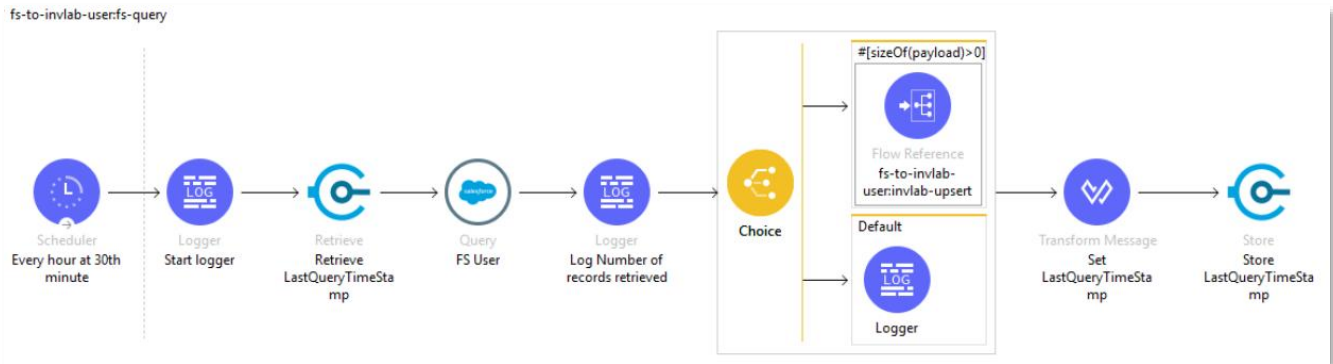


Figure 65: MuleSoft: User: Financial Services (SB) : fs-to-invlab-user:fs-query

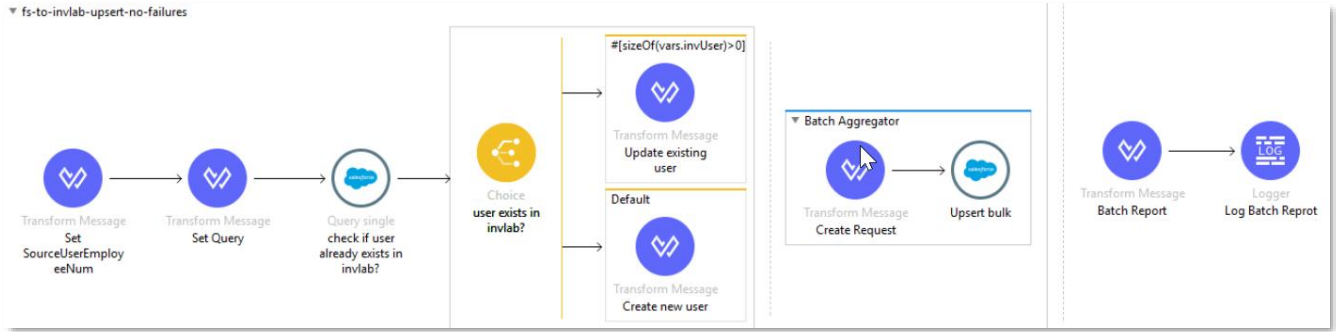


Figure 66: MuleSoft: User: Financial Services (FS) : fs-to-invlab-upsert-no-failures

## CONTACTS

---

### FIELDS RETRIEVED FROM SB/FS

#### Query SB/FS User

```
SELECT Id,AccountId, Birthdate,
Description, DoNotCall, Email, EmailBouncedDate, EmailBouncedReason,
Fax, FirstName, HasOptedOutOfEmail, IsDeleted,
IsEmailBounced,ReportsToId,
Jigsaw, JigsawContactId, LastName, LeadSource, MailingStreet,
MailingCity, MailingState, MailingPostalCode, MailingCountry,
MobilePhone, OtherCity, OtherState, OtherPostalCode, OtherCountry,
OtherStreet, Phone, PhotoUrl, Salutation, OwnerId, LastModifiedDate,
Owner.Name,Title, AssistantPhone, HasOptedOutOfFax, AssistantName,
Department, OtherPhone, HomePhone,
C_Suite__c,Organizational_Responsibility__c, Contact_Status__c,
Contact_Type__c,
Account.Name, Account.Type, Account.BillingStreet,
Account.BillingCity, Account.BillingState, Account.BillingCountry,
Account.ShippingStreet, Account.ShippingCity, Account.ShippingState,
Account.ShippingPostalCode, Account.ShippingCountry, Account.Phone,
Account.Fax, Account.AccountNumber, Account.Website, Account.Sic,
Account.Industry, Account.AnnualRevenue, Account.NumberOfEmployees ,
Account.Description, Account.AccountSource, Account.SicDesc,
Account.LastModifiedDate, Account.LastModifiedById,
Account.Portfolio__c, Account.Account_Health__c, Account.Solution__c,
Account.Whitespace__c, Account.Account_Status__c,
Account.Id, Account.OwnerId, Account.Owner.Name,
FROM Contact
Where LastModifiedDate > :timeStamp
```

**CONTACTS FS IMAGES**

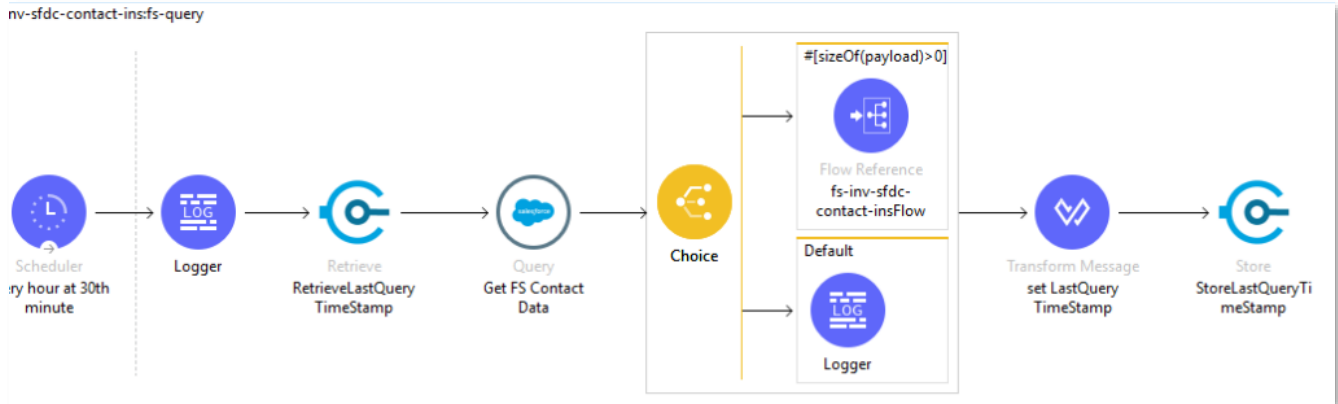


Figure 67: MuleSoft: Contacts: Financial Services (FS): fs-inv-sfdc-contact-ins:fs-query

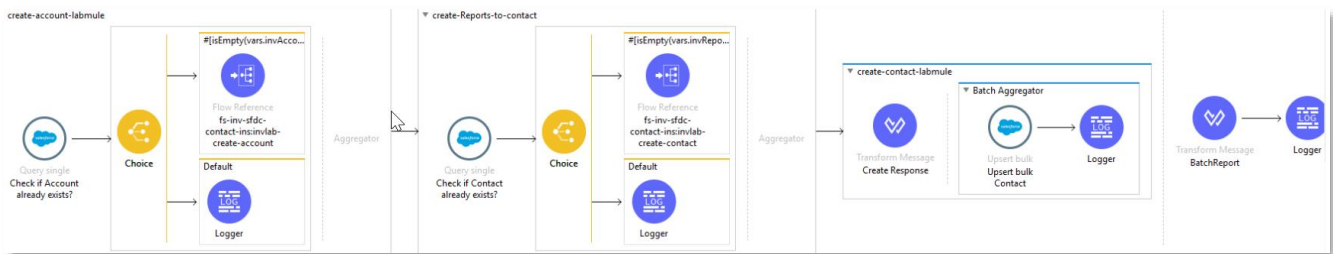


Figure 68: MuleSoft: Contacts: Financial Services (FS): create-account-labmule

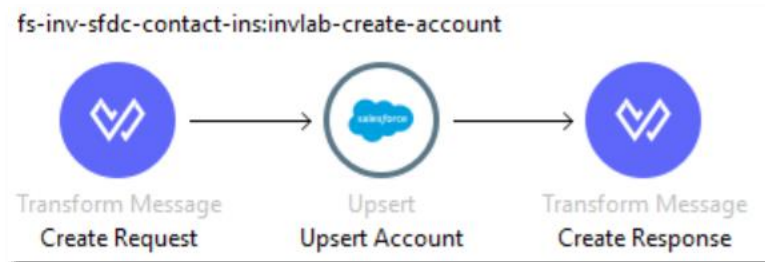


Figure 69: MuleSoft: Contacts: Financial Services (FS): fs-inv-sfdc-contact-ins:invlab-create-account

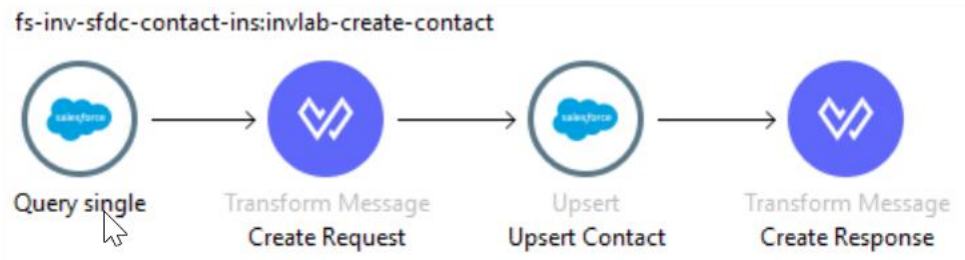


Figure 70: MuleSoft: Contacts: Financial Services (FS): fs-inv-sfdc-contact-ins:invlab-create-contact

**CONTACTS SB IMAGES**

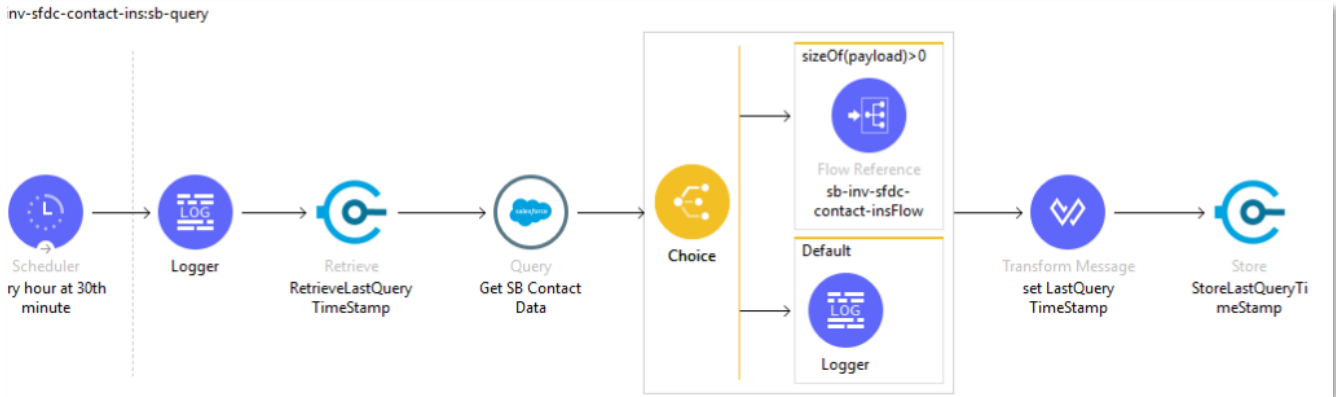


Figure 71: MuleSoft: Contacts: Financial Services (SB): sb-inv-sfdc-contact-ins:sb

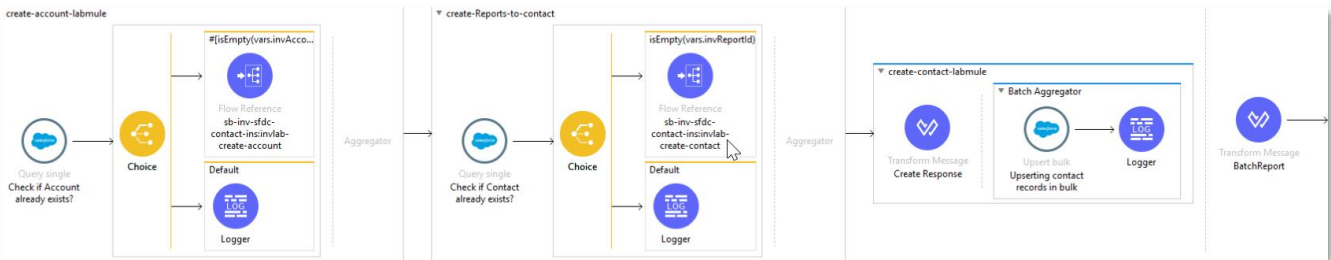


Figure 72: MuleSoft: MuleSoft: Contacts: Financial Services (SB): create-account-labmule

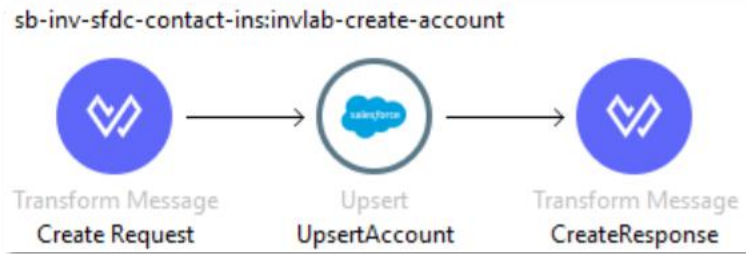


Figure 73: MuleSoft: MuleSoft: Contacts: Financial Services (SB): sb-inv-sfdc-contact-ins:invlab-create-account

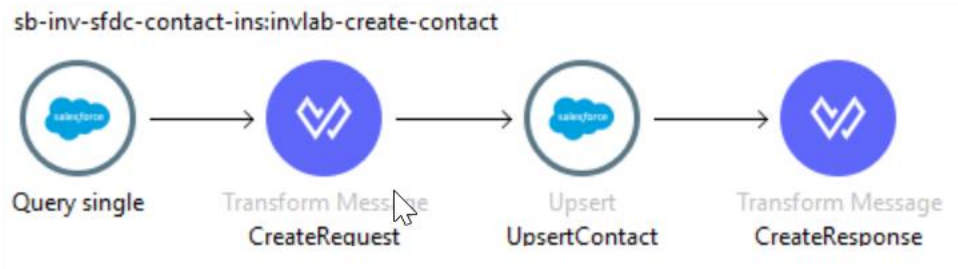


Figure 74: MuleSoft: MuleSoft: Contacts: Financial Services (SB) :sb-inv-sfdc-contact-ins:invlab-create-contact

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