



## Unilever Compre Ahora Argentina

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Magento 2 Cloud API Specifications Document

May 16, 2019

### Revision History

Date	Description	Author
May 16, 2019	- Magento Rest API Services	Rajiv Gandhi Raja / Thamoetharan Rathinasababathi
May 23, 2019	- Magento Rest API Services ( Order Status, Catalog Inventory, Price, SMS, PICMORE & Omnisend )	Thamoetharan Rathinasababathi
July 3, 2019	- Updated distributor code, retailer group info on product price, inventory api structure	Thamoetharan Rathinasababathi
July 9, 2019	- Added Retailer Interface, updated Catalog Interface	Thamoetharan Rathinasababathi
July 24, 2019	- Updated Catalog Price and Order Status Interface	Thamoetharan Rathinasababathi
July 31, 2019	- Updated data value mapping, sample reference data for each interface, more detailed description for all interface	Thamoetharan Rathinasababathi / Rajiv Gandhi Raja



August 22, 2019	- Included additional index on Retailer Account Status Update Interface	Thamotharan Rathinasababathi
September 19, 2019	- Added distributor_code info on order status response structure ( 6.8 & 6.9 ) - Moved “retailer_id” field from global section to order section ( 6.7, 6.8 & 6.9 )	Thamotharan Rathinasababathi
September 27, 2019	- Included more detailed information on 6.5 Catalog Price interface section with additional request & response structure - Included Offline Order Details as Part of 6.8 Order Status Update interface - Included Non Approved Retailer Price information on 6.4 Catalog Update Interface	Thamotharan Rathinasababathi

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## 1. Section 1: Magento Integration

### 2. Purpose

The Purpose of this document is to capture & propose list of integration touch points with API's type & other important parameters for all the integration points like Order Data, order status update, product price, product inventory, etc...

## 3. Overview of Integration Touch Points

### 3.1 Components Involved

1. Magento ( M2 )
2. MuleSoft ( MS )
3. Distributor's ERP System

Si No.	Trigger Points	Magento	ERP	Data Format	Supported Exchange Methodology
1	Retailer Account Interface	Outbound	Inbound	JSON	REST
2	Retailer Account Status ( Approve / Reject )	Inbound	Outbound	JSON	REST
3	Catalog	Inbound	Outbound	JSON	REST



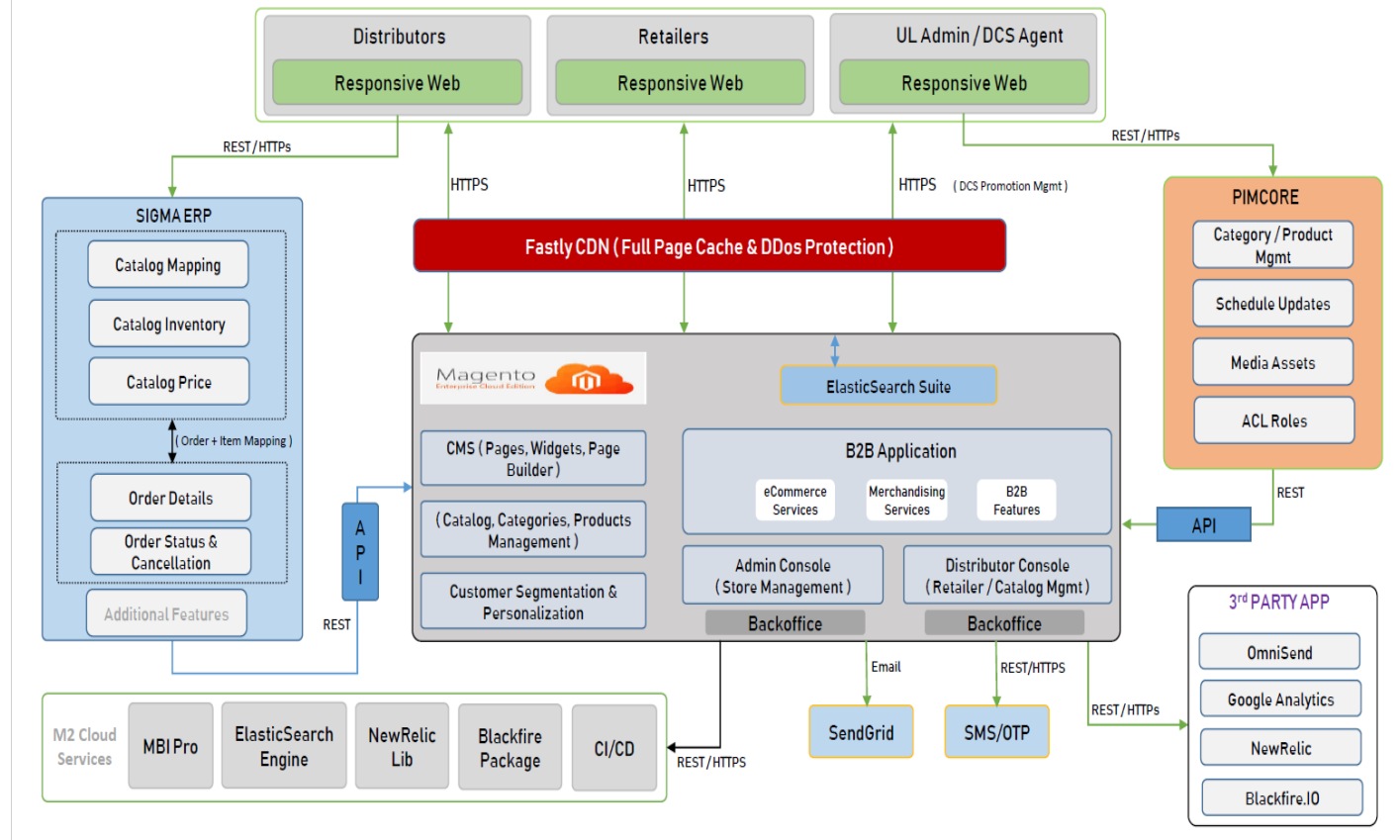
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4	Catalog Price	Inbound	Outbound	JSON	REST
5	Catalog Inventory	Inbound	Outbound	JSON	REST
6	Sales Order	Outbound	Inbound	JSON	REST
7	Order Status Update	Inbound	Outbound	JSON	REST
8	Order Status Update ( Retailer Cancel the Order / Distributor Updates the Order in Magento )	Outbound	Inbound	JSON	REST

#### 4. Magento B2B High Level Architecture



## B2B Compre Ahora Argentina Application Architecture



### 5. Preconditions

- The locale of all data whatever we are passing will be Spanish only
- Going to use value code for some of the attribute instead of label to avoid any text changes in future
- All mentioned time zones are Buenos Aires, Argentina (GMT-3)
- In case of interface down, Magento store will operate with very recent updated values.
- Below are major fields mapping between ERP & Magento

ERP	Magento
EAN	SKU
Order Id	Increment Id
Province	State

### 6. Magento - ERP Integration Points



## 6.1 Token Generation

The token generation is very first initial step to get access on magento API's. We have to generate access token to utilize other API calls. The access token needs to be passed with each API calls as part of header information.

Authorization: Bearer {token}

URL:

Development Env:

<http://development-argentina-a6vkxxy-aba4j235kr5wu.us-3.magentosite.cloud/index.php/rest/V1/integration/admin/token>

Staging:

[https://mcstaging.unlb2bcomm1.unileverservices.com/index.php/rest/V1/integration/admin/to  
ken](https://mcstaging.unlb2bcomm1.unileverservices.com/index.php/rest/V1/integration/admin/token)

Request Type	POST
Type	REST API
Data Format	JSON

Username: sigmaadmin

Password: s1gma3rp

### Sample Request

```
{  
  "username" : "sigmaadmin",  
  "password" : "s1gma3rp"  
}
```

### Sample Response

"Okebozau21af94c2g4l1cyo4b9deauet"

## 6.2 Retailer Account Interface - Registration



### Description

This API is to capture new retailer account information whenever retailer doing registration in magento. The retailer account data needs to be synced between Magento and Distributor's ERP.

Magento will share basic retailer account information whatever captured in registration form and ERP will share account *status code & retailer id* which is generated from ERP end while approving the account.

The retailer id will be stored against specific retailer account on magento to support future transactions anything like changing address, placing order, configuring prices for specific customer.

In case of account is rejected in ERP end, ERP needs to share the *status code & reject reason* information which is mandatory field.

We are going to get the below field value in the response structure from ERP.

- retailer\_id
- status
- reject\_reason

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Real-time

**URL:** Magento is going to consume the API and URL needs to be come from Mulesoft team.

### Data Value Mapping:

<b>Attribute</b>	<b>Code – Value</b>
status	1 - Approved 2 – Rejected
document_type	1 – CUIT 2 – DNI
customer_type	1 - Autoservicio 2 - Almacén 3 - Kiosko 4 - Casa de Limpieza



	5 - Verdurería 6 - Farmacia 7 - Perfumería 8 - Carnicería 9 - Hotel 10 - Restaurante 11 - Lavandería 12 - Mayorista 13 - Dietética / Naturales 14 - Panadería 15 - Otros
--	--

#### Sample Request (JSON)

```
{
  "distributor_code":"DEBOX",
  "property_name":"HyperMarket",
  "cuit_dni_id":"20105631458",
  "document_type":"1",
  "ingresos_brutos":"20-10563145-8",
  "customer_type":"1",
  "street":"San Martin",
  "number":"600",
  "municipality":"Ciudadela",
  "city":"Tres de Febrero",
  "state":"Buenos Aires",
  "country":"Argentina",
  "postal_code":"B1702DWL",
  "phone_number":"+54 9 11 1234 5678",
  "mobile_number":"+54 9 15 3123 4567",
  "email":"thamoetharan.rathinasbabathi@bornrgroup.com",
  "firstname":"Thamoetharan",
  "surname":"Rathinasbabathi",
  "retailer_id":""
}
```

#### Sample Response (JSON)

```
{
  "distributor_code":"DEBOX",
  "property_name":"HyperMarket",
  "retailer_id":"1123456"
  "status":"1",
  "reject_reason":"","
}
```



```
"cuit_dni_id":"20105631458",
"document_type":"1",
"ingresos_brutos":"20-10563145-8",
"customer_type":"1",
"street":"San Martin",
"number":"600",
"municipality":"Ciudadela",
"city":"Tres de Febrero",
"state":"Buenos Aires",
"country":"Argentina",
"postal_code":"B1702DWL",
"phone_number":"+54 9 11 1234 5678",
"mobile_number":"+54 9 15 3123 4567",
"email":"thamotharan.rathinasbabathi@borngroup.com",
"firstname":"Thamotharan",
"surname":"Rathinasababathi"
}
```

### Data Mapping

You can refer the attached sheet for data mapping.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## 6.3 Retailer Account Status Interface – (Approve / Reject)

### Description

This API is to capture already registered retailer account status from Distributor's ERP to Magento whenever distributor approves / rejects the account from Distributor's ERP application.

In case of **approved**, ERP needs to share the **status code & retailed id** to magento which will be stored against specific retailer account to support any future transactions. And optionally ERP will share the below additional details also.

- customer\_credit\_available
- customer\_total\_credit
- customer\_pending\_payment

In case of **rejected**, ERP needs to share the **status code & reject reason** to magento which will be stored against retailer account and mapping will be removed between retailer & distributor.



The rejected retailer will see the global catalog without any price details and can't do any transactions on the website.

We are going to get the below field value in the response structure from ERP.

- retailer\_id
- status
- reject\_reason

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Real-time

URL: <http://development-argentina-a6vkxsy-aba4j235kr5wu.us-3.magentosite.cloud/index.php/rest/V1/customers/:customerId>

#### Data Value Mapping:

<b>Attribute</b>	<b>Code - Value</b>
status	1 - Approved 2 - Rejected
document_type	1 – CUIT 2 – DNI
customer_type	1 - Autoservicio 2 - Almacén 3 - Kiosko 4 - Casa de Limpieza 5 - Verdurería 6 - Farmacia 7 - Perfumería 8 - Carnicería 9 - Hotel 10 - Restaurante 11 - Lavandería 12 - Mayorista 13 - Dietética / Naturales 14 - Panadería 15 - Otros



### Sample Request (JSON)

```
{
  "retailer":{
    "distributor_code":"DEBOX",
    "property_name":"HyperMarket",
    "retailer_id":"1123456"
    "status":"1",
    "reject_reason":"",
    "cuit_dni_id":"20105631458",
    "document_type":"1",
    "ingresos_brutos":"20-10563145-8",
    "customer_type":"1",
    "street":"San Martin",
    "number":"600",
    "municipality":"Ciudadela",
    "city":"Tres de Febrero",
    "state":"Buenos Aires",
    "country":"Argentina",
    "postal_code":"B1702DWL",
    "phone_number":"+54 9 11 1234 5678",
    "mobile_number":"+54 9 15 3123 4567",
    "email":"thamoetharan.rathinasbabathi@borngroup.com",
    "firstname":"Thamoetharan",
    "surname":"Rathinasbabathi",
    "customer_credit_available":"",
    "customer_total_credit":"",
    "customer_pending_payment":""
  }
}
```

### Sample Response (JSON)

```
{
  "distributor_code":"DEBOX",
  "property_name":"HyperMarket",
  "retailer_id":"1123456"
  "status":"1",
  "reject_reason":"",
  "cuit_dni_id":"20-10563145-8",
  "document_type":"1",
  "ingresos_brutos":"20-10563145-8",
  "customer_type":"1",
```



```
"street": "Av. Roque Pérez",
"number": "86",
"municipality": "Ciudadela",
"city": "Tres de Febrero",
"state": "Buenos Aires",
"country": "Argentina",
"postal_code": "B1702DWL",
"phone_number": "+54 3757 42-2333",
"mobile_number": "+54 9 223 123-4567",
"email": "thamotharan.rathinasbabathi@borngroup.com",
"firstname": "Thamotharan",
"surname": "Rathinasababathi",
"customer_credit_available": "10000.00",
"customer_total_credit": "14000.00",
"customer_pending_payment": "4000.00"
}
```

### Data Mapping

You can refer the attached sheet for data mapping.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Mæ

## 6.4 Catalog Updates

### Description

The Catalog updates API is going to be used to map set of products from global catalog under each distributor.

Each distributor can manage their own set of products from global catalog. The catalog selection will be happened at Distributor's ERP end. Distributor can either enable / disable set of products from their supported catalog list.

All distributors can send the catalog feed at the same mentioned time and the system will process all the request in first in first serve basis. The catalog changes will be auto reflect on website after doing re-indexing & cache clean in the magento system. The magento system already configured with scheduled job which will take care re-indexing and clean cache activity and there is no need for any manual intervention on magento end.





In case of invalid product EAN has passed in API request, Magento will validate the EAN code and store the request details in separate section at magento side. UL admin can check all this kind of data in the admin panel.

The catalog interface contains SKU mapping details with default pricing for “Non Approved Retailer”

While doing product mapping for distributor, we need to update the below list of values on each product level in magento.

- Status
- Qty\_sku\_unit
- Qty\_min\_sell
- Price // Non Approved Retailer Price

URL:

<http://development-argentina-a6vkxxy-aba4j235kr5wu.us-3.magentosite.cloud/index.php/rest/V1/products>

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Twice a Day ( 12 AM & 12 PM )

#### Data Value Mapping:

Attribute	Code - Value
Status	1 - Enable 0 - Disable
API response status	1 - Success 2 - Failure

#### Sample Request (JSON)

```
{  
  "distributor_code":"DEBOX",
```



```
"products": [{
  "sku": "7791293036045",
  "name": "Jabon Liquido ALA Repuesto Económico 400 ML",
  "status": "1",
  "qty_sku_unit": "1",
  "qty_min_sell": "4",
  "industry_name": "Unilever",
  "industry_code": "67852521",
  "short_description": "Jabon Liquido ALA Repuesto Económico 400 ML",
  "price": "17.00", // Non Approved Retailer Pricing
  "brand": "ALA"
},
{
  "sku": "7791290008441",
  "name": "Cremoso CIF Limpiador Original 500 ml",
  "status": "1",
  "qty_sku_unit": "1",
  "qty_min_sell": "4",
  "industry_name": "Unilever",
  "industry_code": "67852521",
  "short_description": "Cremoso CIF Limpiador Original 500 ml",
  "price": "17.00", // Non Approved Retailer Pricing
  "brand": "ALA"
}
]
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DEBOX",
  "products": [
    {
      "sku": "7791293036045",
      "status": "1"
    },
    {
      "sku": "7791290008441",
      "status": "1"
    }
  ]
}
```



## Data Mapping

Please refer below spreadsheet for field level mapping.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## 6.5 Catalog Price Updates

### Description

The catalog price updates API is going to be used to update base price, special price and tier price information of multiple SKU's from ERP system to Magento in single shot. In case of SKU does not exist in UL global catalog, system should capture the product information and keep a record of it. An admin will take care of missing SKU's offline.

The price details can be updated in following 4 configuration.

1. Specific Retailer Based Price
2. Specific Retailer Group Based Price
3. Global Price for all logged in Retailer
4. Global Price for unapproved retailer

Approved Retailers Price Configuration:

1. Configure price on specific retailer
2. Configure price on specific retailer group
3. Configure price for global retailers

On top of all above 3 combinations, week day's wise price configuration also will be there.

The system has to pick the price in below sequence irrespective of minimal price.

1. Check for retailer specific price ( Check on weekdays also )
2. Check for retailer group wise price ( Check on weekdays also )
3. Finally check for global price ( Check on weekdays also )

Below are some common facts on the price configuration.



1. Non Approved Retailer will only have price information. We won't have any special price, tier price and week days based price for Non Approved Retailer.
2. Base Price for approved & unapproved retailer can be different.

The below attachment contains different price configuration and display details on various pages like listing, details, cart and checkout pages.



Price Structure.xlsx

Whenever ERP push new prices for specific SKU, Magento will delete the old price configuration for specific SKU and configure new set.

ERP needs to share the entire price configuration for each SKU at single call. We are not supporting any delta price updates for single sku. It means, configuring price alone in one call, configuring special price at another call is not possible.

System won't supports multiple requests for configuring price, special price and tier price for single SKU. Everything needs to be passed in single request.

**URL :**

<http://development-argentina-a6vkxxy-aba4j235kr5wu.us-3.magentosite.cloud/index.php/rest/V1/products/distributor-prices>

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Every one hour (0, 1, 2, 3, 4,.. 23 )

**Data Value Mapping:**

<b>Attribute</b>	<b>Code - Value</b>
valid_week_day	1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday



	6 - Saturday 7 - Sunday
Date format	dd-mm-yyyy hh:mm:ss
discount_type	1 - fixed 2 - percentage
API response status	1 - Success 2 - Failure

### Sample Request (JSON)

```
{
  "distributor_code": "DEBOX",
  "products": [{
    "sku": "7895671092536",
    "prices": [{
      "retailer_id": "1123456",
      "price": "120.00",
      "special_price": "110.00",
      "special_price_start_date": "2017-07-16 23:59:59",
      "special_price_end_date": "2017-07-16 23:59:59",
      "discount_value": "10.00",
      "discount_type": "1",
      "quantity_min_product": "1",
      "quantity_max_product": "10",
      "valid_week_day": "1,3,5,7"
    }],
    {
      "retailer_id": "1123456",
      "retailer_group": "1",
      "price": "120.00",
      "special_price": "105.00",
      "special_price_start_date": "2017-07-16 23:59:59",
      "special_price_end_date": "2017-07-16 23:59:59",
      "discount_value": "15.00",
      "discount_type": "1",
      "quantity_min_product": "1",
      "quantity_max_product": "1000"
    }
  ]
},
{
  "sku": "7791290008441",
  "prices": [{
```



```
        "retailer_id": "1123456",
        "price": "350.19",
        "special_price": "320.00"
    },
    {
        "price": "350.00",
        "special_price": "335.00",
        "discount_value": "15.00",
        "discount_type": "1",
        "quantity_min_product": "2",
        "quantity_max_product": "1000"
    }
},
{
    "sku": "2347865134908",
    "prices": [{
        "price": "350.00"
    }]
}
]
```

#### Sample Response (JSON)

```
{
    "distributor_code": "DEBOX",
    "products": [
        {
            "sku": "7895671092536",
            "status": "1"
        },
        {
            "sku": "7791290008441",
            "status": "1"
        },
        {
            "sku": "2347865134908",
            "status": "1"
        }
    ]
}
```



Additional Samples based on Pricing Structure sheet.

### Sample Request (JSON)

```
{
  "distributor_code": "DEBOX",
  "products": [{
    "sku": "7895671092536",          // Product A
    "prices": [{
      "price": "30.00",
      "special_price": "28.00",
      "special_price_start_date": "2017-09-01 00:00:01",
      "special_price_end_date": "2017-09-30 23:59:59",
      "valid_week_day": "1,3,5,7"
    },
    {
      "price": "30.00",
      "special_price": "27.00",
      "special_price_start_date": "2017-09-01 00:00:01",
      "special_price_end_date": "2017-09-30 23:59:59",
      "valid_week_day": "2,4,6"
    },
    {
      "retailer_id": "1123456",      // Luciana.rego@unilever.com
      "price": "30.00",
      "special_price": "20.00"
    },
    {
      "retailer_group": "1",         // Autoservicio
      "price": "30.00",
      "special_price": "26.00"
    }
  ]
},
{
  "sku": "7791290008441",          // Product B
  "prices": [{
    "price": "30.00",
    "special_price": "28.00",
    "special_price_start_date": "2017-09-01 00:00:01",
    "special_price_end_date": "2017-09-30 23:59:59"
```



```
    },
    {
      "retailer_id": "1123456",      // Luciana.rego@unilever.com
      "price": "30.00",
      "special_price": "29.00"
    },
    {
      "retailer_group": "1",        // Autoservicio
      "price": "30.00",
      "special_price": "25.00"
    }
  ]
}
]
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DEBOX",
  "products": [
    {
      "sku": "7895671092536",
      "status": "1"
    },
    {
      "sku": " 7791290008441",
      "status": "1"
    }
  ]
}
```

#### Data Mapping

Please refer the below spreadsheet for field level mapping.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## 6.6 Catalog Inventory Updates





### Description

This Catalog inventory updates API is going to be used to update inventory of multiple SKU's from ERP system to Magento in single shot.

The each request data will replace the old inventory information of specific sku in magento end. It means, at present Product A has 150 quantity in magento system and getting a new request for the same sku with 200 quantity, the latest 200 quantity will be updated against that specific sku. It won't append the quantity with existing one.

### URL :

<http://development-argentina-a6vkxy-aba4j235kr5wu.us-3.magentosite.cloud/index.php/rest/V1/inventory/source-items>

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Every one hour ( 0.15 1.15, 2.15, 3.15, 4.15, .... 23.15 )

### Data Value Mapping:

<b>Attribute</b>	<b>Code - Value</b>
sourceitems[status]	1 - In Stock 0 - Out of Stock
Api response status	1 - Success 2 - Failure

### Sample Request (JSON)

```
{
  "distributor_code": "DEBOX"
  "sourceItems": [{
    "sku": "7791290008441",
    "quantity": "1000",
    "status": "1",
    "min_thersold_qty": "5"
  },
  {
    "sku": "8710447226957",
    "quantity": "2000",
```



```
"status": "1",
"min_thersold_qty": "5"
},
{
  "sku": "7794000599024",
  "quantity": "500",
  "status": "1",
  "min_thersold_qty": "5"
},
{
  "sku": "7794000598881",
  "quantity": "250",
  "status": "1",
  "min_thersold_qty": "5"
}
}]
}
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DEBOX",
  "products": [
    {
      "sku": "7791290008441",
      "status": "1"
    },
    {
      "sku": " 8710447226957",
      "status": "1"
    },
    {
      "sku": "7794000599024",
      "status": "1"
    },
    {
      "sku": " 7794000598881",
      "status": "1"
    }
  ]
}
```

#### Data Mapping



Please refer the below spreadsheet for field level mapping.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## 6.7 Sales Order

### Description

The Sales Order API is going to be used to push all new orders from magento to Distributor's ERP. Magento system will manage order export flag with by default value of 1 whenever new order is placed. The Magento system will capture all orders with flag = 1 and push the details to ERP system and update the specific order with flag = 2 in case of successful transfer.

The magento scheduled cron job will collect all orders for every 15 mins and push the details. In case of any interface failure / ERP down, magento cron job will collect all previous orders and try to push to ERP in next call.

URL:

URL should come from Mulesoft.

<b>Request Type</b>	GET
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Every 15 Minutes

### Data Value Mapping:

<b>Attribute</b>	<b>Code - Value</b>
payment[method]	COD - Cash on Delivery CCD - Credit Card on Deliver VWMPD - Virtual Wallet Mercado Pago on Deliver VWMPO - Virtual Wallet Mercado Pago Online CCMPO - Credit card Mercado Pago Online DCMPO - Debit card Mercado Pago
order status	100 - Order Received 101 - Order Edit 102 - Order Ready to Deliver 103 - Order Ready to Pick-up



	104 - Order Partially Rejected 105 - Offline Payment Pending 106 - Order Closed 107 - Order Cancelled
created_at	dd-mm-yyyy hh:mm:ss
order api response status	1 - success 2 - failed

**Products used for the below sample order response:**

SKU	Price (+IVA)	weight
7791293038568	26.62	15
7791290008441	36.63	10

**Sample order details**

increment_id	Subtotal	Order Total	Discount	Discount Type
1000000003	162.14	162.14	0	
1000000004	126.4	113.8	12.64 (10% discount)	Order Level Discount
1000000005	113.26	113.26	10% Discount on all items	Item Level Discount
1000000006	113.26	103.36	10% Item level + 10\$ Order Level	Order + Item Level

**Sample Request**

```
{
  "distributor_code": "DEBOX",
  "orders": [{
    "increment_id": "1000000003",
    "retailer_id": "1123456",
    "created_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "5",
    "customer_email": "rajiv.raja@unilever.com",
    "customer_firstname": "Rajiv",
    "customer_lastname": "Raja",
    "total_item_count": "2",
    "subtotal": "162.14",
    "discount_amount": "0",
    "grand_total": "162.14",
```



Balanceado 350 ML",

```
"total_due": "162.14",
"remote_ip": "125.16.129.11",
"status": "100",
"items": [{
  "name": "PH Balanceado Suave Suave Niños PURA DIVERSIÓN PH
Balanceado 350 ML",
  "industry_name": "Unilever",
  "original_price": "26.62",
  "price": "26.62",
  "price_incl_tax": "26.62",
  "qty_ordered": "2",
  "discount_amount": "0",
  "row_total": "53.24",
  "row_total_incl_tax": "53.24",
  "sku": "7791293038568",
  "row_weight": "30"
},
{
  "name": "Cremoso CIF Limpiador Original 500 ml",
  "industry_name": "Unilever",
  "original_price": "36.30",
  "price": "36.30",
  "price_incl_tax": "36.60",
  "qty_ordered": "3",
  "discount_amount": "0",
  "row_total": "108.90",
  "row_total_incl_tax": "108.90",
  "sku": "7791290008441",
  "row_weight": "30"
}
],
"payment": {
  "amount_ordered": "162.14",
  "method": "cashondelivery"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
```



```
        "street": "San Martin",
        "street_number": "600",
        "city": "Tres de Febrero",
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
    },
    "shipment_type": "pickup"
},
{
    "increment_id": "1000000004",
    "retailer_id": "1483456",
    "created_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "4",
    "customer_email": "rajiv.raja@unilever.com",
    "customer_firstname": "Rajiv",
    "customer_lastname": "Raja",
    "total_item_count": "2",
    "subtotal": "126.44",
    "discount_amount": "12.64",
    "grand_total": "113.80",
    "total_due": "113.80",
    "remote_ip": "125.16.129.11",
    "status": "100",
    "items": [{
        "name": "PH Balanceado Suave Suave Niños PURA DIVERSIÓN PH
Balanceado 350 ML",
        "industry_name": "Unilever",
        "original_price": "26.62",
        "price": "26.62",
        "price_incl_tax": "26.62",
        "qty_ordered": "2",
        "discount_amount": "0",
        "row_total": "53.24",
        "row_total_incl_tax": "53.24",
        "sku": "7791293038568",
        "row_weight": "30"
    },
    {
        "name": "Cremoso CIF Limpiador Original 500 ml",
```



```
        "industry_name": "Unilever",
        "original_price": "36.30",
        "price": "36.30",
        "price_incl_tax": "36.60",
        "qty_ordered": "2",
        "discount_amount": "0",
        "row_total": "73.20",
        "row_total_incl_tax": "73.20",
        "sku": "7791290008441",
        "row_weight": "20"
    },
    "payment": {
        "amount_ordered": "113.80",
        "method": "cashondelivery"
    },
    "shipping": {
        "address": {
            "email": "thamotharan.r @borngroup.com",
            "firstname": "Thamotharan",
            "lastname": "Rathinasababathi",
            "postcode": "B1702DWL",
            "street": "San Martin",
            "street_number": "600",
            "city": "Tres de Febrero",
            "state": "Buenos Aires",
            "country_id": "AR",
            "municipality": "Ciudadela"
        }
    },
    "shipment_type": "pickup"
},
{
    "increment_id": "1000000005",
    "retailer_id": "12312312",
    "created_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "4",
    "customer_email": "rajiv.raja@unilever.com",
    "customer_firstname": "Rajiv",
    "customer_lastname": "Raja",
```



Balanceado 350 ML",

```
"total_item_count": "2",
"subtotal": "113.26",
"discount_amount": "0",
"grand_total": "113.26",
"total_due": "113.26",
"remote_ip": "125.16.129.11",
"status": "100",
"items": [{
  "name": "PH Balanceado Suave Suave Niños PURA DIVERSIÓN PH
Balanceado 350 ML",
  "industry_name": "Unilever",
  "original_price": "26.62",
  "price": "23.96",
  "price_incl_tax": "23.96",
  "qty_ordered": "2",
  "discount_amount": "2.66",
  "row_total": "47.92",
  "row_total_incl_tax": "47.92",
  "sku": "7791293038568",
  "row_weight": "30"
},
{
  "name": "Cremoso CIF Limpiador Original 500 ml",
  "industry_name": "Unilever",
  "original_price": "36.30",
  "price": "32.67",
  "price_incl_tax": "32.67",
  "qty_ordered": "2",
  "discount_amount": "3.63",
  "row_total": "65.34",
  "row_total_incl_tax": "65.34",
  "sku": "7791290008441",
  "row_weight": "20"
}
],
"payment": {
  "amount_ordered": "113.26",
  "method": "cashondelivery"
},
"shipping": {
  "address": {
```





```
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
    "state": "Buenos Aires",
    "country_id": "AR",
    "municipality": "Ciudadela"
  }
},
"shipment_type": "pickup"
},
{
  "increment_id": "1000000004",
  "retailer_id": "1123456",
  "created_at": "30-04-2019 06:37:49",
  "total_qty_ordered": "4",
  "customer_email": "rajiv.raja@unilever.com",
  "customer_firstname": "Rajiv",
  "customer_lastname": "Raja",
  "total_item_count": "2",
  "subtotal": "113.26",
  "discount_amount": "10.00",
  "grand_total": "103.36",
  "total_due": "103.36",
  "remote_ip": "125.16.129.11",
  "status": "100",
  "items": [{
    "name": "PH Balanceado Suave Suave Niños PURA DIVERSIÓN PH
Balanceado 350 ML",
    "industry_name": "Unilever",
    "original_price": "26.62",
    "price": "23.96",
    "price_incl_tax": "23.96",
    "qty_ordered": "2",
    "discount_amount": "2.66",
    "row_total": "47.92",
    "row_total_incl_tax": "47.92",
    "sku": "7791293038568",
```



```
"row_weight": "30"
},
{
  "name": "Cremoso CIF Limpiador Original 500 ml",
  "industry_name": "Unilever",
  "original_price": "36.30",
  "price": "32.67",
  "price_incl_tax": "32.67",
  "qty_ordered": "2",
  "discount_amount": "3.63",
  "row_total": "65.34",
  "row_total_incl_tax": "65.34",
  "sku": "7791290008441",
  "row_weight": "20"
}
],
"payment": {
  "amount_ordered": "103.36",
  "method": "cashondelivery"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
    "state": "Buenos Aires",
    "country_id": "AR",
    "municipality": "Ciudadela"
  }
},
"shipment_type": "pickup"
}
]
```

#### Sample Response

```
{
```



```
"distributor_code": "DEBOX",
"orders":[
{
    "increment_id": "1000000003",
    "status": "1"
},
{
    "increment_id": "1000000004",
    "status": "1"
},
{
    "increment_id": "1000000005",
    "status": "1"
},
{
    "increment_id": "1000000006",
    "status": "1"
}
]
```

### Data Mapping

Please refer below spreadsheet for field mapping.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## 6.8 Sales Order Status Update

### Description

This Sales Order Status update API is going to be used to update order status for specific order from ERP system to Magento.

Each order status has set of mandatory fields which needs to be passed to magento to successfully update the order status.

The status update request is in real time whenever distributor updates the status for specific order in ERP end.



We are going to manage all Offline Orders also via Order status interface. Below are preconditions for managing offline orders import in magento end.

- ERP will push offline orders to Magento with full order details ( sku, qty, price, total price, etc., ), retailer\_id, order\_source is one of {smartrader}, {PrestaShop}, {Axxum}, {otros} and increment\_id will be empty.

Magento will import the offline orders in below preconditions only.

- Retailer Id should be exist in magento
- Product Sku should be exist in magento
- Product should contains sufficient quantity in magento. Magento will reduce the product qty after imported offline order.
- Magento will share "increment\_id" as response to ERP with entire order details.

**URL:** <http://development-argentina-a6vkxxy-aba4j235kr5wu.us-3.magentosite.cloud/index.php/rest/V1/orders>

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	On Immediate

**Data Value Mapping:**

<b>Attribute</b>	<b>Code - Value</b>
payment[method]	COD - Cash on Delivery CCD - Credit Card on Deliver VWMPD - Virtual Wallet Mercado Pago on Deliver VWMPO - Virtual Wallet Mercado Pago Online CCMPO - Credit card Mercado Pago Online DCMPO - Debit card Mercado Pago
order status	100 - Order Received 101 - Order Edit 102 - Order Ready to Deliver 103 - Order Ready to Pick-up 104 - Order Partially Rejected 105 - Offline Payment Pending 106 - Order Closed



	107 - Order Cancelled
created_at	dd-mm-yyyy hh:mm:ss
cancellation_reason	MOV - Minimum Order Value not reached OOS - Order Out of Stock QUA - Quality issue/Products expired DUM - Order is a test SYS - System Error DUP - Duplicated Order PEN - Insufficient Credit Limit / Pending previous Payment PRI - Price or Discount Divergence PAY - Payment Terms Divergence LTE - Lead time exceeded CLI - Client is inactive or rejected REJ - Deliver rejected by client CAN - Cancelled online by client OTH - Others
order api response status	1 - success 2 - failed
order source	compreahora - Online smartrader - Offline PrestaShop - Offline Axxum - Offline otros - Offline

### Order Received

#### Sample Request (JSON)

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000003",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "1",
    "discount_amount": "0",
    "grand_total": "48.50",
    "subtotal": "43.50",
    "total_item_count": "1",
    "total_due": "48.50",
    "status": "100",
    "items": [{
```



ML",

"name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400

"industry\_name": "Unilever",  
"original\_price": "22.00",  
"price": "22.00",  
"price\_incl\_tax": "26.62",  
"qty\_ordered": "1",  
"discount\_amount": "0",  
"row\_total": "22.00",  
"row\_total\_incl\_tax": "26.62",  
"sku": "7891150062788",  
"row\_weight": "0"

},  
{

"name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200

ML",

"industry\_name": "Unilever",  
"original\_price": "22.00",  
"price": "22.00",  
"price\_incl\_tax": "26.62",  
"qty\_ordered": "1",  
"discount\_amount": "0",  
"row\_total": "22.00",  
"row\_total\_incl\_tax": "26.62",  
"sku": "7891150062789",  
"row\_weight": "0"

}

],

"payment": {

"amount\_ordered": "106.48",  
"method": "COD"

},

"shipping": {

"address": {  
"email": "thamotharan.r @borngroup.com",  
"firstname": "Thamotharan",  
"lastname": "Rathinasababathi",  
"postcode": "B1702DWL",  
"street": "San Martin",  
"street\_number": "600",  
"city": "Tres de Febrero",



```
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
    }
},
"shipment_type": "delivery"
},
{
    "order_source": "compreahora",
    "increment_id": "000000003",
    "retailer_id": "R000123",
    "updated_at": "2019-04-30 06:37:49",
    "total_qty_ordered": "1",
    "discount_amount": "0",
    "grand_total": "48.50",
    "subtotal": "43.50",
    "total_item_count": "1",
    "total_due": "48.50",
    "status": "100",
    "items": [{
        "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
        "industry_name": "Unilever",
        "original_price": "22.00",
        "price": "22.00",
        "price_incl_tax": "26.62",
        "qty_ordered": "1",
        "discount_amount": "0",
        "row_total": "22.00",
        "row_total_incl_tax": "26.62",
        "sku": "7891150062788",
        "row_weight": "0"
    },
    {
        "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
        "industry_name": "Unilever",
        "original_price": "22.00",
        "price": "22.00",
        "price_incl_tax": "26.62",
        "qty_ordered": "1",
```



```
        "discount_amount": "0",
        "row_total": "22.00",
        "row_total_incl_tax": "26.62",
        "sku": "7891150062788",
        "row_weight": "0"
      }
    ],
    "payment": {
      "amount_ordered": "106.48",
      "method": "cashondelivery"
    },
    "shipping": {
      "address": {
        "email": "thamotharan.r @borngroup.com",
        "firstname": "Thamotharan",
        "lastname": "Rathinasababathi",
        "postcode": "B1702DWL",
        "street": "San Martin",
        "street_number": "600",
        "city": "Tres de Febrero",
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
      }
    },
    "shipment_type": "delivery"
  }
]
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders":[
    {
      "increment_id": "000000003",
      "status": "1"
    },
    {
      "increment_id": "000000005",
      "status": "1"
    }
  ]
}
```





```
}  
]  
  
}
```

**Order Edit (SKU 7891150062789 not available)**

**Original Data (JSON )**

```
{  
  "distributor_code": "DB",  
  "orders": [{  
    "order_source": "compreahora",  
    "increment_id": "1000000003",  
    "retailer_id": "R000123",  
    "updated_at": "30-04-2019 06:37:49",  
    "total_qty_ordered": "2",  
    "discount_amount": "0",  
    "grand_total": "48.50",  
    "subtotal": "43.50",  
    "total_item_count": "2",  
    "total_due": "48.50",  
    "status": "100",  
    "items": [{  
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400  
ML",  
      "industry_name": "Unilever",  
      "original_price": "22.00",  
      "price": "22.00",  
      "price_incl_tax": "26.62",  
      "qty_ordered": "1",  
      "discount_amount": "0",  
      "row_total": "22.00",  
      "row_total_incl_tax": "26.62",  
      "sku": "7891150062788",  
      "row_weight": "0"  
    },  
    {  
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200  
ML",  
      "industry_name": "Unilever",  
      "original_price": "22.00",  
      "price": "22.00",
```



```
        "price_incl_tax": "26.62",
        "qty_ordered": "1",
        "discount_amount": "0",
        "row_total": "22.00",
        "row_total_incl_tax": "26.62",
        "sku": "7891150062789",
        "row_weight": "0"
      }
    ],
    "payment": {
      "amount_ordered": "106.48",
      "method": "COD"
    },
    "shipping": {
      "address": {
        "email": "thamotharan.r @borngroup.com",
        "firstname": "Thamotharan",
        "lastname": "Rathinasababathi",
        "postcode": "B1702DWL",
        "street": "San Martin",
        "street_number": "600",
        "city": "Tres de Febrero",
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
      }
    },
    "shipment_type": "pickup",
    "item_change_reason": "",
    "payment_pending_amount": "14.00",
    "cancellation_reason": "REJ",
    "order_delivered_at": "30-04-2019 06:37:49"
  }
}
```

**Updated Order Data (SKU 7891150062789 not available)**

**Sample Request (JSON)**

```
{
```



```
"distributor_code": "DB",
"orders": [{
  "order_source": "compreahora",
  "increment_id": "1000000003",
  "retailer_id": "R000123",
  "updated_at": "30-04-2019 06:37:49",
  "total_qty_ordered": "2",
  "discount_amount": "0",
  "grand_total": "26.62",
  "subtotal": "26.62",
  "total_item_count": "2",
  "total_due": "26.62",
  "status": "101",
  "items": [{
    "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",

    "industry_name": "Unilever",
    "original_price": "22.00",
    "price": "22.00",
    "price_incl_tax": "26.62",
    "qty_ordered": "1",
    "discount_amount": "0",
    "row_total": "22.00",
    "row_total_incl_tax": "26.62",
    "sku": "7891150062788",
    "row_weight": "0"
  }
],
"payment": {
  "amount_ordered": "106.48",
  "method": "COD"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
```



```
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
    }
},
"shipment_type": "pickup",
"item_change_reason": "SKU 7891150062789 Out of Stock"
}
]
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "000000003",
      "status": "1"
    },
    {
      "increment_id": "000000005",
      "status": "1"
    }
  ]
}
```

#### Order Ready to Deliver

#### Sample Request (JSON)

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000003",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "102"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000004",
```



```
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "102"
  }
]
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders":[
    {
      "increment_id": "1000000003",
      "status": "1"
    },
    {
      "increment_id": "1000000004",
      "status": "1"
    }
  ]
}
```

#### **Order Ready to Pick-up**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "103"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000007",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "103"
  }
]
```



```
}  
]  
  
}
```

#### Sample Response (JSON)

```
{  
  "distributor_code": "DB",  
  "orders": [  
    {  
      "increment_id": "1000000006",  
      "status": "1"  
    },  
    {  
      "increment_id": "1000000007",  
      "status": "1"  
    }  
  ]  
}
```

#### Order Partially Rejected

#### Sample Request (JSON)

```
{  
  "distributor_code": "DB",  
  "orders": [{  
    "order_source": "compreahora",  
    "increment_id": "1000000003",  
    "retailer_id": "R000123",  
    "updated_at": "30-04-2019 06:37:49",  
    "total_qty_ordered": "4",  
    "discount_amount": "0",  
    "grand_total": "100.20",  
    "subtotal": "100.20",  
    "total_item_count": "2",  
    "total_due": "100.20",  
    "status": "104",  
    "items": [{  
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400  
ML",  
      "industry_name": "",
```



ML",

rejected remaining Qty"

```
"original_price": "30",
"price": "30",
"price_incl_tax": "30.50",
"qty_ordered": "2",
"discount_amount": "0",
"row_total": "60.00",
"row_total_incl_tax": "60.10",
"sku": "7891150062788",
"row_weight": "0"
},
{
  "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200",

  "industry_name": "",
  "original_price": "20",
  "price": "20",
  "price_incl_tax": "20.50",
  "qty_ordered": "2",
  "discount_amount": "0",
  "row_total": "40",
  "row_total_incl_tax": "40.10",
  "sku": "7891150062789",
  "row_weight": "0"
}
],
"items_changed":{
  "reason":" Only 2 Qty of Stock available for Item [7891150062789] So
rejected remaining Qty"
},
"payment": {
  "amount_ordered": "100.20",
  "method": "COD"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
```



```
        "city": "Tres de Febrero",
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
    },
    "shipment_type": "pickup",
    "payment_pending_amount": "100.20"
}
]
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "000000003",
      "status": "1"
    }
  ]
}
```

#### **Offline Payment Pending**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "105",
    "payment_pending_amount": "125.00"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000007",
```





```
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "105",
    "payment_pending_amount": "78.00"
  }
]
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "1000000006",
      "status": "1"
    },
    {
      "increment_id": "1000000007",
      "status": "1"
    }
  ]
}
```

#### **Order Closed**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "106",
    "order_delivered_at": "05-05-2019 10:30:49"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000007",
    "retailer_id": "R000123",
```



```
"updated_at": "30-04-2019 06:37:49",
"status": "106",
"order_delivered_at": "07-05-2019 10:30:49"
}
]
}
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "10000000006",
      "status": "1"
    },
    {
      "increment_id": "10000000007",
      "status": "1"
    }
  ]
}
```

#### **Order Cancelled**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "10000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "107",
    "cancellation_reason": "Stock not available"
  }
]
}
```

#### **Sample Response (JSON)**

```
{
```



```
"distributor_code": "DB",
"orders": [
  {
    "increment_id": "1000000006",
    "status": "1"
  }
]
```

### Offline Orders Request & Response Structure:

#### Sample Request (JSON)

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "smarttrader",           // Source is offline one
    "increment_id": "",                     // Will be empty in request payload
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "1",
    "discount_amount": "0",
    "grand_total": "48.50",
    "subtotal": "43.50",
    "total_item_count": "1",
    "total_due": "48.50",
    "status": "100",
    "items": [{
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
      "industry_name": "Unilever",
      "original_price": "22.00",
      "price": "22.00",
      "price_incl_tax": "26.62",
      "qty_ordered": "1",
      "discount_amount": "0",
      "row_total": "22.00",
      "row_total_incl_tax": "26.62",
      "sku": "7891150062788",
      "row_weight": "0"
    },
```



ML",

```
{
  "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200

  "industry_name": "Unilever",
  "original_price": "22.00",
  "price": "22.00",
  "price_incl_tax": "26.62",
  "qty_ordered": "1",
  "discount_amount": "0",
  "row_total": "22.00",
  "row_total_incl_tax": "26.62",
  "sku": "7891150062789",
  "row_weight": "0"
},
"payment": {
  "amount_ordered": "106.48",
  "method": "COD"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
    "state": "Buenos Aires",
    "country_id": "AR",
    "municipality": "Ciudadela"
  }
},
"shipment_type": "delivery"
},
{
  "order_source": "compreahora",
  "increment_id": "1000000006",           // Order status update
  "retailer_id": "R000123",
  "updated_at": "30-04-2019 06:37:49",
  "status": "107",
```



```
    "cancellation_reason": "Stock not available"
  }
]
}
```

### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "order_source": "smarttrader", // Source is offline one
      "increment_id": "1000000007", // Will be assigned with magento order id
      "retailer_id": "R000123",
      "updated_at": "30-04-2019 06:37:49",
      "total_qty_ordered": "1",
      "discount_amount": "0",
      "grand_total": "48.50",
      "subtotal": "43.50",
      "total_item_count": "1",
      "total_due": "48.50",
      "status": "100",
      "items": [
        {
          "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
          "industry_name": "Unilever",
          "original_price": "22.00",
          "price": "22.00",
          "price_incl_tax": "26.62",
          "qty_ordered": "1",
          "discount_amount": "0",
          "row_total": "22.00",
          "row_total_incl_tax": "26.62",
          "sku": "7891150062788",
          "row_weight": "0"
        },
        {
          "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200
ML",
          "industry_name": "Unilever",
          "original_price": "22.00",
          "price": "22.00",
```



```
        "price_incl_tax": "26.62",
        "qty_ordered": "1",
        "discount_amount": "0",
        "row_total": "22.00",
        "row_total_incl_tax": "26.62",
        "sku": "7891150062789",
        "row_weight": "0"
    },
    "payment": {
        "amount_ordered": "106.48",
        "method": "COD"
    },
    "shipping": {
        "address": {
            "email": "thamotharan.r @borngroup.com",
            "firstname": "Thamotharan",
            "lastname": "Rathinasababathi",
            "postcode": "B1702DWL",
            "street": "San Martin",
            "street_number": "600",
            "city": "Tres de Febrero",
            "state": "Buenos Aires",
            "country_id": "AR",
            "municipality": "Ciudadela"
        }
    },
    "shipment_type": "delivery"
},
{
    "increment_id": "10000000006",
    "status": "1"
}
]
```

### Data Mapping

Please refer below sheet.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## 6.9 Sales Order Status Update (Magento to ERP)

### Description

This Sales Order Status Update API is to update order status from Magento system to ERP whenever retailer cancel the order from My Orders section OR Distributor manages the order from magento in case of interface failure case.

The retailer can cancel the order in case of order is in “order received” status. The system won't allow them to cancel the order if status is other than order received.

**URL :** Should come from Mulesoft Team

<b>Request Type</b>	POST
<b>Type</b>	REST API
<b>Data Format</b>	JSON
<b>Frequency</b>	Every 15 Mins

### Data Value Mapping

Attribute	Code - Value
payment[method]	COD - Cash on Delivery CCD - Credit Card on Deliver VWMPD - Virtual Wallet Mercado Pago on Deliver VWMPO - Virtual Wallet Mercado Pago Online CCMPO - Credit card Mercado Pago Online DCMPO - Debit card Mercado Pago
order status	100 - Order Received 101 - Order Edit 102 - Order Ready to Deliver 103 - Order Ready to Pick-up 104 - Order Partially Rejected 105 - Offline Payment Pending 106 - Order Closed 107 - Order Cancelled
created_at	dd-mm-yyyy hh:mm:ss



cancellation_reason	MOV - Minimum Order Value not reached OOS - Order Out of Stock QUA - Quality issue/Products expired DUM - Order is a test SYS - System Error DUP - Duplicated Order PEN - Insufficient Credit Limit / Pending previous Payment PRI - Price or Discount Divergence PAY - Payment Terms Divergence LTE - Lead time exceeded CLI - Client is inactive or rejected REJ - Deliver rejected by client CAN - Cancelled online by client OTH - Others
order api response status	1 - success 2 - failed
Order Source	compreahora - Online smarttrader - Offline PrestaShop - Offline Axxum - Offline otros - Offline

The **increment id** field is nothing but **order id in ERP** end.

### Order Received

#### Sample Request (JSON)

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000003",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "1",
    "discount_amount": "0",
    "grand_total": "48.50",
    "subtotal": "43.50",
    "total_item_count": "1",
    "total_due": "48.50",
    "status": "100",
    "items": [{
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
```

ML",





ML",

```
"industry_name": "Unilever",
"original_price": "22.00",
"price": "22.00",
"price_incl_tax": "26.62",
"qty_ordered": "1",
"discount_amount": "0",
"row_total": "22.00",
"row_total_incl_tax": "26.62",
"sku": "7891150062788",
"row_weight": "0"
},
{
"name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200

"industry_name": "Unilever",
"original_price": "22.00",
"price": "22.00",
"price_incl_tax": "26.62",
"qty_ordered": "1",
"discount_amount": "0",
"row_total": "22.00",
"row_total_incl_tax": "26.62",
"sku": "7891150062789",
"row_weight": "0"
}
],
"payment": {
    "amount_ordered": "106.48",
    "method": "COD"
},
"shipping": {
    "address": {
        "email": "thamotharan.r @borngroup.com",
        "firstname": "Thamotharan",
        "lastname": "Rathinasababathi",
        "postcode": "B1702DWL",
        "street": "San Martin",
        "street_number": "600",
        "city": "Tres de Febrero",
        "state": "Buenos Aires",
        "country_id": "AR",
```



```
        "municipality": "Ciudadela"
    },
    "shipment_type": "delivery"
},
{
    "order_source": "compreahora",
    "increment_id": "000000003",
    "retailer_id": "R000123",
    "updated_at": "2019-04-30 06:37:49",
    "total_qty_ordered": "1",
    "discount_amount": "0",
    "grand_total": "48.50",
    "subtotal": "43.50",
    "total_item_count": "1",
    "total_due": "48.50",
    "status": "100",
    "items": [{
        "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
        "industry_name": "Unilever",
        "original_price": "22.00",
        "price": "22.00",
        "price_incl_tax": "26.62",
        "qty_ordered": "1",
        "discount_amount": "0",
        "row_total": "22.00",
        "row_total_incl_tax": "26.62",
        "sku": "7891150062788",
        "row_weight": "0"
    },
    {
        "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
        "industry_name": "Unilever",
        "original_price": "22.00",
        "price": "22.00",
        "price_incl_tax": "26.62",
        "qty_ordered": "1",
        "discount_amount": "0",
        "row_total": "22.00",
```



```
        "row_total_incl_tax": "26.62",
        "sku": "7891150062788",
        "row_weight": "0"
      }
    ],
    "payment": {
      "amount_ordered": "106.48",
      "method": "cashondelivery"
    },
    "shipping": {
      "address": {
        "email": "thamotharan.r @borngroup.com",
        "firstname": "Thamotharan",
        "lastname": "Rathinasababathi",
        "postcode": "B1702DWL",
        "street": "San Martin",
        "street_number": "600",
        "city": "Tres de Febrero",
        "state": "Buenos Aires",
        "country_id": "AR",
        "municipality": "Ciudadela"
      }
    },
    "shipment_type": "delivery"
  }
}
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders":[
    {
      "increment_id": "000000003",
      "status": "1"
    },
    {
      "increment_id": "000000005",
      "status": "1"
    }
  ]
}
```



**Order Edit (SKU 7891150062789 not available)**

**Original Data (JSON )**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000003",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "2",
    "discount_amount": "0",
    "grand_total": "48.50",
    "subtotal": "43.50",
    "total_item_count": "2",
    "total_due": "48.50",
    "status": "100",
    "items": [{
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
      "industry_name": "Unilever",
      "original_price": "22.00",
      "price": "22.00",
      "price_incl_tax": "26.62",
      "qty_ordered": "1",
      "discount_amount": "0",
      "row_total": "22.00",
      "row_total_incl_tax": "26.62",
      "sku": "7891150062788",
      "row_weight": "0"
    },
    {
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200
ML",
      "industry_name": "Unilever",
      "original_price": "22.00",
      "price": "22.00",
      "price_incl_tax": "26.62",
```



```
"qty_ordered": "1",
"discount_amount": "0",
"row_total": "22.00",
"row_total_incl_tax": "26.62",
"sku": "7891150062789",
"row_weight": "0"
},
"payment": {
  "amount_ordered": "106.48",
  "method": "COD"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
    "state": "Buenos Aires",
    "country_id": "AR",
    "municipality": "Ciudadela"
  }
},
"shipment_type": "pickup",
"item_change_reason": "",
"payment_pending_amount": "14.00",
"cancellation_reason": "REJ",
"order_delivered_at": "30-04-2019 06:37:49"
}
]
```

**Updated Order Data (SKU 7891150062789 not available)**

**Sample Request (JSON)**

```
{
  "distributor_code": "DB",
```



```
"orders": [{
  "order_source": "compreahora",
  "increment_id": "1000000003",
  "retailer_id": "R000123",
  "updated_at": "30-04-2019 06:37:49",
  "total_qty_ordered": "2",
  "discount_amount": "0",
  "grand_total": "26.62",
  "subtotal": "26.62",
  "total_item_count": "2",
  "total_due": "26.62",
  "status": "101",
  "items": [{
    "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",

    "industry_name": "Unilever",
    "original_price": "22.00",
    "price": "22.00",
    "price_incl_tax": "26.62",
    "qty_ordered": "1",
    "discount_amount": "0",
    "row_total": "22.00",
    "row_total_incl_tax": "26.62",
    "sku": "7891150062788",
    "row_weight": "0"
  }
],
"payment": {
  "amount_ordered": "106.48",
  "method": "COD"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
    "state": "Buenos Aires",
```



```
        "country_id": "AR",
        "municipality": "Ciudadela"
    }
},
"shipment_type": "pickup",
"item_change_reason": "SKU 7891150062789 Out of Stock"
}
]
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "000000003",
      "status": "1"
    },
    {
      "increment_id": "000000005",
      "status": "1"
    }
  ]
}
```

#### **Order Ready to Deliver**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000003",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "102"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000004",
    "retailer_id": "R000123",
```



```
"updated_at": "30-04-2019 06:37:49",
"status": "102"
}
]
}
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "1000000003",
      "status": "1"
    },
    {
      "increment_id": "1000000004",
      "status": "1"
    }
  ]
}
```

#### **Order Ready to Pick-up**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "103"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000007",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "103"
  }
]
```





### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "1000000006",
      "status": "1"
    },
    {
      "increment_id": "1000000007",
      "status": "1"
    }
  ]
}
```

### Order Partially Rejected

### Sample Request (JSON)

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000003",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "total_qty_ordered": "4",
    "discount_amount": "0",
    "grand_total": "100.20",
    "subtotal": "100.20",
    "total_item_count": "2",
    "total_due": "100.20",
    "status": "104",
    "items": [{
      "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 400
ML",
      "industry_name": "",
      "original_price": "30",
      "price": "30",
```



```
"price_incl_tax": "30.50",
"qty_ordered": "2",
"discount_amount": "0",
"row_total": "60.00",
"row_total_incl_tax": "60.10",
"sku": "7891150062788",
"row_weight": "0"
},
{
  "name": "Shampoo Dove Nutritive Secrets Ritual de Crecimiento 200
ML",
  "industry_name": "",
  "original_price": "20",
  "price": "20",
  "price_incl_tax": "20.50",
  "qty_ordered": "2",
  "discount_amount": "0",
  "row_total": "40",
  "row_total_incl_tax": "40.10",
  "sku": "7891150062789",
  "row_weight": "0"
}
],
"items_changed":{
  "reason":" Only 2 Qty of Stock available for Item [7891150062789] So
rejected remaining Qty"
},
"payment": {
  "amount_ordered": "100.20",
  "method": "COD"
},
"shipping": {
  "address": {
    "email": "thamotharan.r @borngroup.com",
    "firstname": "Thamotharan",
    "lastname": "Rathinasababathi",
    "postcode": "B1702DWL",
    "street": "San Martin",
    "street_number": "600",
    "city": "Tres de Febrero",
    "state": "Buenos Aires",
```



```
        "country_id": "AR",
        "municipality": "Ciudadela"
      }
    },
    "shipment_type": "pickup",
    "payment_pending_amount": "100.20"
  }
]
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "000000003",
      "status": "1"
    }
  ]
}
```

#### **Offline Payment Pending**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "105",
    "payment_pending_amount": "125.00"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000007",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "105",

```



```
        "payment_pending_amount": "78.00"
      }
    ]
  }
}
```

#### **Sample Response (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "1000000006",
      "status": "1"
    },
    {
      "increment_id": "1000000007",
      "status": "1"
    }
  ]
}
```

#### **Order Closed**

#### **Sample Request (JSON)**

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "106",
    "order_delivered_at": "05-05-2019 10:30:49"
  },
  {
    "order_source": "compreahora",
    "increment_id": "1000000007",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "106",
    "order_delivered_at": "07-05-2019 10:30:49"
  }
]
```



#### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "1000000006",
      "status": "1"
    },
    {
      "increment_id": "1000000007",
      "status": "1"
    }
  ]
}
```

#### Order Cancelled

#### Sample Request (JSON)

```
{
  "distributor_code": "DB",
  "orders": [{
    "order_source": "compreahora",
    "increment_id": "1000000006",
    "retailer_id": "R000123",
    "updated_at": "30-04-2019 06:37:49",
    "status": "107",
    "cancellation_reason": "Stock not available"
  }]
}
```

#### Sample Response (JSON)

```
{
  "distributor_code": "DB",
  "orders": [
    {
      "increment_id": "1000000006",
      "status": "1"
    }
  ]
}
```



```
}  
]  
}
```

### Data Mapping

Please refer below sheet.



Magento\_MuleSoft\_Si  
gma ERP\_API Field Ma

## Error Management & Troubleshooting

### Error Management

All API interface will have log file to track all the requests and responses and trigger emails on any data / interface / internet failure scenarios.

#### Order Interface Failure

1. Keep order level flag called "is\_exported"
2. Export all orders via CRON whichever contains "is\_exported = 0"
3. Update orders with "is\_exported=1" in case of successful push
4. Keep "is\_exported = 0" in case of order push failed.
5. Keep additional log file which contains all transactions of Orders API

The log file will be present in the below path at server.

/app/var/log/unileverapis/orderexport.log

6. Send notification mail to UL Admin & Distributors about interface failure

#### Retailer Account Interface Failure

1. Keep account level flag called "is\_exported" with default value of 0
2. Update "is\_exported = 1" whenever account / address got modified and keep the account status as "pending"
3. Setup CRON which picks "is\_exported = 1" account details and push to ERP
4. Update "is\_exported = 0" in case of successful push
5. Keep "is\_exported =1" in case of failure



6. Keep log file to track all transaction details

The log file will be present in the below path at server.

`/app/var/log/unileverapis/retaileraccountexport.log`

7. Send mail to UL Admin & Distributor about interface failure

### **Catalog, Inventory, Price & Order Status Interface**

We are going to keep log file for catalog, inventory, price and order status interface to track all incoming API requests.

`/app/var/log/unileverapis/catalogpush.log`

`/app/var/log/unileverapis/cataloginventory.log`

`/app/var/log/unileverapis/catalogprice.log`

`/app/var/log/unileverapis/orderstatus.log`

In case of any data related failure on catalog, inventory, price and order status updates, system will keep record that issue on log file and mail the details to UL Admin & Distributor also.

### **Trouble Shooting**

We can trouble shoot the issue related to any API interface by using below 2 modes.

1. Verify the Log file
2. Check the Email ( Will contains basic error message with information about the interfaces )

#### **Log file:**

Log files are always more helpful on trouble shooting any issues on PROD env which contains more detailed information about the issues like filename, line number and error message and all.

#### **Email**



Emails will contain specific details of failure on which interface. We can refer the emails also for our troubleshooting purpose.

### **Magento OOTB Logs**

We can further check Magento OOTB log files also which will have standard error messages.

Path: /app/var/log/\*

### **3rd Party Tools**

We can quickly check the interface condition by using some of the below 3<sup>rd</sup> party tools.

- Postman
- SoapUI
- Rest-Assured
- Assertible

### **ERP / Interface down Management**

In case of ERP / Interface is down, catalog related information (catalog mapping, inventory and price) will be worked based on recently updated data. And Orders can be managed in Distributor dashboard itself.

Catalog details will be refreshed once interface is up and running and orders related incremental data (new orders / order status) will be pushed to ERP.

Anything related to retailer accounts needs to be in pending status unless & until interface is up and running.





## Section 2 : Sigma Magento Solution Design Document

### 1. Project Summary

There are multiple Distributor using Sigma ERP systems (Can have different configuration) need integration with Magento application which will be used by the Retailors for placing orders. Retailors will be associated with the Distributors after the Retailor registration process is complete. Catalog, Price and Inventory will flow from Sigma ERP to Magento. Retailor will use the Magento portal to place orders which will then flows to Sigma ERP for fulfillment.

#### 1.1 Objectives

The purpose of this document is to outline the architecture and features of the integration between Sigma ERP and Magento. Mule Soft being the Integration platform between these systems. The aim of the project is to provide seamless integration between all the systems mentioned and develop & deploy reusable integration solutions.

The objective is to build the following interfaces.

- 1) Send Catalog details from Sigma ERP to Magento System.
- 2) Send Inventory details from Sigma ERP to Magento System
- 3) Send Price details from Sigma ERP to Magento System
- 4) Send Order details from Magento to Sigma ERP System
- 5) Send Order Status from Sigma ERP to Magento
- 6) Send Retailer Registration Request from Magento to Sigma ERP System
- 7) Send Retailer Registration Response from Sigma ERP to Magento
- 8) Order Status(Cancel) Request from Magento to Sigma ERP System

#### 1.2 Scope

The integration scope for the project consist of **6** APIs/Interfaces which covers



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Cloud to Cloud patterns.

Region	Adaptive MIR ID	Reference/Reused Adaptive MIR ID	API/Interface Name	API Enabled	Source Application	Source Format	Source Protocol	Target Application	Target Format	Target Protocol
Global		N/A	Catalog Details	Yes	SIGMA	JSON	HTTP S	MAGENTO	JSON	HTTP S
Global		N/A	Catalog Acknowledgment	Yes	MAGENTO	JSON	HTTP S	SIGMA	JSON	HTTP S
Global		N/A	Inventory Details	Yes	SIGMA	JSON	HTTP S	MAGENTO	JSON	HTTP S
Global		N/A	Inventory Acknowledgment	Yes	MAGENTO	JSON	HTTP S	SIGMA	JSON	HTTP S
Global		N/A	Price Details	Yes	SIGMA	JSON	HTTP S	MAGENTO	JSON	HTTP S
Global		N/A	Price Acknowledgment	Yes	MAGENTO	JSON	HTTP S	SIGMA	JSON	HTTP S
Global		N/A	Sales Order Creation	Yes	MAGENTO	JSON	HTTPS	SIGMA	JSON	HTTPS
Global		N/A	Sales Order Creation Status	Yes	SIGMA	JSON	HTTPS	MAGENTO	JSON	HTTPS
Global		N/A	Sales Order Status	Yes	SIGMA	JSON	HTTPS	MAGENTO	JSON	HTTPS
Global		N/A	Sales Order Status Acknowledgment	Yes	MAGENTO	JSON	HTTP S	SIGMA	JSON	HTTP S
Global		N/A	Sales Order Cancel	Yes	MAGENTO	JSON	HTTPS	SIGMA	JSON	HTTPS



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Global		N/A	Sales Order Cancel Status	Yes	SIGMA	JSON	HTTPS	MAGENTO	JSON	HTTPS
Global		N/A	Retailer Registration	Yes	MAGENTO	JSON	HTTPS	SIGMA	JSON	HTTPS
Global		N/A	Retailer Registration Acknowledgement	Yes	SIGMA	JSON	HTTPS	MAGENTO	JSON	HTTPS
Global		N/A	Retailer Registration Status	Yes	SIGMA	JSON	HTTPS	MAGENTO	JSON	HTTPS
Global		N/A	Retailer Registration Status Acknowledgement	Yes	MAGENTO	JSON	HTTPS	SIGMA	JSON	HTTPS

### 1.3 Project Dependencies

1. External Systems (Sigma ERP and Magento) should be up and running.
2. Any point MQ (AMQ) is used in the Cloud Hub application for reliability messaging, AMQ should be up and available

.

### 1.4 Partner Modelling

The figure below shows the partners involved in this project along with the scope for them. [<link to template>](#)

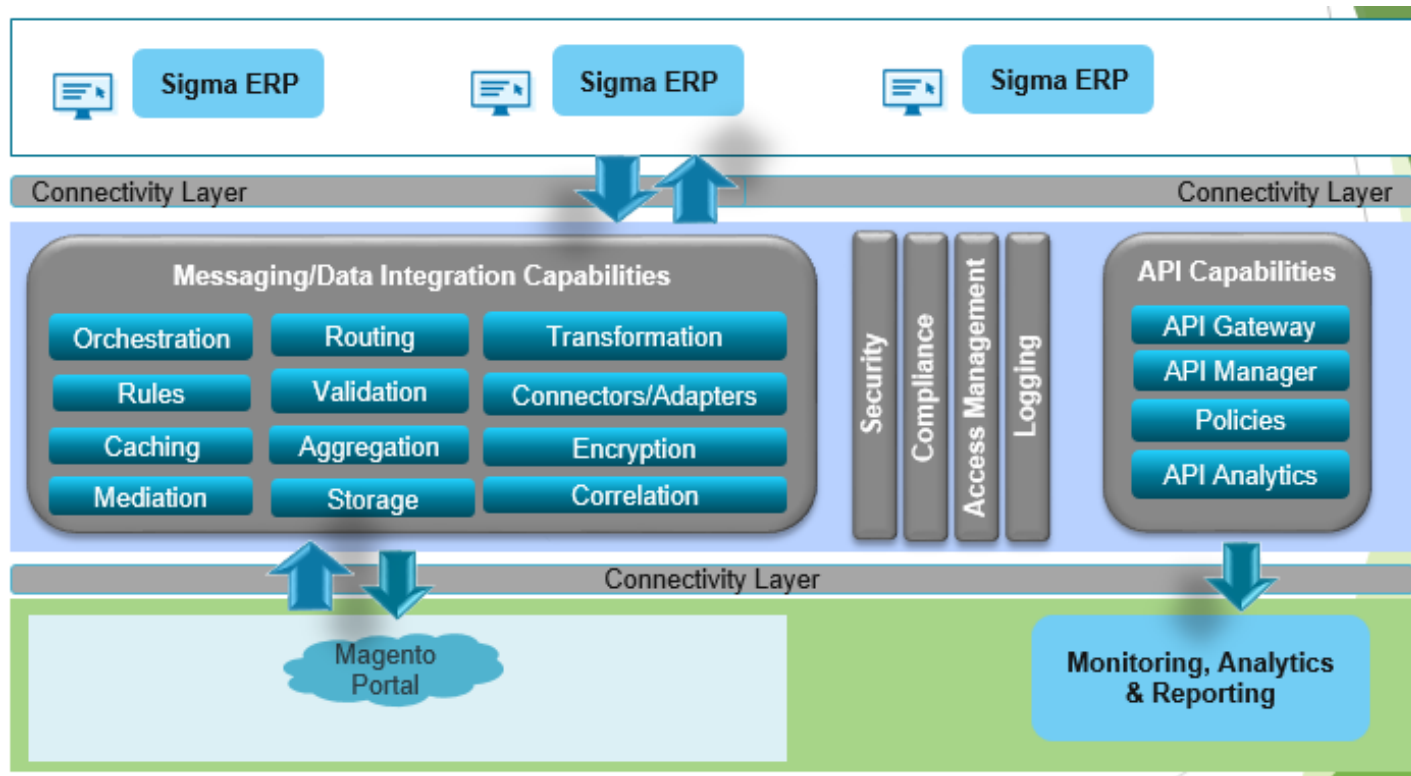
**Example:** In the API/Interface pattern *Sirius ECC > Mule ESB > CloudHub > Factory IT*, the AD partners/teams involved are Accenture (example), Infosys (example), Unilever (for inhouse team), Siemens (example) respectively.

Note: It is recommended that editable versions of the diagrams are included for future purposes.



## 2. Solution Overview

### 2.1 Application Interaction Model



The following master data is flown from Sigma ERP to Magento through Mule Soft in JSON format.

- 1) Catalog
- 2) Inventory
- 3) Price



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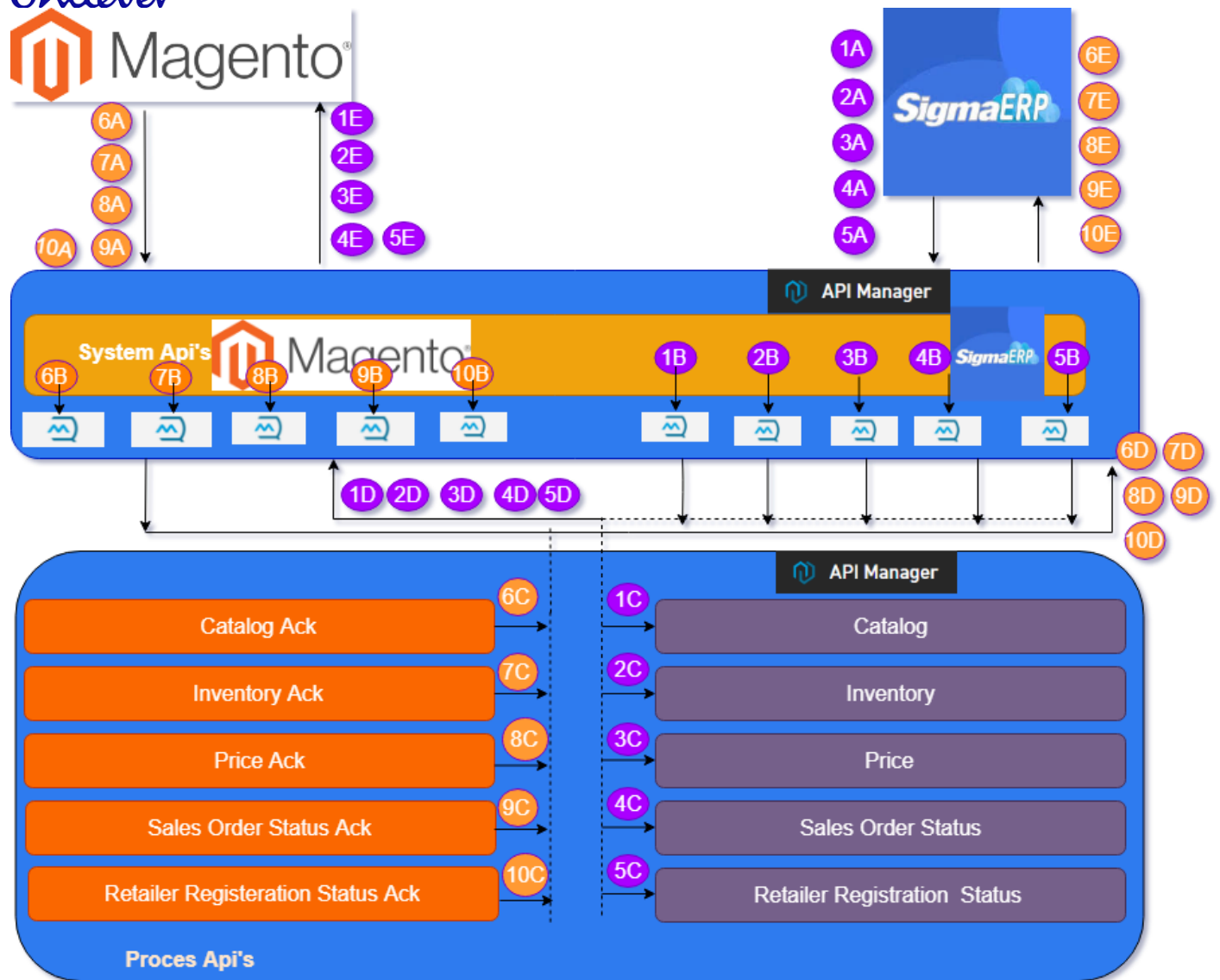
Retailer registration is done in Magento portal and request is sent to Sigma ERP for approval through Mulesoft. After approval Sigma ERP will send the Registration status back to Magento through Mulesoft.

Order Creation (Retailer) is flown from Magento portal to Sigma ERP system. And Order Status is sent back from Sigma ERP system to Magento portal through Mulesoft.

Order Cancel request is flown from Magento portal to Sigma ERP system through Mulesoft.

## 2.2 Logical Interaction Model

A diagram showing all the expected API/Interface flows that will be developed as part of the project. All the APIs/Interfaces are expected to use Mulesoft Cloudhub.

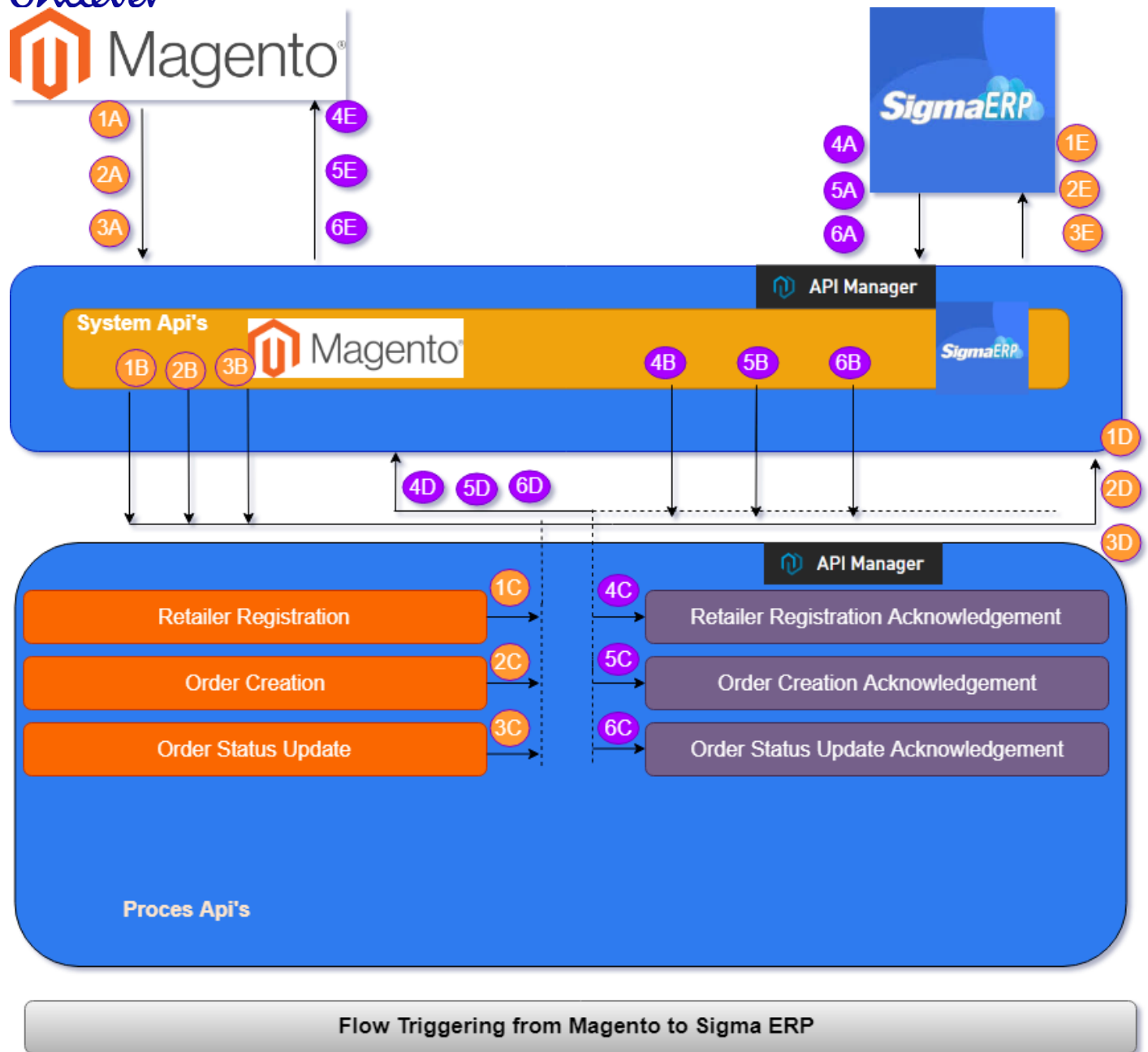


Flow Triggering from Sigma ERP to Magento



## Flow mapping from Sigma ERP to Magento and Acknowledgement from Magento to Sigma ERP

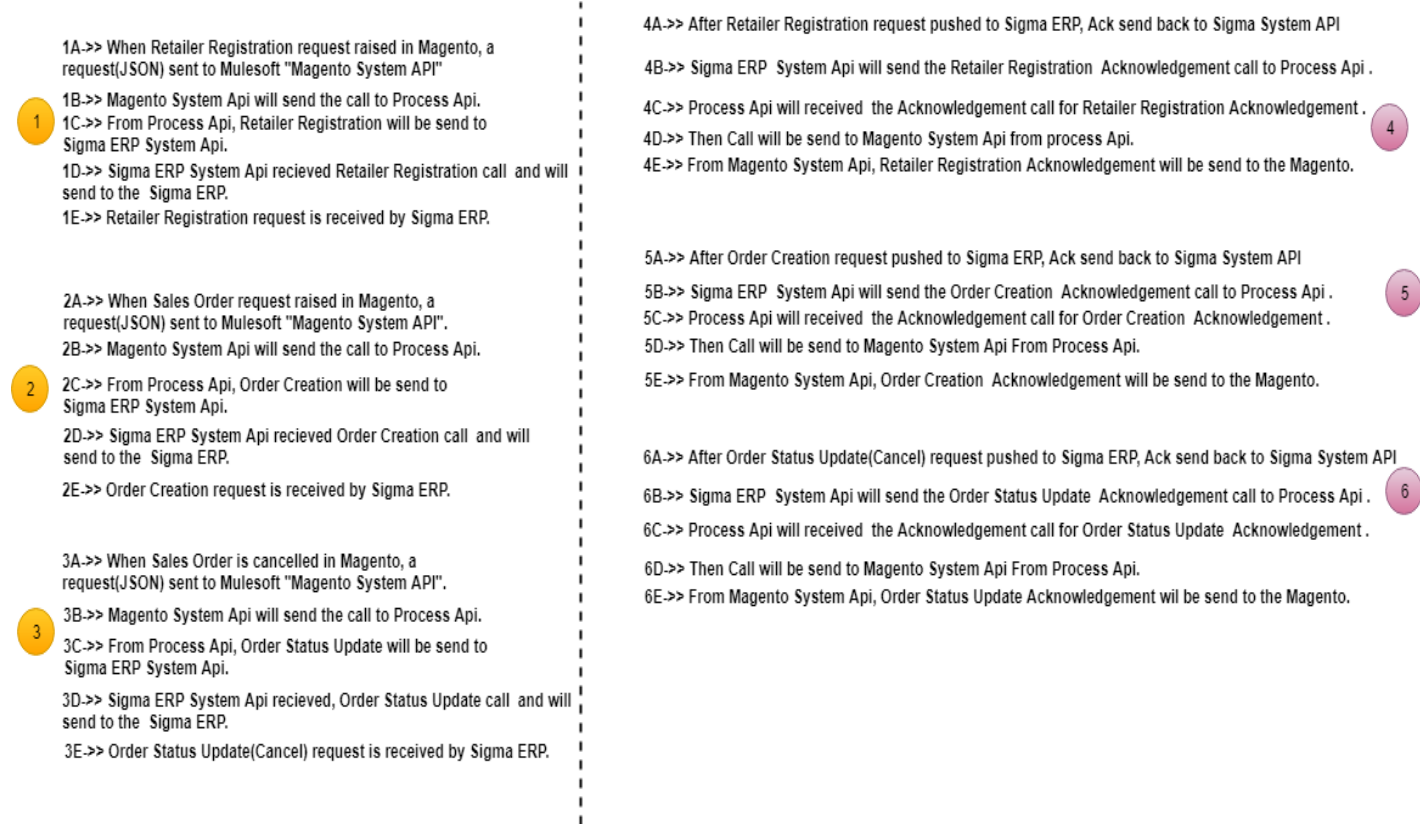
<p>1A-&gt;&gt; When Distributor update Catalog details in Sigma ERP, a request(JSON) sent to Mulesoft "Sigma System API"</p> <p>1B-&gt;&gt; Sigma System Api will push Catalog to AMQ.</p> <p>1C-&gt;&gt; Catalog will be received by the process Api from AMQ.</p> <p>1D-&gt;&gt; Catalog will be send from Process Api to Magento System Api.</p> <p>1E-&gt;&gt; From Magento System Api Catalog will be pushed to Magento System.</p>	<p>6A-&gt;&gt; After Catalog Detail pushed to Magento, Ack send back to Magento System API</p> <p>6B-&gt;&gt; Magento System Api will push Catalog Acknowledgement to AMQ.</p> <p>6C-&gt;&gt; Catalog Acknowledgement call will be received by process Api.</p> <p>6D-&gt;&gt; Catalog Acknowledgement will be send to Sigma ERP System Api from process Api.</p> <p>6E-&gt;&gt; Catalog Acknowledgement will be send to Sigma ERP from Sigma ERP System Api.</p>
<p>2A-&gt;&gt; When Distributor update Inventory details in Sigma ERP, a request(JSON) sent to Mulesoft "Sigma System API"</p> <p>2B-&gt;&gt; Sigma System Api will push Inventory to AMQ.</p> <p>2C-&gt;&gt; Inventory will be received by the process Api from AMQ.</p> <p>2D-&gt;&gt; Inventory will be send from Process Api to Magento System Api.</p> <p>1E-&gt;&gt; From Magento System Api Inventory will be pushed to Magento System.</p>	<p>7A-&gt;&gt; After Inventory Detail pushed to Magento, Ack send back to Magento System API</p> <p>7B-&gt;&gt; Magento System Api will push Inventory Acknowledgement to AMQ.</p> <p>7C-&gt;&gt; Inventory Acknowledgement call will be received by process Api.</p> <p>7D-&gt;&gt; Inventory Acknowledgement will be send to Sigma ERP System Api from process Api.</p> <p>7E-&gt;&gt; Inventory Acknowledgement will be send to Sigma ERP from Sigma ERP System Api.</p>
<p>3A-&gt;&gt; When Distributor update Price details in Sigma ERP, a request(JSON) sent to Mulesoft "Sigma System API"</p> <p>3B-&gt;&gt; Sigma System Api will push Price to AMQ.</p> <p>3C-&gt;&gt; Price will be received by the process Api from AMQ.</p> <p>3D-&gt;&gt; Price will be send from Process Api to Magento System Api.</p> <p>3E-&gt;&gt; From Magento System Api, Price will be pushed to Magento System.</p>	<p>8A-&gt;&gt; After Price Detail pushed to Magento, Ack send back to Magento System API</p> <p>8B-&gt;&gt; Magento System Api will push Price Acknowledgement to AMQ.</p> <p>8C-&gt;&gt; Price Acknowledgement call will be received by process Api.</p> <p>8D-&gt;&gt; Price Acknowledgement will be send to Sigma ERP System Api from process Api.</p> <p>8E-&gt;&gt; Price Acknowledgement will be send to Sigma ERP from Sigma ERP System Api.</p>
<p>4A-&gt;&gt; When Sales Order status details updated in Sigma ERP, a request(JSON) sent to Mulesoft "Sigma System API"</p> <p>4B-&gt;&gt; Sigma System Api will push Sales Order Status to AMQ.</p> <p>4C-&gt;&gt; Sales Order Status will be received by the process Api from AMQ.</p> <p>4D-&gt;&gt; Sales Order Status will be send from Process Api to Magento System Api.</p> <p>4E-&gt;&gt; From Magento System Api, Sales Order Status will be pushed to Magento System.</p>	<p>9A-&gt;&gt; After Sales Order Status pushed to Magento, Ack send back to Magento System API</p> <p>9B-&gt;&gt; Magento System Api will push Sales Order Status Acknowledgement to AMQ.</p> <p>9C-&gt;&gt; Sales Order Status Acknowledgement call will be received by process Api.</p> <p>9D-&gt;&gt; Sales Order Status Acknowledgement will be send to Sigma ERP System Api from process Api.</p> <p>9E-&gt;&gt; Sales Order Status Acknowledgement will be send to Sigma ERP from Sigma ERP System Api.</p>
<p>5A-&gt;&gt; When Retailer Registration status details updated in Sigma ERP, a request(JSON) sent to Mulesoft "Sigma System API"</p> <p>5B-&gt;&gt; Sigma System Api will push Retailer Registration Status to AMQ.</p> <p>5C-&gt;&gt; Retailer Registration Status will be received by the process Api from AMQ.</p> <p>5D-&gt;&gt; Retailer Registration Status will be send from Process Api to Magento System Api.</p> <p>5E-&gt;&gt; From Magento System Api, Retailer Registration Status will be pushed to Magento System.</p>	<p>10A-&gt;&gt; After Retailer Registration Status pushed to Magento, Ack send back to Magento System API</p> <p>10B-&gt;&gt; Magento System Api will push Retailer Registration Status Acknowledgement to AMQ.</p> <p>10C-&gt;&gt; Retailer Registration Status Acknowledgement call will be received by process Api.</p> <p>10D-&gt;&gt; Retailer Registration Status Acknowledgement will be send to Sigma ERP System Api from process Api.</p> <p>10E-&gt;&gt; Retailer Registration Status Acknowledgement will be send to Sigma ERP from Sigma ERP System Api.</p>







## Flow mapping from Magento to Sigma ERP and Acknowledgement from Sigma ERP to Magento



## 2.3 Physical Interaction

The list below shows all the interfaces in scope for the project

API/Interface Name	Business Trigger	Caching Req?	On-Prem Connectivity?	Data Classification	Business Criticality	SLA	Processing Complexity
Catalog Details	Real time	No	No	Internal	Medium		High
Catalog Ack	Real time	No	No	Internal	Medium		High
Inventory Details	Real time	No	No	Internal	Medium		High
Inventory Ack	Real time	No	No	Internal	Medium		High



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Price Details	Real time	No	No	Internal	Medium		High
Price Ack	Real time	No	No	Internal	Medium		High
Order Creation	Real time	No	No	Internal	Medium		High
Order Ack	Real time	No	No	Internal	Medium		High
Order Status	Real time	No	No	Internal	Medium		High
Order Status Ack	Real time	No	No	Internal	Medium		High
Order Cancel	Real time	No	No	Internal	Medium		High
Order Cancel Ack	Real time	No	No	Internal	Medium		High
Retailer Registration	Real time	No	No	Internal	Medium		High
Retailer Registration Ack	Real time	No	No	Internal	Medium		High
Retailer Registration Status	Real time	No	No	Internal	Medium		High
Retailer Registration Status Ack	Real time	No	No	Internal	Medium		High

## 2.4 Volumetrics

API/Interface Name	Average Doc per day	Max Doc per day	Average Doc per hour	Max Doc per hour	Max Doc per min	Avg doc Size (MB)	Max doc Size (MB)	Application calls per Transaction	1-year growth (%)	Seasonality	Working Days	Working Hours
--------------------	---------------------	-----------------	----------------------	------------------	-----------------	-------------------	-------------------	-----------------------------------	-------------------	-------------	--------------	---------------



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e.g. Advanced Shipping Notificati on	1	5	1	1	1	1	5	1	50	No	7	24

## 2.5 Key Discussions and Decisions

<The following table captures the key discussions/decisions taken during the solution design phase.>

Topic	Description	Outcome	Status	Reference
Title of the Discussion	Full Description of the challenge / discussion points	Outcome of the topic?	Open/ Closed	Supporting email/presentation

## 2.6 Security and Access Controls

Standard. Please refer the "AI Standard Security and Access Controls" page.

Note - This section should be updated to capture the non-standard specifications

## 2.7 Monitoring and Alerting

Standard. Please refer the "AI Standard Monitoring and Alerting" page.

Note - This section should be updated to capture the non-standard specifications

## 2.8 Additional Information

This section should be updated to capture information like glossary of key terms, any specific requirements/scenarios involved in the solution etc.,



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Examples: Large concurrent transaction requirements, Batch processing, Key performance considerations, References etc.,

UAT and Code review Signoff:

MUnits Report:

Lint Reports:

### 3. Attachments