**Order Management System**

**for**

**Macys dot CN project**

**Integration Specification – Delivery Status Update**

|  |  |
| --- | --- |
| Current version: | 0.3 |
| Date last updated: | 19th Mar, 2017 |
| Last updated by: | Johnny Ku |
| Author: | Johnny Ku |
| Date created: | 20th Dec, 2016 |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| ***Version no.*** | ***Date updated*** | ***Revision author*** | ***Summary of major changes made*** |
| *0.1* | *24th Jan 17* | *Johnny Ku* | *Updated data schema to move status and codes from header to shipment level* |
| *0.2* | *23rd Feb 17* | *Johnny Ku* | *Revised ‘RefChannel’ to ‘SellingChannel’. Updates on the authentication methodology.* |
| *0.3* | *19th Mar 17* | *Johnny Ku* | *Updated endpoints and parameters for UAT* |
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# Introduction

# Integration mechanism

## Method

POST.

## Request format

JSON.

## Response format

JSON.

## Authentication

|  |  |
| --- | --- |
| **Authentication type** | OAuth 2.0 |
| **Authentication flow** | Client credentials |
| **Client identification** | d54db1bd-f884-4440-940e-9e48cfe27a7a |
| **Client secret** | +fS3Y3t0k54VG+wjeefQnD6cUa+j2IBBVNdGaqzEgY8= |
| **Resource** | <https://mclaxdev2devaos.sandbox.ax.dynamics.com> |

## Authentication methodology

The OAuth 2.0 access token can be obtained by sending a HTTP POST request to the following endpoint with the parameters as below:

|  |  |
| --- | --- |
| **Access token endpoint** | <https://login.windows.net/macysinc.onmicrosoft.com/oauth2/token> |

|  |  |  |
| --- | --- | --- |
| **Parameters** | | **Value** |
| grant\_type | | client\_credentials |
| client\_id | | d54db1bd-f884-4440-940e-9e48cfe27a7a |
| client\_secret | | +fS3Y3t0k54VG+wjeefQnD6cUa+j2IBBVNdGaqzEgY8= |
| resource | DEV | <https://mclaxdev2devaos.sandbox.ax.dynamics.com> |
|  | SIT | <https://mclaxdev2devaos.sandbox.ax.dynamics.com> |
|  | UAT | <https://mclaxdevaos.sandbox.ax.dynamics.com> |

The access token shall be used in the header to make the HTTP POST request to AX7.

## Service endpoints

|  |  |
| --- | --- |
| **Environment** | **Endpoint** |
| DEV | [<https://mclaxdev2devaos.sandbox.ax.dynamics.com>/api/services/MCL\_InboundServiceGroup/MCL\_InboundInterfaceServices/pushDlvStatus](https://mclaxdevaos.sandbox.ax.dynamics.com/api/services/MCL_InboundServiceGroup/MCL_InboundInterfaceServices/pushDlvStatus) |
| SIT | <https://mclaxdev2devaos.sandbox.ax.dynamics.com>/api/services/MCL\_InboundServiceGroup/MCL\_InboundInterfaceServices/pushDlvStatus |
| UAT | <https://mclaxdevaos.sandbox.ax.dynamics.com/api/services/MCL_InboundServiceGroup/MCL_InboundInterfaceServices/pushDlvStatus> |
| PRD |  |

# Integration parameters

## Input parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Description** | **Type** | **Mandatory** | **Sample** |
| sellingChannel | Selling channel | str(10) | Y | MCL |
| purchId | Purchase order number in MCL | str(20) | Y |  |
| clientId | Sales channel ID | str(10) | Y | MCL |
| subClientId | Sales channel sub-ID | str(10) | Y | TMALL |
| refPurchId | Purchase order number in RedFrog | str(20) | Y |  |
| shipmentList | List of shipments |  | Y |  |

“shipmentList”:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Description** | **Type** | **Mandatory** | **Sample** |
| shipmentId | Shipment ID | str(20) | Y |  |
| marketPartnerId | Market partner ID | str(20) | Y |  |
| totalParcel | Total number of parcels | int | Y |  |
| dlvStatus | Updated delivery status | str(20) | Y |  |
| reasonCode | Exception reason code | str(20) | N |  |
| reason | Exception message | str(200) | N |  |
| lineItemList | List of line items |  | Y |  |

“lineItemList”:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Description** | **Type** | **Mandatory** | **Sample** |
| upc | UPC code | str(30) | Y |  |
| lineNum | Line number | real | Y |  |
| trackingNo | Tracking number | str(30) | Y |  |
| reqQty | Quantity requested | real | N |  |
| availQty | Quantity available | real | N |  |
| dlvStatus | Updated line status | str(20) | N |  |
| reasonCode | Exception line reason code | str(20) | N |  |
| reason | Exception line message | str(200) | N |  |

## Output parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Description** | **Type** | **Mandatory** | **Sample** |
| status | Status (‘Success’ for message received, ‘Fail’ for exceptions) | str(10) | Y |  |
| createdDateTime | Time for the message received | dateTime | Y |  |
| message | Exception message | str(200) | N |  |
| errors | List of errors |  | N |  |

“errors”:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Description** | **Type** | **Mandatory** | **Sample** |
| key | Unique key to identify the origin of error | str(30) | Y |  |
| errorMessage | Exception message | str(200) | Y |  |

# Code definitions

Reference **mapping document**: 

## Shipment status

|  |  |
| --- | --- |
| **Code** | **Definition** |
| SHPSCF | Shipment confirmation |
| SHPCAN | Shipment cancellation |
| ORDCANUNCNFMD | Order cancel unconfirmed |
| LNITMCAN | Line Item cancellation |

## Shipment line status

|  |  |
| --- | --- |
| **Code** | **Definition/Description** |
| 1 | NEW |
| 2 | QUOTED |
| 3 | CONFIRMED |
| 4 | PENDING |
| 5 | INPROC |
| 6 | PRINTED |
| 7 | SHIPPED |
| 8 | VOID |

**Note**: Mostly VendorHUB will either 3=CONFIRMED OR 8=VOID receive from EOS/Main. VendorHUB will send actual Description value to MCL like VOID or CONFIRMED.

## Shipment line reasons

|  |  |
| --- | --- |
| **Code** | **Definition** |
| NOT IN LOCATION |  |
| NO AVAILABILITY |  |

**This is the Code to indicate why line item was cancelled.  It's free form text and we don't have any pre-defined enumeration values for it.**

Mapping: fulfillmentOrder/lineItemList/lineItem/lineItemType/cancelReasonCode = Code to indicate why line item was cancelled

# Sample request

**SHPSCF Sample**

{

"\_AxdDlvStatusHeader":{

"clientId":"MCL",

"purchId":"PO12345678",

"refChannel":1,

"refPurchId":"1234567890",

"shipmentList":[

{

"dlvStatus":"SHPSCF",

"lineItemList":[

{

"availQty":1,

"dlvStatus":"CONFIRMD",

"lineNum":1,

"reason":null,

"reasonCode":null,

"reqQty":1,

"trackingNo":"543211111",

"upc":"111"

}

],

"marketPartnerId":"TMALL",

"reason":null,

"reasonCode":null,

"shipmentId":"12345",

"totalParcel":1

}

],

"subClientId":"TMALL"

}

}

---------------------------------------------------------------------------------------------------------------------------

**SHPCAN sample**

{

"\_AxdDlvStatusHeader":{

"clientId":"MCL",

"purchId":"PO12345678",

"refChannel":1,

"refPurchId":"1234567890",

"shipmentList":[

{

"dlvStatus":"SHPCAN",

"lineItemList":[

{

"availQty":1,

"dlvStatus":"VOID",

"lineNum":1,

"reason":"VOID",

"reasonCode":"ITEM DAMANGED",

"reqQty":1,

"trackingNo":"543211111",

"upc":"111"

}

],

"marketPartnerId":"TMALL",

"reason":"SHPCAN",

"reasonCode":"DAMANGED",

"shipmentId":"12345",

"totalParcel":1

}

],

"subClientId":"TMALL"

}

}

---------------------------------------------------------------------------------------------------------------------------

**LNITMCAN sample**

{

"\_AxdDlvStatusHeader":{

"clientId":"MCL",

"purchId":"PO12345678",

"refChannel":1,

"refPurchId":"1234567890",

"shipmentList":[

{

"dlvStatus":"LNITMCAN",

"lineItemList":[

{

"availQty":0,

"dlvStatus":"VOID",

"lineNum":1,

"reason":"VOID",

"reasonCode":"ITEM1\_DAMAGED",

"reqQty":3,

"trackingNo":"543211111",

"upc":"111"

},

{

"availQty":0,

"dlvStatus":"VOID",

"lineNum":2,

"reason":"VOID",

"reasonCode":"ITEM2\_DAMAGED",

"reqQty":3,

"trackingNo":"543212222",

"upc":"222"

},

{

"availQty":0,

"dlvStatus":"VOID",

"lineNum":3,

"reason":"VOID",

"reasonCode":"ITEM3\_DAMAGED",

"reqQty":3,

"trackingNo":"54321333",

"upc":"333"

}

],

"marketPartnerId":"TMALL",

"reason":"LNITMCAN",

"reasonCode":"SHPDAMANGED",

"shipmentId":"12345",

"totalParcel":2

}

],

"subClientId":"TMALL"

}

}

---------------------------------------------------------------------------------------------------------------------------

**ORDCANUNCNFMD sample**

{

"\_AxdDlvStatusHeader":{

"clientId":"MCL",

"purchId":"PO12345678",

"refChannel":1,

"refPurchId":"1234567890",

"shipmentList":[

{

"dlvStatus":"ORDCANUNCNFMD",

"lineItemList":[

{

"availQty":0,

"dlvStatus":"QUOTED",

"lineNum":1,

"reason":"QUOTED",

"reasonCode":"ITEM1\_QUOTED",

"reqQty":3,

"trackingNo":"543211111",

"upc":"111"

},

{

"availQty":0,

"dlvStatus":"PENDING",

"lineNum":2,

"reason":"PENDING",

"reasonCode":"ITEM2\_PENDING",

"reqQty":3,

"trackingNo":"543212222",

"upc":"222"

},

{

"availQty":0,

"dlvStatus":"INPROC",

"lineNum":3,

"reason":"INPROC",

"reasonCode":"ITEM3\_INPROC",

"reqQty":3,

"trackingNo":"54321333",

"upc":"333"

}

],

"marketPartnerId":"TMALL",

"reason":"ORDCANUNCNFMD",

"reasonCode":"CANRESCD\_ORDCANUNCNFMD",

"shipmentId":"12345",

"totalParcel":2

}

],

"subClientId":"TMALL"

}

}

OLD Sample in doc

|  |
| --- |
| {  "\_AxdDlvStatusHeader": {  "refChannel": 1,  "purchId": "MCLPO1029301",  "clientId": "TMALL",  "subClientId": "TMALL",  "refPurchId": "MSTPO291380",  "shipmentList": [{  "shipmentId": "MSTSHIP01",  "marketPartnerId": "MCL",  "totalParcel": 1,  "dlvStatus": "FAIL",  "reasonCode": "500",  "reason": "Insufficient inventory",  "lineItemList": [{  "lineNum": 1,  "upc": "9381928380976",  "trackingNo": "21931283810102930",  "reqQty": 10,  "availQty": 5,  "dlvStatus": "FAIL",  "reasonCode": "500",  "reason": "Insufficient inventory"  }]  }]  }  } |