

TRUE VALUE – WAREHOUSE API INTEGRATION

06 April 2022

True Value AX - WMS API Integration

Project Manager	Rajasekar	Document Version	1.3
Technical Architect	Murugavel	Document Date	06.04.2022
Solution Consultant		Prepared on	06.04.2022
Prepared by	Rajasekar	Reviewed by	Domnic Regies

Version Information

Ver No	Ver Date	Revised by	Description/File Name
1.0	04.03.2022	Rajasekar	TV- WMS API Integration Document
1.1	08.03.2022	Rajasekar	Updated with End point ports
1.2	14.03.2022	Rajasekar	Date format in the all endpoints has been changed to MM-DD-YYYY Line reference data type is updated as Integer
1.3	06.04.2022	Rajasekar	Updated Json structure of All APIS and API field name

Contents

1. Introduction.....	4
1.1 Functions.....	4
2. Integration Approach.....	5
3. Advanced Shipping Notification	7
4. Store Return Order	9
5. Inter Warehouse Transfer In.....	11
6. Shipment Order	13
7. Sales Order.....	15
8. Return Purchase Order	17
9. Inter Warehouse Transfer Out	19
10. Sale Return Order	21

1. Introduction

This document covers the usage and Warehouse integration details of the API provided.

1.1 Functions

Warehouse integration API includes multiple endpoints for the following functions

1. Advanced Shipping Notifications -Warehouse Inbound
2. Store Returns – Warehouse Inbound.
3. Inter warehouse transfer In – Warehouse Inbound
4. Shipment Order – Warehouse Outbound
5. Sale Order – Warehouse Outbound
6. Inter warehouse transfer Out – Warehouse Outbound
7. Return Purchase Order – Warehouse Outbound
8. Sale Order Return – Warehouse Inbound

2. Integration Approach

STEP 1: GENERATE OAUTH TOKEN

Purpose: This API helps to generate the OAuth Access token using which the subsequent API requests can be processed.

Endpoint: [POST] /auth-token

Request URL: <http://27.7.57.232:18080/classicwms/auth-token>

Request JSON:

```
{
  "clientId": "pixeltrice",
  "clientSecretKey": "pixeltrice-secret-key",
  "grantType": "password",
  "oauthPassword": "wms",
  "oauthUserName": "wms",
  "apiName": "wms-transaction-service"
}
```

Sample Response JSON:

```
{
  "access_token":
    "eyJhbGciOiJIUzI1NiJ9.eyJleHAiOiE2NDYzMzIzMzgsInVzZXJfbmFtZSI6ImdtcyIsImF1dGhvcml0aWVzIjpbImJPTEVfU1ITVEVNQURNSU4iXSwianRpIjoilVB3Y0thSmpWeGpzVGFnZmdlSjBXVEhMbndRliwiY2xpZW50X2lkIjoicGl4ZWx0cmliZSIslInNjb3BlIjpbImJlYWQiLCJ3cmI0ZSdJdfQ.ke0452MM70DDQeVqBRveqq4YQY_oBgEy0GWDcg073Kg",
  "token_type": "bearer",
  "refresh_token":
    "eyJhbGciOiJIUzI1NiJ9.eyJ1c2VyX25hbWUiOiJ3bXMiLCJzY29wZSI6WyJyZWFKliwid3JpdGUlXSwiYXRpljoiLVB3Y0thSmpWeGpzVGFnZmdlSjBXVEhMbndRliwiZXhwIjojNjQ2MzMyMzI0LCJhdXRob3JpdGllcyI6WyJST0xFOX1NZU1RFTUFETUI0Ii0sImp0aSI6Imp2SUd5Y21BeTJYdWVWMWUfFaZFhRdVFzVmlTTSlmNsaWVudF9pZCI6ImBpeGVsdHJpY2UifQ.1hRjiZ766XYTARWlaL0qtnsx5JHHzjqCNEqUMPFUwE",
  "expires_in": "19999",
  "scope": "read write",
  "jti": "-PwcKaJjVxjsTaMfgbJ0WTHLnwQ"
}
```

Pass this `Access_token` while calling the ClassicWMS APIs like below.

Step 2: API Call Request

- Generate the Auth Token as per above the steps and pass the token in the Request Header.

List of APIs

- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/inbound/asn>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/inbound/interWarehouseTransfer>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/inbound/storeReturn>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/outbound/interWarehouseTransfer>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/outbound/returnPO>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/outbound/salesOrder>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/outbound/so>
- <http://27.7.57.232:18081/classicwms/api-dev/wms-transaction-service/warehouse/inbound/soReturn>

3. Advanced Shipping Notification

Endpoint Name:	/warehouse/inbound/asn
Method	POST

Request Body

```
{
  "asnHeader": {
    "asnNumber": "ASN000016",
    "wareHouseld": "110"
  },
  "asnLine": [
    {
      "containerNumber": "CNT0004",
      "expectedDate": "04-29-2022",
      "expectedQty": 500,
      "invoiceNumber": "1234",
      "lineReference": 45001,
      "manufacturerName": "Prestige",
      "manufacturerPartNo": "KTX5000-B1",
      "packQty": 10,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "supplierCode": "11431",
      "supplierPartNumber": "KTX5000-B1",
      "uom": "EA"
    },
    {
      "containerNumber": "CNT0004",
      "expectedDate": "04-29-2022",
      "expectedQty": 300,
      "invoiceNumber": "1235",
      "lineReference": 45001,
      "manufacturerName": "Prestige",
      "manufacturerPartNo": "KP600-B1/362069",
      "packQty": 20,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "supplierCode": "11431",
      "supplierPartNumber": "KP600-B1/362069",
      "uom": "EA"
    }
  ]
}
```

S. No	Type	JSON Fields	Datatype/Length	Field Condition
1	HEADER	wareHouseld	NVARCHAR(20)	Mandatory
2	HEADER	asnNumber	NVARCHAR (50)	Mandatory – Unique Value
3	LINE	LineReference	INTEGER	Mandatory – Unique value
4	LINE	Sku	NVARCHAR(50)	Mandatory
5	LINE	SkuDescription	NVARCHAR(500)	Mandatory
6	LINE	Invoice Number	NVARCHAR(50)	Optional
7	LINE	Container Number	NVARCHAR(50)	Optional
8	LINE	Supplier Code	NVARCHAR(50)	Optional
9	LINE	Supplier Part Number	NVARCHAR(50)	Optional
10	LINE	Manufacturer Name	NVARCHAR(200)	Optional
11	LINE	Manufacturer Part No	NVARCHAR(200)	Optional
12	LINE	Expected Date	DATE (MM/DD/YYYY)	Mandatory
13	LINE	Expected Qty	DECIMAL(30,4)	Mandatory
14	LINE	UOM	NVARCHAR(50)	Mandatory
15	LINE	Pack Qty	DECIMAL(30,4)	Mandatory

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

4. Store Return Order

Endpoint Name	/warehouse/inbound/storeReturn
Method	POST

Request Body

```
{
  "storeReturnHeader": {
    "transferOrderNumber": "TO-00646",
    "wareHouseld": "110"
  },
  "storeReturnLine": [
    {
      "containerNumber": "CONT00045",
      "expectedDate": "04-06-2022",
      "expectedQty": 400,
      "invoiceNumber": "1234",
      "lineReference": 45001,
      "manufacturerName": "Prestige",
      "manufacturerPartNo": "KTX5000-B1",
      "packQty": 20,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "storeId": "103",
      "supplierPartNumber": "SUP1000",
      "uom": "EA"
    },
    {
      "containerNumber": "CONT00045",
      "expectedDate": "04-06-2022",
      "expectedQty": 350,
      "invoiceNumber": "1234",
      "lineReference": 45002,
      "manufacturerName": "Prestige",
      "manufacturerPartNo": "KP600-B1/362069",
      "packQty": 15,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "storeId": "103",
      "supplierPartNumber": "SUP1000",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	JSON Fields	Datatype/Length	Field Condition
1	HEADER	WarehouseId	NVARCHAR(20)	Mandatory
2	HEADER	transferOrderNumber	NVARCHAR(50)	Mandatory – Unique Value
3	LINE	Line Reference	INTEGER	Mandatory – Unique value
4	LINE	sku	NVARCHAR(50)	Mandatory
5	LINE	SKU Description	NVARCHAR(500)	Mandatory
6	LINE	Invoice Number	NVARCHAR(50)	Optional
7	LINE	Container Number	NVARCHAR(50)	Optional
8	LINE	Store ID	NVARCHAR(50)	Mandatory
9	LINE	Supplier Part Number	NVARCHAR(50)	Optional
10	LINE	Manufacturer Name	NVARCHAR(200)	Optional
11	LINE	Manufacturer Part No	NVARCHAR(200)	Optional
12	LINE	Expected Date	DATE(MM/DD/YYYY)	Mandatory
13	LINE	expectedQty	DECIMAL(30,4)	Mandatory
14	LINE	UOM	NVARCHAR(50)	Mandatory
15	LINE	Pack Qty	DECIMAL(30,4)	Mandatory

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

5. Inter Warehouse Transfer In

Endpoint Name :	/warehouse/inbound/interWarehouseTransferIn
Method	POST

Request Body

```
{
  "interWarehouseTransferInHeader": {
    "toWhsld": "111",
    "transferOrderNumber": "TO-100011"
  },
  "interWarehouseTransferInLine": [
    {
      "containerNumber": "CNT1234",
      "expectedDate": "04-06-2022",
      "expectedQty": 50,
      "fromWhsld": "110",
      "invoiceNumber": "1234",
      "lineReference": 50001,
      "manufacturerName": "PRESTIGE",
      "manufacturerPartNo": "KTX5000-B1",
      "packQty": 2,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "supplierPartNumber": "SUP1000",
      "uom": "EA"
    },
    {
      "containerNumber": "CNT1234",
      "expectedDate": "04-06-2022",
      "expectedQty": 250,
      "fromWhsld": "110",
      "invoiceNumber": "1234",
      "lineReference": 50002,
      "manufacturerName": "PRESTIGE",
      "manufacturerPartNo": "KP600-B1/362069",
      "packQty": 10,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "supplierPartNumber": "SUP1000",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	JSON Fields	Datatype/Length	Field Condition
1	HEADER	ToWhsID	NVARCHAR(20)	Mandatory
2	HEADER	transferOrderNumber	NVARCHAR(50)	Mandatory – Unique Value
3	LINE	Line Reference	INTEGER	Mandatory – Unique value
4	LINE	Sku	NVARCHAR(50)	Mandatory
5	LINE	SKU Description	NVARCHAR(500)	Mandatory
6	LINE	Invoice Number	NVARCHAR(50)	Optional
7	LINE	Container Number	NVARCHAR(50)	Optional
8	LINE	FromWhsId	NVARCHAR(50)	Optional
9	LINE	Supplier Part Number	NVARCHAR(50)	Optional
10	LINE	Manufacturer Name	NVARCHAR(200)	Optional
11	LINE	Manufacturer Part No	NVARCHAR(200)	Optional
12	LINE	Expected Date	DATE(MM/DD/YYYY)	Mandatory
13	LINE	expectedQty	DECIMAL(30,4)	Mandatory
14	LINE	UOM	NVARCHAR(50)	Mandatory
15	LINE	Pack Qty	DECIMAL(30,4)	Mandatory

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

6. Shipment Order

Endpoint Name	/warehouse/outbound/so
Method	POST

Request Body

```
{
  "soHeader": {
    "requiredDeliveryDate": "06-15-2022",
    "storeID": "103",
    "storeName": "ALRAI showroom",
    "transferOrderNumber": "TO-200002",
    "wareHouseld": "110"
  },
  "soLine": [
    {
      "lineReference": 32101,
      "orderType": "N",
      "orderedQty": 30,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "uom": "EA"
    },
    {
      "lineReference": 32102,
      "orderType": "N",
      "orderedQty": 20,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	JSON Fields	Datatype/Length	Field Condition	Remarks
1	HEADER	WarehouseID	NVARCHAR(50)	Mandatory	
2	HEADER	transferOrderNumber	NVARCHAR(50)	Mandatory – Unique Value	
3	HEADER	Store ID	NVARCHAR(50)	Mandatory	
4	HEADER	Store Name	NVARCHAR(500)	Optional	
5	HEADER	required delivery date	DATE(MM/DD/YYYY)	Mandatory	
6	LINE	Line Reference	INTEGER	Mandatory – Unique value	
7	LINE	sku	NVARCHAR(50)	Mandatory	
8	LINE	SKU description	NVARCHAR(500)	Optional	
9	LINE	Ordered Qty	DECIMAL(30,4)	Mandatory	
10	LINE	UOM	NVARCHAR(50)	Mandatory	
11	LINE	Order type	NVARCHAR(5)	Mandatory	(For Normal order, pass the value as N and Special order ,pass the value as S)

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

7. Sales Order

Endpoint Name :	/warehouse/outbound/salesOrder
Method	POST

Request Body

```
{
  "salesOrderHeader": {
    "requiredDeliveryDate": "04-22-2022",
    "salesOrderNumber": "SO-20002",
    "storeID": "103",
    "storeName": "ALRAI Showroom",
    "wareHouseld": "111"
  },
  "salesOrderLine": [
    {
      "lineReference": 300001,
      "orderType": "S",
      "orderedQty": 250,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "uom": "EA"
    },
    {
      "lineReference": 300002,
      "orderType": "S",
      "orderedQty": 200,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	JSON Fields	Datatype/Length	Field Condition	Remarks
1	HEADER	WarehouseID	NVARCHAR(50)	Mandatory	
2	HEADER	salesOrderNumber	NVARCHAR(50)	Mandatory – Unique value	
3	HEADER	StoreID	NVARCHAR(50)	Mandatory	
4	HEADER	Store Name	NVARCHAR(500)	Optional	
5	HEADER	required delivery date	DATE (MM/DD/YYYY)	Mandatory	
6	LINE	Line Reference	INTEGER	Mandatory – Unique value	
7	LINE	sku	NVARCHAR(50)	Mandatory	
8	LINE	SKU description	NVARCHAR(500)	Optional	
9	LINE	Ordered Qty	DECIMAL(30,4)	Mandatory	
10	LINE	UOM	NVARCHAR(50)	Mandatory	
11	LINE	Order type	NVARCHAR(5)	Mandatory	(For Normal order, pass the value as N and Special order ,pass the value as S)

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

8. Return Purchase Order

Endpoint Name :	/warehouse/outbound/returnPO
Method	POST

Request Body

```
{
  "returnPOHeader": {
    "poNumber": "PO-44501",
    "requiredDeliveryDate": "04-27-2022",
    "storeID": "107",
    "storeName": "Corner",
    "wareHouseld": "110"
  },
  "returnPOLine": [
    {
      "lineReference": 32001,
      "orderType": "N",
      "returnQty": 150,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "uom": "EA"
    },
    {
      "lineReference": 32001,
      "orderType": "N",
      "returnQty": 200,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	API Fields	JSON Fields	Datatype/Length	Field Condition	Remarks
1	HEADER	WH_ID	WarehouseID	NVARCHAR(50)	Mandatory	
2	HEADER	REF_DOC_NO	poNumber	NVARCHAR(50)	Mandatory – Unique value	
3	HEADER	PARTNER_CODE	Store ID	NVARCHAR(50)	Mandatory	
4	HEADER	PARTNER_NM	Store Name	NVARCHAR(500)	Optional	
5	HEADER	REQ_DEL_DATE	required delivery date	DATE(MM/DD/YYYY)	Mandatory	
6	LINE	OB_LINE_NO	Line Reference	INTEGER	Mandatory – Unique value	
7	LINE	ITM_CODE	sku	NVARCHAR(50)	Mandatory	
8	LINE	ITEM_TEXT	SKU description	NVARCHAR(500)	Optional	
9	LINE	ORD_QTY	Ordered Qty	DECIMAL(30,4)	Mandatory	
10	LINE	ORD_UOM	UOM	NVARCHAR(50)	Mandatory	
11	LINE	REF_FIELD_1	Order type	NVARCHAR(5)	Mandatory	(For Normal order, pass the value as N and Special order ,pass the value as S)

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

9. Inter Warehouse Transfer Out

Endpoint Name :	//warehouse/Outbound/interWarehouseTransferOut
Method	POST

Request Body

```
{
  "interWarehouseTransferOutHeader": {
    "fromWhsID": "110",
    "requiredDeliveryDate": "06-25-2022",
    "storeName": "TrueExpress",
    "toWhsID": "111",
    "transferOrderNumber": "TO-600002"
  },
  "interWarehouseTransferOutLine": [
    {
      "lineReference": 20001,
      "orderType": "N",
      "orderedQty": 200,
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "uom": "EA"
    },
    {
      "lineReference": 20002,
      "orderType": "N",
      "orderedQty": 100,
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	JSON Fields	Datatype/Length	Field Condition	Remarks
1	HEADER	FromWhsID	NVARCHAR(50)	Mandatory	
2	HEADER	transferOrderNumber	NVARCHAR(50)	Mandatory – Unique value	
3	HEADER	Store Name	NVARCHAR(500)	Optional	
4	HEADER	required delivery date	DATE(MM/DD/YYYY)	Mandatory	
5	LINE	ToWhsID	NVARCHAR(50)	Mandatory	
6	LINE	Line Reference	INTEGER	Mandatory – Unique value	
7	LINE	sku	NVARCHAR(50)	Mandatory	
8	LINE	SKU description	NVARCHAR(500)	Optional	
9	LINE	Ordered Qty	DECIMAL(30,4)	Mandatory	
10	LINE	UOM	NVARCHAR(50)	Mandatory	
11	LINE	Order type	NVARCHAR(5)	Mandatory	(For Normal order, pass the value as N and Special order ,pass the value as S)

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success

10. Sale Return Order

Endpoint Name :	//warehouse/Inbound/soreturn
Method	POST

Request Body

```
{
  "soReturnHeader": {
    "returnOrderReference": "TO-200003",
    "wareHouseld": "111"
  },
  "soReturnLine": [
    {
      "containerNumber": "CNT1001",
      "expectedDate": "04-22-2022",
      "expectedQty": 180,
      "invoiceNumber": "12110",
      "lineReference": 45002,
      "manufacturerName": "Prestige",
      "manufacturerPartNo": "GJ-16",
      "packQty": 10,
      "salesOrderReference": "SO-200002",
      "sku": "000781439",
      "skuDescription": "BLOWER",
      "storeID": "103",
      "supplierPartNumber": "SUP1000",
      "uom": "EA"
    },
    {
      "containerNumber": "CNT1001",
      "expectedDate": "04-22-2022",
      "expectedQty": 220,
      "invoiceNumber": "12110",
      "lineReference": 45002,
      "manufacturerName": "Prestige",
      "manufacturerPartNo": "GJ-16",
      "packQty": 10,
      "salesOrderReference": "SO-200002",
      "sku": "000781485",
      "skuDescription": "CAR POLISHER",
      "storeID": "103",
      "supplierPartNumber": "SUP1000",
      "uom": "EA"
    }
  ]
}
```

S.No	Type	API Fields	JSON Fields	Datatype/Length	Field Condition
1	HEADER	WH_ID	WarehouseId	NVARCHAR(20)	Mandatory
2	HEADER	REF_DOC_NO	Return Order Reference	NVARCHAR(50)	Mandatory – Unique value
3	LINE	IB_LINE_NO	Line Reference	INTEGER	Mandatory – Unique value
4	LINE	ITM_CODE	sku	NVARCHAR(50)	Mandatory
5	LINE	ITEM_TEXT	SKU Description	NVARCHAR(500)	Mandatory
6	LINE	INV_NO	Invoice Number	NVARCHAR(50)	Optional
7	LINE	CONT_NO	Container Number	NVARCHAR(50)	Optional
8	LINE	PARTNER_CODE	Store ID	NVARCHAR(50)	Mandatory
9	LINE	PARTNER_ITM_CODE	Supplier Part Number	NVARCHAR(50)	Optional
10	LINE	BRND_NM	Manufacturer Name	NVARCHAR(200)	Optional
11	LINE	MFR_PART	Manufacturer Part No	NVARCHAR(200)	Optional
12	LINE	EA_DATE	Expected Date	DATE(MM/DD/YYYY)	Mandatory
13	LINE	ORD_QTY	Expected Qty	DECIMAL(30,4)	Mandatory
14	LINE	ORD_UOM	UOM	NVARCHAR(50)	Mandatory
15	LINE	ITM_CASE_QTY	Pack Qty	DECIMAL(30,4)	Mandatory
16	LINE	REF_FIELD_4	SalesOrderReference	NVARCHAR(50)	Mandatory

Response

```
{
  "statusCode": <status-code>,"message":
  <message>
}
```

Parameter	Data type	Description
statusCode	String	Status of the request. 200-Success. All other status code is failure
Message	String	Description will contain information on the failure or success