

AlMailem Classic WMS Implementation IT BBP Document

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| **AlMailem – Classic WMS Implementation IT BBP Document** | | | |
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| Technical Architect | Murugavel | Document Date | 28.09.2023 |
| Integration Consultant | Senthil | Prepared on | 28.09.2023 |
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**Distribution Information**

|  |  |  |  |
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**Version Information**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ver No** | **Ver Date** | **Revised by** | **Description/File Name** |
| 1.0 | 22.05.2023 | Rajasekar | API Integration Document |
| 1.1 | 23.05.2023 | Rajasekar | Distribution amendment, Test approach inclusion |
| 1.2 | 03.06.2023 | Rajasekar | Added fulfilment method attribute in outbound APIs |
| 1.3 | 12.06.2023 | Rajasekar | New API added for Damage items stock adjustments |
| 1.4 | 26.06.2023 | Rajasekar | Changes included as per AMS team inputs |
| 1.5 | 17.08.2023 | Rajasekar | Included Middleware development and APIs |
| 1.6 | 24.08.2023 | Rajasekar | Updated based on Dhow team’s comments |
| 1.7 | 11.09.2023 | Rajasekar | Updated based on Dhow’s document |
| 1.8 | 28.09.2023 | Rajasekar | Updated based on operation & Dhow comments |

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# **Introduction**

This document covers the integration touch points, approach, API structure for each process.

This document is a subset of Operations BBP document. Please refer the operations BBP for all End-to-End process (project scope, business process flows, process key discussion points)

## **List of APIs**

1. **APIs to receive the data from Middleware to WMS:**

Classic WMS contains the below integration endpoints to receive the data from AMS through Middleware for both Amghara and Auto Lab Warehouse process.

1. Supplier Invoice - Warehouse Inbound
2. Direct Stock receipts- Warehouse Inbound
3. Sales Returns – Warehouse Inbound
4. Transfers- IN from WMS branch to WMS branch – Warehouse Inbound
5. Transfers – IN from Non-WMS branch to WMS branch - Warehouse Inbound
6. Sales order (Pick List create) – Warehouse Outbound
7. Purchase Returns – Warehouse Outbound
8. Transfers – OUT from WMS branch to WMS branch – Warehouse Outbound
9. Transfers – OUT from WMS branch to non-WMS branch - Warehouse Outbound
10. Manual Delivery – Warehouse Outbound
11. Branch Item creation – Masters
12. Branch Item updation – Masters
13. Customer creation – Masters
14. Customer Updation – Masters
15. Stock count – Perpetual – Creation
16. Stock count – Perpetual - Cancellation
17. Stock Count – Periodic – Creation
18. Stock Count – Periodic - Cancellation
19. Stock adjustments- Damage Items
20. Stock adjustments- Cycle count Variance
21. **APIs to Send the data From WMS to Middleware:**

|  |
| --- |
| 1. Supplier Invoice – Completion - Warehouse Inbound 2. Supplier Invoice – Cancellation - Warehouse Inbound 3. Direct Stock Receipts – Completion - Warehouse Inbound 4. Sales Returns – Completion - Warehouse Inbound 5. Sales Returns – Cancellation - Warehouse Inbound 6. Transfers In – Completion - Warehouse Inbound |
| 1. Picklist – Completion- Warehouse Outbound 2. Picklist – Cancellation- Warehouse Outbound 3. Purchase Returns – Completion - Warehouse Outbound 4. Purchase Returns – Cancellation - Warehouse Outbound 5. Transfers Out – Completion - Warehouse Outbound 6. Manual Delivery - Completion – Warehouse Outbound 7. Manual Delivery - Undelivered – Warehouse Outbound 8. Item Master - Completion 9. Customer Master - Completion 10. Cycle Count – Perpetual – Completion 11. Cycle Count – Perpetual - Cancellation 12. Cycle Count – Periodic – Completion 13. Cycle Count – Periodic - Cancellation 14. Stock adjustments   **Note: Middleware will have common table for receiving the Data from AMS and WMS.** |
|  |
|  |
|  |

# **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: (Will be shared after development)

Request JSON:

{

"clientId": "<client-id>",

"clientSecretKey": "<secret-key>",

"grantType": "password",

"oauthPassword": "<oauth-password>",

"oauthUserName": "<oauth-uname>",

"apiName": "<api-name>"

}

Sample Response JSON:

{

"Access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJleHAiOjE2NDYzMzIzMzgsInVzZXJfbmFtZSI6IndtcyIsImF1dGhvcml0aWVzIjpbIlJPTEVfU1lTVEVNQURNSU4iXSwianRpIjoiLVB3Y0thSmpWeGpzVGFNZmdiSjBXVEhMbndRIiwiY2xpZW50X2lkIjoicGl4ZWx0cmljZSIsInNjb3BlIjpbInJlYWQiLCJ3cml0ZSJdfQ.keO452MM70DDQeVqBRveqq4YQY\_oBgEy0GWDcgO73Kg",

"Token\_type": "bearer",

"refresh\_token": "eyJhbGciOiJIUzI1NiJ9.eyJ1c2VyX25hbWUiOiJ3bXMiLCJzY29wZSI6WyJyZWFkIiwid3JpdGUiXSwiYXRpIjoiLVB3Y0thSmpWeGpzVGFNZmdiSjBXVEhMbndRIiwiZXhwIjoxNjQ2MzMyMzM4LCJhdXRob3JpdGllcyI6WyJST0xFX1NZU1RFTUFETUlOIl0sImp0aSI6Imp2SUd5Y21BeTJYdWVMWUFaZFhRdVFzVmlTTSIsImNsaWVudF9pZCI6InBpeGVsdHJpY2UifQ.1hRjiZ766XYTARWIaL0qtnsx5lJHzjqCNEqUMPFLUwE",

"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.

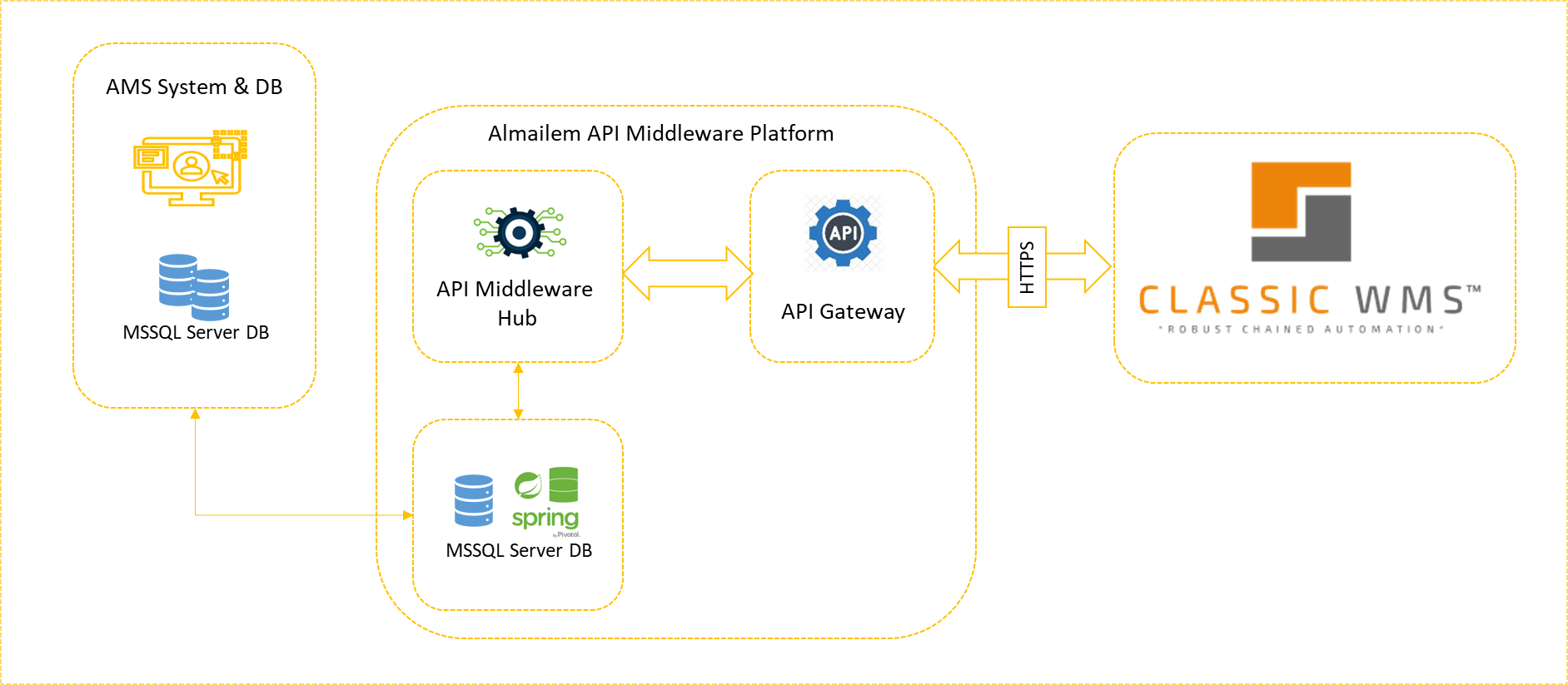
**API Response codes:**

1. 200- Success
2. 400 – Bad request
3. 401 – Unauthorized token
4. 500 – Internal server error
5. 502 – Bad Gateway
6. 504 – Gateway timeout

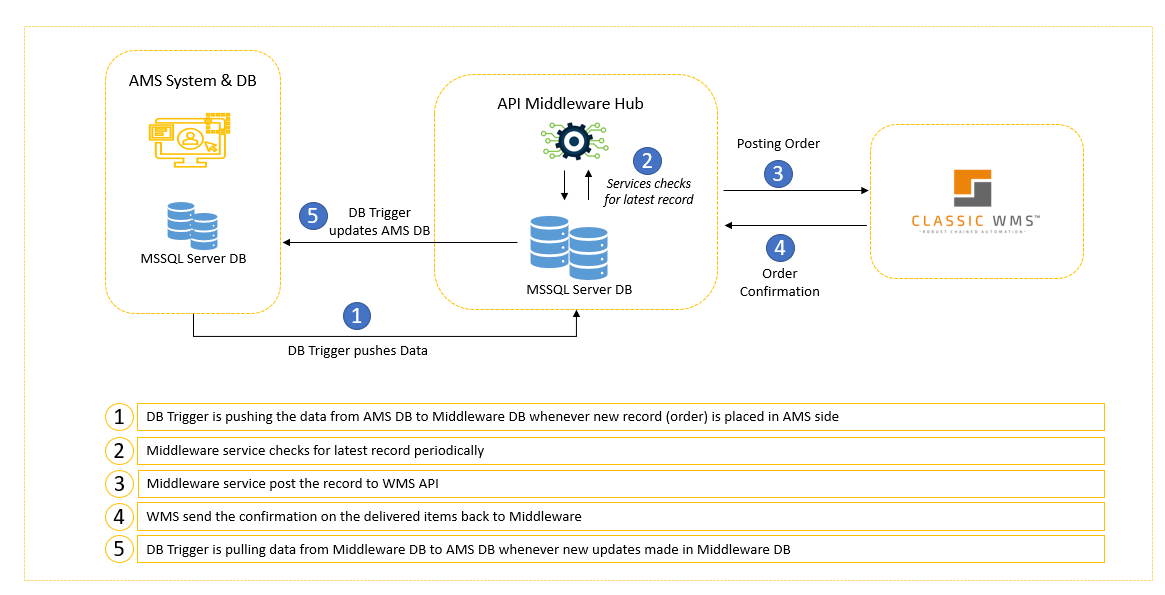
# **Test Approach**

* Testing will be done after the API developments are completed in both Middleware and Classic WMS systems.
* Integration testing will be done along with end-to-end process testing for all Integration touch points during UAT.
* Performance testing for the below scenarios
* Multiple orders creation in AMS for a process (Supplier invoice, Picklist for same/ different customers, Transfer orders from different branch and pushing to Classic WMS.
* Orders (Supplier invoice, Picklist, transfer orders) which contains more items (at least 100) to be pushed from AMS into Classic WMS
* Testing should consider the scenarios below as well.
* Multiple scenarios in Supplier invoice, Picklist process
* Item Master & Customer Master create/Update scenarios.
* Stock Count testing for both perpetual and periodic
* Stock transfer process testing for WMS branch to WMS branch transfer, WMS branch to non-WMS branch transfer and Non-WMS branch to WMS branch transfer.
* End to End Delivery management process with integration (sending credit sales invoice from AMS to Middleware once the invoice is generated)

# **Middleware Architecture**



# **Data Flow between AMS, Middleware and WMS**



# **AMS to Middleware/WMS – APIs and Tables**

## **Supplier Invoice**

**Middleware Table – SUPPLIERINVOICEHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Branch code | NVARCHAR (20) | Mandatory | No |
| 3 | HEADER | Company Code | NVARCHAR (20) | Mandatory | No |
| 4 | HEADER | Purchase order No | NVARCHAR (50) | Mandatory | No |
| 5 | HEADER | Supplier Invoice No | NVARCHAR (50) | Mandatory | No |

**Middleware Table – SUPPLIERINVOICELINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Branch code | NVARCHAR (20) | Mandatory | No |
| 3 | LINE | Company Code | NVARCHAR (20) | Mandatory | No |
| 4 | LINE | Supplier Invoice No | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Line No for each item | INTEGER | Mandatory | No |
| 6 | LINE | Item code | NVARCHAR (50) | Mandatory | No |
| 7 | LINE | Item Description | NVARCHAR (500) | Mandatory | No |
| 8 | LINE | Container No | NVARCHAR (50) | Optional | No |
| 9 | LINE | Supplier code | NVARCHAR (50) | Mandatory | No |
| 10 | LINE | Supplier Part No | NVARCHAR (50) | Optional | No |
| 11 | LINE | Manufacturer short Name | NVARCHAR (200) | Mandatory | No |
| 12 | LINE | Manufacturer code | NVARCHAR (200) | Mandatory | No |
| 13 | LINE | Invoice date | DATE (YYYY/MM/DD) | Mandatory | No |
| 14 | LINE | Invoice Qty | DECIMAL (30,4) | Mandatory | No |
| 15 | LINE | Unit of Measure | NVARCHAR (50) | Mandatory | No |
| 16 | LINE | Supplier Name | NVARCHAR (250) | Optional | No |
| 17 | LINE | Manufacturer full name | NVARCHAR (250) | Optional | No |

## **Direct Stock receipts**

**Middleware Table – STOCKRECEIPTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Branch code | NVARCHAR (20) | Mandatory | No |
| 3 | HEADER | Company Code | NVARCHAR (20) | Mandatory | No |
| 4 | HEADER | Receipt No | NVARCHAR (50) | Mandatory | No |

**Middleware Table – STOCKRECEIPTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Branch code | NVARCHAR (20) | Mandatory | No |
| 3 | LINE | Company Code | NVARCHAR (20) | Mandatory | No |
| 4 | LINE | Receipt No | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Line No for each item | INTEGER | Mandatory | No |
| 6 | LINE | Item code | NVARCHAR (50) | Mandatory | No |
| 7 | LINE | Item Description | NVARCHAR (500) | Mandatory | No |
| 9 | LINE | Supplier code | NVARCHAR (50) | optional | No |
| 10 | LINE | Supplier Part No | NVARCHAR (50) | Optional | No |
| 11 | LINE | Manufacturer short Name | NVARCHAR (200) | Mandatory | No |
| 12 | LINE | Manufacturer code | NVARCHAR (200) | Mandatory | No |
| 13 | LINE | Receipt date | DATE (YYYY/MM/DD) | Mandatory | No |
| 14 | LINE | Receipt Qty | DECIMAL (30,4) | Mandatory | No |
| 15 | LINE | Unit of Measure | NVARCHAR (50) | Mandatory | No |
| 16 | LINE | Supplier Name | NVARCHAR (250) | Optional | No |
| 17 | LINE | Manufacturer full name | NVARCHAR (250) | Optional | No |

## **Sales Return**

|  |  |
| --- | --- |
| **Endpoint Name** | /warehouse/inbound/soReturn/v2 |
| **Method** | POST |

**Middleware Table – SALESRETURNHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Company Code | NVARCHAR (20) | Mandatory | No |
| 3 | HEADER | Return Order No | NVARCHAR (50) | Mandatory | No |
| 4 | HEADER | Branch code of receiving Warehouse | NVARCHAR (20) | Mandatory | No |

**Middleware Table – SALESRETURNLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Line No of each item | INTEGER | Mandatory | No |
| 3 | LINE | Item code | NVARCHAR (50) | Mandatory | No |
| 4 | LINE | Item description | NVARCHAR (500) | Mandatory | No |
| 5 | LINE | Reference Invoice No | NVARCHAR (50) | Mandatory | No |
| 6 | LINE | Source branch code | NVARCHAR (50) | Optional | No |
| 7 | LINE | Supplier Part No | NVARCHAR (50) | Optional | No |
| 8 | LINE | Manufacturer short Name | NVARCHAR (200) | Mandatory | No |
| 9 | LINE | Return order Date | DATE(YYYY/MM/DD) | Mandatory | No |
| 10 | LINE | Return qty | DECIMAL (30,4) | Mandatory | No |
| 11 | LINE | Unit of Measure | NVARCHAR (50) | Mandatory | No |
| 12 | LINE | No of Packs | INTEGER | Optional | No |
| 13 | LINE | Country of Origin | NVARCHAR (250) | Optional | No |
| 14 | LINE | Manufacturer Code | NVARCHAR (200) | Mandatory | No |
| 15 | LINE | Manufacturer full name | NVARCHAR (250) | Optional | No |

## **Transfer In from a Non-WMS branch to WMS branch**

|  |  |
| --- | --- |
| **Endpoint Name** | /warehouse/inbound/b2bTransferIn |
| **Method** | POST |

**Middleware Table –TRANSFERINHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Source Company Code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Target Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | HEADER | Transfer Order No | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Source Branch Code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Target Branch code | NVARCHAR(20) | Mandatory | No |
| 7 | HEADER | transfer Order date | DATE(YYYY/MM/DD) | Mandatory | No |

**Middleware Table –TRANSFERINLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Transfer Order No | NVARCHAR (50) | Mandatory | No |
| 3 | LINE | Line No of each item | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR (500) | Mandatory | No |
| 6 | LINE | Manufacturer short Name | NVARCHAR (200) | Mandatory | No |
| 7 | LINE | Transfer qty | DECIMAL (30,4) | Mandatory | No |
| 8 | LINE | Unit of Measure | NVARCHAR (50) | Mandatory | No |
| 9 | LINE | Manufacturer Code | NVARCHAR (200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR (250) | Optional | No |

## **Transfer Order IN from a WMS branch to WMS branch**

|  |  |
| --- | --- |
| **Endpoint Name:** | /warehouse/inbound/interWarehouseTransferIn/v2 |
| **Method** | POST |

**Middleware Table –TRANSFERINHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Source Company Code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Target Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | HEADER | Transfer Order No | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Source Branch Code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Target Branch code | NVARCHAR(20) | Mandatory | No |
| 7 | HEADER | transfer Order date | DATE(YYYY/MM/DD) | Mandatory | No |

**Middleware Table –TRANSFERINLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Transfer Order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line No of each item | INTEGER | Mandatory – Unique value | No |
| 4 | LINE | Item code | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR (500) | Mandatory | No |
| 6 | LINE | Manufacturer short Name | NVARCHAR (200) | Mandatory | No |
| 7 | LINE | Transfer qty | DECIMAL (30,4) | Mandatory | No |
| 8 | LINE | Unit of Measure | NVARCHAR (50) | Mandatory | No |
| 9 | LINE | Manufacturer Code | NVARCHAR (200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR (250) | Optional | No |

## **Sales Order – Pick List Create**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/outbound/salesOrder/v2 |
| **Method** | POST |

**Middleware Table – PICKLISTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Sales order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Pick List No | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Pick List date | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PICKLISTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Sales Order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Pick list no | NVARCHAR(50) | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Mandatory | No |
| 6 | LINE | Pick list qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |

## **Transfer order Out from WMS branch to Non-WMS branch**

|  |  |
| --- | --- |
| **Endpoint Name** | /warehouse/outbound/so/v2 |
| **Method** | POST |

**Middleware Table – TRANSFEROUTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Field from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Source Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Target Company Code | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Transfer Order number | NVARCHAR(50) | Mandatory – Unique Value | No |
| 5 | HEADER | Source branch code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Target branch Code | NVARCHAR(50) | Mandatory | No |
| 7 | HEADER | Transfer Order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 8 | HEADER | Fulfilment Method | NVARCHAR(5) | Normal orders – pass the value as N.  Emergency orders – pass the value as E | No |

**Middleware Table – TRANSFEROUTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Field from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Transfer Order number | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line number of each item | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item Description | NVARCHAR(500) | Mandatory | No |
| 6 | LINE | Transfer order qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |

## **Purchase Return Order**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/outbound/returnPO/v2 |
| **Method** | POST |

**Middleware Table – PURCHASSERETURNHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Return order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Return order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 6 | HEADER | Supplier Invoice No | NVARCHAR(50) | Optional | No |

**Middleware Table – PURCHASSERETURNLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Return order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Return order qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |

## **Transfer Out Order from WMS to WMS branch**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/Outbound/interWarehouseTransferOut/v2 |
| **Method** | POST |

**Middleware Table – TRANSFEROUTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Field from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Source Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Target Company Code | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Transfer Order number | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Source branch code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Target branch Code | NVARCHAR(50) | Mandatory | No |
| 7 | HEADER | Transfer Order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 8 | HEADER | Fulfilment Method | NVARCHAR(5) | Normal orders – pass the value as N.  Emergency orders – pass the value as E | No |

**Middleware Table – TRANSFEROUTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Field from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Transfer Order number | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line number of each item | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item Description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Transfer order qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |

## **Manual Delivery**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/outbound/salesInvoice |
| **Method** | POST |

**Middleware Table – SALESINVOICE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 1 | FLAT | companyCode | NVARCHAR(50) | Mandatory | No |
| 2 | FLAT | salesInvoiceNumber | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Delivery type | NVARCHAR(50) | Pass (Automatic or Manual) | No |
| 4 | FLAT | branchCode | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | salesOrderNumber | NVARCHAR(50) | Mandatory | No |
| 6 | FLAT | pickListNumber | NVARCHAR(50) | Mandatory | No |
| 7 | FLAT | InvoiceDate | DATE(YYYY/MM/DD) | Mandatory | No |
| 8 | FLAT | Customer ID | NVARCHAR(50) | Mandatory | No |
| 9 | FLAT | CustomerName | NVARCHAR(50) | Mandatory | No |
| 10 | FLAT | Address | NVARCHAR(500) | Mandatory | No |
| 11 | FLAT | PhoneNumber | NVARCHAR(50) | Mandatory | No |
| 12 | FLAT | Alternate No | NVARCHAR(50) | Mandatory | No |
| 13 | FLAT | Status | NVARCHAR(50) | Optional | No |

## **Branch Item Master – Creation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/master/branchitem |
| **Method** | POST |

**Middleware Table – ITEMMASTER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Branch Code | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | Item Description | NVARCHAR(500) | Mandatory | No |
| 6 | FLAT | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | FLAT | Item Group ID | INTEGER | Optional | No |
| 8 | FLAT | Secondary Item group ID | INTEGER | Optional | No |
| 9 | FLAT | ManufacturerCode | NVARCHAR(200) | Mandatory | No |
| 10 | FLAT | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 11 | FLAT | Manufacturer Full Name | NVARCHAR(250) | Optional | No |
| 12 | FLAT | Created User name | NVARCHAR(50) | Mandatory | No |
| 13 | FLAT | Item creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 14 | FLAT | IS\_NEW | NVARCHAR(20) | Mandatory | No |

## **Branch Item Master - Updation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/master/item |
| **Method** | PATCH |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Branch Code | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | Item Description | NVARCHAR(500) | Mandatory | No |
| 6 | FLAT | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | FLAT | Item Group ID | INTEGER | Optional | No |
| 8 | FLAT | Secondary Item group ID | INTEGER | Optional | No |
| 9 | FLAT | ManufacturerCode | NVARCHAR(200) | Mandatory | No |
| 10 | FLAT | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 11 | FLAT | Manufacturer Full Name | NVARCHAR(250) | Optional | No |
| 12 | FLAT | Created User name | NVARCHAR(50) | Mandatory | No |
| 13 | FLAT | Item creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 14 | FLAT | IS\_UPDATE | NVARCHAR(20) | Mandatory | No |

## **Customer Master - Creation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/master/customer |
| **Method** | POST |

**Middleware Table – CUSTOMERMASTER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Branch code | NVARCHAR(50) | Optional | No |
| 4 | FLAT | Customer code | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | Customer Name | NVARCHAR(50) | Mandatory | No |
| 6 | FLAT | Home Address 1 | NVARCHAR(5000) | Mandatory | No |
| 7 | FLAT | Home Address 2 | NVARCHAR(5000) | Optional | No |
| 8 | FLAT | Home Tel Number | NVARCHAR(500) | Optional | No |
| 9 | FLAT | Civil ID Number | NVARCHAR(200) | Optional | No |
| 10 | FLAT | Mobile Number | NVARCHAR(200) | Optional | No |
| 11 | FLAT | Created User name | NVARCHAR(50) | Mandatory | No |
| 12 | FLAT | Customer creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 13 | FLAT | IS\_NEW | NVARCHAR(20) | Mandatory | No |

## **Customer Master - Updation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/master/customer |
| **Method** | PATCH |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Branch code | NVARCHAR(50) | Optional | No |
| 4 | FLAT | Customer code | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | Customer Name | NVARCHAR(50) | Mandatory | No |
| 6 | FLAT | Home Address 1 | NVARCHAR(5000) | Mandatory | No |
| 7 | FLAT | Home Address 2 | NVARCHAR(5000) | Optional | No |
| 8 | FLAT | Home Tel Number | NVARCHAR(500) | Optional | No |
| 9 | FLAT | Civil ID Number | NVARCHAR(200) | Optional | No |
| 10 | FLAT | Mobile Number | NVARCHAR(200) | Optional | No |
| 11 | FLAT | Created User name | NVARCHAR(50) | Mandatory | No |
| 12 | FLAT | Customer creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 13 | FLAT | IS\_UPDATE | NVARCHAR(20) | Mandatory | No |

## **Stock Count – Perpetual Creation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/stockcount/perpetual |
| **Method** | POST |

**Middleware Table – PERPETUALHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-NEW | NVARCHAR(20) | Mandatory | No |

**Middleware Table – PERPETUALLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |

## **Stock Count – Perpetual Cancellation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/stockcount/perpetual |
| **Method** | CANCEL |

**Middleware Table – PERPETUALHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-CANCELLED | NVARCHAR(20) | Mandatory | No |

**Middleware Table – PERPETUALLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory – Unique value | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory – Unique value | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |

## **Stock Count – Periodic creation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/stockcount/periodic |
| **Method** | POST |

**Middleware Table – PERIODICHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 1 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 2 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 5 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 6 | HEADER | IS-NEW | NVARCHAR(20) | Mandatory | No |

**Middleware Table – PERIODICLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory – Unique value | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory – Unique value | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |

## **Stock Count – Periodic cancellation**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/stockcount/periodic |
| **Method** | Cancel |

**Middleware Table – PERIODICHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory – Unique value | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-CANCELLED | NVARCHAR(20) | Mandatory | No |

**Middleware Table – PERIODICLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory – Unique value | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory – Unique value | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |

## **Stock adjustments – Damage**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/bookout/damage & cycle Count |
| **Method** | POST |

**Middleware Table – STOCKADJUSTMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Stock count Branch code | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Branch Name | NVARCHAR(500) | Optional | No |
| 5 | FLAT | Date of adjustment | DATE(YYYY/MM/DD) | Mandatory | No |
| 6 | FLAT | IS\_DAMAGE | NVARCHAR(5) | Mandatory | No |
| 7 | FLAT | Item code | NVARCHAR(50) | Mandatory | No |
| 8 | FLAT | Item description | NVARCHAR(500) | Optional | No |
| 9 | FLAT | Adjustment qty | DECIMAL(30,4) | Mandatory | No |
| 10 | FLAT | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 11 | FLAT | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 12 | FLAT | Manufacturer Name | NVARCHAR(200) | Optional | No |
| 13 | FLAT | Remarks | NVARCHAR(250) | Optional | No |

## **Stock adjustments – Cycle Count**

|  |  |
| --- | --- |
| **Endpoint Name :** | /warehouse/bookout/damage & cycle Count |
| **Method** | POST |

**Middleware Table – STOCKADJUSTMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from AMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Not applicable | INTEGER | Auto Generated ID | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Stock count Branch code | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Branch Name | NVARCHAR(500) | Optional | No |
| 5 | FLAT | Date of adjustment | DATE(YYYY/MM/DD) | Mandatory | No |
| 6 | FLAT | IS\_CYCLECOUNT | NVARCHAR(5) | Mandatory | No |
| 7 | FLAT | Item code | NVARCHAR(50) | Mandatory | No |
| 8 | FLAT | Item description | NVARCHAR(500) | Optional | No |
| 9 | FLAT | Adjustment qty | DECIMAL(30,4) | Mandatory | No |
| 10 | FLAT | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 11 | FLAT | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 12 | FLAT | Manufacturer Name | NVARCHAR(200) | Optional | No |
| 13 | FLAT | Remarks | NVARCHAR(250) | Optional | No |

# **WMS to Middleware/AMS – Tables**

## **Supplier Invoice - Completion**

**Middleware Table – SUPPLIERINVOICEHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Branch code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | HEADER | Supplier Invoice No | NVARCHAR (50) | Mandatory | No |
| 5 | HEADER | IS\_COMPLETED | NVARCHAR (5) | Mandatory | No |
| 6 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – SUPPLIERINVOICELINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Auto Generated ID | Yes |
| 2 | LINE | Branch code | NVARCHAR(20) | Mandatory | No |
| 3 | LINE | Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | LINE | Supplier Invoice No | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Line No for each item | INTEGER | Mandatory | No |
| 6 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Item Description | NVARCHAR(500) | Mandatory | No |
| 8 | LINE | Container No | NVARCHAR(50) | Optional | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer code | NVARCHAR(200) | Mandatory | No |
| 11 | LINE | Received date | DATE (YYYY/MM/DD) | Mandatory | No |
| 12 | LINE | Invoice Qty | DECIMAL(30,4) | Mandatory | No |
| 13 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 14 | LINE | Received Qty | DECIMAL (30,4) | Optional | No |
| 15 | LINE | Received by | NVARCHAR (50) | Optional | No |
| 16 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 17 | LINE | IS\_COMPLETED | NVARCHAR (5) | Mandatory | No |

## **Supplier Invoice - Cancellation**

**Middleware Table – SUPPLIERINVOICEHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Branch code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | HEADER | Supplier Invoice No | NVARCHAR (50) | Mandatory | No |
| 5 | HEADER | IS\_CANCELLED | NVARCHAR (5) | Mandatory | No |
| 6 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – SUPPLIERINVOICELINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Branch code | NVARCHAR(20) | Mandatory | No |
| 3 | LINE | Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | LINE | Supplier Invoice No | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Line No for each item | INTEGER | Mandatory | No |
| 6 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Item Description | NVARCHAR(500) | Mandatory | No |
| 8 | LINE | Container No | NVARCHAR(50) | Optional | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer code | NVARCHAR(200) | Mandatory | No |
| 11 | LINE | Received date | DATE (YYYY/MM/DD) | Mandatory | No |
| 12 | LINE | Invoice Qty | DECIMAL(30,4) | Mandatory | No |
| 13 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 14 | LINE | Received Qty | DECIMAL (30,4) | Optional | No |
| 15 | LINE | Received by | NVARCHAR (50) | Optional | No |
| 16 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 17 | LINE | IS\_CANCELLED | NVARCHAR (5) | Mandatory | No |

## **Direct Stock receipts - Completion**

**Middleware Table – STOCKRECEIPTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Branch code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | HEADER | Receipt No | NVARCHAR (50) | Mandatory | No |
| 5 | HEADER | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 6 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – STOCKRECEIPTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Branch code | NVARCHAR(20) | Mandatory | No |
| 3 | LINE | Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | LINE | Receipt No | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Line No for each item | INTEGER | Mandatory | No |
| 6 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Item Description | NVARCHAR(500) | Mandatory | No |
| 9 | LINE | Supplier code | NVARCHAR(50) | optional | No |
| 10 | LINE | Supplier Part No | NVARCHAR(50) | Optional | No |
| 11 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 12 | LINE | Manufacturer code | NVARCHAR(200) | Mandatory | No |
| 13 | LINE | Receipt date | DATE (YYYY/MM/DD) | Mandatory | No |
| 14 | LINE | Receipt Qty | DECIMAL(30,4) | Mandatory | No |
| 15 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 16 | LINE | Supplier Name | NVARCHAR(250) | Optional | No |
| 17 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 18 | LINE | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Sales Return - Completion**

**Middleware Table – SALESRETURNHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Return Order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(20) | Mandatory | No |
| 5 | HEADER | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 6 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – SALESRETURNLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Line No of each item | INTEGER | Mandatory | No |
| 3 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 4 | LINE | Item description | NVARCHAR(500) | Mandatory | No |
| 5 | LINE | Reference Invoice No | NVARCHAR(50) | Mandatory | No |
| 6 | LINE | Source branch code | NVARCHAR(50) | Optional | No |
| 7 | LINE | Supplier Part No | NVARCHAR(50) | Optional | No |
| 8 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Return order Date | DATE(YYYY/MM/DD) | Mandatory | No |
| 10 | LINE | Return qty | DECIMAL(30,4) | Mandatory | No |
| 11 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 12 | LINE | No of Packs | INTEGER | Optional | No |
| 13 | LINE | Country of Origin | NVARCHAR(250) | Optional | No |
| 14 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 15 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 16 | LINE | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |

## 

## **Sales Return - Cancellation**

**Middleware Table – SALESRETURNHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Return Order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(20) | Mandatory | No |
| 5 | HEADER | IS\_CANCELLED | NVARCHAR(5) | Mandatory | No |
| 6 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – SALESRETURNLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Line No of each item | INTEGER | Mandatory | No |
| 3 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 4 | LINE | Item description | NVARCHAR(500) | Mandatory | No |
| 5 | LINE | Reference Invoice No | NVARCHAR(50) | Mandatory | No |
| 6 | LINE | Source branch code | NVARCHAR(50) | Optional | No |
| 7 | LINE | Supplier Part No | NVARCHAR(50) | Optional | No |
| 8 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Return order Date | DATE(YYYY/MM/DD) | Mandatory | No |
| 10 | LINE | Return qty | DECIMAL(30,4) | Mandatory | No |
| 11 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 12 | LINE | No of Packs | INTEGER | Optional | No |
| 13 | LINE | Country of Origin | NVARCHAR(250) | Optional | No |
| 14 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 15 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 16 | LINE | IS\_CANCELLED | NVARCHAR(5) | Mandatory | No |

## 

## **Transfers In - Completion**

**Middleware Table –TRANSFERINHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Source Company Code | NVARCHAR(20) | Mandatory | No |
| 3 | HEADER | Target Company Code | NVARCHAR(20) | Mandatory | No |
| 4 | HEADER | Transfer Order No | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Source Branch Code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Target Branch code | NVARCHAR(20) | Mandatory | No |
| 7 | HEADER | transfer Order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 8 | HEADER | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 9 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table –TRANSFERINLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping field from WMS** | **Datatype/Length** | **Field Condition** | **Primary key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Transfer Order No | NVARCHAR (50) | Mandatory | No |
| 3 | LINE | Line No of each item | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR (50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR (500) | Mandatory | No |
| 6 | LINE | Manufacturer short Name | NVARCHAR (200) | Mandatory | No |
| 7 | LINE | Transfer qty | DECIMAL (30,4) | Mandatory | No |
| 8 | LINE | Unit of Measure | NVARCHAR (50) | Mandatory | No |
| 9 | LINE | Manufacturer Code | NVARCHAR (200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR (250) | Optional | No |
| 11 | LINE | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Picklist - Completion**

**Middleware Table – PICKLISTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Sales order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Pick List No | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 7 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PICKLISTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Sales Order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Pick list no | NVARCHAR(50) | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Mandatory | No |
| 6 | LINE | Pick list qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 11 | LINE | Picked qty | DECIMAL (30,4) | Mandatory | No |
| 12 | LINE | IS\_ALL\_PICKED | NVARCHAR (5) | Mandatory | No |
| 13 | LINE | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Picklist - Cancellation**

**Middleware Table – PICKLISTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Sales order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Pick List No | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | IS\_CANCELLED | NVARCHAR(5) | Mandatory | No |
| 7 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PICKLISTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Sales Order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Pick list no | NVARCHAR(50) | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Mandatory | No |
| 6 | LINE | Pick list qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 11 | LINE | Picked qty | DECIMAL (30,4) | Mandatory | No |
| 12 | LINE | IS\_ALL\_PICKED | NVARCHAR (5) | Mandatory | No |
| 13 | LINE | IS\_CANCELLED | NVARCHAR(5) | Mandatory | No |

## **Transfer Order out - Completion**

**Middleware Table – TRANSFEROUTHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Source Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Target Company Code | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Transfer Order number | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Source branch code | NVARCHAR(50) | Mandatory | No |
| 6 | HEADER | Target branch Code | NVARCHAR(50) | Mandatory | No |
| 7 | HEADER | Transfer Order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 8 | HEADER | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 9 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – TRANSFEROUTLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Field from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Transfer Order number | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line number of each item | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item Description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Transfer order qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 11 | LINE | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Purchase Returns - Completion**

**Middleware Table – PURCHASSERETURNHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Return order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Return order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 6 | HEADER | Supplier Invoice No | NVARCHAR(50) | Optional | No |
| 7 | HEADER | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 8 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PURCHASSERETURNLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Return order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Return order qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 11 | LINE | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Purchase Returns - Cancellation**

**Middleware Table – PURCHASSERETURNHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Return order No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Return order date | DATE(YYYY/MM/DD) | Mandatory | No |
| 6 | HEADER | Supplier Invoice No | NVARCHAR(50) | Optional | No |
| 7 | HEADER | IS\_CANCELLED | NVARCHAR(5) | Mandatory | No |
| 8 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PURCHASSERETURNLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Return order No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Return order qty | DECIMAL(30,4) | Mandatory | No |
| 7 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 8 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 10 | LINE | Manufacturer full name | NVARCHAR(250) | Optional | No |
| 11 | LINE | IS\_CANCELLED | NVARCHAR(5) | Mandatory | No |

## **Manual Delivery - Completion**

**Middleware Table – DELIVERY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | FLAT | companyCode | NVARCHAR(50) | Mandatory | Yes |
| 3 | FLAT | salesInvoiceNumber | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Delivery type | NVARCHAR(50) | Manual or Automatic | No |
| 5 | FLAT | branchCode | NVARCHAR(50) | Mandatory | No |
| 6 | FLAT | salesOrderNumber | NVARCHAR(50) | Mandatory | No |
| 7 | FLAT | pickListNumber | NVARCHAR(50) | Mandatory | No |
| 8 | FLAT | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 9 | FLAT | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

## **Manual Delivery - Undelivered**

**Middleware Table – DELIVERY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | FLAT | companyCode | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | salesInvoiceNumber | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Delivery type | NVARCHAR(50) | Manual or Automatic | No |
| 5 | FLAT | branchCode | NVARCHAR(50) | Mandatory | No |
| 6 | FLAT | salesOrderNumber | NVARCHAR(50) | Mandatory | No |
| 7 | FLAT | pickListNumber | NVARCHAR(50) | Mandatory | No |
| 8 | FLAT | IS\_UNDELIVERED | NVARCHAR(5) | Mandatory | No |
| 9 | FLAT | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

## **Branch Item Master (Create & Update)**

**Middleware Table – ITEMMASTER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Branch Code | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | Item Description | NVARCHAR(500) | Mandatory | No |
| 6 | FLAT | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | FLAT | Item Group ID | INTEGER | Optional | No |
| 8 | FLAT | Secondary Item group ID | INTEGER | Optional | No |
| 9 | FLAT | ManufacturerCode | NVARCHAR(200) | Mandatory | No |
| 10 | FLAT | Manufacturer short Name | NVARCHAR(200) | Mandatory | No |
| 11 | FLAT | Manufacturer Full Name | NVARCHAR(250) | Optional | No |
| 12 | FLAT | Created User name | NVARCHAR(50) | Mandatory | No |
| 13 | FLAT | Item creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 14 | FLAT | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 15 | FLAT | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

## **Customer Master (Create & Update)**

**Middleware Table – CUSTOMERMASTER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping Fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Branch code | NVARCHAR(50) | Optional | No |
| 4 | FLAT | Customer code | NVARCHAR(50) | Mandatory | No |
| 5 | FLAT | Customer Name | NVARCHAR(50) | Mandatory | No |
| 6 | FLAT | Home Address 1 | NVARCHAR(5000) | Mandatory | No |
| 7 | FLAT | Home Address 2 | NVARCHAR(5000) | Optional | No |
| 8 | FLAT | Home Tel Number | NVARCHAR(500) | Optional | No |
| 9 | FLAT | Civil ID Number | NVARCHAR(200) | Optional | No |
| 10 | FLAT | Mobile Number | NVARCHAR(200) | Optional | No |
| 11 | FLAT | Created User name | NVARCHAR(50) | Mandatory | No |
| 12 | FLAT | Customer creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 13 | FLAT | IS\_COMPLETED | NVARCHAR(5) | Mandatory | No |
| 14 | FLAT | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

## **Cycle Count Perpetual - Completion**

**Middleware Table – PERPETUALHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-COMPLETED | NVARCHAR(5) | Mandatory | No |
| 8 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PERPETUALLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Counted Qty | DECIMAL (30,4) | Mandatory | No |
| 10 | LINE | IS-COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Cycle Count Perpetual - Cancellation**

**Middleware Table – PERPETUALHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-CANCELLEDLED | NVARCHAR(5) | Mandatory | No |
| 8 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PERPETUALLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Counted Qty | DECIMAL (30,4) | Mandatory | No |
| 10 | LINE | IS-CANCELLEDLED | NVARCHAR(5) | Mandatory | No |

## **Cycle Count Periodic - Completion**

**Middleware Table – PERIODICHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-COMPLETED | NVARCHAR(5) | Mandatory | No |
| 8 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PERIODICLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Counted Qty | DECIMAL (30,4) | Mandatory | No |
| 10 | LINE | IS-COMPLETED | NVARCHAR(5) | Mandatory | No |

## **Cycle Count Periodic - Cancellation**

**Middleware Table – PERIODICHEADER**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | HEADER | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | HEADER | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | HEADER | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 4 | HEADER | Branch code | NVARCHAR(50) | Mandatory | No |
| 5 | HEADER | Branch Name | NVARCHAR(500) | Optional | No |
| 6 | HEADER | Cycle count creation date | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | HEADER | IS-CANCELLEDLED | NVARCHAR(5) | Mandatory | No |
| 8 | HEADER | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

**Middleware Table – PERIODICLINE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | LINE | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | LINE | Cycle Count No | NVARCHAR(50) | Mandatory | No |
| 3 | LINE | Line no of each item code | INTEGER | Mandatory | No |
| 4 | LINE | Item code | NVARCHAR(50) | Mandatory | No |
| 5 | LINE | Item description | NVARCHAR(500) | Optional | No |
| 6 | LINE | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 7 | LINE | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 8 | LINE | Manufacturer Name | NVARCHAR(200) | Mandatory | No |
| 9 | LINE | Counted Qty | DECIMAL (30,4) | Mandatory | No |
| 10 | LINE | IS-CANCELLEDLED | NVARCHAR(5) | Mandatory | No |

## **Stock adjustment - Completion**

**Middleware Table – STOCKADJUSTMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Type** | **Mapping fields from WMS** | **Datatype/Length** | **Field Condition** | **Primary Key** |
| 1 | FLAT | Middleware Auto ID | INTEGER | Mandatory | Yes |
| 2 | FLAT | Company Code | NVARCHAR(50) | Mandatory | No |
| 3 | FLAT | Stock count Branch code | NVARCHAR(50) | Mandatory | No |
| 4 | FLAT | Branch Name | NVARCHAR(500) | Optional | No |
| 5 | FLAT | AMS reference No | NVARCHAR(50) | Optional | No |
| 6 | FLAT | Date of adjustment | DATE(YYYY/MM/DD) | Mandatory | No |
| 7 | FLAT | IS\_DAMAGE | NVARCHAR(5) | Mandatory | No |
| 8 | FLAT | Item code | NVARCHAR(50) | Mandatory | No |
| 9 | FLAT | Item description | NVARCHAR(500) | Optional | No |
| 10 | FLAT | Adjustment qty | DECIMAL(30,4) | Mandatory | No |
| 11 | FLAT | Unit of Measure | NVARCHAR(50) | Mandatory | No |
| 12 | FLAT | Manufacturer Code | NVARCHAR(200) | Mandatory | No |
| 13 | FLAT | Manufacturer Name | NVARCHAR(200) | Optional | No |
| 14 | FLAT | Remarks | NVARCHAR(250) | Optional | No |
| 15 | FLAT | IS-COMPLETED | NVARCHAR(5) | Mandatory | No |
| 16 | FLAT | Updated on | DATE (YYYY/MM/DD) | Mandatory | No |

# **Discussed Points:**

1. Supplier Invoice

* All the required changes will be made to the purchase order before generating supplier invoice and pushing to WMS.
* For the superseded Parts receiving scenario, existing process will be continued where the parts will be received with the part no mentioned in the invoice and receipt confirmation will be done in WMS. Stock adjustments will be done in both AMS and WMS manually after the confirmation.
* If there are new parts received physically which are not there in the supplier invoice posted in WMS, a new PO must be created in AMS and a new supplier invoice will be pushed to WMS.
* If the Physical Qty of a part is received more than the invoice qty, confirmation will be done with excess qty and in AMS users will create the separate line item for the excess qty.
* Supplier invoice cancellation will be done in WMS first and the details will be pushed to Middleware.
* Supplier invoice cancellation will not be allowed once the confirmation is done in WMS.

1. Direct Stock Receipts

* AMS will send Direct stock receipt order to Middleware with Part, qty etc. details.
* WMS will receive the details and create a Preinbound order. Users need to select whether the stock needs to go to the location or deliver to the customer without receiving into warehouse. Accordingly, WMS will process the order.

1. Transfer Order receipts

* Transfer order updates are not allowed in AMS after pushing the order to WMS.

1. Purchase returns

* AMS will send the return order and part, qty details to Middleware.
* Completion and Cancellation status will be sent from WMS to Middleware
* In case of Cancellation, AMS will send another return order to Middleware.

1. Sales returns

* AMS will send the return order and part, qty details to Middleware.
* Completion and Cancellation status will be sent from WMS to Middleware
* In case of Cancellation, AMS will send another return order to Middleware.

1. Pick List

* Pick list updates are not allowed in AMS after pushing to WMS.
* For qty change, new items addition, deletion etc., existing pick list must be cancelled in WMS, pushed to middleware, and cancelled in AMS.
* A new pick list needs to be generated in AMS and pushed to middleware.
* WMS will cancel the picklist automatically and create a new pick list. Users need to confirm the picking in portal manually for the items that were already picked.
* For the items deleted in the picklist or if the entire pick list is cancelled for which the items were already picked, users need to move the items back to Bin locations based on internal return order.
* Cancellation of pick list is not allowed in AMS and WMS after the picking confirmation done in WMS pushed to Middleware and received in AMS.
* If a Picklist is cancelled in AMS after the Picklist was confirmed and pushed by WMS. A new return order must be created in AMS and sent to Middleware. Based on the return orders, items will be returned in WMS by moving the items back to the locations

1. Transfer Order Picking

* Transfer order updates are not allowed in AMS after pushing the order to WMS.
* Transfer order cancellations (for the entire order) can be done in WMS and the same will be pushed into middleware.

1. Sales delivery Process:

* AMS will push the invoice and customer details to Middleware after invoice creation (For both Manual and Automatic deliveries)
* Only Manual delivery orders will be processed in the delivery module of WMS. Automatic delivery orders will not be processed for delivery in WMS.

1. Cycle Count Perpetual and Periodic based on items

* The cycle count method of automatic selection of items in AMS will be pushed to WMS and counted qty of second count will be pushed back to AMS.
* AMS will post stock adjustment entries and send the adjustment qty to middleware for stock adjustments in WMS.
* Cycle count documents which are not completed will be allowed to cancel in WMS and the same will be pushed to middleware.

1. Cycle Count – Bin Based selection.

* AMS need to confirm this process.