Data Mapping Sheet

Project: OpenBoxes + ShipStation Parcel Sync  
Revision: 1.0  
Date: April 22, 2025  
Prepared By: Sr. IT Manager – Logistics Integrations

# 1. Source System

System Name: OpenBoxes  
System Description: WMS system used to manage inventory and outbound stock movements.

# 2. Target System

System Name: ShipStation  
System Description: TMS system used to generate parcel shipping labels and track deliveries.

# 3. Integration Objective

Automate syncing outbound OpenBoxes stock movements with ShipStation orders and update OpenBoxes when tracking info is added or voided in ShipStation.

# 4. Data Mapping Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source Field (OpenBoxes) | Target Field (ShipStation) | Transformation/Mapping Logic | Validation Rules | Notes/Comments |
| stockMovement.identifier | orderNumber | Direct | Unique ID | Used as order reference |
| stockMovement.lineItems[].productCode | items[].sku | Direct | Must match | SKU must match exactly |
| shipTo.name | recipient.name | Direct | Required | Customer name |
| shipTo.address1 | recipient.street1 | Direct | Required | Street address |
| shipTo.city | recipient.city | Direct | Required |  |
| shipTo.state | recipient.state | Direct | 2-letter code |  |
| shipTo.zip | recipient.postalCode | Direct | 5 or 9 digits |  |
| shipTo.country | recipient.countryCode | Direct | ISO 2-letter | Always "US" for domestic orders |

# 5. Format Notes and Default Values

- All SKUs must be pre-configured in ShipStation.  
- Country defaults to US.  
- If state code is missing, order is flagged.

# 6. API Endpoints and Webhook Events

- POST /orders/createorder (ShipStation)  
- Webhook SHIP\_NOTIFY → updates OpenBoxes trackingNumber  
- Webhook SHIPMENT\_VOIDED → resets OpenBoxes shipping status

# 7. Business Rules and Sync Logic

- Only APPROVED OpenBoxes orders are sent to ShipStation.  
- When ShipStation order is marked Shipped, tracking is sent to OpenBoxes.  
- If shipment is voided in ShipStation, OpenBoxes order is reset to NOT SHIPPED.

# 8. Error Handling and Retry Strategy

- API failures logged and retried up to 3x with exponential backoff.  
- ShipStation webhook failures notify support and log reason.

# 9. Approval and Change Tracking

Approved by: Mickey Mouse (PM), Donald Duck (Dev)  
Version history maintained in internal repository.