

Oracle® Retail MICROS Retail-J
Inventory Management Stock Adjustments
Release 12.1

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MICROS Retail-J

Inventory Management

Stock Adjustments

Revisions

1.1	March, 2015	Added Oracle cover and copyright page.
1.0	May 24, 2013	First published.

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Note: The rebranding for the latest version of this documentation set is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this existing documentation set.

1.0 Introduction

This document comprises:

- A context definition
- Supporting concepts
- XML message format definition
- Configuration details
- A worked example
- A comprehensive summary and break-out process diagrams including error conditions

2.0 Supporting Concepts

Generally (but see virtual inventory locations below) stock adjustments are confined to a particular stock holding location. They are designed to move stock units between different inventory types/statuses.

2.1 Messaging

Retail-J internal communication around the estate takes the form of XML documents passed from mailbox to mailbox. For example, stock adjustments at a store are recorded at the store and messaged to the head office estate manager using the appropriate XML document.

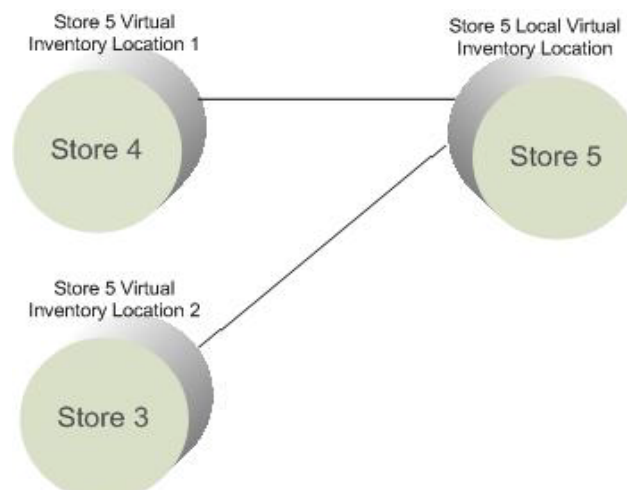
2.2 Virtual Inventory Locations

Virtual inventory locations are designed for stores without storage space where stock might be held in another estate location on behalf of the store.

Even though stock is located elsewhere in the estate, all the product inventory functionality behaves as if it were held locally.

With stock movements between virtual inventory locations, stock adjustments are used instead of store-to-store stock transfer mechanisms.

Virtual Inventory Locations



3.0 Context

Retail-J inventory management provides the following functions:

- Product Search
- Stock Enquiry
- Expected Deliveries by Item
- Expected Deliveries by Delivery
- Product Enquiry
- Product Exporter (optional)
- Goods In
- Goods Out
- Product Inventory Requests
- Purchase Orders
- Stock Adjustments
- Stock Counting
- Replenishment
- Inventory Reconciliation Reporting

This document describes Stock Adjustments.

3.1 Automated Stock Adjustments

Manual stock adjustments are actioned from Operations > Product Inventory > Stock Adjustments. Automated stock adjustments occur in the following circumstances:

- Where a customer order is created at the POS, the application adjusts the ordered stock from available to reserved.
- During stock transfers between locations, when a delivery is closed on the Expected Delivery Maintenance page
- When a delivery is over accepted during a Goods In operation; stock adjustments are generated automatically.
- When a stock count is processed, adjustments are applied to override actual with counted stock.

3.2 Directly Editing Product Inventory

You can directly edit stock levels from Operations > Product Inventory > Product Search > Product Maintenance > Edit Product Inventory Levels

Inventory Maintenance

You are editing inventory details for product 12001, location 5 and location type Store

Field	Value
Product ID	12001
Location ID	5
Location Name	UK Store 5
Location Type	Store
Available	23
Reserved	0
Returned	35
Damaged	2
In Transit	0
Customer Ordered	0
Disposal	0
Display	0
Available For Loan	0
On Loan	0
Storage	12
For Customer View	0

This is not recommended for trading operations. It should be restricted by role, reserved for support personnel and underpinned by an estate backup policy.

4.0 Messaged XML Documents Data Formats

For stock adjustments, the XML document messaged around the estate is a Stock Adjustment Event. Stock adjustments are recorded at the location making the stock adjustment and at the estate manager.

Pseudo XML Schema Definitions (XSD) are available with the release. These list the content to be expected in the above, and the other, XML documents generated by the application.

4.1 Stock Adjustment Event

A Stock Adjustment Event XML document comprises:

- StockAdjustmentEvent (the base stock adjustment document)
- StockAdjustmentEventItem (containers, loose and serial number products included in the stock adjustment)

4.1.1 StockAdjustmentEvent

Field	Type	Comments
ID	String	Comprises "SA" Location ID and incremented number. For example, SA12319 (the nineteenth stock adjustment from Location ID 123)
Status	Integer	Status of the stock adjustment event namely New or Applied.

Field	Type	Comments
TimeZoneOffset	Integer	The UTC offset, in minutes, of the location associated with the SA. For example, London daylight saving time is 60.
CreationDate	ISO 8601 Date	Date and time at which the stock adjustment was created.
ProcessedDate	ISO 8601 Date	Date and time at which the stock adjustment was created.
Notes	String	Any notes to be associated with the stock adjustment.
Instructions	String	Any instructions to be associated with the stock adjustment. Instructions.
UserID	String	ID of the User who raised the stock adjustment.
AuthorisingUserID	String	ID of the User who authorised the stock adjustment.
LocationID	String	ID of the location associated with the stock adjustment.
LocationType	Integer	Type of the stockholding location associated with the stock adjustment, namely: 0 = None, 1 = Warehouse, 2 = Store, 3 = Distribution Centre, 4 = Office, 5 = Supplier. Status is displayed as the corresponding description.
GeneratedAtID	String	ID of the location where the stock adjustment was generated.
GeneratedAtType	Integer	Type of the location where the stock adjustment was generated.
SequenceDeviceID	String	Device ID of the device raising the stock adjustment.
SequenceNumber	Long	Sequence number of the device in the previous field, rolls over when it reaches 99999999.
StockAdjustmentEventItem	See "StockAdjustmentEventItem" on page 7.	
TotalRetailValue	Long	Total retail value of all the items in the stock adjustment.
InitialStockStatus	Integer	The inventory type of the item namely: 0 = none 1 = available 2 = reserved 3 = returned 4 = damaged 5 = in transit 6 = customer ordered 10 = disposal 11 = display 12 = available for loan 13 = on loan 14 = storage 15 = for customer view 17 = trade in
ResultantStockStatus	Integer	
InvLocationFrom	String	Virtual stock inventory location; for example another store within the estate.
InvLocationTo	String	

Field	Type	Comments
ReasonCode	String	A reason code defined against the stock adjustment reason type.
Selectable	Boolean	Set against the reason code. When set, you can select reason codes for each product in the adjustment.

4.1.1.1 StockAdjustmentEventItem

Field	Type	Comments
ProductID	String	ID of the product associated with the event item
MMGroupID	String	ID of the MM Group to which the product belongs.
ImageFilePath	String	The full filepath (including filename) of the product's image.
InventoryType	Integer	The inventory type of the item namely: 0 = none 1 = available 2 = reserved 3 = returned 4 = damaged 5 = in transit 6 = customer ordered 10 = disposal 11 = display 12 = available for loan 13 = on loan 14 = storage 15 = for customer view 17 = trade in
Type	Integer	The type of event item, namely: 0 = product 1 = serial tracked product 2 = unexpected product 3 = unknown product
Quantity	Float	The quantity of the item, range -99999.9999 to 99999.9999.
Description	String	The description of the product
ItemUnits	Integer	The item units of the product, namely: 1 = unit 2 = weighed 3 = liquid 4 = length 5 = set 6 = gedeck (place setting)
RetailPrice	Long	Retail price of the item, range 0-999999999999.
CostPriceItem		List of cost price items included in the stock adjustment.
SerialNumberItem		List of serial number items included in the stock adjustment.

Field	Type	Comments
Container		List of containers and constituent products.

5.0 Configuration

5.1 Roles

Any number of the following stock adjustment application functions can be assigned to a user via a role. Roles can be maintained from Data Maintenance > Users > Easy Roles.

- View Adjustments
- Change Location
- Create Adjustment
- Edit Adjustment
- Remove Adjustment
- Print Adjustment
- View Adjustment Items
- Edit Adjustment Items
- Submit Adjustment
- Cancel Entire Adjustment
- Download PDF Document
- Override Invalid Stock Levels
- Download Adjustment Containers PDF Document
- Add All Stock - Available Items
- Add All Stock - Reserved Items
- Add All Stock - Returned Items
- Add All Stock - Damaged Items
- Add All Stock - Disposal Items
- Add All Stock - In Transit Items
- Add All Stock - Customer Ordered Items
- Add All Stock - Display Items
- Add All Stock - Available for Loan Items
- Add All Stock - On Loan Items
- Add All Stock - Storage Items
- Add All Stock - Storage Items
- Add All Stock - View Items
- Ignore Stock Level Warnings

5.2 Reasons

All stock adjustments are associated with the stock adjustment reason type. You can assign many reason codes to the stock adjustment reason type as in the example below.

















Reason codes are maintained from Data Maintenance > POS Support > Reasons.

Reason Maintenance

Reason Maintenance will allow you to view, edit, remove and create reasons.

Select a Trading Region	United Kingdom ▼
Select a Reason Type	Stock Adjustment ▼

All reasons for reason type Stock Adjustment and trading region United Kingdom are shown below.

Options	ID	Description
  	09	Storage to available
  	10	Returned to damaged
  	11	Returned to available
  	12	Available to on loan
  	15	Available to storage
		

The following fields and options are available:

Field/Option	Description
Trading Region	Select from a drop down list of trading regions.
Reason Type	Select Stock adjustment from the drop down list.
View, Edit, Delete	Options available against any of the reasons set against the Stock Adjustment reason type for this trading region.
Add	Click the Add icon to create a stock adjustment reason.

Click on the Edit icon to review or modify a stock adjustment reason.

Reason Maintenance

You are editing reason: 15

Field	Value
Reason ID	15
Reason Type	Stock Adjustment
Trading Region	United Kingdom
Adjustment Type	Available ▼ to Storage ▼
Locale	English (United Kingdom) ▼
Description	Available to storage
Allow Containerisation	<input checked="" type="checkbox"/>
Allow Adjustments Between Inventory Locations	<input checked="" type="checkbox"/>
Selectable	<input checked="" type="checkbox"/>
 	

The following fields and options are available.









Field/Option	Description
Adjustment Type	From adjustment type to adjustment type. Select from the drop down list None, Available, Reserved, Returned, Damaged, In Transit, Customer Ordered, Disposal, Display, Available For Loan, On loan, Storage, For Customer View, Trade In.
Locale	Select from the drop down list.
Description	You may wish to use the from and to adjustment types in the description.
Allow Containerisation	When this option is ticked, options to add container and add selected available stock from container are available during the stock adjustment.
Allow Adjustments Between Inventory Locations	See “Virtual Inventory Locations” on page 10.
Selectable	When this option is ticked, you can select reason codes for each product in the adjustment.

5.3 Virtual Inventory Locations

Virtual inventory locations are set from Data Maintenance > Company Structure > Locations > Edit Inventory Locations as in the following example of inventory locations for Store 5 in the example Retail-J estate.

Inventory Location Maintenance

Inventory Location Maintenance will allow you to view, edit, remove and create inventory locations.

Options	Description	Physical Location Name	Physical Location Type
  	Stock at Store 4	UK Store 4	Store
  	Local stock	UK Store 5	Store
 			

6.0 Worked Example

This example uses two stock adjustment features, to illustrate the extent of the functionality, that may not be used in your installation; namely virtual inventory locations and multiple lines in one stock adjustment.

6.1 Introductory Stock Enquiry

Store 5 in the sample estate sells product number x4, the Android Smart Phone from Smart Phones Are Us.

A stock enquiry (Operations > Product Inventory > Stock Enquiry) reveals the following stock position:

Stock Enquiry

Enter Product Code	x4
Check Supply Chain	Required Stock 0
Check Stock	➔

You are viewing stock details for product x4.

Field	Value
Product Code	x4
Description	Android Smart Phone
Price	£70.00

Location	Available	Reserved	Returned	Damaged	In Transit	Customer Ordered	Disposal	Display	Available For Loan	On Loan	Storage	For Customer View	Qty on Order	Qty Expected
Local Store (UK 367 Store 5)		0	0	8	0	0	9	0	4	3	144	5	167	167
AUT Store	0	0	0	0	0	0	0	0	0	0	0	0	0	0
US Store	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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6.2 Creating a New Stock Adjustment

Go to Operations > Product Inventory > Stock Adjustments.

Stock Adjustments

Stock Adjustments allows you to move stock between available, returned, reserved and damaged states.

Select a location:	Type Store	Name UK Store 5
Status	(All)	
Start Date	23/05/13	(dd/mm/yy)
End Date	23/05/13	(dd/mm/yy)
Apply Filter	🔍	

All adjustments which meet the criteria are listed below.

Options	Adjustment ID	Adjustment Type	Status	Creation Date
-	-	-	-	-



New Adjustment ➔

Click on New Adjustment.

The Stock Adjustments Edit screen is displayed.

Stock Adjustments

The following details apply to adjustment SA00530 created on 22/05/13 10:43

Field	Value
Adjustment ID	SA00530
Reason Code	Available to storage
Adjustment Type	Available to Storage
Inventory Locations	Stock at Store 4 to Local stock
Creation Date	22/05/13 10:43
Status	New
Notes	This stock adjustment illustrates multi line adjustments and virtual locations.
Instructions	
User ID	ADMIN
Add Multiple Items	→
Edit Items	→
Apply Adjustment	→
 	

The following fields and options are available.

Field/Option	Description
Reason Code	Select from a drop down list of the descriptions of the reason codes set against the stock adjustment reason type
Adjustment Type From and To	Inventory status from and to.
Inventory Locations From and To	See “Virtual Inventory Locations” on page 10.
Note	Memo field which appears on the stock adjustment docket.
Instructions	Memo field which appears on the stock adjustment docket.
Add Multiple Items	Not used in this worked example. Allows the selection of a MMG with all stock items noted together with stock quantities so that you can select individual items and modify quantities as required.
Edit Items	See “Entering Stock Adjustment Items” on page 14.
Apply Adjustment	See “Applying the Stock Adjustment” on page 14.
Save/Cancel	Remember to save any changes you have made in Edit Items

Save the partially completed stock adjustment.

The Stock Adjustments Filter and Selection screen is displayed.

Stock Adjustments

Stock Adjustments allows you to move stock between available, returned, reserved and damaged states.

Select a location:	Type <input type="text" value="Store"/> Name <input type="text" value="UK Store 5"/>
Status	(All) <input type="text"/>
Start Date	17/05/13 (dd/mm/yy)
End Date	23/05/13 (dd/mm/yy)
Apply Filter	

All adjustments which meet the criteria are listed below.

Options	Adjustment ID	Adjustment Type	Status	Creation Date
	SA00532	Available to Reserved	Applied	22/05/13 16:30
	SA00530	Available to Storage	New	22/05/13 10:43
	SA00524	Storage to Available	Applied	20/05/13 16:51
	SA00523	Available to Storage	Applied	20/05/13 14:54
New Adjustment →				

You now need to add the adjustment items.

Select the Edit icon against your new stock adjustment.

You are returned to the Stock Adjustments Edit screen.

Stock Adjustments

The following details apply to adjustment SA00530 created on 22/05/13 10:43

Field	Value
Adjustment ID	SA00530
Reason Code	Available to storage <input type="text"/>
Adjustment Type	Available <input type="text"/> to Storage <input type="text"/>
Inventory Locations	Stock at Store 4 <input type="text"/> to Local stock <input type="text"/>
Creation Date	22/05/13 10:43
Status	New
Notes	This stock adjustment illustrates multi line adjustments and virtual locations.
Instructions	
User ID	ADMIN
Edit Items	→
Apply Adjustment	→

Select Edit Items.

The Stock Adjustments Edit screen is displayed.

6.2.1 Entering Stock Adjustment Items

Aside from the Android Smart Phone entry, you decide to mark a Hands Free Kit as on loan.

Enter your adjustment items.

Stock Adjustments

Enter all products to be included in the adjustment below.

Options	Product ID	Quantity	Description	From	To	From Container	Messages
Loose Items							
	12001	1	Hands Free Kit	Storage	On Loan	-	-
	x4	12	Android Smart Phone	Available	Storage	-	-
	<input type="text"/>	<input type="text"/>		(none)	(none)		New

Add selected Available stock

Add Container

From Container

The following fields and options are available.

Field/Option	Description
Loose Items entry	Use the search icon to select a product via a product search or enter the product ID directly.
From and To	Enter the From and To inventory adjustment types or leave blank to default to the From and To inventory adjustment types set in the Stock Adjustments Edit screen.
New	Appends the entered product to the list of loose items.
Add selected [From Adjustment Type] Stock	The [From Adjustment Type] is taken from the Stock Adjustments Edit screen. Not used in this example.
Add Container	Not used in this example. You can name a container and add loose items. The container name is included in the messaged XML stock adjustment document.
From Container	Not used in this example. Where containers have been defined elsewhere, they appear in a drop down list. On selection of a particular container (if no Containers have been defined, all products are listed) a list of products, quantities and statuses is displayed. You can input a quantity and tick the Select check box for any of the products listed. You are given the option to add these items to a Container you have named in Add a Container or you can add the selected products as loose items.



6.2.2 Applying the Stock Adjustment

Press the Return icon.

The Stock Adjustment Edit screen is displayed.

Stock Adjustments

The following details apply to adjustment SA00530 created on 22/05/13 10:43

Field	Value
Adjustment ID	SA00530
Reason Code	Available to storage
Adjustment Type	Available to Storage
Inventory Locations	Stock at Store 4 to Local stock
Creation Date	22/05/13 10:43
Status	New
Notes	This stock adjustment illustrates multi line adjustments and virtual locations.
Instructions	
User ID	ADMIN
Edit Items	➔
Apply Adjustment	➔
 	


Apply the adjustment.

The Stock Adjustments Filter and Selection screen is displayed.













The stock adjustment (SA00530) changes status from new to applied.

Stock Adjustments

Stock Adjustments allows you to move stock between available, returned, reserved and damaged states.

Select a location:	Type	Name
	Store	UK Store 5
Status	(All)	
Start Date	17/05/13	(dd/mm/yy)
End Date	23/05/13	(dd/mm/yy)
Apply Filter		

All adjustments which meet the criteria are listed below.

Options	Adjustment ID	Adjustment Type	Status	Creation Date
  	SA00532	Available to Reserved	Applied	22/05/13 16:30
  	SA00530	Available to Storage	Applied	22/05/13 10:43
  	SA00524	Storage to Available	Applied	20/05/13 16:51
  	SA00523	Available to Storage	Applied	20/05/13 14:54

New Adjustment ➔

6.3 Stock Adjustment Event

The following XML document is generated for messaging to the estate manager:

```
<Document><XMLSchemaVersion>1</XMLSchemaVersion><LastUpdated>2013-05-
```

```
23T15:00:41+01:00</LastUpdated><MajorVersion>1</MajorVersion><MinorVersion>0</MinorVersion><Status>1</Status><DateReceived>2013-05-23T14:56:44+01:00</DateReceived><Originator/><Channel/><ContentXML><StockAdjustmentEvent><ID>SA00530</ID><Status>2</Status><TimeZoneOffset>-60</TimeZoneOffset><CreationDate>2013-05-23T10:43:28+01:00</CreationDate><ProcessedDate>2013-05-23T14:56:43+01:00</ProcessedDate><Notes>Added a line from Storage to On Loan to this stock adjustment; check the individual line item.</Notes><Instructions/><UserID>ADMIN</UserID><AuthorisingUserID>ADMIN</AuthorisingUserID><LocationID>5</LocationID><LocationType>2</LocationType><GeneratedAtID>5</GeneratedAtID><GeneratedAtType>2</GeneratedAtType><SequenceDeviceID>ALL.TEST.S05</SequenceDeviceID><SequenceNumber>211</SequenceNumber><StockAdjustmentEventItem><XMLSchemaVersion>1</XMLSchemaVersion><ID>12001|14|13||</ID><ProductID>12001</ProductID><MMGroupID>3</MMGroupID><ImageFilePath/><InventoryType>1</InventoryType><Type>0</Type><Quantity>1.0</Quantity><Description>Hands Free Kit</Description><ItemUnits>1</ItemUnits><RetailPrice>1500</RetailPrice><CostPriceItem><XMLSchemaVersion>1</XMLSchemaVersion><CostPrice>0</CostPrice><Quantity>1.0</Quantity><DateReceived>2013-05-23T14:56:44+01:00</DateReceived></CostPriceItem><InvTypeFrom>14</InvTypeFrom><InvTypeTo>13</InvTypeTo><InvLocationFrom/><InvLocationTo/><ContainerFrom/><ContainerTo/><ID>12001|14|13||</ID><ReasonCode/></StockAdjustmentEventItem><StockAdjustmentEventItem><XMLSchemaVersion>1</XMLSchemaVersion><ID>x4|1|14||</ID><ProductID>x4</ProductID><MMGroupID>3</MMGroupID><ImageFilePath>c:/RetailJ_USEFT//TEST/Images/Products/x4.jpg</ImageFilePath><InventoryType>1</InventoryType><Type>0</Type><Quantity>12.0</Quantity><Description>Android Smart Phone</Description><ItemUnits>1</ItemUnits><RetailPrice>7000</RetailPrice><CostPriceItem><XMLSchemaVersion>1</XMLSchemaVersion><CostPrice>1000</CostPrice><Quantity>12.0</Quantity><DateReceived>2013-05-23T14:56:44+01:00</DateReceived></CostPriceItem><InvTypeFrom>1</InvTypeFrom><InvTypeTo>14</InvTypeTo><InvLocationFrom/><InvLocationTo/><ContainerFrom/><ContainerTo/><ID>x4|1|14||</ID><ReasonCode/></StockAdjustmentEventItem><TotalRetailValue>85500</TotalRetailValue><InitialStockStatus>1</InitialStockStatus><ResultantStockStatus>14</ResultantStockStatus><InvLocationFrom>Virtual1</InvLocationFrom><InvLocationTo>Virtual2</InvLocationTo><ReasonCode>15</ReasonCode><Selectable>1</Selectable></StockAdjustmentEvent></ContentXML></Document>
```

Note, the contents of InvoiceLocationFrom and InvoiceLocationTo; these are the IDs of the Virtual Inventory Locations set up in “Virtual Inventory Locations” on page 10. They only appear in the user interface on entry; thereafter the descriptions are used instead. So, for example, Virtual1 appears in the interface as Stock at Store 4.

6.4 Printing the Stock Adjustment Docket

Click the printer icon on the Stock Adjustments Filter and Selection screen.

A stock adjustment docket is displayed (this is also available as a PDF).

Stock Adjustment



Adjustment ID	SA00530	Date Adjusted	23/05/13
Location ID	5	Location Name	UK Store 5
Raised By	ADMIN	Authorised By	ADMIN
Initial Stock Status	Available	Resultant Stock Status	Storage
Notes	Added a line from Storage to On Loan to this stock adjustment; check the individual line item.		
Instructions			
Product ID	Description	Quantity	
12001 14 13	Hands Free Kit	1	
x4 1 14	Android Smart Phone	12	
		Total	13

Note, the heading mentions just one status which may or may not relate to any of the detail lines.

You can determine the status of the individual line by checking the Product ID which is a composite of:
Product ID | Initial Stock Status Code | Resultant Stock Status Code

6.5 Concluding Stock Enquiry



Make a new Stock Enquiry on product x4 Android Smart Phone.

Stock Enquiry

Enter Product Code	x4 
Check Supply Chain <input type="checkbox"/>	Required Stock 0
Check Stock	

You are viewing stock details for product x4.

Field	Value
Product Code	x4
Description	Android Smart Phone
Price	£70.00

Location	Available	Reserved	Returned	Damaged	In Transit	Customer Ordered	Disposal	Display	Available For Loan	On Loan	Storage	For Customer View	Qty on Order	Qty Expected
Local Store (UK 355 Store 5)		0	0	8	0	0	9	0	4	3	156 	5	167	167 
AUT Store	0	0	0	0	0	0	0	0	0	0	0	0	0	0
US Store	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Under Storage, click on Submit Query.

Inventory Location Maintenance

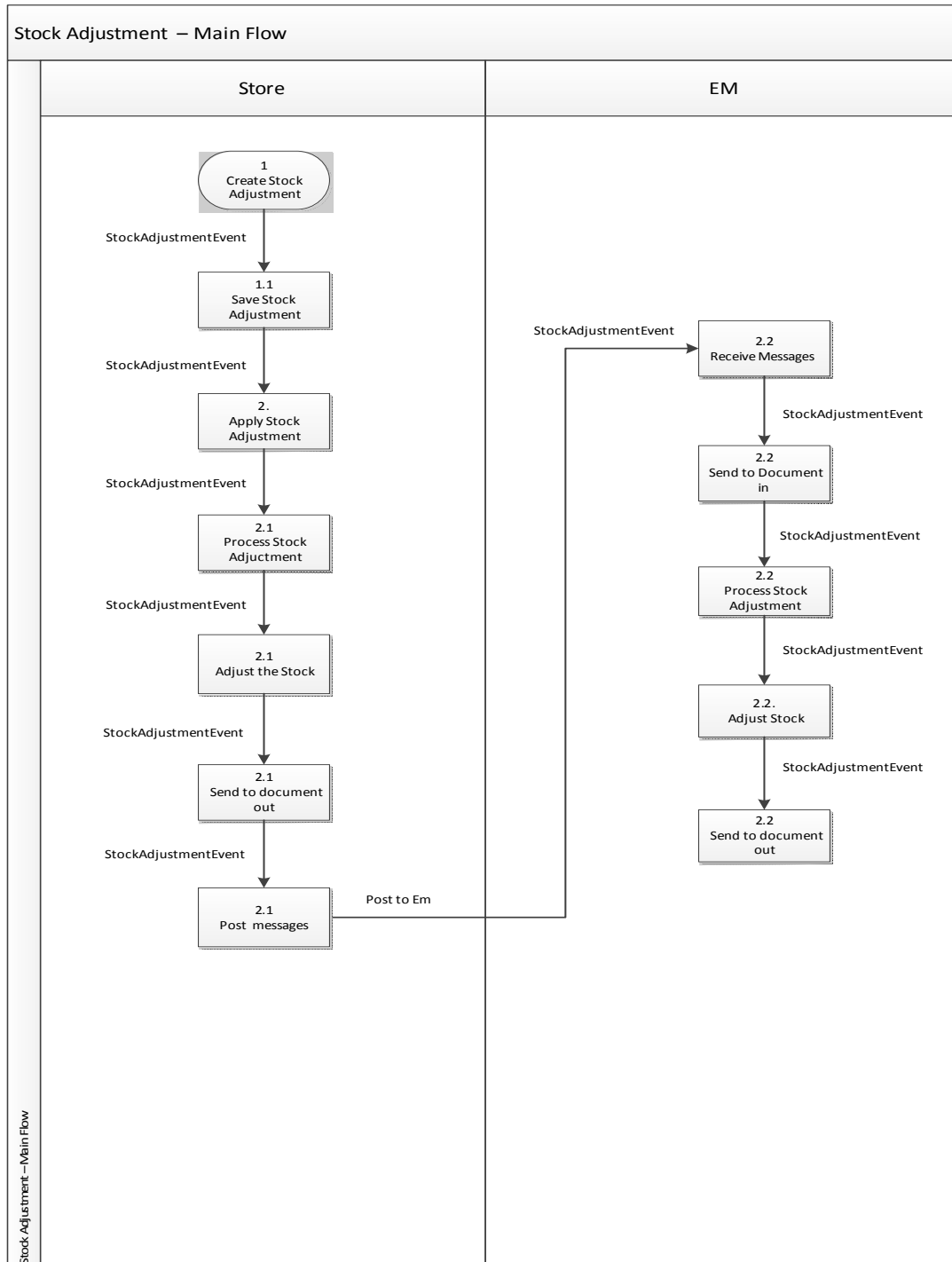
All existing Storage stock in inventory locations for product x4 is shown below.

Container	Quantity
Local stock (UK Store 5)	
-	12.0

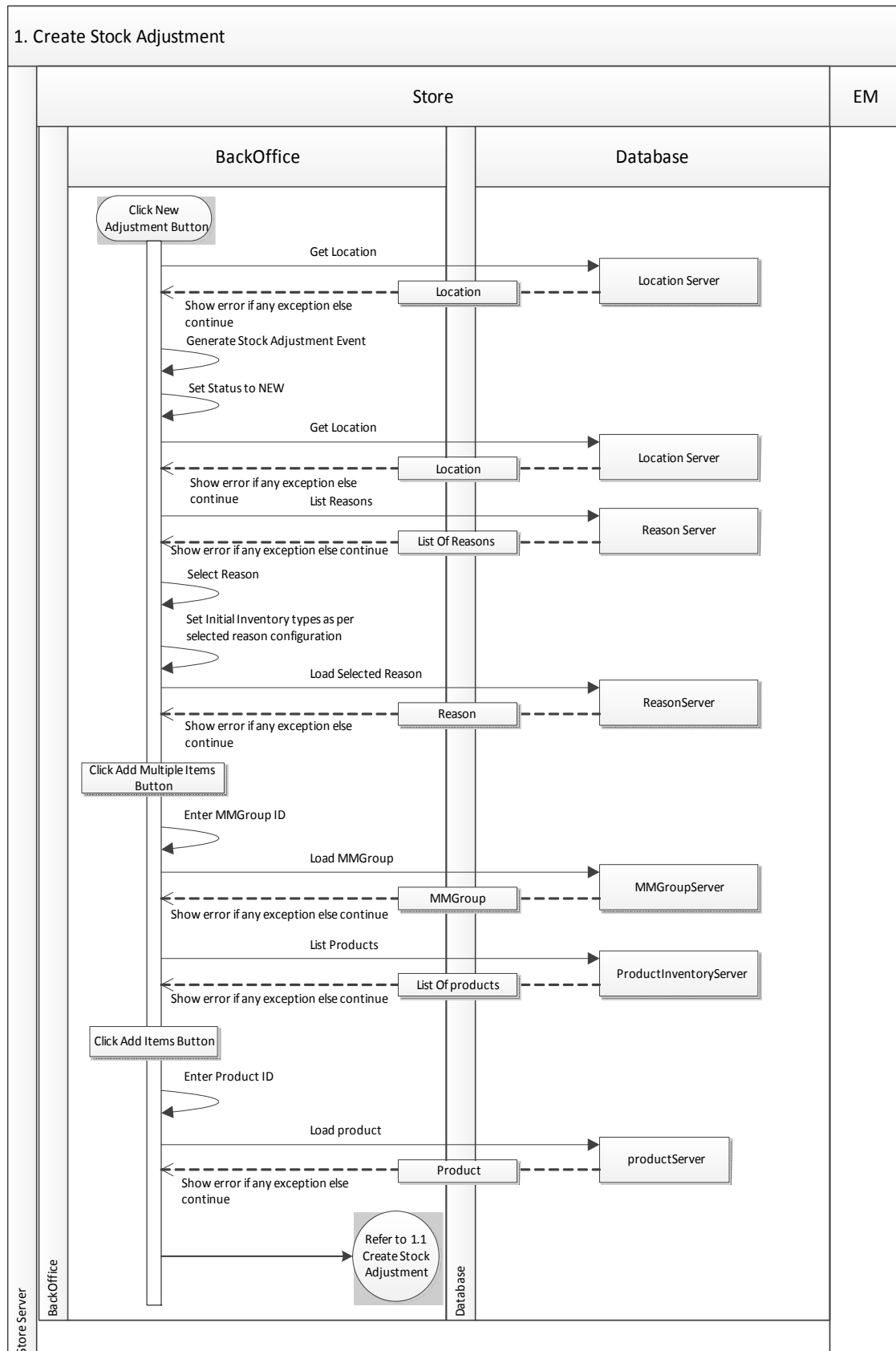
The number of Android Smart Phones in the “Local Stock” virtual inventory location is displayed.

7.0 Process and Data Flows

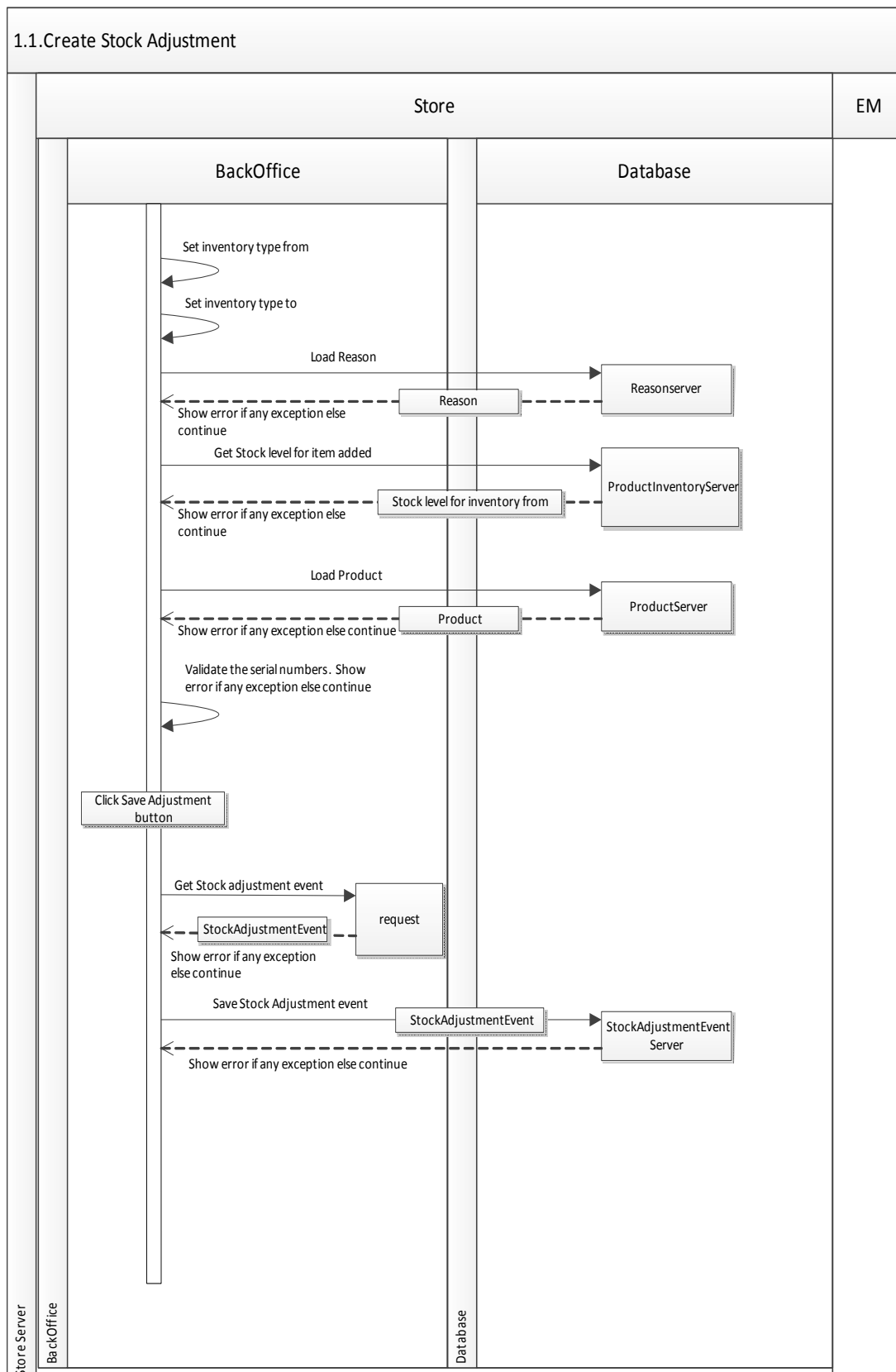
7.1 Main Flow



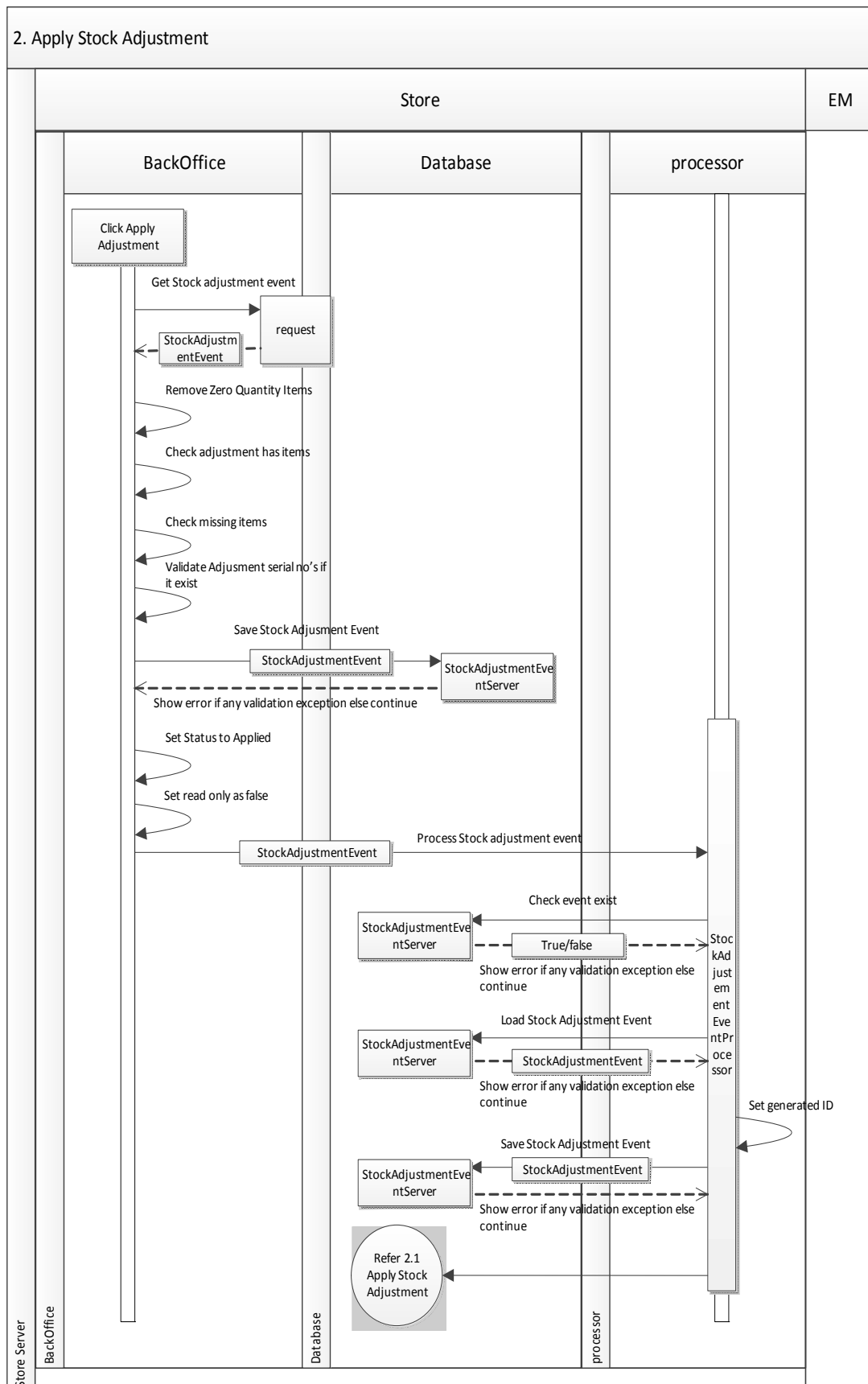
7.2 1. Create Stock Adjustment



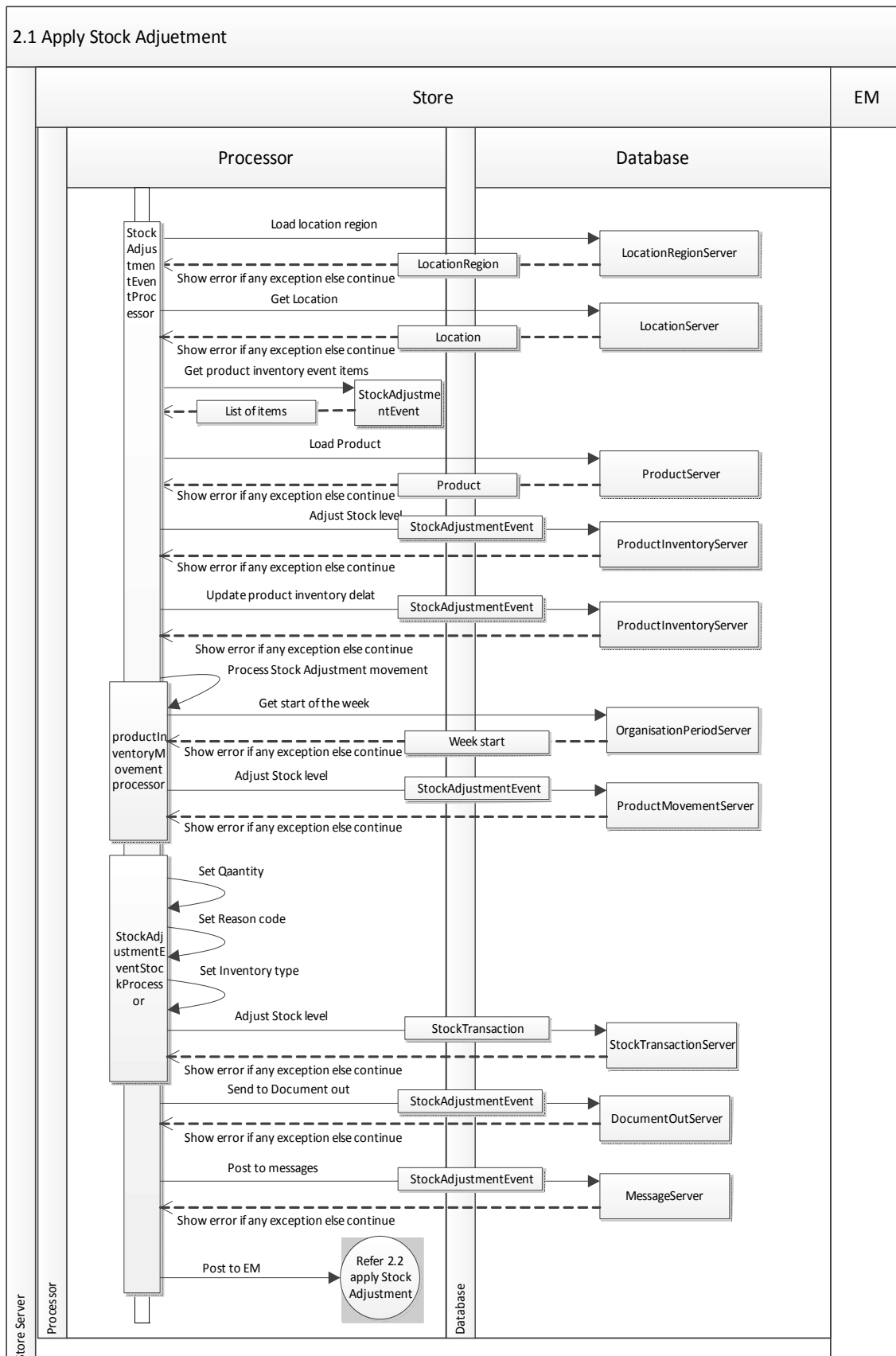
7.3 1.1 Create Stock Adjustment



7.4 2. Apply Stock Adjustment



7.5 2.1 Apply Stock Adjustment



7.6 2.2 Apply Stock Adjustment

