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# Agenda

- Overview of Landed Cost Management
- Test Case
- LCM integration Key Setup Analyzer script and output
- Functional Flow
- Data flow
- Table Mapping
- LCM Transactional Data Diagnostics script and output
- Common issues & FAQs

# Overview of Landed Cost Management

- Cost to “Land” a material on buyers final Location
- Costs Includes:
  - Includes insurance
  - Transportation
  - Handling, storage costs, container fees,
  - Import or Export Charges, Taxes etc...
- Benefits:
  - Maximize Profits
  - Increase Competitiveness
  - Increase Visibility
  - Ensure Compliance

# Overview of Landed Cost Management

- Usage of Oracle LCM:

- LCM as a service:

- Receive goods in Purchasing, calculation of estimated landed costs and generation of LCM Shipment through APIs

- LCM pre-receiving:

- LCM Shipments created manually, charges can be edited manually before receipt of Goods, integrate to PO receipt

- Types of Landed Cost Adjustments:

- Estimated Landed Cost (ELC):

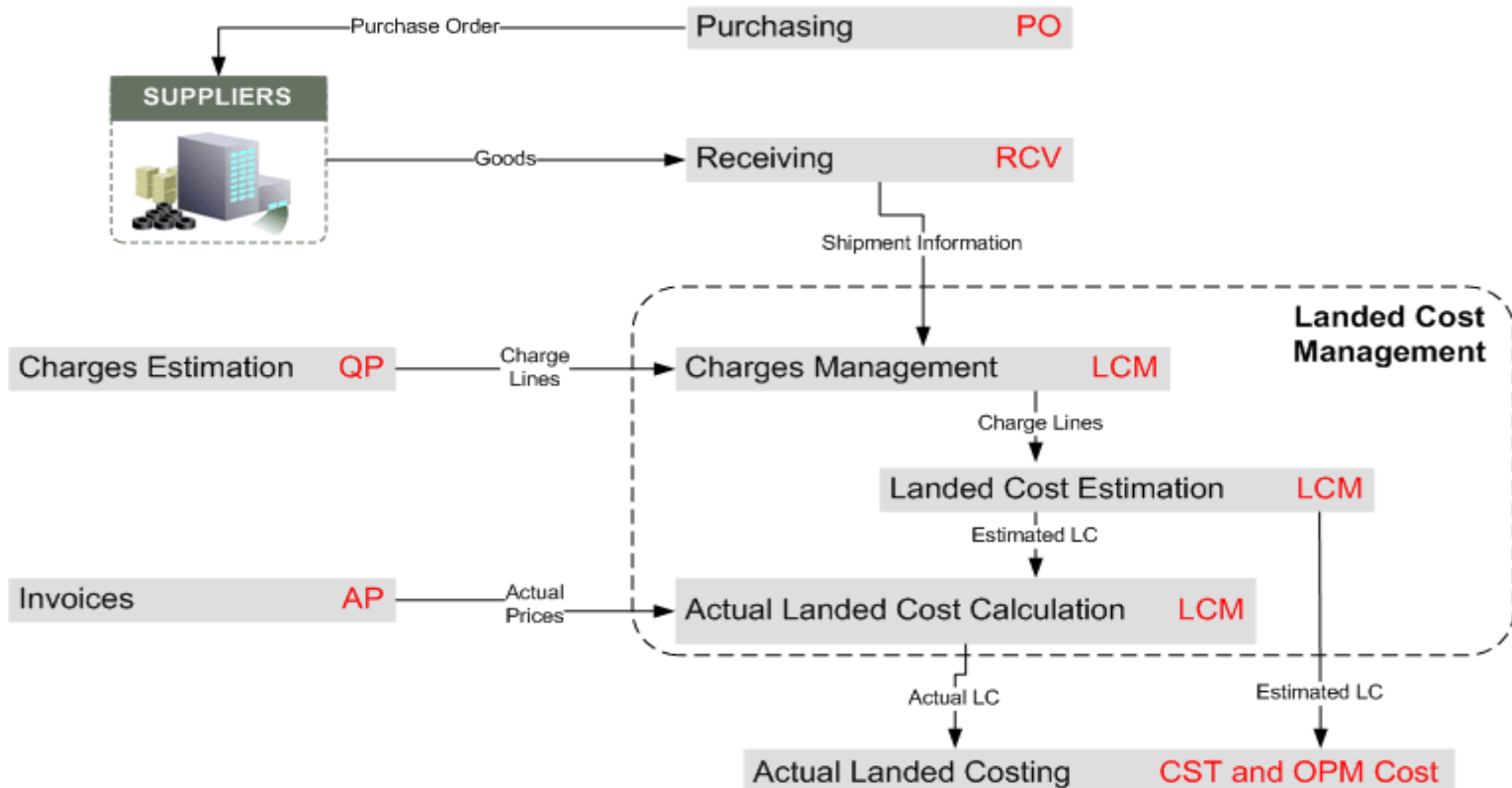
- Calculated at the time of receipt based on one or more estimated charges

- Actual Landed Cost (ALC):

- Calculations based on the actual invoice prices

# Overview of Landed Cost Management

## Integration with Other Oracle Applications:



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# Test Case

Create a PO with Quantity: 100 Each, Unit Price: 100 USD

Setup Cost Factors:

LCM Freight Charges: 10%

LCM Insurance Charges: 200 USD Lumpsum

Estimated Landed Cost ( ELC ) :

Item Price + Freight + Insurance =  $100 \times 100 + 10000 \times .1 + 200 = 11200$  USD

Unit ELC = Total Cost/Quantity =  $11200 / 100 = 112$  USD/Each

AP Invoices:

Invoice#1: Matched with Item Line Type: 11000 USD ( with Item Unit Price: 110)

Invoice#2: Matched with Freight & Miscellaneous: 1400 USD( Freight: 1100, Insurance: 300)

Unit Actual Landed Cost ( ALC):  $(11000 + 1400) / 100 = 124$  USD/Each

# Test Case – Purchase Order

Purchase Orders - 4511

Operating Unit	PRU-Vision Process Ind	Created	10-JUN-2014 07:29:23	P-Card	
PO, Rev	4511 0	Type	Standard Purchase Order	Contact	Murphy, Bob
Supplier	Winters Supply Company	Site	1	Currency	USD
Ship-To	PR4	Bill-To	PR4	Total	10,000.000 [.]
Buyer	Copeland, Ms. Sandra	Status	Approved		
Description					

Lines Price Reference Reference Documents More Agreement Temporary Labor

Num	Type	Item	Rev	Job	Category	Description	UOM	Quantity	Price	
1	Goods	KGLCM05			MISC.MISC	KG LCM Test Item 4	Each	100	100	

# Test Case – Landed Cost Shipments Workbench

Workbench Setup

Simulations Shipments

Landed Cost Details

Operating Unit **PRU-Vision Process Industries (US)**  
Organization **PR4**  
Receiving Location **PR4**

Source Type **Purchase Order**  
Source Order **4511**  
Source Line **1**  
Source Shipment Line **1**

Shipment **71**  
Shipment Date **10-Jun-2014**  
Shipment Type **All Shipments**  
Shipment Status **Completed**  
Shipment Line **1**

Item **KGLCM05**  
Quantity **100**  
UOM **Each**  
Total Amount **11,200.000**  
**Total Unit Landed Cost 112.00000**  
Currency Code **USD**

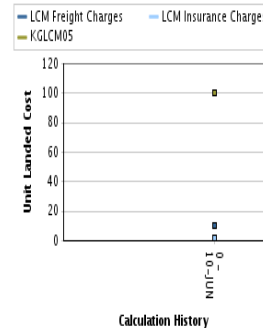
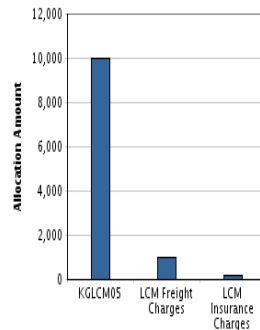
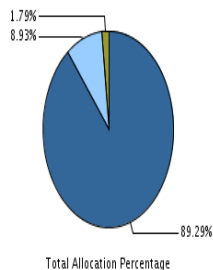
[Personalize Flow Layout: \(AdjHistFlowLayout\)](#)

[Personalize Table: \(AllocationTable\)](#)

Component Reference	Type	Analysis Code	Component Class	Amount	Unit Landed Cost
KGLCM05	Item Price			10,000.000	100.00000
LCM Freight Charges	Charge	FRT	1-FREIGHT	1,000.000	10.00000
LCM Insurance Charges	Charge	INS	1-INSURANCE	200.000	2.00000

[Personalize Stack Layout: \(StackGraphRN\)](#)

■ KGLCM05 ■ LCM Freight Charges  
■ LCM Insurance Charges



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# Test Case – Item Cost

Item Costs (PR4)

Item:

Calendar:

Period:

Cost Type:

☐ Frozen

Total Cost:   /

— This Level

This Level Cost:

Usage Type	Component Class Code	Description	Analysis Code	Component Cost	Cost Origin
Material	1-VITAMIN	Vitamin	VAL	100.000000000	.
Material	1-FREIGHT	Freight	FRT	10.000000000	.
Material	1-INSURANCE	Insurance	INS	2.000000000	.

— Lower Level

Lower Level Cost:


# Test Case - Invoices

Invoice Workbench (OPM All)

Batch Control Total  Batch Actual Total

Type	PO Number	Trading Pa	Supplier Num	Supplier Site	Invoice Date	Invoice Num	Invoice	Invoice Amount	Tax Amount	Tax Control Arr
Standard	4511	Winters Su	5001	1	10-JUN-2014	KGLCM05_01	USD	11,000.000		

1 General 2 Lines 3 Holds 4 View Payments 5 Scheduled Payments 6 View Prepayment Applications

Summary

Items	11,000.000
Retainage	
Prepayments Applied	
Withholding	
Subtotal	11,000.000
Tax	
Freight	
Miscellaneous	
Total	11,000.000

Amount Paid

USD	0.000
USD	0.000

Status

Status	Validated
Accounted	No
Approval	Not Required
Holds	0
Scheduled Payment Holds	0

Description

Actions... 1 Calculate Tax Tax Details Corrections Quick Match Match All Distributions

# Test Case - Invoices

Invoice Workbench (OPM All)

Batch Control Total  Batch Actual Total

Operating Unit	Customer Taxpayer ID	Type	PO Number	Trading Pa	Supplier Num	Supplier Site	Invoice Date	Invoice Num	Invoice
PRU-Vision Process		Standard	4511	Winters Su	5001	1	10-JUN-2014	KGLCM05_02	USD

1 General 2 Lines 3 Holds 4 View Payments 5 Scheduled Payments 6 View Prepayment Applications

Summary

Items

Retainage

Prepayments Applied

Withholding

Subtotal  0.000

Tax

Freight  1,100.000

Miscellaneous  300.000

Total  1,400.000

Amount Paid

USD  0.000

USD  0.000

Status

Status  Validated

Accounted  No

Approval  Not Required

Holds  0

Scheduled Payment Holds  0

Description

Actions... 1 Calculate Tax Tax Details Corrections Quick Match Match All Distributions

# Test Case – Landed Cost Shipments Workbench

Workbench Setup

Simulations Shipments

Landed Cost Details

Operating Unit **PRU-Vision Process Industries (US)**  
Organization **PR4**  
Receiving Location **PR4**

Source Type **Purchase Order**  
Source Order **4511**  
Source Line **1**  
Source Shipment Line **1**

Shipment **71**  
Shipment Date **10-Jun-2014**  
Shipment Type **All Shipments**  
Shipment Status **Completed**  
Shipment Line **1**

Item **KGLCM05**  
Quantity **100**  
UOM **Each**  
Total Amount **12,400,000**  
**Total Unit Landed Cost 124.00000**  
Currency Code **USD**

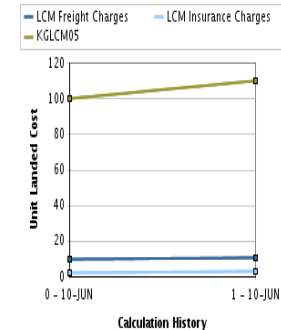
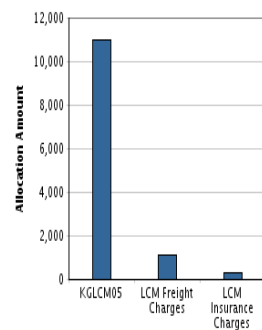
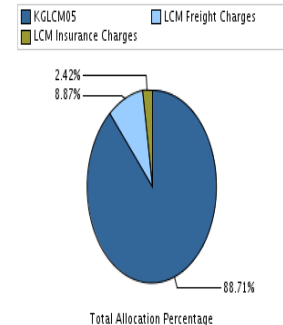
[Personalize Flow Layout: \(AdjHistFlowLayout\)](#)

Unit Landed Cost History 1 - 10-JUN-2014

[Personalize Table: \(AllocationDataTable\)](#)

Component Reference	Type	Analysis Code	Component Class	Amount	Unit Landed Cost
KGLCM05	Item Price			11,000,000	110.00000
LCM Freight Charges	Charge	FRT	1-FREIGHT	1,100,000	11.00000
LCM Insurance Charges	Charge	INS	1-INSURANCE	300,000	3.00000

[Personalize Stack Layout: \(StackGraphRW\)](#)



# Test Case – Landed Cost Shipments Workbench

Workbench

Setup

Simulations

Shipments

Logged In as PROCESS\_OP

### Shipment Hierarchy

Allocations

[Personalize "Allocations"](#)

Operating Unit **PRU-Vision Process Industries (US)**

Organization **PR4**

Receiving Location **PR4**

Shipment **71**

Shipment Date **10-Jun-2014**

Shipment Type **All Shipments**


Shipment Status **Completed**


















Currency Code **USD**

[Personalize H Grid: \(ShipmentsGridRN\)](#)

Actions

[Expand All](#) | [Collapse All](#)



Focus Component Number	Details	Component Type	Component Reference	Item	Estimated Amount	Billed Amount	Actual Amount	Actual History	Primary Qty	Primary UOM	Unit Landed Cost
 71		Shipment	All Shipments								
  1		Line Group	188								
  1		Shipment Line	Item	KGCLM05	11,200.000	12,400.000	12,400.000		100	Each	<a href="#">124.00000</a>
		Shipment Line Allocation	Item	KGCLM05	10,000.000	11,000.000	11,000.000				
		Charge Line Allocation	LCM Freight Charges		1,000.000	1,100.000	1,100.000				
		Charge Line Allocation	LCM Insurance Charges		200.000	300.000	300.000				



# Test Case – Item Cost

Item Costs (PR4)

Item:

Calendar:

Period:

Cost Type:

☐ Frozen

Total Cost:  USD / Ea

This Level

This Level Cost:

Usage Type	Component Class Code	Description	Analysis Code	Component Cost	Cost Origin
Material	1-VITAMIN	Vitamin	VAL	110.000000000	
Material	1-FREIGHT	Freight	FRT	11.000000000	
Material	1-INSURANCE	Insurance	INS	3.000000000	

Lower Level

Lower Level Cost:


# Test Case – Item Cost

Actual Cost Transactions View (PR4)

Item:

Calendar:

Period:

Cost Type:

Item Cost:   /

Prior Period Cost:  /

Prior Period Closing Balance:

Actual Cost Transactions

Source	Orgn	Reference	Component Class Code	Analysis Code	Cost	Quantity
PO Receipts	PR4	188	1-VITAMIN	VAL	100.00000	100.00000
PO Receipts	PR4	188	1-FREIGHT	FRT	10.00000	100.00000
PO Receipts	PR4	188	1-INSURANCE	INS	2.00000	100.00000
Actual LC Adjustment	PR4	71   1   188	1-VITAMIN	VAL	1000.00000	.00000
Actual LC Adjustment	PR4	71   1   188	1-FREIGHT	FRT	100.00000	.00000
Actual LC Adjustment	PR4	71   1   188	1-INSURANCE	INS	100.00000	.00000

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# LCM integration Key Setup Analyzer script and output

**Doc ID 1664410.1 - OPM LCM integration Key Setup Analyzer**

**Doc ID 1677693.1 - Discrete LCM integration Key Setup Analyzer**

- Mandatory Profile Options and Recommended Values.
- Organization Parameters
- Receiving Options
- Cost Factors
- Price Modifiers
- Landed Cost Management Options, LCM Shipment and Shipment Line Types
- Recommended and High Priority Patches
- Important PL/SQL Package Versions

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- Overview of Landed Cost Management
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- **Functional Flow**
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# Functional Flow– LCM As a Service

- A. Receipt Process:***
- B. Import Into Inventory/Costing – Estimated LC:***
- C. Actual Invoice and Matching:***
- D. Import into Inventory/Costing – Actual LC:***

# Functional Flow – LCM As a Service

## A. *Receipt Process:*

Responsibility: Purchasing

- Create and approve a Purchase order.
- Receive PO.
- Run “Landed cost Integration Manager” to interface the Shipments to LCM.

Responsibility: Landed Cost Management

- Run “Shipments Interface Import” to create a LCM shipment and to calculate the charges.
- Run "Receiving Transaction Processor" ( to deliver the LCM shipment) and to update the RCV shipments with ELC
- Verify the shipment created, charges and estimated landed Cost ( ELC) calculated

# Functional Flow - LCM As a Service

## ***B. Import Into Inventory/OPM Financials – Estimated LC:***

Responsibility: Inventory

Material Transaction Manager

Responsibility: OPM Financials

Run "Landed Cost Adjustments Import Process" into OPM Financials

Run Actual cost Process and verify the item cost details along with the ELC adjustments



# Functional Flow - LCM As a Service

## ***B. Import Into Inventory/Costing – Estimated LC:***

Responsibility: Inventory

- Material Transaction Manager

Responsibility: Cost Management

- Cost Manager

# Functional Flow– LCM As a Service

## ***C. Actual Invoice and Matching:***

Responsibility: Account Payables

- Create AP Invoices and match for Item price and other charges.
- Validate Invoice for Item and other charges.

Responsibility: Landed Cost Management

- Run “Matches Interface Import” to import the actual invoice amounts from INL Interface tables.
- Run “Submit Pending Shipments” to populate actual Landed cost and the Actual landed cost adjustments

# Functional Flow– LCM As a Service

## ***D. Import into Inventory/OPM Financials – Actual LC:***

Responsibility: OPM Financials

- Run "Landed Cost Adjustments Import Process" into OPM Financials
- Run Actual cost Process and verify the Item cost details with Actual LC adjustments.
- Run cost update
- Run OPM Accounting Pre-processor
- Run "Detailed Sub-ledger Report" to verify the accounting events
- Run the Create Accounting process in order to generate the accounting transactions

# Functional Flow– LCM As a Service

## *D. Import into Inventory/Costing – Actual LC:*

Responsibility: Inventory

- Material Transaction Manager

Responsibility: Cost Management

- Cost Manager

# Functional Flow – LCM Pre-receiving

## ***A. Receipt Process:***

**Responsibility: Purchasing** - Create and Approve Purchase Order

**Responsibility: Landed Cost Management**

- Create LCM shipments in LCM workbench
- Generate charges by choosing "Generate Charges" so that the QP will be called to calculate the estimated landed cost. If Advanced Pricing is not used, charges has to be manually entered by choosing the 'Manage Shipments' option.
- Submit the LCM shipments ( Generates Unit LC and populates RTI)
- RTP Submitted On-line mode ( Populates RCV shipments with ULC and SLS as Expected.
- Query LCM shipment Number with Source as LCM in Receipts form and save the Receipt ( Populate RTI).
- RTP submitted ( RSH gets updated with Receipt number and SLS as Fully Received)

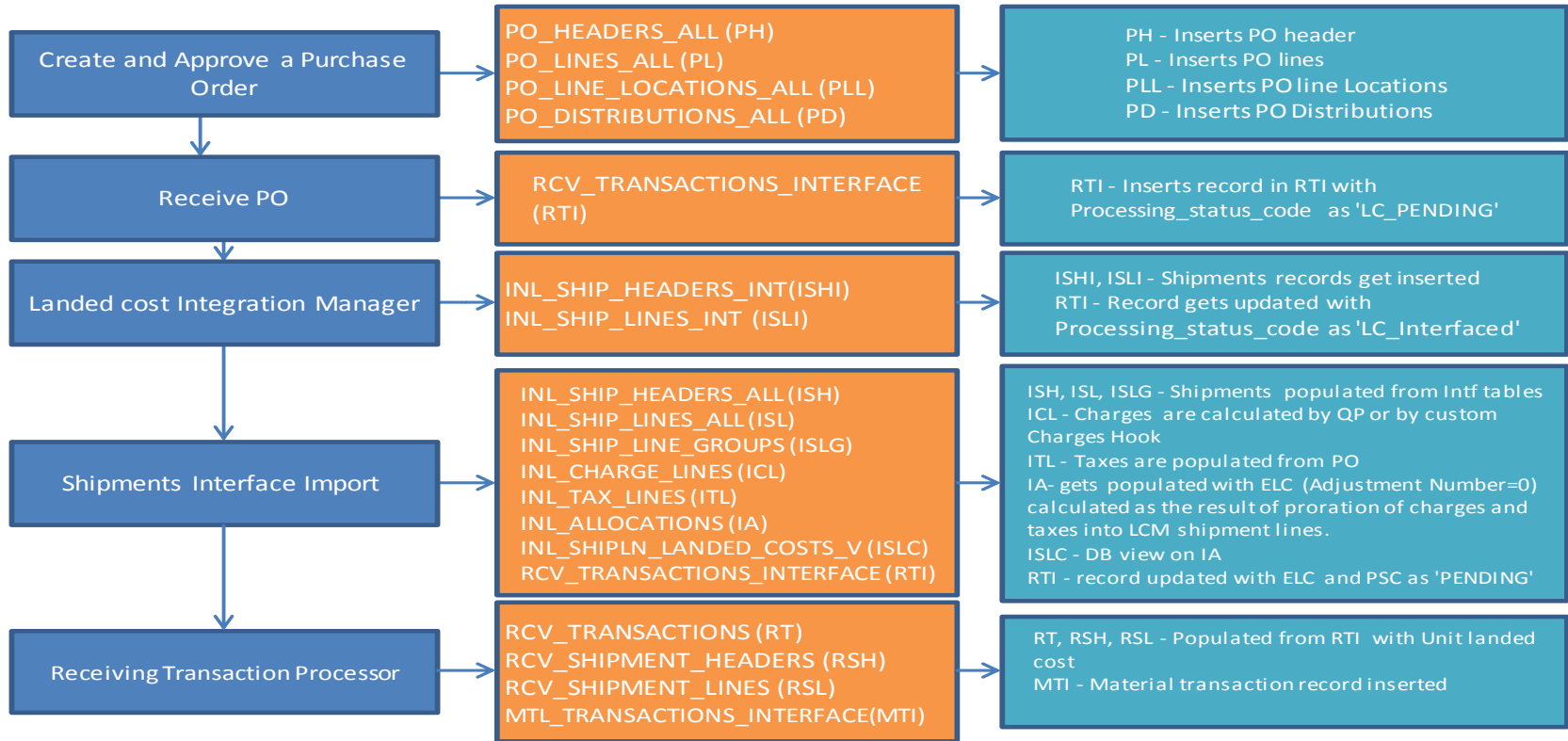
Subsequent processes which are **B.Import Into Inventory/Costing – Estimated LC, C.Actual Invoice and Matching D.Import into Inventory/Costing – Actual LC** same for OPM and Discrete costing.

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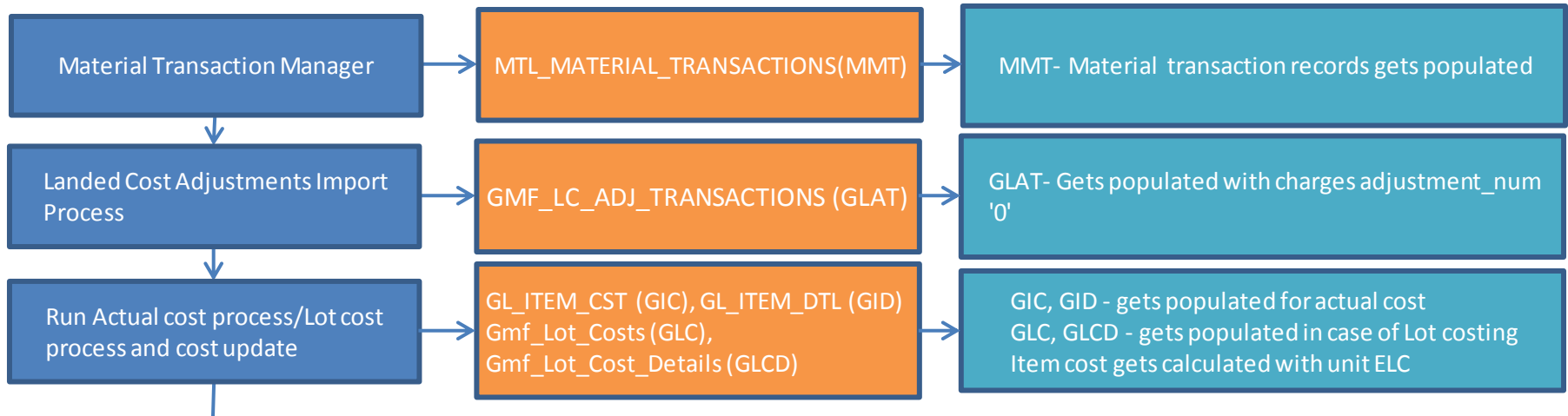
# Data Flow – LCM As Service

## A. LCM As Service - Receipt Process



# Data Flow – LCM As Service

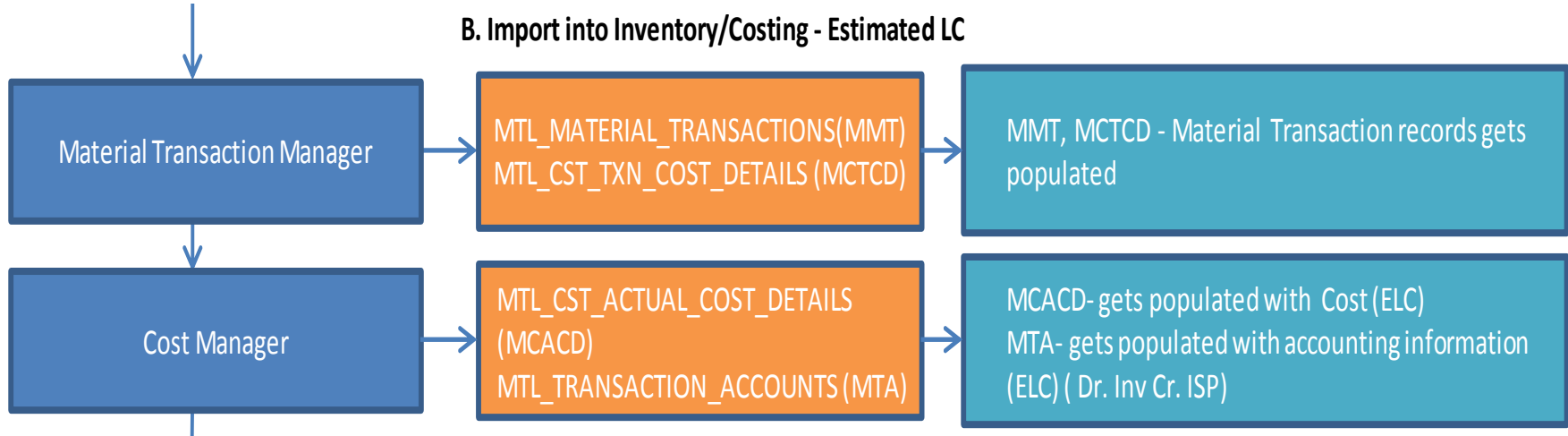
## B. Import into OPM - Estimated LC



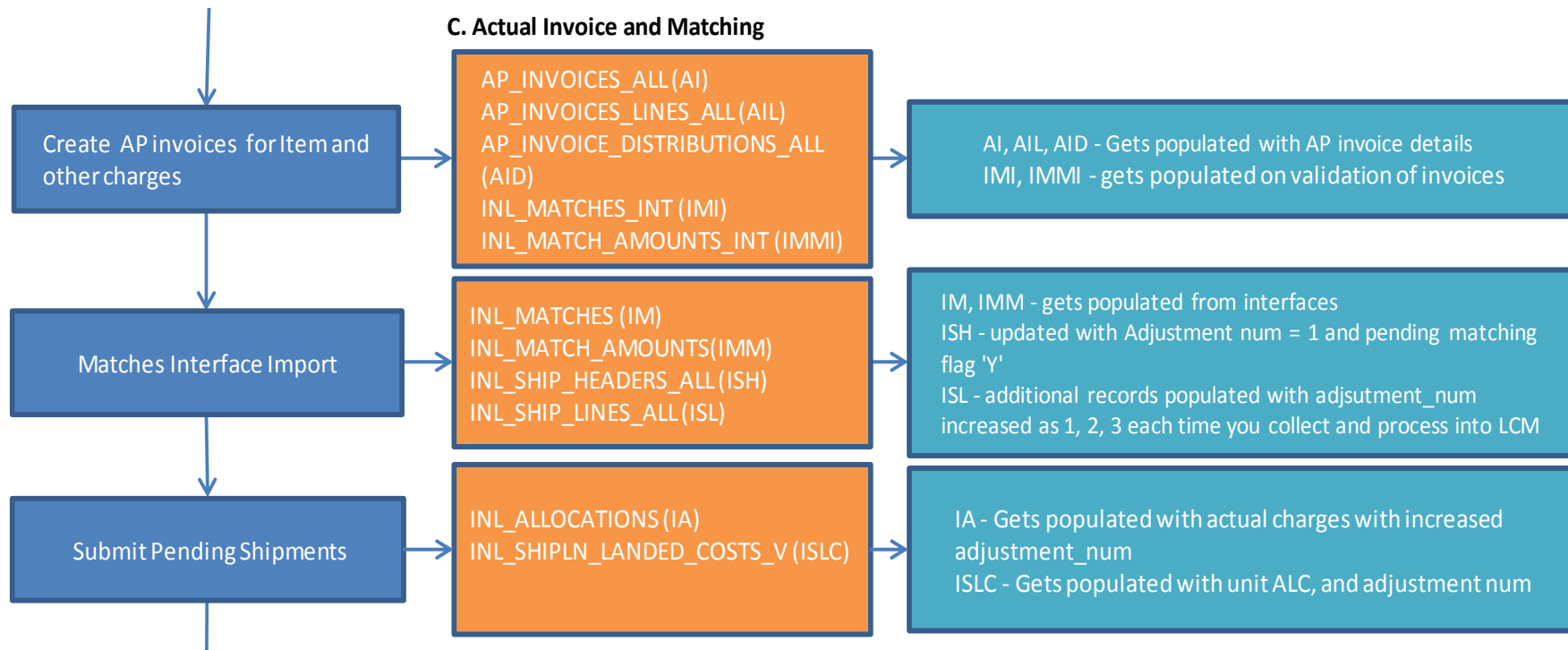


# Data Flow – LCM As Service

## B. Import into Inventory/Costing - Estimated LC

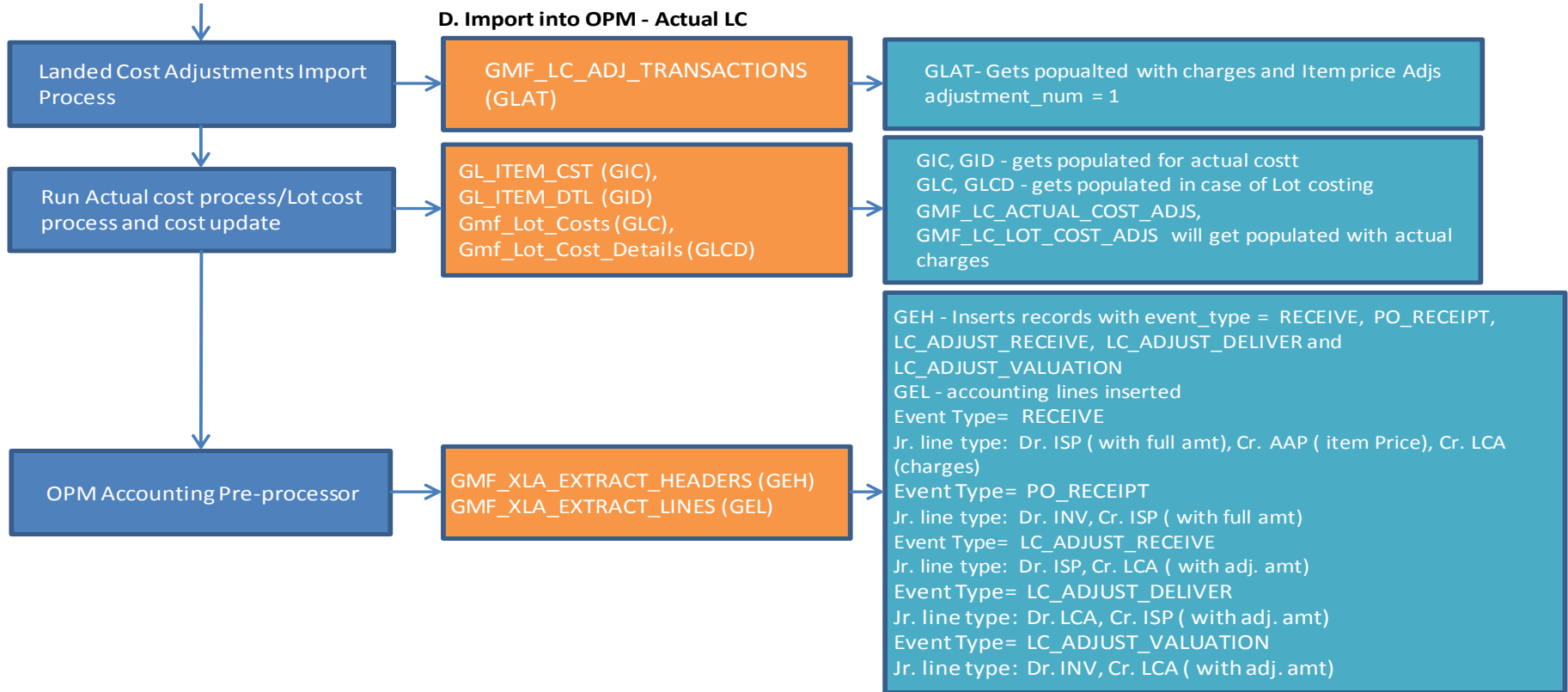


# Data Flow – LCM As Service

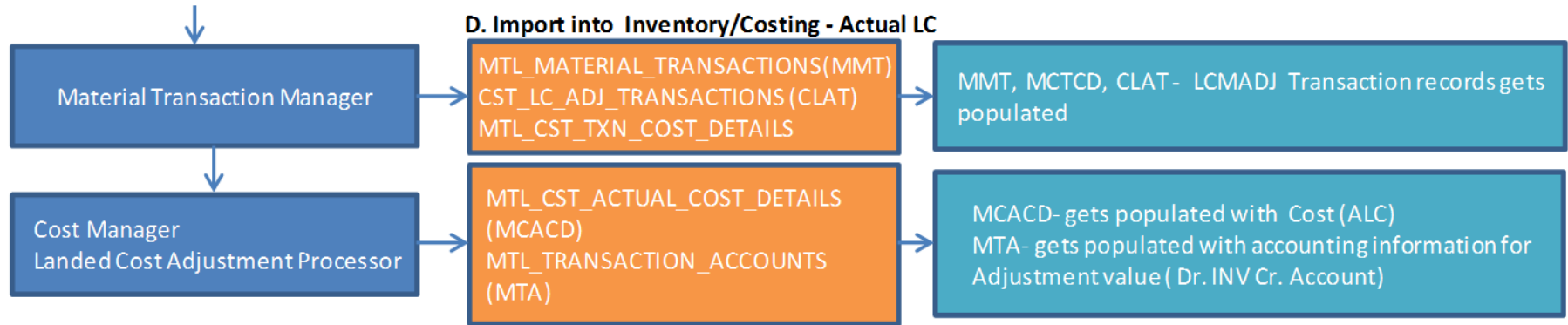


# Data Flow – LCM As Service

## D. Import into OPM - Actual LC

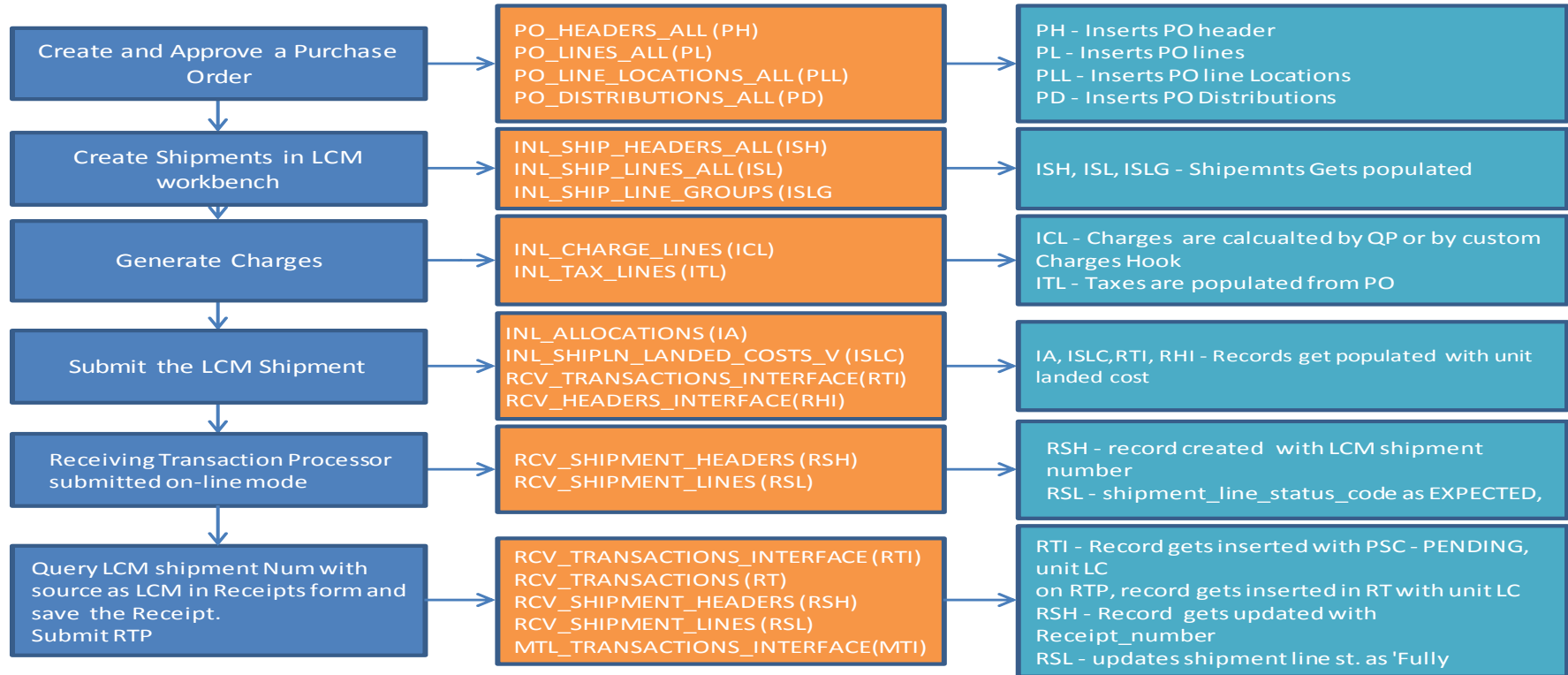


# Data Flow – LCM As Service



# Data Flow – LCM Pre-receiving

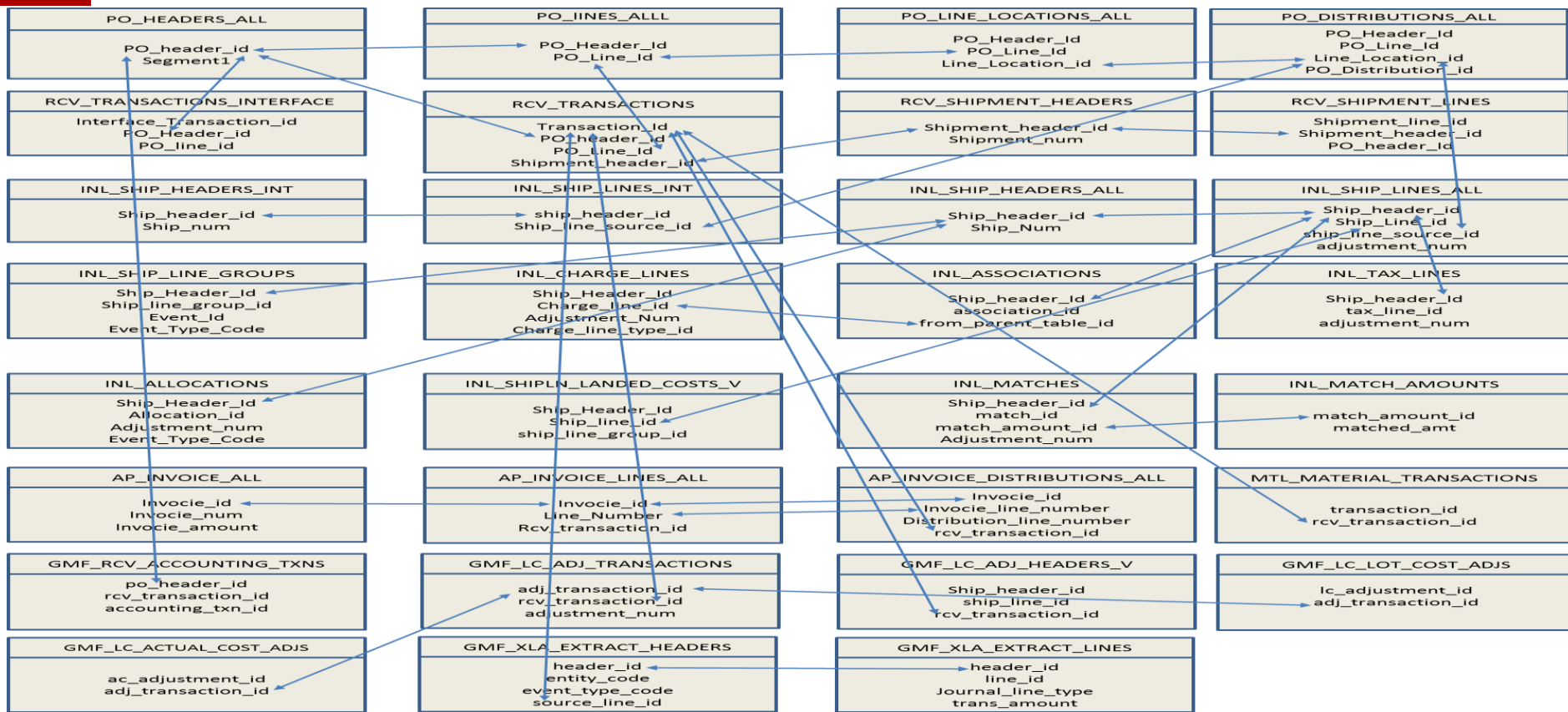
## A. LCM Pre-Receiving - Receipt Process



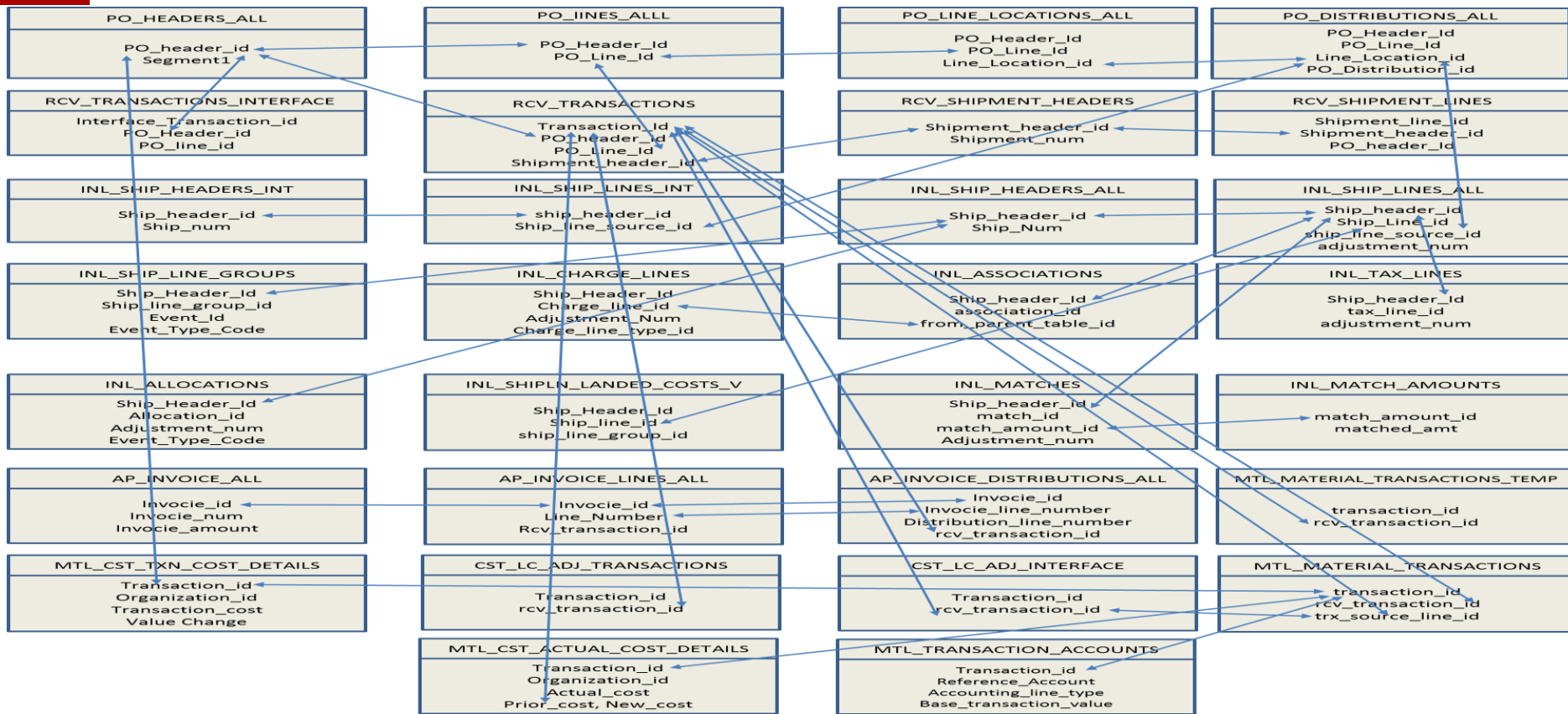
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# Table Mapping - OPM



# Table Mapping - Discrete





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# LCM Transactional Data Diagnostics script and output

**Doc ID 1664499.1 - OPM LCM Transactional Data Diagnostics**

**Doc ID 1677699.1 - Discrete LCM Transactional Data Diagnostics**

- Very crucial information across modules ( PO, AP, LCM, OPM, Discrete) for respective PO's
- Helpful in terms of interface status across PO/LCM/AP/OPM and Discrete
- Single snapshot, presented in HTML format
- Each segment has been arranged logically along with flow of data, user friendly
- Helpful in identifying data corruptions, conversion issue, stuck transactions etc..

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# Common Issues & Frequently Asked Questions

## Common issues

- How can we make use of this script output analysis? Say problem is like duplicate or landed cost doubled what to look at in script output.
- GMF\_LC\_ADJ\_TRANSACTIONS is a key table which holds the LC adjustment transactions into OPM. Verify whether rows are in synch or any abnormal data exist in this table through the script output.
- When charges are in different currency, not converted properly.
- Check whether GMF\_LC\_ADJ\_TRANSACTIONS has currency conversion rate stamped properly or not.

# Common Issues & Frequently Asked Questions

## FAQ:

- What is the sequence of execution of the requests “Matches Interface Import” and “Submit Pending Shipments”?
  - Matches Interface import should be executed first to import the ALC adjustments from AP invoices into LCM.
  - Once the program is completed then submit Pending Shipments to include the ALC adjustments in LCM shipments.

# Common Issues & Frequently Asked Questions

## FAQ:

### ➤ **How landed cost is integrated with OPM Standard costing, and OPM lot costing?**

- In OPM Standard costing there is no costing impact as such however base Journals may appear (landed cost adjustments). As invoice variance will not effect item cost, posting of Inventory valuation event is not done. This will not have any impact on inventory valuation account and period closing activity for standard costing customers. For lot costing yes it works where differences of item price are captured as landed cost adjustments
- **Can LCM support item invoices and charge invoices in different currencies?**
- Oracle EBS Accounts Payable does not currently support the ability to receive charge invoices in a different currency from the product invoice itself.

Please refer to the My Oracle Support [Document 1383061.1](#) How to Associate Receipt Lines with an Invoice if the Invoice Currency is Different from the Purchase Order Currency.

## Common Issues & Frequently Asked Questions

### FAQ:

#### ➤ Whether landed cost integration with OPM supports multi currency ?

- LCM integration supports scenario like base currency is AED, PO item is in USD where as charges invoices are in AED, **Yes**, this is supported.

#### ➤ Whether Receipt Quantity Correction will get reflected in Landed Cost for LCM As pre receiving ?

To explain it by example, If the receipt correction is made to Receipt against shipment, original shipment quantity received is 100 & made negative receipt correction of 20 quantity to the LCM shipment in that case the quantity corrected will get reflected in LCM against that shipment and also the LCM charges will get applied proportionately to 80 quantity instead of earlier 100 quantity as 20 qty is corrected.

# Summary

## What we covered today

- Overview of LCM functionality
- Usage of LCM integration Key Setup Analyzer Script
- Functional Flow, Dataflow and Table Mapping
- Usage of LCM Transactional Data Diagnostics script and output.
- Common Issues and FAQs





# Q & A

**THANK YOU**