When a unit is shipped from factory to AH, shipping message is sent from GALC to YMS application and unit is then received and assigned to a dealer by AHM as the unit moves thru different phases (AH receive, Park Change, Dealer Assign, Shipment Confirm, Factory Return) a status message is generated by YMS application and sent to GALC.

GALC SHIPPING TERMINAL

\*Note \* I added this arrow to reflect ‘status message’ via the Microservice

Shipping Message

Ship Message

Status Message

LC-Sales-interface Microservice

NEW YMS Application

PRO ACT

AHM Mainframe

PPO

* When a unit is processed at GALC Shipping terminal broadcasts message to local MQ which would be consumed by LC-Sales-interface microservice, processed to retrieve additional data, and generate shipping message to add to YMS input message Queue.
* When a unit is received by AH and as unit moves thru the process status messages are generated and added to YMS output message Queue which are consumed by new microservice, processed to update unit data and status within GALC.

Shipping Message Format: {

"transaction": {

"destination\_environment": "TEST",

"destination\_site": "YMS",

"plant\_id": "A",

“Line id”: “1”

"transaction\_code": "VQ-SHIP",

"description": "50A or VQ SHIP",

"transaction\_timestamp": "2023-10-02T12:00:00"

},

"vehicle": {

"vin": "5FPYK3650PB900143",

"model\_id": "YK365PJN",

"model\_type": "KK",

"model\_option": "",

"color\_code": "B-588P",

"engine\_number": "8712091",

"key\_number": "000L128",

"issue\_date": "221101",

“adc\_process\_code”:””

"product\_lot\_number": "122101801400",

"kd\_lot\_number": "122101833",

"price": "2877743",

"assembly\_off\_date": "221024",

“ccc\_number”:””,

“parts\_installed”:””,

“purchase\_contract\_number”:””,

“fif\_codes”:””,

"timestamp": "2023-10-02T12:00:00"}}

Status Message

{

"transaction": {

"destination\_environment": "TEST",

"destination\_site": "GALC",

"plant\_id": "A",

"transaction\_code": "AH-REVD",

"description": "AH received",

"transaction\_timestamp": "2023-10-02T12:00:00"

},

"vehicle": {

"flag": "",

"vin": "5FNYG2H71PB",

"frame": "O36908",

"ship\_date": "2023-12-23",

"parking\_bay": "A84",

"parking\_space": "008",

"control\_number": "174231",

"dealer\_number": "208095",

"ship\_type": "1",

"odc\_code": "",

"timestamp": "2023-10-02T12:00:00"

}

}

Shipping Transaction Task:

* Read and parse message received from GALC Queue
* Generate Message
* Put message to YMS input Queue.
* Update Shipping Transaction Table
* Update Shipping Status Table

Receiving Transaction Task:

* Read and Parse status message received from YMS output Queue.
* Process Message retrieve status Type
* If **AHM receive** status, then.

Start

Find Vin

Is Vin VQ Shipped?

Collect Errors Message and Email

Call Tracking Service

Update Shipping Status Table

End

* If **AH Parking Change** status, then.

Parse message to Create or Update Park Change record for the Vin.

* If **Dealer Assign** status, then.

Start

Find Vin

Vin Status >=DLR-ASSN

Vin Status = =INIT

Collect Errors Message and Email

Process Frame Ship Confirmation

Call Tracking Service

Update Shipping Status Table

End

* If **Shipment Confirm** status, then.

Vin Status = =INIT

Start

Collect Errors Message and Email

Vin Status >=AH-SHIP

Find Vin

Update Shipping Status Table

Delete records from ShippingTransactionTable, ParkChangeTable, InProcessProductTable

Process Frame Ship Confirmation

Call Tracking Service

End

* If **Factory Return** Status, then.

Start

Find Vin

End

Insert in Repair Record.

Delete ParkChange data

set sended flag to ‘N’ in ShippingTransactionTable

Call Tracking Service

validate and update ShippingStatusTable

Collect Errors Message and Email

Vin Status = =INIT

Vin Status >=AH-SHIP

Reset installed parts status.

Vin Status >=AH-SHIP

