Performance Test Plan: Ross Apps 8.0.2 Release

10/18/2021

Version Control

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**Sign-Off**

|  |  |  |  |  |
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# Introduction

The objective of this document is to present the plan for performing the performance test across product lines in the organization. This document will prepared upon receipt of the detailed requirement for the performance test to be conducted. This document will be prepared by the performance tester of the team before starting the testing process and once finalized has to be signed off by the product stakeholders.

## 1.1 Purpose of the Project

Ross is a product designed to support manufacturers that work with recipes and formulas to help successfully manage the variability and complexities of the products and processes as well as accurately account for all raw material and finished products—which will significantly improve production scalability and product costing and traceability.

## 1.2 Purpose of the Test Plan Document

This Test Plan documents and tracks the necessary information required to effectively define the performance testing activities performed during the Ross Apps 8.0.2 Release Project.

# Project Scope

## Items In scope

This section defines the items which are in scope of performance testing for the Ross 8.0.2 release.

Key Business transactions that is mentioned in [section 4.7](#_Critical_Business_Process)  to be carried out as per the transaction and user matrix given in [section 4.4](#_Business_Process_/) in the test environment identified in [section 4.1](#_Test_Environment_Setup) and the performance needs to be monitored and compared against the acceptance criteria or standards that is mentioned in [section 4.3.](#_Acceptance_Criteria)

## Items Out of scope

The following item are out of scope of Performance testing for the current release

1. All other items not explicitly mentioned in the “Items in the scope” are deemed to be out of scope for the current release.
2. Any legacy or existing performance issues are out of scope for this release, unless it turns out to be a severe one in this release.

## Timelines

Below table gives the high level time lines for performance testing

|  |  |  |  |
| --- | --- | --- | --- |
| Activities | Start Date | End Date | Comments |
| Environment Setup/Validation | 20/10/2021 | 26/10/2021 | Env would be setup with IAF 9.3.12 and ERP 8.0.2. Ross 8.0.2 final deliverables will be applied on top of it. |
| Scripting | 27/10/2021 | 21/12/2021 | During development sprints itself. |
| Data Setup/Scenario Creation | 21/12/2021 | 30/12/2021 | During development sprints itself. |
| Execution and Analysis | 2/01/2021 | 8/01/2021 | Execution of scenarios would be done in sprint as the sprint progresses.  Note: Execution will be done in each sprint based on scripting process |
| Reporting | 9/01/2021 | 10/01/2021 |  |

# Performance Test Approach

The entire activity will be done in 2 phases

Phase 1:

Script the identified critical business processes, run them on Ross ERP 8.0.1 version to simulate concurrent execution of the use cases, observe the impact on the application under load and finally arrive at the baseline values. The load test will be run for a duration of 1 to 2 hours and performance parameters will be captured for analysis.

Phase 2:

The baseline tests will be executed on Ross ERP 8.0.2 to capture all the identified performance metrics, compare them with the Ross ERP 8.0.1 baseline values and report them.

# Requirements Specification

## Test Environment Setup

Below is the performance test environment configuration identified after understanding the customer/ production like environment configuration, based on the inputs that are provided by SMS team.

|  |  |  |
| --- | --- | --- |
| Server Details | Performance Set Up (Server Configuration | |
| Web/App Server Configuration | DB Server Configuration |
| Application Server | Ross  IAF 9.3.12  ERP 8.0.2  .NET framework – 4.7.2 | NA |
| DB Server | NA | Ross FIN and MAN DBs |
| Operation System | Windows Server 2016 | Windows Server 2016 |
| Database size | NA | 24.4 GB(man DB)  106.5 GB(Fin DB) |
| CPU Core(s) | 4 (V core) | 8 Cores |
| Logical Processor(s) |  |  |
| Memory (GB) | 16 GB | 16 GB |
| Host Name | 52.177.112.61  rossrndsqapp03 | rossrndsqsql01  52.247.28.38  rosssql01.eastus2.cloudapp.azure.com |
| Disk Space | 150GB | 250GB |

## Test Data

Below is the Test data used for Performance testing.

|  |  |  |
| --- | --- | --- |
| Source of Test Data | Size of Test Data | Comments |
| From a customer’s DB copy | 24.4 GB(man DB)  106.5 GB(Fin DB) |  |

## Acceptance Criteria

|  |  |  |
| --- | --- | --- |
| **Performance Parameter List** | **SLA** | **SLA References** |
| Response time SLA for each transaction Records | <=3 Seconds |  |
| Memory Usage Thresholds % | <=75% |  |
| CPU Usage Threshold % | <=75% |  |
| Total Transactions need to Achieved/ Expected Through Put | Please refer to Matrix 4.4 |  |
| Total Number of Use Cases | Please refer to Matrix 4.4 |  |

## Work load Model

The script runs are to be performed for various users/ use cases as defined in the below matrix.

| SL No | Critical Business Processes based on MF | Transaction target/ hour | | #of users |
| --- | --- | --- | --- | --- |
| 1. | PO maintenance to Modify dates to PO lines from header | Transaction | 200 | 2 |
| 2. | Material Issue with substitution products | Transaction | 200 | 2 |
| 3. | DC Material Issue with substitution products | Transaction | 200 | 2 |
| 4. | Trace cost for Principal product output | Transaction | 10 | 2 |
| 5. | Non DC Lot Conversion for products | Transaction | 60 | 1 |
| 6. | DC Lot Conversion for products | Transaction | 60 | 1 |
| 7. | Tolerance check during material input – Amend Pick List | Transaction | 200 | 2 |
| 8. | Tolerance check during material input – Material Issue | Transaction | 200 | 2 |
| 9. | Tolerance check during material input – Manual Lot Allocation | Transaction | 200 | 2 |
| 10. | Create Sales Order | Common Transaction | 200 | 3 |
| 11. | Create Purchase Order | Common Transaction | 200 | 2 |
| 12. | Create Jobs | Common Transaction | 200 | 2 |
| 13. | Invoice entry - AR Module | Common Transaction | 200 | 2 |
| 14. | Warehouse Transfer | Common Transaction | 200 | 2 |
| 15. | Multi-Line Transaction | Common Transaction | 100 | 2 |
| 16. | Ship note creation and confirm from SO | Common Transaction | 200 | 2 |
| 17. | Invoice Creation from shipment | Common Transaction | 200 | 1 |
| 18. | GRN from PO | Common Transaction | 200 | 2 |
| 19. | Invoice from PO GRN | Common Transaction | 200 | 2 |
| 20. | Stage Count And Approve Count for Non-DC | Common Transaction | 200 | 2 |
| 21. | Partial job close | Common Transaction | 200 | 2 |
| 22. | Final job close | Common Transaction | 200 | 2 |
| 23. | DC Material Issue | Common Transaction | 200 | 2 |
| 24. | DC Partial close | Common Transaction | 200 | 2 |
| 25. | DC POP Receiving | Common Transaction | 200 | 2 |
| 26. | Pick and Confirm shipment DC Module | Common Transaction | 200 | 2 |
|  | Total |  |  | 50 |

## Non-Functional Testing In Scope

Below are the performance tests that are in scope for this release

|  |  |  |
| --- | --- | --- |
| Performance Test Type | In Scope | Comments |
| Load Test |  |  |
| Stress Test |  |  |
| Endurance Test |  |  |
| Scalability Test |  |  |
| Spike Test |  |  |  |

## Testing Tools

Below are the testing tools

|  |  |
| --- | --- |
| Performance Testing Tools | Purpose |
| Load Runner | Performance Script Creation & Test Executions |
| Protocol Used | Web Http/HTML |

## Critical Business Process / Marketable feature

The following are identified as the critical business processed with in the core modules defined above.

**UC001:- PO maintenance to Modify dates to PO lines from header**

Pre-Requisite:- Purchase Order should be created

1. Launch the Application in Chrome.
2. Enter the login credentials and login to the application.
3. In Table of Contents section, navigate to Master > Purchasing > Orders. And open the facility “Create PO”. Just click on it.
4. Click on “Modify an Existing Order” option from the displayed sub menu
5. Enter the value “10” in the Division field and Press Tab.
6. Enter the value PO Number obtained in the prerequisite in the PO Number filed and Click F3.
7. Click on order dates in the submenu.
8. Click on NO Button in the correct.
9. Enter the value “+1” in the order date field and Press Tab.
10. Enter the value “+5” in the Required date field and Press Tab.
11. Enter the value “+7” in the Promise date field and Press Tab.
12. Click on Yes Button in the update lines date.
13. Click on Yes button in the Correct.
14. Click on Next Order from the submenu.
15. Click on Exit option from the submenu.
16. Log Out from the Application.

**UC002:- Material Issue with substitution products**

Pre-Requisite: Job Number has been created.

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Manufacturing > Input > Material> And open the facility “Material Isuue” Just click on it.
4. Enter the value “10” in the Factory field and Press Tab.
5. Enter the Job Number which is obtained from the Pre-requisite in the Job Number field and Press Tab.
6. Enter the value “RG” in the Process Stag field and Press F3.
7. Now double click on the Non DC Line in the grid.
8. Click on substitute option from the submenu.
9. Click on Tab.
10. Enter the value “RG” in the Warehouse field and Press Tab.
11. Enter the value “PERF\_SUBSTITUTE” in the product field and Press Tab.
12. Click on Exit Forward.
13. Click on No Button in the close lines after Issue.
14. Click on Yes button in the confirm.
15. Double click on the line in the grid.
16. Click Exit Forward.
17. Click Yes Button.
18. Double click on the line in the grid.
19. Click Exit Forward.
20. Click Yes Button.
21. Click Exit Forward.
22. Click Exit Forward.
23. Click Exit Forward.
24. Click Exit Backward.
25. Logout from the Application.

**UC003:- DC Material Issue with substitution products**

Pre-Requisite: Job Number has been created.

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Data Collection > Manufacturing > open the facility “Mat. Issue w/Substitution”. Just click on it.
4. Enter the Job Number obtained from the prerequisite in the Job Number Field and Press Tab.
5. Enter the value “Perf\_Input” in the Sub Field and Press Tab.
6. Enter the value “Sub” in the LPN Field and Press Tab.
7. Click on the “Substitute material issue” option from the submenu.
8. Double click on line in the grid.
9. Click on Exit Forward.
10. Click on Update option from the submenu.
11. Click on Exit Backward.
12. Logout from the Application.

**UC004:- Trace Cost for Principal product output**

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Product Casting > Trace cost Just click on it.
4. Enter the value “RG” in the warehouse field and Press Tab.
5. Enter the value “costtrace\_outp2” in the product field and Press F3.
6. Right click on the line in the grid.
7. Click on Trace cost option.
8. Click on Exit forward.
9. Click on Exit forward.
10. Click on Exit backward.
11. Logout from the Application.

**UC005:- Non DC Lot Conversion for products**

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Inventory > Transactions > Lot Conversion. Just click on it.
4. Enter the value “RG” in the Warehouse field and Press Tab
5. Enter the value “RGS” in the Product field and Press F3.
6. Click on Yes button in the please confirm option.
7. Click on insert icon in the input lot grid.
8. Enter the value “L1” in the Lot Number field and Press Tab.
9. Enter the value “B1” in the Bin Field and Press Tab.
10. Enter the value “1” in the Movement quantity field and Press Tab.
11. Click on Exit backward.
12. Click on Exit Forward.
13. Click on insert icon from the output grid.
14. Click on Tab from the unit cost.
15. Click on use an existing lot option from the submenu.
16. Enter the value “L4” in the Lot Number and Press F3.
17. Click on Yes Button.
18. Enter the value “1” in the Movement quantity field and Press F3.
19. Click on Exit Backward.
20. Click on Exit Forward.
21. Click on Yes Button in the Proceed with Update option.
22. Enter the value “B1” in the bin and Press F3.
23. Double click on line in the Assign RGS L4 to Bins grid.
24. Enter the value “1” in the Movement quantity field and Press F3.
25. Click on Exit Backward.
26. Logout from the Application.

**UC006:-DC Lot Conversion for products**

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Data Collection > Inventory Controls > Lot Conversion. Just click on it.
4. Enter the value “RGS” in the product field and Press Tab.
5. Click on “Inputs” option from the submenu.
6. Enter the value “RGS” in the LPN Field and Press Tab.
7. Enter the value “1” in the quantity field and press F3.
8. Click on “Continue” option from the submenu.
9. Click on “Outputs” option from the submenu.
10. Enter the value “L2” in the Lot field and press tab.
11. Enter the value “1” in the quantity field and press tab.
12. Enter the value “RGSOUTPUT” in the LPN field and press tab.
13. Click on “Continue” option from the submenu.
14. Click on “Update” option from the submenu.
15. Click on exit backward.
16. Logout from the Application.

**UC007:- Tolerance check during material input – Amend Pick List**

Pre-Requisite: Job Number has been created.

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Manufacturing > Input > Material> And open the facility “Create Picklist” Just click on it.
4. Enter the value “10” in the Factory field and Press Tab.
5. Enter the Job Number which is obtained from the Pre-requisite in the Job Number field and Press F3.
6. Click on Create Pick option from the submenu.
7. Note down the picking number and Click on Ok button.
8. In Table of Contents section, navigate to Master > Manufacturing > Input > Material> And open the facility “Amend Picklist” Just click on it.
9. Enter the value “10” in the factory field and press Tab.
10. Open Pick Run Number LOV.
11. Now search for the Run number which you noted in the step 7.
12. Select the Run Number.
13. Double click on the Non DC Line in amend picklist grid.
14. Click on Tab.
15. Click on Tab.
16. Enter the value 12 in the Picked qty field and Press Tab.
17. Click on Yes in picking qty.
18. Click on Yes button.
19. Click on Exit Forward.
20. Click on Exit Backward.
21. Logout from the Application

**UC008:- Tolerance check during material input – Material Issue**

Pre-Requisite: Job Number has been created.

1. Launch application.
2. Login to the same.
3. Now open the facility Master > Manufacturing > Input > Material> “Material Isuue”
4. Enter the value “10” in the Factory field and Press Tab.
5. Enter the Job Number which is obtained from the Pre-requisite in the Job Number field and Press Tab.
6. Enter the value “RG” in the Process Stag field and Press F3.
7. Now double click on the Non DC Line in the grid.
8. Click on “Issue” option in the submenu.
9. Click on Exit Forward.
10. Click on “NO” button in the Close Line after issue.
11. Click on Yes in the Confirm.
12. Double click on the line in the grid
13. Click on Exit Forward
14. Click on Yes Button
15. Click On Exit Forward
16. Click On Exit Forward.

**UC009:- Tolerance check during material input – Manual Lot Allocation**

Pre-Requisite: Job Number has been created.

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Manufacturing > Input > Material> And open the facility “Lot Allocation” Just click on it.
4. Enter the value “10” in the Factory field and Press Tab.
5. Enter the Job Number which is obtained from the Pre-requisite in the Job Number field and Press Tab.
6. Enter the value “RG” in the Process Stag field and Press Tab.
7. Click on Yes button in the Trace Flag Option.
8. Double click on Non-DC line in the grid.
9. Double click on Lot number L1 Line in the available Lots grid.
10. Enter the value “9” in the Allocation Quantity and Press Tab.
11. Double click on Lot number L2 Line in the available Lots grid.
12. Enter the value “4” in the Allocation Quantity and Press Tab.
13. Click on Exit Forward.
14. Double click on DC Line in the grid.
15. Double click on the line in available lots grid.
16. Enter the value “12” in the Allocation Quantity and Press Tab.
17. Click Exit Forward.
18. Click Exit Forward.
19. Click Exit Backward.
20. Logout from the Application.

**UC011:- Create Sales Order**

1. Launch the Application in Chrome.
2. Enter the login credentials and login to the application.
3. In Table of Contents section, navigate to Master > Sales > Orders. And open the facility “Sales Orders”. Just click on it.
4. Click on “Enter New Order” option from the displayed sub menu
5. Enter the value “10” in “Division” field and press tab.
6. Now, the focus is in “Customer” field. Enter the value “ALBERT” and press tab.
7. Enter any random unique text in the field Customer PO. For ex: “Test” and Press F3/Exit Forward.
8. Select “Lines” from the submenu.
9. Click on “Insert” button in keyboard OR click on the insert icon.
10. Press tab from Line Type field (LT)
11. Click on the “Product” field and enter the value “100005” and press tab.
12. Enter value “10” in Inventory Quantity field and press F3.
13. Click on the “Product” field and enter the value “Sales” and press tab.
14. Enter value “10” in Inventory Quantity field and press F3.
15. Click on Exit Backward.
16. And then Exit Forward.
17. Note down the Order Number
18. Click on “Next Order” to complete the order creation.
19. Exit backward.
20. Click on Exit option from the submenu.

**UC012:- Create Purchase Order**

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Master > Purchasing > Orders. And open the facility “Create PO”. Just click on it.
4. Click on “Enter New Order” option from the displayed sub menu.
5. Enter the value “10” in “Division” field and press tab.
6. Enter the value “10004” in the Supplier field and press F3.
7. Select “Order Lines” from the submenu.
8. Click on “Insert” button in keyboard OR click on the insert icon.
9. Press tab from Type field (Ty Field).
10. Enter the value “100005” in the Product field and press tab
11. Enter the value “10” in Warehouse field press tab.
12. Enter value for the field Order Quantity as 10 and Press F3.
13. Enter the value “100005” in the Product field and press tab
14. Enter the value “DC” in Warehouse field press tab.
15. Enter value for the field Order Quantity as 10 and Press F3.
16. Press Esc or click on Exit backward.
17. Press F3 or click on Exit forward.
18. Note down the Order Number (PO Number).
19. Click on “Next Order” to complete the order creation.

**UC013:- Create Jobs**

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Master > Manufacturing > Jobs > Create Jobs. Just click on it.
4. Enter the value “10” in “Factory” field and press F3.
5. Click on “Insert” button in keyboard OR click on the insert item icon.
6. Press Tab from the field “CO”.
7. Press Tab.
8. Select start date from the calendar and Press Tab.
9. Select End Date from Calendar and Press F3.
10. In “Process Spec/Cam” field, enter the value as “Perf\_spec” and press Tab.
11. Click on Tab
12. Click on Tab
13. Select the value “F” in the Release Status Drop down And Press Tab.
14. Enter the value “1” in the AB Field and Press F3.
15. Double click on the line in the Grid.
16. Enter the value 10 in the Required Output field and Press Tab.
17. Follow step 12 and 13 for another line in the grid.
18. Click on Exit Forward.
19. Click on Exit Backward.
20. Click on Exit Forward.
21. Click on Create Jobs option in the submenu.
22. Click on Exit backward.
23. Click on Exit Backward.
24. Logout from the application.

**UC014:- Invoice entry –AR Module**

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Accounts Receivable>Multi-Line Invoices. And open the facility “Invoice Entry”. Just click on it.
4. Click on “Enter New Invoice”.
5. Enter the value “10” in “Division” field and press tab.
6. Enter the value “VIFOOD” for the Customer field and press F3.
7. Press F3.
8. Select “Enter Invoice Lines”.
9. Click on “Insert” button in keyboard OR click on the insert icon.
10. Press F3
11. In the “Product” field and enter the value “3A510” and press F3
12. Enter value “1” in Invoice Quantity field and press F3.
13. Enter value “1” in Sales Price field and Press F3.
14. Click on “Next Line” in submenu.
15. Press Esc
16. Press F3
17. Note down the Invoice Number and Press F3.
18. Press F3
19. Click on “Yes” to Confirm the Invoice.
20. Click on “Next Invoice” to complete the Invoice creation.
21. Click on Exit Backward.
22. Click on Exit from the submenu.
23. Logout from the Application.

**UC015:- Warehouse Transfer**

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Inventory > Transactions > Warehouse Transfer. Just click on it.
4. Enter the value “RG” in “ From Warehouse” field and press tab.
5. Enter the value “10” in “ To Warehouse” field and press F3.
6. Click on yes Button
7. Enter the value “RGS” in the Product field and Click on Submit button.
8. Enter the value “QOH” in the Inventory Status field and Click on Submit Button.
9. Enter the value “L1” in the Lot Information field and Click on submit.
10. Enter the value “B1” in the Bin Location field and Click on Submit.
11. Click on Yes Button.
12. Double click on the existing line in the grid
13. Enter the value “L1” in To Lot Number field and Press Tab.
14. Enter the value 10 in the Transfer quantity field and Press Tab.
15. Enter the value “B2” in the To Bin Location field and Press F3.
16. Click on Exit Forward.
17. Click on Transfer all items option in the submenu.
18. Click on Exit forward.
19. Close the facility.
20. Logout from the Application

**UC016:- Multi-Line Transaction**

1. Launch the Application in Chrome.
2. Enter the login credentials and login to the application.
3. In Table of Contents section, navigate to Master > Inventory > Transactions. And open the facility “Multi-Line Transaction”. Just click on it.
4. Enter the value “BGNQOH” in the movement code and Press F3.
5. Click on Yes Button
6. Click on Insert Icon in the grid.
7. Enter the value “10” in the warehouse field and Press Tab.
8. Enter the value “100005” in the product field and Press F3.
9. Click on “Add Existing lot code” in the submenu.
10. Enter the value “L1” in the Lot Code field and Press F3.
11. Click on Yes Button.
12. Enter the value “FG” in the Bin Location and Press Tab.
13. Enter the value “1000” in the stock movement quantity field and Press F3.
14. Click on Yes Button.
15. Click Exit Backward.
16. Click Exit Forwad.
17. Click on Exit Backward.
18. Logout From the Appplication.

**UC017:- Ship note creation and confirm from SO**

Pre-Requisite: Sales order number that has already been created. And there should be inventory available for the product that is being shipped.

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Master > Sales > Shipping. And open the facility “Create Shipment”. Just click on it.
4. Enter the value “10” in “Division” field and press tab.
5. Now, the focus is in “Action Code” field. Enter Value “ORDER” and press tab.
6. Now, the focus is in “Criteria Code” field. Enter Value “ORDER” and press tab.
7. Enter the order number that is obtained from Pre-Requisite in “Order Number Range” field and Press F3
8. Click “Yes” in “Allow Overriding of Promises” field.
9. Click on “Create Shipping” option
10. Click “No” in “Print Shipping Notes” field.
11. Exit backward
12. In Table of Contents section, navigate to Sales > Shipping. And open the facility “Confirm Shipment”. Just click on it.
13. Enter Division as “10” and press tab.
14. In “Shipping Note” field, Click on the LOV icon displayed OR press F4 to invoke the LOV window. (Performance during invoking the LOV window is to be monitored).
15. Now search for the order number that is obtained from Step#11 and select the ship note for the same.
16. Press F3.
17. Click “Yes” to confirm.
18. Press F3.
19. Select “Confirm Shipping Now” from submenu to see the “processed successful” message.
20. Click on Exit Backward.

**UC018:- Invoice Creation from shipment**

Pre-Requisite: Ship note number that has already been created confirmed. And there should be inventory available for the product that is being shipped.

1. In Table of Contents section, navigate to Sales >Invoice from Ship Note. And open the facility “Invoice by Ship Note”. Just click on it.
2. Enter Division as “10” .
3. Click on “Shipping Note” field and enter the ship note that is noted down in pre-requisite.
4. Press F3.
5. Select “Shipping Note” from the submenu.
6. Select “Generate Invoice Now” from the submenu.
7. Note down the Invoice Number from the message bar.

**UC019:- GRN from PO**

Pre-Requisite: Purchase order number that has already been created.

1. Launch application.
2. Login to the same.
3. In Table of Contents section, navigate to Master > Purchasing > Receipts and open the facility “Receive and Locate”. Just click on it.
4. Enter the value “10” in “Division” field and press F3.
5. Enter the order number obtained from Pre-req and enter the same in PO Number and Press F3. Here note down the GRN number.
6. Press F3
7. Select “Lines” from sub menu.
8. Double click on the existing GRN line
9. Press Tab from the field REC Unit
10. Enter value in “ Qty Received” field and Press F3
11. Select “CONTINUE” from sub menu.
12. Press F3
13. Double click on GRN line that is mentioned as “R”.
14. Focus is on “Lot Number” field. Enter Lot Number as “A-001” and press F3.
15. Press F3.
16. Enter the Bin value as “11” and Press F3.
17. Double click on the 1st Line in Assign to Bins grid.
18. Enter the qty in the Movement quantity field to be received and Press F3.
19. Press F3.
20. Press F3.
21. Click on Exit Backward.
22. Logout from the Application

**UC020:- Invoice from PO GRN**

Pre-Requisite: GRN has already been created for a PO.

1. Launch application.
2. Login to the same.
3. Now open the facility Master > Purchasing > Invoices > “Invoice from Single GRN”
4. Select Invoice Entry from Submenu
5. Enter Division as “10” and press tab
6. Enter the GRN # that is obtained from pre-req and press F3
7. Select Enter Invoice Lines
8. Press F3
9. Press F3
10. Click Yes`
11. Select Next Invoice.
12. Click ExitBackward.
13. Click on Exit From Submenu.
14. Logout from the Application.

**UC021:- Material Issue**

Pre-Requisite: Job Number has been created.

1. Launch application.
2. Login to the same.
3. Now open the facility Master > Manufacturing > Input > Material> “Material Isuue”
4. Enter the value “10” in the Factory field and Press Tab.
5. Enter the Job Number which is obtained from the Pre-requisite in the Job Number field and Press Tab.
6. Enter the value “RG” in the Process Stag field and Press F3.
7. Now double click on the Non DC Line in the grid.
8. Click on “Issue” option in the submenu.
9. Click on Exit Forward.
10. Click on “NO” button in the Close Line after issue.
11. Click on Yes in the Confirm.
12. Double click on the line in the grid
13. Click on Exit Forward
14. Click on Yes Button
15. Click On Exit Forward
16. Click On Exit Forward.

**UC022:- Stage Count And Approve Count**

Pre-Requisite:- Job Number should be created and Material should be issued for that Job Number

1. Launch application.
2. Login to the Application by entering the Credentials.
3. Now open the facility Master > Manufacturing > Output > “Stage Count”
4. Enter the Value “10” in the Factory Field and Press Tab.
5. Enter the Job Number which is obtained from the Pre-Requisite And Press Tab.
6. Enter the Value “RG” in the Process Stag Field And Press F3.
7. Double Click on the Non-DC line in the grid and Press Tab.
8. Enter the value “10” in the Count Quantity Field And Press F3.
9. Click On Exit Backward.
10. Now open the facility Master > Manufacturing > Output > “Approve Count”
11. Enter the value “10” in the Factory Field and Press Tab.
12. Enter the Job Number which is obtained from the Pre-Requisite And Press Tab.
13. Now Open the LOV for Count Run Number And Select the Count Number for the particular Job Number.
14. Click on the Yes Button in the Automatic Approval.
15. Click on Update Now option in the submenu

**UC023:- Partial job close**

Pre-requisite:- Job number should be created and material issue and stage count, Approve count should be done.

1. Launch application.
2. Login to the Application by entering the Credentials.
3. Now open the facility Master > Manufacturing > Output > “Partial Job Close”
4. Enter the value 10 in the factory field and Press Tab.
5. Enter the Job Number obtained from pre-requisite in the Job number field and press F3.
6. Double click on the line in the grid.
7. Enter the value L1 in the lot number field and press tab.
8. Enter the value B1 in the Bin field and Press F3.
9. Click on Exit Backward.
10. Logout from the Application.

**UC024:- Final job close**

Pre-Requisite:- Job Number should be created and All the lines should be closed for that Job Number.

In the Mass Close stage lines facility , Close all the lines for the Job Number.

1. Launch application.
2. Login to the Application by entering the Credentials.
3. Now open the facility Master > Manufacturing > Output > “Final Job Close”
4. Enter the value “10” in the factory field and Press F3.
5. Enter the Job number value in the Job Number field and Press F3.
6. Double Click on the line in the grid.
7. Click on “Proceed with an Update” option in the submenu
8. Click on Yes Button in the Proceed with Update
9. Click on Exit Forward.

**UC025:- DC Material issue**

Pre-Requisite:- Job number should be created for DC Product warehouse.

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Data Collection-- > Manufacturing and open the facility “Mat.Issue”. Just click on it
4. Enter the job number obtained from the pre-requisite and press Tab.
5. Enter the value “Perf\_Input” in the product field and Press Tab.
6. Enter the value “Perf\_Input” in the LPN Field and Press F3.
7. Click on Exit Forward.
8. Click on Update from the submenu.
9. Exit Backward.
10. Logout from the Application.

**UC026- DC Partial Close**

Pre-Requisite:- Job number should be created for DC Product warehouse.

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Data Collection-- > Manufacturing and open the facility “Partial close”. Just click on it
4. Enter the Job Number obtained from the pre-requisite in the job number field and Press Tab.
5. Enter the job number in the LPN Field and Press F3.
6. Enter the value B1 in the bin field and Press F3.
7. Enter the job number value in the Lot number and Press F3.
8. Click on Exit Forward.
9. Enter the value QOH in the status field and Press F3.
10. Enter the value 10 in the quantity field and Press F3.
11. Click on update from the submenu.
12. Click on Exit backward.
13. Logout from the Application.

**UC027:- POP Receiving**

Pre-Requisite:- Purchase order number should be created for DC Product warehouse.

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Data Collection-- > Purchase Order Processing and open the facility “POP Receiving”. Just click on it
4. Enter the value Purchase order number which is obtained from the pre-requiste in the PO Number field and Press F3.
5. Enter the value “100005” in the Product field and press F3.
6. Enter the value “L1” in the Lot field and Press F3.
7. Enter the Value “10” in the field And Press Tab.
8. Enter the Value “POPRECEIVING” in the LPN Field and Click F3.
9. Enter the value “B1” in the Bin Field and Press F3.
10. Click on the Update option in the Submenu.
11. Click on Esc keyword.
12. Logout from the Application.

**UC028:- Pick and Confirm shipment in DC Module**

Pre-Requisite: Ship Note Number should be created.

1. Launch application.
2. Login to the application.
3. In Table of Contents section, navigate to Master > Data Collection > Sales Order Processing. And open the facility “Pick By Ship Note – By Note”. Just click on it.
4. Enter the Ship note number obtained from the Pre-Requisite in the Ship Note Field and Press Tab.
5. Double click on the Line in the grid.
6. Enter the value “Sales” in the ILPN Field and Press Tab.
7. Enter some unique value in the SLPN And Press Tab.
8. Enter the value “B1” in the Bin Location And Press Tab.
9. Click on update in the submenu.
10. Click on Exit forward.
11. Click on Exit backward.
12. In Table of Contents section, navigate to Master > Data Collection > Sales Order Processing. And open the facility “Confirm Ship Note”. Just click on it.
13. Enter the Ship note number obtained from the Pre-Requisite in the Ship Note Field and Press Tab.
14. Enter the SLPN which you created in the step-7, and Press Tab.
15. Click on update in the submenu.
16. Logout from the application.

## Test Organization

Mentioned below is the test organization and any other departments that will be supporting the Performance Test Phase.

| Name | Functional Role | Responsibilities |
| --- | --- | --- |
| Wells Zhang | Product owner | Providing NFR’s for performance testing.  Approving the finalized Test Plan. |
| Scott Earnest | Manager, R&D, Dev | Approving the finalized Test Plan. |
| Sushmitha Sekar | Functional QA | Imparting Functional knowledge required to elaborate critical business process. |
| Thanga Sudharson | Associate QA Expert | Reviewer of Test Plan.  Reviewer of Test Scripts. |
| Mohan Kumar | Lead Engineer | Coordinating with stake holders and Team members. |
| Rakshith Chandregowda | Performance Test engineer | Owner of Test Plan, Requirement gathering, Test scripting and Test execution. |
| Brandon Sanders | Product Manager | Approving the finalized Test Plan |

## Risks and Mitigation Plan

Below are the risks and mitigation identified.

| Risk | Impact | Action/Mitigation | Assigned To |
| --- | --- | --- | --- |
| Unscheduled emergency vacation by team members | Delays in the planned timelines | Mohan Kumar to take over. Inform stake holders. Ensure the activities will not get disturbed. | Mohan Kumar |
| VM Deletions | Delays in the planned timelines | Setup the environment and resume the testing.  Take backup of DBs | Rakshith Chandregowda /  Mohan Kumar |
| Unavailability of DML Kits | Delays in the planned timelines | Development team is to provide the deliverables on time | Wells Zhang |

## Test Asset Repository – Bugs

All new Bugs found during the performance testing should be entered into Azure Devops and triaged in the bug tracking system prior to being assigned into development for resolution.

For an explanation of how Bugs are handled in Azure Devops, please see the training materials included in the deck [Bug Life Cycle](https://apteanonline-my.sharepoint.com/:p:/g/personal/vmurugesan_aptean_com/EZr8LnO9p8NJomlhKqjPFFgB0vXbXHAcl4aT3qd08Z-0zA?e=DqxuSp).

| Bug Tracking System | Path |
| --- | --- |
| Azure Devops | <https://dev.azure.com/aptbackoffice/Ross%20Apps> |
|  |  |

## Milestones

Same as [section 2.3](#_Timelines)

| ID | % Done | At Risk | Task | Due Date | Interface |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### 

## Change Request

<List down the change request if any that needs to be considered and will have a direct impact on the key business processes>

| Task ID | Description | Business Process Affected |
| --- | --- | --- |
| 1 | Modified User Distribution | Load will be decreased |
|  |  |  |
|  |  |  |

# Test Deliverables

### 

## Product Coordinators

Test plan to be reviewed and signed off from required product coordinators.

|  |  |  |  |
| --- | --- | --- | --- |
| Project Coordinator | Role | Sign off (Yes/No) | Comments |
| Scott Earnest | Manager, R&D, Dev |  |  |
| Brandon Sanders | Product Manager |  |  |
| Wells Zhang | Product Owner |  |  |

## Results and Observations

Following test deliverables will be shared once the testing is completed.

1. **Test Report:** Created and shared along with observations and key findings.
2. **Test Scripts:** Scripts are associated to the Azure repo.
3. **Bugs:** Issues found are reported in Azure Devops
4. Resource utilizations of Servers
5. Transaction Response times