# Ross 8.0.2 Release Requirements Gathering

## Performance Requirements

Listing the performance testing pre-requisites for gathering the complete requirement before the start of test plan. This pre-requisites has to be filled in as applicable for the product.

1. **Application Architecture**
2. Whether application to be isolated during performance test execution to avoid interaction with other application.

In the app server only Ross should be installed.

1. Details of built-in logging mechanism or monitoring mechanism.
2. Walkthrough of the application and architecture.

Application and Project details done.

1. **Identify the Performance Testing Acceptance Criteria**
2. SLA for all transactions in scope for performance testing
   1. Expected Throughput
   2. Response Time
   3. Resource Usage

|  |  |
| --- | --- |
| **Parameters** | **Acceptance range or standards** |
| Expected Through Put | Detailed in section 3.5 |
| Response Time | < 3-5 Seconds |
| CPU Utilization | < 75 % |
| Memory Utilization | < 75 % |
| Number of Users | Yet to be update |

1. Types of Performance test required (Depending on requirement)
   1. Load
   2. Stress
   3. Endurance
   4. Spike
   5. Scalability

|  |  |  |
| --- | --- | --- |
| **Performance Test Type** | **In Scope** | **Comments** |
| Load Test |  |  |
| Stress Test |  | Stress, Endurance, Spike, Scalability testing have not been in scope for previous releases. Hence these are not included. |
| Endurance Test |  |
| Spike Test |  |  |
| Scalability Test |  |  |

1. Performance test Goals, Objectives.

The objectives of testing are detailed below:

1. To baseline the performance of Ross 8.0.2 Release
2. Ross 8.0.2 Release is to be certified with SQL DB with users and 17 User Scenarios.
3. New user scenarios are added in Ross 8.0.2 Project, for which no performance tests were done before.
4. Performance test metrix to be monitored.

2.a

1. Key functionality focus areas.

Business Process / Marketable Features

#### Test Environment Setup (To be filled by Product Owner)

This section will collect the environment requirement for the performance testing. The best practice would be to mimic the customer environment if not possible maybe we can list down the requirement in the tabular format below:

Webserver Requirements

| Details | Production Setup | Performance Setup | Comments |
| --- | --- | --- | --- |
| Name | N/A |  |  |
| Version |  |  |  |
| OS |  |  |  |
| CPU (No. of Core) |  |  |  |
| Memory (GB) |  |  |  |
| Host Name |  |  |  |
| Disk Space (With Drive Specification) |  |  |  |

Application Server Requirements:

| Details | Production Setup | Performance Setup | Comments |
| --- | --- | --- | --- |
| Name | NA | Ross |  |
| Version |  | ERP 8.0.1  IAF 9.3.12 |  |
| No. of App Server | Yes | 1 |  |
| OS | Yes | Windows Server 2016 | Performance test environment configuration identified after understanding the customer/ production like environment configuration, based on the inputs that are provided by Technical Consultant. |
| CPU (No. of Core) | Yes | 4(V core) |
| Memory (GB) | Yes | 16 |
| Host Name |  | 52.251.38.206  rossrndsqapp03 |
| Disk Space (With Drive Specification) |  | 150GB |

Database Server Requirements:

| Details | Production Setup | Performance Setup | Comments |
| --- | --- | --- | --- |
| DB Name (Reporting or Transaction) |  |  |  |
| DB Server |  | Ross FIN and MAN DBs |  |
| DB Version |  | SQL 2019 | Performance test environment configuration identified after understanding the customer/ production like environment configuration, based on the inputs that are provided by Technical Consultant. |
| DB Size (Data present in production) |  | 24.4 GB(man DB)  106.5 GB(Fin DB) |
| Operation System |  | Windows Server 2016 |
| CPU (No of Core) |  | 8 Cores |
| Memory(GB) |  | 16 GB |
| Host Name |  | rossrndsqsql01  52.247.28.38  rosssql01.eastus2.cloudapp.azure.com |
| Disk Space (With Drive Specifications) |  | 250GB |

Non-Functional Requirements

|  |  |
| --- | --- |
| Response time SLA for each transaction Records | <3-5seconds |
| Memory Usage Thresholds % | <75% |
| Current number of users using the application in production | 30 |
| Total Transactions need to Achieve For Each Use Case | Metrix |
| User Case Document (Step by Step work Flow) | Added in Test Plan. |
| CPU Usage Threshold % | <75% |
| Concurrent Users and Sessions if any | Metrix |
| Total Number of Use Cases | To be updated. |
| Total Number of newly added use cases | To be updated. |

### Business Process / Marketable Features

List down the most critical Business Processes / Marketable Features that needs to be considered at any given time. In case of any issues these business process / Marketable Features will have a direct impact on the product line.

Key Business Process / Marketable Features

| SL No. | Critical Business Processes based on MF | Type of transaction | Transaction target/ hour | # of users |
| --- | --- | --- | --- | --- |
| 1. | Decommission product will stop inactivating product | Transaction |  |  |
| 2. | Create Process spec with Principal Output product for input driven | Transaction |  |  |
| 3. | Create MPS for Input driven | Transaction |  |  |
| 4. | Create MRP for Input driven | Transaction |  |  |
| 5. | PO maintenance to Modify dates to PO lines from header | Transaction |  |  |
| 6. | Sales Price Loader to load sales prices from xml | Transaction |  |  |
| 7. | DC Archive Inactive and Zero Line LPNs | Transaction |  |  |
| 8. | Reactivate Inactive LPNs | Transaction |  |  |
| 9. | Create Recipe with substitution products added | Transaction |  |  |
| 10. | Material Issue with substitution products | Transaction |  |  |
| 11. | DC Material Issue with substitution products | Transaction |  |  |
| 12. | Cost Trace for Principal product output | Transaction |  |  |
| 13. | Lot Conversion for products | Transaction |  |  |
| 14. | Prevent product change during lot conversion | Transaction |  |  |
| 15. | Tolerance check during material input - Amend Pick List | Transaction |  |  |
| 16. | Tolerance check during material input - Material Issue | Transaction |  |  |
| 17. | Tolerance check during material input - Manual Lot Allocation | Transaction |  |  |
| 18. | Create Sales Order | Common Transaction | 200 | 3 |
| 19. | Create Purchase Order | Common Transaction | 200 | 3 |
| 20. | Create Jobs | Common Transaction | 200 | 3 |
| 21. | Invoice entry –AR Module | Common Transaction | 200 | 2 |
| 22. | Bin Transfer | Common Transaction | 200 | 3 |
| 23. | Copy Product master and Product warehouse | Common Transaction | 100 | 3 |