



MRP Integration Testing Checklist

Data Mapping & Transformation

Verify data fields are correctly mapped and transformed between systems.

Source System Field Mapping

- ☐ Item Master
- ☐ BOM
- ☐ Routing
- ☐ Work Order

Target System Field Mapping

- ☐ Item Code
- ☐ Description
- ☐ Unit of Measure
- ☐ Cost

Decimal Precision

Enter a number...

Data Transformation Rules

Write something...

Data Type Conversion

- ☐ String to Number
- ☐ Number to Date
- ☐ Date to String

Field Length Validation

Write something...

System Interface Validation

Confirm the interface is functioning as expected, including error handling and data exchange.

Interface Response Time (seconds)

Enter a number...

Observed Error Messages

Write something...

Data Transmission Method (e.g., API, File Transfer)

- ☐ API
- ☐ File Transfer (SFTP)
- ☐ Database Link

Date of Interface Test

Enter date...

Detailed Steps for Reproducing Issues (if any)

Write something...

Interface Status (Pass/Fail)

☐ Pass

☐ Fail

Real-Time Data Synchronization

Ensure data synchronization occurs in real-time or according to defined schedules.

Synchronization Frequency (minutes)

Enter a number...

Last Successful Sync Time

Last Sync Attempt Date

Enter date...

Number of Records Synced

Enter a number...

Synchronization Log (Snippet)

Write something...

Synchronization Method

- ☐ API
- ☐ Message Queue
- ☐ Direct Database Link

Transaction Validation

Test the creation, update, and deletion of transactions across integrated systems.

Purchase Order Quantity

Enter a number...

Sales Order Quantity

Enter a number...

Order Date

Enter date...

Ship Date

Enter date...

Inventory Level After Transaction

Enter a number...

Transaction Status (Success/Failure)

☐ Success

☐ Failure

Transaction Error Message (if applicable)

Write something...

Error Handling & Recovery

Validate error messages, logging, and recovery mechanisms in case of integration failures.

Describe Error Scenario

Write something...

Error Code Received (if applicable)

Enter a number...

Error Message Logged

Write something...

Error Type (e.g., Connectivity, Data Validation)

- ☐ Connectivity
- ☐ Data Validation
- ☐ System Timeout
- ☐ Other

Date of Error Occurrence

Enter date...

Time of Error Occurrence

Recovery Steps Taken

Write something...

Recovery Successful?

- ☐ Yes
- ☐ No

Security & Access Control

Verify appropriate security measures and access controls are implemented for data exchange.

User Authentication Method

- ☐ Username/Password
- ☐ Active Directory
- ☐ Single Sign-On (SSO)

Data Encryption in Transit

- ☐ TLS 1.2 or higher
- ☐ SSL 3.0
- ☐ Not Encrypted

Data Encryption at Rest

- ☐ Enabled
- ☐ Disabled

Maximum Login Attempts

Enter a number...

Role-Based Access Control (RBAC) Implemented?

- ☐ Yes
- ☐ No

Access Permissions Verified?

- ☐ Read
- ☐ Write
- ☐ Delete
- ☐ Execute

Performance Testing

Assess the performance of the integration under normal and peak load conditions.

Simulated Users

Transaction Volume (per minute)

Average Response Time (seconds)

Peak Response Time (seconds)

Error Rate (%)

Test Execution Date

Enter date...

Test Start Time

User Acceptance Testing (UAT)

Confirm the integration meets the business requirements and user expectations.

Describe the business process being tested.

Write something...

Quantity of items processed during test.

Enter a number...

Date of UAT execution.

Enter date...

Time of UAT execution.

Overall Test Result (Pass/Fail)

☐ Pass

☐ Fail

Detailed observations and issues encountered.

Write something...

Tester Signature

Logging and Auditing

Verify comprehensive logging and auditing capabilities for tracking integration activities.

Log Rotation Frequency (Days)

Enter a number...

Audit Trail Data Retention Policy

- ☐ 30 Days
- ☐ 60 Days
- ☐ 90 Days
- ☐ Custom (Specify in Long Text)

Custom Audit Trail Retention Details (if 'Custom' selected above)

Write something...

Audit Log Events to Track

- ☐ User Login/Logout
- ☐ Data Creation
- ☐ Data Modification
- ☐ Data Deletion
- ☐ System Errors
- ☐ Integration Events

Last Audit Log Review Date

Enter date...

Time Zone of Audit Logs


Documentation Review

Review integration documentation for accuracy and completeness.

Review Integration Design Document

Write something...

Upload Data Mapping Specification

 Upload File

Verify API Documentation Accuracy

- ☐ Accurate
- ☐ Needs Revision
- ☐ Not Available

Document Last Updated Date

Enter date...

Summarize Findings & Recommendations

Write something...