**Comprehensive Test Plans, Test Cases, and Test Execution Results (Unit, Integration, UAT)**

**Project:** Odoo ERP Integration for Safaricom Telecom  
**Version:** 1.0  
**Date:** [Insert Date]

**A. Test Plan Overview**

* Define testing scope, objectives, resources, schedules, and deliverables.
* Include all testing types: Unit Testing, Integration Testing, User Acceptance Testing (UAT).
* Specify entry and exit criteria, defect management, and reporting mechanisms.

**B. Testing Types**

| **Test Type** | **Purpose** | **Responsibility** | **Environment** | **Tools** |
| --- | --- | --- | --- | --- |
| Unit Testing | Verify individual components/modules | Development Team | Dev environment | PyTest, JUnit, Postman |
| Integration Testing | Validate interfaces and data flow between systems | QA Team | QA environment | SoapUI, Postman, Selenium |
| User Acceptance Testing (UAT) | Confirm system meets business requirements | Business Users & QA | Staging/Pre-prod | Jira, Zephyr, TestRail |

**C. Test Cases**

| **Test Case ID** | **Module** | **Description** | **Preconditions** | **Steps** | **Expected Result** | **Status** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TC\_BILL\_001 | Billing | Verify invoice generation after payment | Valid customer data | 1. Generate invoice 2. Validate amount | Invoice created with correct amount | Pass |  |
| TC\_INT\_002 | Integration | Validate API data sync between OSS/BSS & Odoo | API endpoint ready | 1. Trigger API call 2. Verify data in Odoo | Data matches source system | Fail | Issue logged |
| TC\_UAT\_003 | CRM | Validate customer creation workflow | User logged in | 1. Create customer 2. Verify record creation | Customer exists in CRM module | Pass |  |

**D. Test Execution Results**

* Document results for each test cycle.
* Track defects by severity and resolution status.
* Summarize overall test coverage and quality status.

| **Test Cycle** | **Total Tests** | **Passed** | **Failed** | **Blocked** | **Defects Logged** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- |
| Unit Test | 120 | 118 | 2 | 0 | 2 | All critical fixed |
| Integration | 80 | 75 | 5 | 0 | 5 | API retry issues noted |
| UAT | 40 | 39 | 1 | 0 | 1 | Minor UI glitch |

**6. Change Request Logs and Implementation**

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**A. Change Request (CR) Log Structure**

| **CR ID** | **Date Raised** | **Requester** | **Description of Change** | **Impact Assessment** | **Priority** | **Status** | **Resolution Date** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CR-001 | 2025-07-01 | Business Analyst | Add discount module to Billing | Medium (Scope & Schedule) | High | Implemented | 2025-07-10 | Completed on time |
| CR-002 | 2025-07-05 | QA Tester | Fix API data sync error | High (Integration Risk) | Critical | In Progress |  | Root cause identified |
| CR-003 | 2025-07-07 | User Training Lead | Add user role for support staff | Low (Minor Scope Change) | Medium | Approved |  | Scheduled for next release |

**B. Change Request Process**

1. **Request Submission:** Stakeholders submit formal change requests.
2. **Impact Analysis:** Project Manager and technical leads evaluate impact on scope, cost, schedule, and risk.
3. **Approval:** Change Control Board (CCB) reviews and approves/rejects requests.
4. **Implementation:** Approved changes are scheduled and implemented by the development team.
5. **Testing & Validation:** Changes undergo appropriate testing cycles.
6. **Documentation & Communication:** Update project documentation and communicate changes to stakeholders.

**C. Tools and Tracking**

* Use tools like Jira, ServiceNow, or Azure DevOps to log and track changes.
* Maintain audit trails for compliance and traceability.