OUM

TE.005 TESTING REQUIREMENTS

AmeriTel Inc.

GREXIT Mitigation

Author:	John Needham
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1 Document Control

1.1 Change Record

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1.2 Reviewers

Name	Position

Contents

2 Introduction

2.1 Purpose

The Testing Process does as a whole work as a means to determine whether the <new application name> is fit for the business purpose. Tests should be executed at several points during the project, to verify the application against defined goals and objectives, to detect and adjust defects.

The **Testing Requirements** defines what AmeriTel Inc. requires from the test process in the GREXIT Mitigation project. It defines test requirements appropriate to the significance, or critical nature, of the system to the business

It does not define the Strategy for testing for this increment. This will be described in a separate document.

2.2 How to Review

Please use the following criteria when reviewing the Testing Requirements:

- Is it clear from this work product what is expected from the Testing process?

3 Objectives

3.1 Objectives

The objectives of Testing Requirements are to:

- Identify testing requirements for iteration testing, increment testing and final system to ensure a certain quality for the application at the given testing stage
- Identify testing requirements for integration testing to ensure that integrations will work properly
- Support the business objectives and system objectives for the new GREXIT Mitigation project.
- Build testing that allows for expandability, flexibility, and support of future business requirements.

It is intended that the testing activities will address these specific concerns:

- Ability to trade in new currency
  - Receive invoices
  - Generate invoices
- Bank Accounts available in new currency
  - Make payments
  - Receipt payments
- Credit Terms have been successfully updated;
- Reporting in new local functional currency

4 General Testing Process Requirements

4.1 System Criticality

The application system to be developed in this increment of the GREXIT Mitigation project is mission-critical for AmeriTel Inc. Therefore thorough testing is required as an integral part of the iterations, as well as at the end before the application system can be put into production. In order to achieve this level of testing within the limited time available, a comprehensive set of test tools would be of benefit to the project, and a full-time test specialist should be assigned to assist the team members in effective use of the tools.

or

The application system to be developed in this increment of the GREXIT Mitigation project is business-critical for AmeriTel Inc. Therefore considerable testing is required as an integral part of the iterations, as well as at the end before the application system can be put into production.

or

The application system to be developed in this increment of the GREXIT Mitigation project must deliver business benefit in as short as possible a timeframe for AmeriTel Inc. Therefore only an appropriate amount of testing for these timescales is required before the application system can be put into production.

4.2 System Lifetime and Maintenance

The application system is intended to be a long-term, strategic solution. Before it can be deployed, AmeriTel Inc. requires that the robustness of the system has been demonstrated.

or

The application system is intended to be a long-term solution. In view of the urgency of delivering rapid business benefits, this increment of the system will be replaced during the first year of operation. Therefore this increment should be engineered and tested to a level appropriate to its expected lifetime.

or

The application system is intended to be a short-term, tactical solution. Therefore the system should be engineered and tested to a level appropriate to its expected lifetime of <System Lifetime>.

4.3 Quality Management System

The quality guidelines of AmeriTel Inc. imply the following requirements to testing in this increment:

- Testing considerations must begin in the early phases of the project.
- Test script development must be based on system requirements and any planned future business processes.
- Testing must be objective and include tests performed by an independent test team (other than the developers responsible for the application software).
- The problem management process must be functional as soon as testing begins.
- Check that only valid and non-duplicated defects are processed via an effective triage and defect management process.
- Multiple iterations for each testing task should be planned, along with some contingency for fixes before the next iteration is executed.

- Early planning for the systems integration test, as it will involve multiple projects, systems, and organizations.
- A well-organized process to perform business system testing.
- Modules should be categorized by their relative importance to the business for defect prioritization, and performance testing.
- Strong executive sponsorship and management support of the project mission and project team is needed.
- Adequate project staffing for the expected goals and timeline are provided for.
- Clear roles and responsibilities must be defined for the project in order to assure accountability, ownership, and quality.
- A committed and well-informed testing project manager and project team should have a thorough understanding of the project goals, milestones, and any relationships with other implementation projects.
- A comprehensive project workplan and quality management approach.
- A thorough understanding of known project risks and assumptions by business and project management.

4.4 Testing Environments

The following table documents the testing environment criteria for each testing task:

Testing Task	Platform	Software	Server Environment
Unit Test	Development	Oracle Fusion Financials	Cloud
Use Case Test	Test	Oracle Fusion Financials	Oracle Fusion Financials
System Test	Test	Oracle Fusion Financials	Oracle Fusion Financials
Full System Test	Conversion	Oracle Fusion Financials	Oracle Fusion Financials
Systems Integration Test	Test	Oracle Fusion Financials	Oracle Fusion Financials
Acceptance Test	Conversion	Oracle Fusion Financials	Oracle Fusion Financials

4.5 Testing Tools

Availability of the following testing tools is required:

Testing Tool	Software Vendor	Purpose
Application Testing Suite	Oracle	Functional Testing

4.6 Human Resources Requirements

The staff involved in the testing aspect of the project should have background, experience, and training in the following areas:

- business processes
- project management
- testing team leadership

- business and technical analysis
- database administration
- system administration

This section identifies the resources required to perform testing tasks.

Business Users

- ❑ Define test scenarios
- ❑ Training on new processes
- ❑ Execute Regression Tests
- ❑ Reconcile and sign-off test Data Conversion results
- ❑ Execute UAT scripts
- ❑ Sign-off UAT

Business Leads

- ❑ Identify training needs
- ❑ Review and approve test scenarios
- ❑ Define UAT Criteria
- ❑ Review system and integration test results
- ❑ Resolve UAT Issues
- ❑ Sign-off UAT

Database Administrator

- ❑ Create SIT Environment
- ❑ Create UAT Environment
- ❑ Deploy Integrations Code
- ❑ Create Production Environment(s)

Developer

- ❑ Unit test Oracle developments
- ❑ Unit test Interface & Integrations modifications
- ❑ Unit test all reporting changes
- ❑ Execute system and integration test
- ❑ Sign-off SIT
- ❑ Create UAT Environment
- ❑ Execute system and integration test
- ❑ Sign-off SIT
- ❑ Create UAT Environment
- ❑ Support UAT users
- ❑ Resolve UAT issues

Functional Consultant

- ❑ Document test scenarios

- ❑ Develop training for new processes
- ❑ Define UAT scripts and roles
- ❑ Execute system and integration test
- ❑ Sign-off SIT
- ❑ Create UAT Environment
- ❑ Execute Regression Tests
- ❑ Sign-off RST
- ❑ Support UAT users
- ❑ Resolve UAT issues

5 Functional Testing Requirements

Functional testing of the application system will focus on its fitness for business purpose, in relation to the defined business objectives.

- Existing application extensions have been modified to support the new business model and need to be tested for accuracy.
- New and existing interfaces to/from Oracle Applications and third-party and legacy systems need to be tested.
- Converted data needs to be validated.
- Application setup needs to be tested to show that the system is correctly configured.

6 Non-Functional Testing Requirements

Non-functional testing of the application system will focus on its fitness for business purpose, in relation to the defined business and system objectives.

7 Acceptance Testing Requirements

Acceptance testing of the application system will focus on deliverance according to the requirements as they have agreed upon throughout the project. This should reflect the applications fitness for business purpose, in relation to the defined business objectives.