

Service Definition – Livingston IT System Integration Testing (SIT) Services

1. Introduction

Founded in 2017 in Livingston, Scotland, Livingston IT Consulting Ltd specialises in providing end-to-end software testing and quality assurance services across public and private sector organisations. Our consultants have an average of over 10 years' experience delivering complex testing programmes across banking, insurance, healthcare, civil service, retail, and large-scale digital transformation initiatives.

System Integration Testing (SIT) is a critical phase of the delivery lifecycle, ensuring that individual applications, services, interfaces, and data flows operate correctly as an integrated system. Our SIT services focus on early defect detection, risk reduction, and validation of end-to-end system behaviour before progressing to User Acceptance Testing (UAT) or live deployment.

2. System Integration Testing (SIT) Process

Every organisation has unique architectures, integration patterns, and delivery models. Our SIT approach is tailored to align with each client's technology stack, delivery methodology, and governance requirements.

Our consultants engage early with architecture, development, infrastructure, and business teams to understand system boundaries, interfaces, data flows, and non-functional considerations. We define a structured SIT strategy and plan covering scope definition, entry and exit criteria, test environments, test data, and integration dependencies.

We validate integrations across internal systems, third-party services, APIs, middleware, messaging platforms, databases, and legacy systems. Testing is executed using risk-based and scenario-driven approaches, ensuring both positive and negative integration paths are verified. Defects are logged, triaged, and tracked through to resolution with full traceability.

Our team can take full accountability for SIT delivery or operate alongside client teams, ensuring quality gates are met and integration risks are controlled before progressing to UAT.

3. Service Features

- Creation of a tailored System Integration Testing (SIT) Strategy
- Definition of SIT scope, entry and exit criteria
- Integration test planning and estimation
- Validation of APIs, interfaces, middleware, and data flows
- Testing of internal, external, and third-party system integrations
- End-to-end system and business process integration testing
- Test environment and integration configuration support
- Test data creation and management for integrated systems
- Defect management, reporting, and traceability
- Expertise across Agile, DevOps, and Waterfall delivery models

4. Service Benefits

- Early identification of integration defects, reducing downstream rework
- Reduced delivery risk prior to UAT and live deployment
- Improved system stability and data integrity
- Clear visibility of integration readiness and quality metrics
- Structured and auditable SIT artefacts for governance and compliance
- Improved collaboration between development, infrastructure, and business teams
- Supports predictable releases and confident go-live decisions
- Adaptation of risk-based testing approaches to meet tight delivery timelines

5. Pricing

Pricing for System Integration Testing services is provided in the Livingston IT Pricing Document. Engagements can be delivered using a time-and-materials model or a fixed-price/outcome-based approach, depending on client requirements. For further information, please contact info@livingstonit.co.uk