



Integration testing standard

It is important that our digital services are defect-free.

The purpose of Integration testing is to validate that individual software modules function cohesively when combined and tested as a complete system. It is essential we are able to verify that a system can function correctly when it has all the necessary modules and feeds combined together in a single environment.

Audience

- Developers
- Testing team

Requirements

1. You **must** test all new tfl.gov.uk sites and services against the scope, entry and exit criteria, and grade them using the defect severity criteria detailed below.

Who	Test team Development team
Scope	<ul style="list-style-type: none"> • Ensure the software integration functions as expected • Testing the end-to-end process, based on integration specifications • Use a mixture of automated and manual test scripts to cover integration points
Entry criteria	<ul style="list-style-type: none"> • Project development is complete • Unit testing must have been run before integration testing starts • Integration testing will be performed in an environment that has all the required data sources you will find in the production environment. • Test scripts have been prepared
Exit criteria	<ul style="list-style-type: none"> • All test scripts have been executed & updated with the status of each test. • Outstanding known defects at the end of the integration testing must be logged and a severity assigned.
Defects	<ul style="list-style-type: none"> • Sev 1: Major integration failure with no workaround • Sev 2: Major integration failure with workaround • Sev 3: Errors present but key integration still works • Sev 4: Cosmetic and errors that have very little impact, and don't have a negative effect on TfL exist

Why we do this

We carry out Integration testing to ensure that all the individual modules/components can come together and cohesively function in the same environment and that the integration of system processes work correctly.

Type: Standard
Owner: TfL Online Compliance
Department: TfL Online

Version History

Version	Date	Summary of changes
1.0	01/11/2013	First issue

Review History

Name	Title	Date	Comments
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