



Federal Student Aid (FSA) Students Portal Rollout – Release 2

System Integration Test Plan



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1.0 System Integration Test Overview

The System Integration Test Plan provides an overview of the testing necessary to ensure that the functionality delivered meets the requirements that have been identified for the Students Portal Rollout for Release 2. Included in this document is a list of detailed items that will be incorporated into test scripts and applied in the System Integration Testing.

The main purposes of System Integration Test was to:

- Test Application Functionality (login, search function, personalization, links, etc...).
- Test the integration of Xap in to the Students Portal.
- Test the integration of Interwoven as the Content Management tool.
- Validate all of the above within a system test environment.

Entry Criteria for System Integration Test Execution:

- All applications and application components necessary for cycle to be completed have been inventoried and promoted.
- System Integration Test Plan is complete.
- Resources to execute tests are available.
- The System Test environment is in place.

Exit Criteria for System Integration Test:

- System Integration Test deliverable has been completed and reviewed by IV & V.
- All test cases and conditions have been executed successfully.
- Identified errors and defects have been corrected and re-tested.
- All issues and incidents have been properly documented and worked through the resolution process.
- All reviews were conducted, and that the review yields satisfactory results.



2.0 System Integration Test Scope

System Integration Test cases will be based on the following:

- Application Functionality
- Test the integration of Xap in to the Students Portal
- Test the integration of Interwoven as the Content Management tool

3.0 Roles and Responsibilities

System Integration Testing involved the Student Portal Team. The primary role for the System Integration Testing effort was the Test Team Analyst. This role is described below:

3.1 Test Team Analysts

- Assist in the development of the System Integration Test Plan.
- Execute the System Integration tests.
- Evaluate the System Integration test results.
- Report all incidents and problems encountered during testing activities.

Ms. Teale Taggart, Ms. Anne Jensen and Bryan Hykes will serve as the System Test Team Analysts.

3.2 Test Team Lead

- Define a System Integration Test Plan.
- Define System Integration test cases and scripts.
- Monitor the testing process to identify problems, mitigate potential risks and schedule slippage.

- Review test results with the test team to clarify questions, concerning system functionality and discrepancies with expected results, and ensured that the system testing activity was a valid and complete exercise.
- Certify that the testing process was comprehensive in scope and complete manage the execution of system integration tests.

Erick Middleton will serve as the Test Team Lead

4.0 Developing Test Cases

The Students System Integration test cases were developed to test the requirements for Release 2. The test cases were created based on requirements from the Students Requirements Traceability Matrix. The test scripts were developed based on the following Release 2 documents: Students Detailed Design, Students Content Management Design, Xap Integration Detailed Design and the Detailed Portlet Technical Requirements. The test scripts will be updated, if necessary, when one of these documents is updated or when a gap exists with the test scripts. Exception cases have been included in the test scripts where necessary. The test scripts give detailed steps to test the requirements identified for Release 2.

4.1 Executing and Validating Test Cases

Each test case was designed as a discrete, executable exercise that would return a predictable result. Test Cases included a setup, input, and expected result sections. Each test case was designed to verify the functionality of a business scenario and described step by step how the business scenario was being tested.

The actual test results were then compared to the expected results to determine if the test ran correctly, “Pass” (or incorrectly, “Fail”) by the Test Team Analyst executing the case.

A “discrepancy” was defined as the difference between what was *expected* to happen and what *actually* happened. Discrepancies were initially evaluated to ensure that they represent system defects. The initial evaluation of discrepancies included:

- Review of the test data;
- Review of the test environment;



- Review of test scripts;
- Review of actual system functioning.

If it was determined that the “discrepancy” represented a system defect, the incident was forwarded to the development team for assessment and proposed solution. After successfully testing the modification, the incident was designated as “closed” by the Test Team Lead.

Validation of a test case occurred when the specific test activity has a status of “Pass” and was reviewed by the Test Team Lead. Completion of System Integration Testing was dependent upon each test activity having a status of “pass”.

Each test case/script will be executed by a Test Team Analyst in the test environment. The test environment is isolated logically on a server, but the server is shared with other applications. Only users who know the ID/PWD can login to Students portal. The Test Team Analyst will login to the Students portal before System Integration Testing is set to begin.

The test cases/scripts will be run in cycles and will be executed each time a new cycle is run. The entire Students portal will be regression tested each time a new cycle is run.

**Note: All tests objects are under Configuration Management control and are stored in Visual Source Safe.

4.2 SIR Tracking Process

While executing the test cases/scripts, the Test Team Analyst will keep track of issues and enhancements they find during System Integration Testing. ClearQuest will be used to record and manage system defects. The issues and enhancements found will be entered into ClearQuest by a Test Team Analyst. The Test Team Analyst will assign a degree of severity (1-Critical, 2-Average, 3-Minor, 4-Enhancement) and assign it to the appropriate developer to make the fix.

Critical defects are critical in nature and result in full or partial system failure, do not have acceptable workarounds, and demand immediate action. Average defects are non-critical in nature resulting in intermittent system failure or problems, do have acceptable workarounds, and do not prohibit the users from performing their tasks. Minor defects do not stop system operation, do have acceptable workarounds, are cosmetic in nature, have minimal effect on the system, do not prohibit the users from performing their tasks, and have the least priority.



When the issue has been resolved, the Test Team Analyst will test the modification and mark the incident as “closed” if the problem has been fixed. The Students portal page, where the problem was found, will also be regression tested. If the problem has not been fixed, the Test Team Analyst will mark the incident as unresolved and assign it to the appropriate developer to make the fix. This process will continue until the incident is marked as closed.

5.0 Test Scenarios/Cases

The following is a list of test cases, which will be used to write detailed test scripts. Detailed test scripts with expected results will be documented for each item listed below.

5.1 General Application Functionality and Security

- Verify that all the portal content has been revised to make the language less governmental and that equity is given to FFEL and Direct Loans alike.
- Verify that the following modules: College Savings Calculator, Self Assessment, Student Planner, College Finder, College Matching Wizard, Campus Tours, Online Applications, Financial Aid Wizard and Career Finder are incorporated into MyFSA.
- Verify that headlines have the ability to be linkable and non-linkable and that internal links open in the same window, whereas external links open in a new window.
- Verify that Students and Financial Partner headlines are read to separate tables.
- Verify that each user has one set of enterprise bookmarks.
- Verify that the Students and Financial Partners surveys and feedback go to different mail locations.
- Verify that search has pagination capabilities.

5.2 General Content, Site Resources

- Verify the functionality of the Publications link and that the Publications link is accessible in the left navigation bar on all the pages within the Students Portal.

5.3 Site Resources pages, Publications content

- Verify the functionality of the FAFSA link.
- Verify the functionality of the Completing the FAFSA link.
- Verify the functionality of the Student Guide link.
- Verify the functionality of the Funding Your Education link.
- Verify the functionality of the Audio Guide link.
- Verify the functionality of the HS Counselors Handbook link.
- Verify the functionality of the Managing the Price of College link.



- Verify the functionality of the Student Financial Web Sites link.
- Verify the functionality of the Myths about Financial Aid link.
- Verify the functionality of the Why Go to College? link.
- Verify the functionality of the Choosing a Career link.
- Verify the functionality of the Choose a Career Carefully link.
- Verify the functionality of the Need Training for a Job? link.
- Verify the functionality of the Don't Get Scammed on Your Way to College link.
- Verify the functionality of the Be an Informed Consumer link.
- Verify the functionality of the Military Scholarships link.
- Verify the functionality of the Federal Student Aid at a Glance link.
- Verify the functionality of the Looking for Student Aid link.
- Verify the functionality of the Stafford Loan Forgiveness for Teachers link.
- Verify the functionality of the EFC Formula link.
- Verify the functionality of the Don't Get Stung! link.
- Verify the functionality of the FSA Glossary link.
- Verify the functionality of the Loan Discharge Application: School Closures link.
- Verify the functionality of the Loan Discharge Application: False Certification of Ability to Benefit link.
- Verify the functionality of the Loan Discharge Application: False Certification (Disqualifying Status) link.
- Verify the functionality of the Loan Discharge Application: Unauthorized Signature/Unauthorized Payment link.
- Verify the functionality of the Total and Permanent Disability Cancellation Request link.
- Verify the functionality of the Forbearance Form for FFEL Loans link.
- Verify the functionality of the Forbearance Form for Direct Loans link.
- Verify the functionality of the Application for Forgiveness link.
- Verify the functionality of the Direct Loan Forms link.
- Verify the functionality of the Direct Consolidation Loan Forms link.

5.4 General Content, Audience Links

- Verify the functionality of the Graduate/Professional School link and that the Graduate/Professional School link takes you to the Graduate/Professional School page.

5.5 Audiences Pages, Graduate/Professional School content - Main

- Verify that there is information and links relevant to graduate students on the Graduate/Professional School page.



5.6 Audiences Pages, Returning Students content - Main

- Verify the functionality of the OVAE link.
- Verify the functionality of the Self Assessment link and that the Self Assessment link takes you to the Self Assessment tool.

5.7 Audience Pages, Parents content – Main

- Verify the functionality of the Home Equity link and that the Home Equity link takes you to the Home Equity page.
- Verify the functionality of the Cashing Investments link and that the Cashing Investments link takes you to the Cashing Investments page.
- Verify the functionality of 401K link and that the 401K link takes you to the 401K page.
- Verify the functionality of College Savings Calculator link and that the College Savings Calculator link takes you to the College Savings Calculator tool.
- Verify the functionality of Tax Incentives for Education-related Expenses link and that the Tax Incentives for Education-related Expenses link takes you to the Tax Incentives page.
- Verify the functionality of Saving Money for College link and that the Saving Money for College link takes you to the Saving Money page.

5.8 Student Portal Home

- Verify that there is an Announcements box on the Students Portal home page with links to the latest news and headlines within it.

5.9 Preparing Content - Main

- Verify the functionality of the Planner Timeline link and that the Planner Timeline link takes you to the Planner Timeline page.
- Verify the functionality of the Student Planner link and that the Student Planner link takes you to the Student Planner tool.
- Verify the functionality of the College Savings link and that the College Savings link takes you to the College Savings tool.
- Verify the functionality of the Self Assessment link and that the Self Assessment link takes you to the Self Assessment tool.

5.10 Preparing Content – Planner Timeline

- Verify the functionality of the Grade 8 Timeline link and that the Grade 8 Timeline link takes you to the Grade 8 Timeline page.
- Verify the functionality of the Grade 9/Freshman Year Timeline link and that the Grade 9/Freshman Year Timeline link takes you to the Grade 9/Freshman Year Timeline page.



- Verify the functionality of the Grade 10/Sophomore Year Timeline link and that the Grade 10/Sophomore Year Timeline link takes you to the Grade 10/Sophomore Year Timeline page.
- Verify the functionality of the Grade 11/Junior Year Timeline link and that the Grade 11/Junior Year Timeline link takes you to the Grade 11/Junior Year Timeline page.
- Verify the functionality of the Grade 12/Senior Year Timeline link and that the Grade 12/Senior Year Timeline link takes you to the Grade 12/Senior Year Timeline page.

5.11 Preparing Content – Testing Information

- Verify the functionality of the Testing Preparation link.

5.12 Choosing Content – Main

- Verify the functionality of the College Selection link and that the College Selection link takes you to the College Selection tool.
- Verify the functionality of the Campus Tours link and that the Campus Tours link takes you to the Campus Tours tool.
- Verify the functionality of the Distance Learning Information link.

5.13 Choosing Content – Types of Schools

- Verify the functionality of the Distance Learning Information link.

5.14 Applying Content - Main

- Verify the functionality of the Online Applications link and that the Online Applications link takes you to the Online Applications tool.

5.15 Funding Content – Main

- Verify the functionality of the State Guarantee Agencies link.
- Verify the functionality of the Reduce College Costs link and that the Reduce College Costs link takes you to the Reduce College Costs page.
- Verify the functionality of the How to Choose and Evaluate Lenders link and that the How to Choose and Evaluate Lenders link takes you to the How to Choose and Evaluate Lenders page.
- Verify the functionality of the Sample Awards Package link and that the Sample Awards Package link takes you to the Sample Awards Package page.
- Verify the functionality of the Financial Aid Wizard link and that the Financial Aid Wizard link takes you to the Financial Aid Wizard tool.
- Verify the functionality of the Saving Money for College link and that the Saving Money for College link takes you to the Saving Money for College page.



- Verify the functionality of the Other Sources of Financial Aid link and that the Other Sources of Financial Aid link takes you to the Other Sources of Financial Aid page.
- Verify that Funding page contains or has a link to an Amortization table.

5.16 Funding Content – Scholarships

- Verify the functionality of the General Scholarship Information link and that the General Scholarship Information link takes you to the General Scholarship Information page.
- Verify the functionality of the What does it take to get a scholarship? link and that the What does it take to get a scholarship? link takes you to the What does it take to get a scholarship? page.
- Verify the functionality of the How do I find out about scholarships? link and that the How do I find out about scholarships? link takes you to the How do I find out about scholarships? page.
- Verify the functionality of the How do I apply for scholarships? link and that the How do I apply for scholarships? link takes you to the How do I apply for scholarships? page.
- Verify the functionality of the Scholarships Checklist link and that the Scholarships Checklist link takes you to the Scholarship Checklist page.
- Verify the functionality of the FAFSA Information link and that the FAFSA Information link takes you to the FAFSA Information page.

5.17 Funding Content – Other Sources of Financial Aid

- Verify the functionality of the Department of Veterans Affairs link.
- Verify the functionality of the United States Army link.
- Verify the functionality of the Americorp link.
- Verify the functionality of the Department of Health and Human Services link.
- Verify the functionality of the Indian Health Service link.
- Verify the functionality of the National Institute of Health link.
- Verify the functionality of the Workforce Investment Act link.
- Verify the functionality of the Students.gov link.

5.18 Funding Content – FAFSA Information

- Verify the functionality of the FAFSA link.
- Verify the functionality of the PIN Site link.
- Verify the functionality of the Federal School Code Search link.
- Verify the functionality of the Completing the FAFSA link.

5.19 Attending Content – Closed School Information

- Verify the functionality of the List of Closed Schools and Contact Information link and that the List of Closed Schools and Contact Information link takes you to the List of Closed Schools and Contact Information page.
- Verify the functionality of the Loan Discharges link and that the Loan Discharges link takes you to the Loan Discharges page.

5.20 Attending Content - Closed School Contact Information

- Verify that there is contact information for recently closed schools (it will be initially empty).

5.21 Attending Content – Career Information

- Verify the functionality of the Self Assessment link and that the Self Assessment link takes you to the Self Assessment tool.
- Verify the functionality of the Find a Career link and that the Find a Career link takes you to the Find a Career tool.
- Verify the functionality of the Career List link and that the Career List link takes you to the Career List tool.

5.22 Repaying Content – Main

- Verify the functionality of the Cancellation/Deferment Options for Teachers link and that the Cancellation/Deferment Options for Teachers link takes you to the Cancellation/Deferment Options for Teachers page.
- Verify the functionality of the Childcare Provider Loan Forgiveness Program link.

5.23 Repaying Content – Cancellation/Deferment Options for Teachers

- Verify the functionality of the Canceling a Perkins Loan link and that the Canceling a Perkins Loan link takes you to the Canceling a Perkins Loan page.
- Verify the functionality of the Canceling a Stafford Loan link and that the Canceling a Stafford Loan link takes you to the Canceling a Stafford Loan page.
- Verify the functionality of the Stafford Loan Deferment Provisions link and that the Stafford Loan Deferment Provisions link takes you to the Stafford Loan Deferment Provisions page.
- Verify the functionality of the Douglas Scholarship Reduces Service link and that the Douglas Scholarship Reduces Service link takes you to the Douglas Scholarship Reduces Service page.



5.24 Repaying Content – Difficulty Repaying

- Verify the functionality of the Ombudsman link.

5.25 Repaying Content – Electronic Payment

- Verify the functionality of the EBPP link.

5.26 XAP

- Verify that the Data Receipt module processes the form, logs the user on, updates the local profile and redirects the URL.
- Verify that Data Transfer module loads profile elements and logon credentials into a hidden form.
- Verify that Xap’s hosted pages match the user interface of the existing portal pages to ensure seamless page transitions.
- Verify that user profiles are being synchronized via a batch process between Xap and FSA.
- Verify that a user can login from either the Xap or FSA side of the site.
- Verify that if the login is successful that the user is taken to the referring page if login originated from Xap.
- Verify that if the login is successful that the user is taken to the Students home page if login originated from FSA.
- Verify that if authentication is unsuccessful the user is taken back to the login page with appropriate errors.
- Verify that the registration process is only invoked from the login page.
- Verify that when a user registers they are taken to a profile page where they can fill out their information.
- Verify that if the registration is successful a new user is created in the Xap database and the user is taken to the next page.
- Verify that if the registration is unsuccessful the user is taken back to the registration page with appropriate errors.
- Verify that data transfers are submitted over secure server.
- Verify that site search is accessible and searchable from either the Xap or FSA side of the site.
- Verify that the following menu items: MyBookmarks, Add This Page to Bookmarks, Introduction , Colleges, E-Mail, Profile, Financial Aid, Event Calendar, Career and Planner Output will persist on every page when a user is logged in to the portal.
- Verify that the Site Resources box is always on the right hand side and underneath any content related boxes (e.g. Related Links).

- Verify that the search box has been moved to the left navigation bar.

5.27 Interwoven

- Verify that Interwoven provides a user the ability to create (new page) or edit a piece of content.
- Verify that if a user creates a piece of content, Interwoven displays the available list of Data Capture Templates.
- Verify that when reviewing existing content, Interwoven displays all comments already associated with that content.
- Verify that when content is accepted, Interwoven ends the current user's task, and moves the content to the next step in the workflow.
- Verify that when content is rejected, Interwoven ends the current user's task and moves the content to the next step in the workflow.
- Verify that Interwoven provides the user the option to view an illustrative version of a piece of content as it might appear on the live website.
- Verify that Interwoven allows an approver to accept (submit content to staging), or reject (return content to owner) content.
- Verify that Interwoven allows a user to copy and paste existing content into a DCT for a new data capture record.
- Verify that Interwoven can archive content.
- Verify that Interwoven allows the system administrator to structure and name a workflow based on functional processes.
- Verify that Interwoven provides the user the option to tie user groups to the different steps of a workflow.
- Verify that Interwoven captures the workflow history of a piece of content for audit purposes.
- Verify that Interwoven provides an area within workflow for a user's comments.
- Verify that Interwoven provides a workflow that is initiated when a user or specific role submits a file.
- Verify that the workflow couples the relevant content with the workflow.
- Verify that the workflow automatically deploys content to the test environment after file submission.
- Verify that the workflow sends content to an approver after file submission.
- Verify that the workflow provides the approver the capability to approve content changes.
- Verify that the workflow provides the approver the capability to reject content changes.
- Verify that the workflow automatically deploys content to the production environment



after approval.

- Verify that the workflow sends content back to user who initiated workflow after rejection.
- Verify that the workflow allows an external contributor (no access to Interwoven) the ability to review and accept content.
- Verify that Interwoven provides the ability to send email notification at each decision point in the workflow.
- Verify that Interwoven prevents an editor from approving his own work.

6.0 Overall Testing Schedule

The project plan dates for testing activities are:

ID	WBS	Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource
43	79.1.4	Test	66 days	Fri 6/28/02	Fri 9/13/02	0%		
44	79.1.4.33	Test Plans	11 days	Fri 6/28/02	Fri 7/12/02	0%		EM
46	79.1.4.34	Test Scripts	20 days	Fri 7/5/02	Thu 8/1/02	0%		EM
46	79.1.4.55	Unit Test	5 days	Mon 7/8/02	Fri 7/12/02	0%		
47	79.1.4.55.1	Unit Test Plan	5 days	Mon 7/8/02	Fri 7/12/02	0%		EM
48	79.1.4.55.2	Unit Test Review	1 day	Fri 7/12/02	Fri 7/12/02	0%		EM/MV,JD
49	79.1.4.35	System Integration	20 days	Mon 7/29/02	Fri 8/23/02	0%		
50	79.1.4.35.1	Student Portal	20 days	Mon 7/29/02	Fri 8/23/02	0%		
51	9.1.4.35.1.5	Content	20 days	Mon 7/29/02	Fri 8/23/02	0%		EM/MV,JD
52	9.1.4.35.1.1	CM Testing	20 days	Mon 7/29/02	Fri 8/23/02	0%		AB,EM
53	9.1.4.35.1.6	Integration w/ Xap Modules	20 days	Mon 7/29/02	Fri 8/23/02	0%		EM/MV,JD
54	9.1.4.35.1.7	Xap Data Transfer	20 days	Mon 7/29/02	Fri 8/23/02	0%		EM/MV,JD
55	9.1.4.35.1.8	Portlets	15 days	Mon 8/5/02	Fri 8/23/02	0%		EM/MV,JD
56	9.1.4.35.1.1	Financial Partners Portal	20 days	Mon 7/29/02	Fri 8/23/02	0%		
57	1.4.35.1.1.1	Content	20 days	Mon 7/29/02	Fri 8/23/02	0%		EM/MV,JD
58		CM Testing	20 days	Mon 7/29/02	Fri 8/23/02	0%		AB,EM
59	1.4.35.1.1.2	Portlets	15 days	Mon 8/5/02	Fri 8/23/02	0%		EM/MV,JD
60	79.1.4.35.6	System Integration Test Review and Sign-Off	1 day	Fri 8/23/02	Fri 8/23/02	0%		EM/MV,JD
61	79.1.4.42	Accessibility	10 days	Mon 8/12/02	Fri 8/23/02	0%		
62	79.1.4.42.1	508 Compliance Review	10 days	Mon 8/12/02	Fri 8/23/02	0%		EM/MV,JD
63	79.1.4.42.2	Deliverable Review and Sign-Off	1 day	Fri 8/23/02	Fri 8/23/02	0%		EM/MV,JD
64	79.1.4.46	User Acceptance Test	3 days	Tue 9/3/02	Thu 9/5/02	0%		
65	79.1.4.46.1	Students UAT	1 day	Thu 9/5/02	Thu 9/5/02	0%		EM,CL
66		Financial Partners UAT	2 days	Tue 9/3/02	Wed 9/4/02	0%		CL,EM
67	79.1.4.46.3	UAT Review and Sign-Off	1 day	Thu 9/5/02	Thu 9/5/02	0%		EM/MV,JD
68	79.1.4.57	Performance Test	12 days	Thu 8/29/02	Fri 9/13/02	0%		
69	79.1.4.57.7	Cycle 1	3 days	Thu 8/29/02	Mon 9/2/02	0%		MV
70	79.1.4.57.8	Cycle 2	3 days	Tue 9/3/02	Thu 9/5/02	0%		MV
71	79.1.4.57.9	Cycle 3	3 days	Thu 9/5/02	Mon 9/9/02	0%		MV
72	79.1.4.57.10	Cycle 4	3 days	Tue 9/10/02	Thu 9/12/02	0%		MV
73	79.1.4.57.1	Cycle 5 (Optional)	1 day	Thu 9/12/02	Thu 9/12/02	0%		MV

Note: Any changes in the development timeframes will have significant effect on this plan.



7.0 ISSUES / QUESTIONS

The following issues / questions related to the System Integration Test Plan.

Issue	Resolution