



**Schools Portal V1.0 Test Plan
Attachment E
12 June 2000**

SFA Portal V1.0 Test Plan

Overview

This document describes the test plan for the SFA Portal V1.0 application. It is divided into three sections. The first section is the methodology, which defines what is accomplished in each of the testing phases. The second section is the timeline, which describes when the testing phases will take place. The last section is the test outlines, providing a finer level of detail about exactly how testing will be conducted, and what will be tested.

Methodology

There are 5 levels of testing prior to final delivery of software to the customer. These are unit, system, integration, capacity, and user testing. The first 3 are primarily functional in nature, ensuring that desired operation is in fact implemented. The fourth, capacity, ensures that the system will perform as desired. Unit and system testing occur at the development site. Integration and Capacity testing will occur at the production site, using the production environment. User tests are the fifth and final level of testing prior to rollout. Typically there are three stages: user acceptance testing (UAT), Alpha test, and Beta test.

The focus in this document is on the unit and system testing that will take place prior to migration of the Portal application to the production environment in the VDC. Exolve is clearly responsible for testing in the development environment and is currently expected to play a support role in the production environment. The use cases that make up the majority of unit and system testing, however, also serve as a significant component of the testing that will be done in the VDC and the final stage of testing with users.

Unit Testing

Unit testing is performed both by developers as they build code and by test personnel as a dedicated activity once code is frozen. Unit testing focuses on the basic elements of technical functionality that make up the application and are articulated in the application architecture and detailed design.

System/Use-Case Testing

System testing is performed by dedicated test personnel, according to a use-case-based test outline. The outline follows the requirements document as closely as possible, in order to provide maximum confidence that all desired functionality works as expected.

Integration Testing

Integration testing is a combination of two operations. The first is a re-run of the system test outline once installation is done in the production environment. The second is any additional use-cases that require the complete integrated installation. The latter is not expected to be very large, since the Portal is fairly autonomous in its function. The largest task, integrated search, will already be mostly covered by the search use-cases that are already a part of the system test outline. If the Intranet V2 is operational in our integration timeframe, and they implement calendar/headline updating as desired, this will be added to the integration test outline as well.

Capacity Testing

Capacity testing attempts to simulate expected customer peak load operations in order to ensure that system performance requirements are met. It does not necessarily exercise all of the functional areas of the portal, but selects a subset that is easy to replicate in volume. It will ensure that functions which are expected to use the most system resources are adequately represented. The capacity test outline will also verify that the surrounding network architecture is also sufficient to support desired peak load.

User Acceptance Testing (UAT)

User Acceptance Testing involves a small number of subject matter experts who have adequate skills and system knowledge to break the system, thereby identifying bugs that were missed during the unit and system integration test phases. Once the code is deemed sufficiently debugged, it is then put through two more test groups (Alpha and Beta) comprised of regular users.

Alpha Testing

Alpha testing begins to focus on user feedback on the quality and usability of the product to be rolled out. Typically, alpha testing involves a first attempt to use the application in the work environment, recognizing that it will still occasionally break. The users are carefully selected to be knowledgeable and friendly, so that the product will get rigorous use and glitches will be 'forgiven'.

Beta Testing

The final stage of user testing is typically referred to as a Beta test and consists of a larger set of users (e.g., 200) to further stress test the system before it is rolled out to a full-scale production environment. As with Alpha test, the Beta test involves using the application in a work environment. Feedback is solicited on the usability of the application and due to the larger population of users and wider variety of uses, further bugs are identified. Bugs found in Beta testing generally are not of high severity and often end up as requests for enhancements to existing functionality to improve ease of use. Beta testing also can be a powerful vehicle for identifying high priority user requirements for the next release. The Beta test group will be determined by SFA. Upon successful completion of Beta testing, and in conjunction with support processes in place, the system is deemed ready for rollout to a production environment.

Test Timeline

Given the delays in setting up the development environment, the proposed test plan going forward is to freeze code on 8/7 and shorten the testing, debugging, and deployment timeframe from 10.5 to 7.5 weeks. Building off the dates presented to SFA, revised dates and implications for the testing, debugging, and deployment timeframe are as follows:

- Unit and system testing for the portal application prior to migration to the VDC will occur between 8/7 and 8/21. The new testing schedule will consist of the following activities: 2 days for use case testing, 5 days for initial debugging and install of debugged code, 2 days for use case testing (round 2), and 3 days debugging and install of debugged code.
- Migration of code to the VDC and round 3 of testing, debugging, and install of debugged code from 8/22 to 8/27. To make up for shortening the development environment application level unit and system testing timeframe from 4 weeks to 2 weeks we need to conduct round 3 of testing in the development in parallel with migration to the production environment. Round 3 of testing will consist of 2 days of use case testing and 3 days to debug and install debugged code, this time in the production environment. Migration on 8/22 will have to proceed with Round 2 tested code. Round 3 tested code will be installed prior to beginning system integration testing on 8/28. Conducting round 3 development environment testing in parallel with migration to the VDC will make up for one week of shortened development environment application testing but assumes that the migration goes smoothly enough that we can easily install new code at the end of the migration timeframe.
- Integrated test in the VDC from 8/28 to 9/8. This will involve an intensive effort of testing and debugging code to address both integrated application and production environment testing and to make

up for the additional week of lost development environment application level testing. Additionally, the VDC will need to conduct capacity tests, during which time the application will be unavailable for system integration testing.

- UAT, Alpha, and Beta test. Because of the current compressed development timeframe, we recommend that UAT and Alpha test be combined into one 10 day test and be comprised of internal SFA “power users” running both the use case tests and freeform usage of the application. Beta test then can consist of 10 days as well and allow sufficient time to test and turn around a new install of debugged code for deployment on 10/2. We recommend that Beta test be comprised of both continued testing by internal “power users” who will focus on identifying remaining bugs and external customers who will focus on providing feedback and identifying high priority requirements for the next release.

We believe this is a viable plan albeit with higher risks than the original project schedule. We also believe that there are two critical decision points at which the feasibility of the 9/30 date should be reassessed. The first decision point is on 8/27 and consists of two critical milestones: (1) successful completion of migration to the VDC, and (2) level of stability of code for the independent portal and IFAP applications. The second decision point is on 9/8 and consists of three critical milestones: (1) stability of code in the production environment including capacity tests, (2) an acceptable level of bugs with which to proceed to UAT, and (3) elimination of technology risks associated with the underlying COTS applications and the VDC production environment.

Clearly, the largest risk to managed in this revised approach lies in the migration to the VDC and in extremely tight management and coordination of the activities at the VDC from 8/22 through 9/8. Successful passage through this timeframe and set of activities will require significant advance planning and orchestration of all the players.

Test Outlines

The following section describes the outline format of each of the test phases. It is not intended to be the final outline document, as this will continue to be developed by the testers as the spiral development process is followed. There are also issues that impact the test outlines that have not been resolved yet. This is especially true for the integration and capacity phases, where integrated functionality and the production environment have yet to be finalized.

Unit Test Outline

The unit test outline is comprised of the application detailed design.

System Test Outline

The system test outline performs a mapping of all requirements to appropriate use-cases. Full specification of test cases (to include exact data-entry and keystroke info) will be developed in tandem with the software. Test plan completion will coincide with software development completion, ensuring that test plan mirrors final software exactly. The following is the first-level outline of system test, identifying the use-cases from which the final test outline will be constructed:

SFA Site Requirements Testing

- The GAPS site (<http://gapsweb.ed.gov/>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The Pell Grants site (<http://www.pellgrantsonline.ed.gov/>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site

- The NSLDS site (<http://nslsdfap.ed.gov/secure/logon.asp>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The Bulk Publication Ordering System site (<http://webprod.aspensys.com/education/epos/newbpos/default.asp>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The Application to Participate site (<http://www.eligcert.ed.gov/>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The IFAP site (<http://www.ifap.ed.gov>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The SFA Download site (<http://www.sfadownload.ed.gov/>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The SFA Tech Support site (<http://ed.gov/offices/OSFAP/sfatech/index.html>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The SFA Coach site (<http://http.ifap.ed.gov/sfacoach/index.html>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The QAP site (<http://www.ed.gov/offices/OSFAP/QAP/>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The FAFSA site (<http://www.fafsa.ed.gov>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The SFA Ombudsman site (<http://www.sfahelp.ed.gov/>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The Loan Consolidation site (<http://loanconsolidation.ed.gov>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The DL Origination site (https://lo-online.ed.gov/lo_online/index.shtml) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The DL Servicer site (<http://dlservicer.ed.gov>) [3.1-1]
 - Use-Case:** User attempts to bring up website homepage from Portal home site
 - Use-Case:** User attempts to bring up website homepage from Portal personalized site
- The PEPS site (<http://www.ed.gov/offices/OSFAP/PEPS>) [3.1-1]

Use-Case: User attempts to bring up website homepage from Portal home site

Use-Case: User attempts to bring up website homepage from Portal personalized site

- The CAMS site [3.1-1]

Use-Case: User attempts to bring up website homepage from Portal home site

Use-Case: User attempts to bring up website homepage from Portal personalized site

- The SFA University site (<http://www.ed.gov/offices/OPE/announce/trng>) [3.1-1]

Use-Case: User attempts to bring up website homepage from Portal home site

Use-Case: User attempts to bring up website homepage from Portal personalized site

Portal Home Site Requirements Testing

- The SFA Portal shall provide a Home Site [3.2-1]

- The Home Site shall be an Open Site [3.2-2]

- The main page of the Home Site shall be directly accessible [3.2-6]

Use-Case: User attempts to bring up Portal home page from browser, ensuring no login is required

- The Home Site shall provide information on Personal Sites [3.2-3]

- The Home Site shall provide information on navigating through the portal [3.2-4]

- The Home Site shall provide information on obtaining Personal Site access [3.2-5]

Use-Case: User finds help icon/text on Home Site, navigates to help page, and accesses content concerning Home Site functionality.

- The main page of the Home Site shall provide access to the Login Page [3.2-7]

- The main page of the Home Site shall provide access to the Integrated Search interface [3.2-8]

- The main page of the Home Site shall provide info and links on downloading the best browsers for viewing the site (IE5.x, and the latest Netscape version available) [*This is an additional recommended business requirement that relates to encouraging users to download the latest version of the browsers.*] [3.2-9]

- The main page of the Home Site shall provide access to the Feedback page [3.2-10]

- The main page of the Home Site shall provide access to the Privacy Statement page [3.2-11]

Use-Case: User will find appropriate icon/text on Home site, and ensure that clicking on icon/text navigates to appropriate content.

Calendar of Events Requirements Testing

- The main page of the Home Site shall contain an area that displays an SFA Master Calendar of Events [3.2.1-1]

- The Calendar of Events shall display one month of events at a time [3.2.1-2]

Use-Case: User will identify calendar on Home site, and verify that it contains 1 month's worth of events (defaulting to the current month).

- The Calendar of Events shall allow users to navigate through the calendar in one month increments [3.2.1-3]

- The Calendar of Events shall allow users to display the current month of events [3.2.1-4]

Use-Case: User uses prev/next buttons in calendar area to move forward and backward in one month increments. After navigation, user uses current button to return to current month.

- The Calendar of Events shall allow users to navigate directly to a given month [3.2.1-5]

Use-Case: User uses month/year entry feature of calendar to move directly to a selected month.

- The Calendar shall provide SFA the ability to hyperlink from the Calendar to related documents or other sections of the Portal or other sites. [3.2.1-6]

- The Calendar of Events shall list events grouped into categories.[3.2.1-7]

- The Calendar of Events area shall be composed of a scrolling text area containing the events in chronological order [3.2.1-8]
Use-Case: User verifies that events in calendar are grouped in categories, items are in chronological order, and that hyperlinks within events navigate to identified sites/content when clicked on.
- The Calendar of Events shall provide SFA staff the ability to assign a time span to a calendar event For example, an event may need to be posted from June 1 through June 8. [3.2.1-9]
- The Calendar of Events shall provide SFA staff the ability to make the display of a calendar event mandatory to all users. [3.2.1-10]
Use-Case: User with administrative privilege will use Calendar Update UI to enter an event into the calendar, and ensure that UI prompts for whether event is for mandatory display or not.
- The Personal Site shall provide a Calendar of Events that can be filtered by the user to only show calendar events that are of categories of their choosing with the exception of events that have been marked as mandatory. [3.2.1-11]
Use-Case: User uses Personal Site personalization to filter events from calendar. User then enters Personal Site page and sees that events in categories which have been excluded do not appear. User also sees that events marked as mandatory do appear, regardless of category.

Headlines Area Requirements Testing

- The main page of the Home Site shall contain an area that displays a set of Headlines or News Briefs. [3.2.2-1]
- The Headlines area shall include overall ED news, as well as sections specifically related to the Schools Channel, the Students Channel and the Financial Partners channel. [3.2.2-2]
- The Headlines area shall provide SFA staff the capability to assign a category to a news event [3.2.2-3]
- The Headlines area shall be a categorized bullet list of information. [3.2.2-4]
Use-Case: User sees headlines area on Home Site, and verifies that it contains bulleted news items divided into categories.
- The Headlines area shall provide SFA staff the ability to assign a time span to a news event. For example, a news event may need to be posted from June 1 through 8 only. [3.2.2-5]
- The Headlines area shall provide SFA staff the ability to make the display of a news event mandatory to all users. [3.2.2-6]
Use-Case: User with admin privilege uses Headline Update UI to enter a headline, ensuring that UI prompts for category and whether headline event is mandatory
- The Personal Site shall provide users with a Headlines area that can be filtered by the user to only show news events that are of categories of their choosing, with the exception of events that have been marked as mandatory. [3.2.2-7]
Use-Case: User uses Personal Site personalization to filter events from headlines. User then enters Personal Site page and sees that events in categories which have been excluded do not appear. User also sees that events marked as mandatory do appear, regardless of category.

Links Area Requirements Testing

- The main page of the Home Site shall provide an organized list of links to all of the SFA web sites [3.2.3-1]
- The list of links shall contain a category titled “Exchange Data” which contains the following links: [3.2.3-2]
 - A link to the LO(Direct Loans Batch Files) site
 - A link to the NSLDS site
 - A link to the Pell site
 - A link to the QAP site
- The list of links shall contain a category titled “Check Student Records” which contains the following links: [3.2.3-3]
 - A link to the LO(Origination Record and PLUS Credit Check) SFA site

- A link to the Pell Grants SFA site
- A link to the NSLDS site
- A link to the DLSS site
- A link to the FAFSA site
- A link to the Loan Consolidation site
- The list of links shall contain a category titled “Book Store” which contains the following links:
 - [3.2.3-4]**
 - A link to the Order Bulk Publications For Students SFA site
 - A link to the Order Technical Publications SFA site
 - A link to the SFA Download SFA site
 - A link to the PEPS site
- The list of links shall contain a category titled “Training/Conferences” which contains the following links: **[3.2.3-5]**
 - A link to the Direct Loan Conferences SFA site
 - A link to the Quality Assurance Conferences SFA site
 - A link to the Electronic Access Conferences SFA site
 - A link to the SFA Coach SFA site
 - A link to the SFA University site
 - A link to the NASFAA training site (need URL)
 - A link to the NACUBO training site (need URL)
- The list of links shall contain a category titled “Online Library” which contains the following links: **[3.2.3-6]**
 - A link to the SFA Handbooks SFA site
 - A link to the CFRs SFA site
 - A link to the DPL SFA site
 - A link to the QAP SFA site
 - A link to the SFA Tech Support SFA site
- The list of links shall contain a category titled “Contact Us” which contains the following links: **[3.2.3-7]**
 - A link to the SFA Ombudsman SFA site
 - A list of Current Phone #'s & E-Mails IIS, CAMS, IFAP Contact List, CASE Teams
- The list of links shall contain a category titled “Program Participation and Funding” which contains the following links: **[3.2.3-8]**
 - A link to the E-App SFA site
 - A link to the FISAP SFA site
 - A link to the GAPS SFA site
 - A link to the PEPS Institutional File SFA site

Use-Case: User will see categorization of SFA sites at the Home Site, and verifies that required sites are included in each list.

Login Page Requirements Testing

- The SFA Portal shall provide a Login Page **[3.3-1]**
- The Login Page shall be an Open Site **[3.3-2]**
- The Login Page shall be directly accessible **[3.3-3]**
- The Login Page shall require the user to enter their SFA Portal login name **[3.3-4]**
- The Login Page shall require the user to enter their SFA Portal password **[3.3-5]**
- The Login Page shall provide access to the Personal Site associated with the login name and password **[3.3-6]**

Use-Case: User will enter the login page from the Home Site, and verify it prompts for name and password. Entering correct name and password provides access to Personal Site.

- The Login Page shall inform the user if the login name and password do not match and of the method needed to contact the system Help Desk [3.3-7]
Use-Case: User enters invalid name/password at login page, and sees message that login is invalid, and how to contact help desk. System **does not** allow access to a Personal Site.
- The Login Page shall provide a mechanism to allow users to create their own SFA Portal Account by which they are able to gain access to their Personal Site. [3.3-8]
Use-Case: User uses 'create new account' button on login page to create a new account, ensuring that create-account page performs password re-type verification. User verifies that incorrect password re-type creates error message. User sees that after all information has been provided and verified, access is provided to new Personal Site.

Personal Site Requirements Testing

- The SFA Portal shall provide a Personal Site [3.4-1]
- The Personal Site shall only be accessible once the user has been authenticated through the Login Page [3.4-2]

Both covered by Login Page testing

- The Personal Site shall provide a mechanism for the user to change their SFA Portal password [3.4-3]
- All Personal Site pages shall provide access to the Feedback page [3.4-4]
- All Personal Site pages shall provide access to the Integrated Search interface [3.4-5]
- The main page of the Personal Site shall display the user's customized list of personal bookmarks [3.4-6]
- The main page of the Personal Site shall display the user's customized list of SFA sites [3.4-7]
- The main page of the Personal Site shall display a Calendar of Events that can be filtered by category. [3.4-8]
- The main page of the Personal Site shall display a Headlines section that can be filtered by category. [3.4-9]
Use-Case: User will enter Personal Site, and see each of the icon/text items listed
- The Personal Site shall provide a mechanism for users to filter events displayed in their calendar by category. [3.4-10]
- The Personal Site shall provide a mechanism for users to filter news events displayed in their Headlines section by category.[3.4-11]
- The Personal Site shall provide information on how to customize the SFA Site list [3.4-12]
- The Personal Site shall provide information on how to customize the list of Personal Bookmarks [3.4-13]
- The Personal Site shall provide information on how to apply filters to the Calendar [3.4-14]
- The Personal Site shall provide information on how to apply filter to the Headlines [3.4-15]
- The Personal Site shall provide information on how to change your SFA Portal password. [3.4-16]
Use-Case: User will enter identified customization page, and verify that each of the required customization options is available. User leaves customization page and notes that requested changes have been applied to Personal Site. User will re-enter customization page and change items back. User again leaves customization page and notes that Personal Site is as it was before changes.

Feedback Page Requirements Testing

- The SFA Portal shall provide a Feedback Page [3.5-1]
- The Feedback page shall provide a mechanism for the users to send feedback regarding the SFA Portal to the Portal administrators [3.5-2]
- The Feedback page shall provide a mechanism for the users to send feedback containing general SFA inquiries to an SFA representative [3.5-3]

Use-Case: User enters feedback page from Home Site. User sees opportunity to send feedback message to each of identified people. User ensures that same feedback content is available from Personal Site.

Privacy Statement Page Requirements Testing

- The SFA Portal shall provide a Privacy Statement Page [3.6-1]
- The Privacy Statement Page shall display the current version of the Privacy Statement [3.6-2]
Use-Case: User sees that clicking privacy statement icon/text on Home Site brings up correct Privacy Statement information. User sees that same info is provided by clicking icon/text from Personal Site.

Integrated Search Requirements Testing

- The SFA Portal shall provide an integrated search interface [4.1-1]
- The Integrated Search interface shall allow the user to submit searches against all available targets indexed/spidered by the search engine [4.1.1-1]
- The Integrated Search interface shall support natural language queries [4.1.1-2]
- The Integrated Search interface shall support boolean keyword queries [4.1.1-3]
Use-Case: User sees search area on Home Site and Personal Site. User sees that search target is selectable, but can include entire SFA domain. User enters a natural language search and verifies that results match query. User enters a Boolean keyword query and verifies that results match request.
- The Integrated Search interface shall provide a link to a Search Help page, which will include [4.1.1-4]
 - An explanation of the construction of natural language queries
 - An explanation of the construction of boolean keyword queries
Use-Case: User navigates to help page, and sees useful information, including examples of how to construct all query types supported by engine.
- The SFA Portal shall provide a mechanism for the user to view a list containing the results of their searches [4.1.2-1]

Covered by first use-case testing

- The SFA Portal shall provide a mechanism for the user to retrieve the target of a link in their list of search results [4.1.2-2]
Use-Case: User will click on results of a search and see that the requested content is presented.
- The search engine shall be configurable to use a distributed/parallel search wherever a SFA web site provides an Autonomy index [4.1.3-1]
- The search engine shall be configurable to index/spider all non-access-controlled URL-accessible content of SFA sites that do not provide an Autonomy index [4.1.3-2]

Out of Scope for System Test. Will be tested as part of Integration Test Plan.

Customization Requirements Testing

- The SFA Portal shall allow the user to customize the content of the main page of their Personal Site [4.2-1]

Covered by Personal Site requirements testing

Personal Bookmarks Requirements Testing

- The Personal Site shall provide a mechanism for the user to add a URL to their list of personal bookmarks [4.2.1-1]
- The Personal Site shall provide a mechanism for users to remove a personal bookmark from their list [4.2.1-2]

Covered by Personal Site Requirements testing

Customizable SFA Site List Requirements Testing

- The Personal Site shall provide a mechanism for the user to choose zero or more of the SFA web sites to display on their customized page [4.2.2-1]

Covered by Personal Site requirements testing

Navigation Requirements Testing

- All sites external to the SFA Portal accessed through links in the Portal shall be displayed in a new window [4.3-1]
- All sites internal to the SFA Portal accessed through links in the Portal shall be displayed in the current window [4.3-2]

Use-Case: User will navigate links from SFA site list, as well as external sites identified in the bookmark list. User will see appropriate browser operation depending on navigation selected.

Integration Test Outline

This testing will cover all functional areas of Portal that could not be adequately tested at the System level, because of outside dependencies. As of now, this mainly pertains to integrated search, but may also apply to Calendar/Headlines, as mentioned in the **methodology** section.

Use-Case: User with admin privilege will go to Autonomy configuration and verify that it set up to distributed searches on IFAP and any other SFA site that uses Autonomy. User sees that all other Sites are set up to be spidered through non-sensitive, URL-based content.

Use-Case: User performs a query across entire SFA domain and sees that items returned that reside in IFAP are in the same format as items returned from other locations.

Use-Case: User clicks on item returned from IFAP and sees that content is presented in the same manner as if it was selected directly from the IFAP site or IFAP search results.

Use-Case: User navigates to IFAP site and sees that all pages there have same 'look and feel' as the SFA Portal Home Site pages.

This is the current list of additional integration use-cases, and will be expanded as development progresses.

Capacity Test Outline

The mission and scope of the capacity testing is still somewhat of an open issue, depending on what testing is owned by TO 16. The SFA Portal **must** be volume-tested in a production environment, using a representative functional cross-section, in order to ensure that capacity requirements are met. Exolve will construct such a representative test outline with the idea that something equivalent must be performed.

Currently, our target total user volume is 30,000. Our current breakdown of this volume translates to a steady-state load of 400 simultaneous users (1+minutes sustained), with a peak load of 1000 simultaneous users (<1minute sustained). This simultaneous user load should be broken into 3 categories: search use, Portal function use, and click-through use. Search use means searching from either the Home site or the Personal Site. Portal Function Use means navigating within the Portal pages, accessing help, and customizing settings. Click-through use means entering the Portal, but then navigating to either an SFA site or an external site (via bookmark) and doing work there. The current target percentages are 8%search, 20% Portal Functions, 72% Click-through. The tools used to perform and and measure this testing are currently TBD.