



WBSCM UPDATE

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FEATURE

WBSCM Readiness: USDA SIT Validation Activities

The previous issues of the WBSCM update featured the agencies' Go-Live collaborative activities focused on getting the WBSCM user community ready and prepared for WBSCM.

The WBSCM team (USDA, USAID and SRA) continues to execute WBSCM testing, training, data maintenance and governance activities.

With the WBSCM program currently in the Test Phase, the WBSCM team continues to execute WBSCM Go-Live readiness activities focused on getting the user community ready for WBSCM.

This issue of the WBSCM update focuses on USDA's System Integration Testing (SIT) validation activities.

System Integration Testing (SIT)



SIT validates and tests end-to-end business flows and processes including interfaces to other USDA/USAID systems and other external non-USDA/non-USAID systems. Examples of test types performed during SIT are as follows: Boundary Testing (Conditions), Regression Testing, Data Conversion Testing, Performance Testing, Section 508 Compliance Testing, Negative/Exception Testing, Security Testing (Roles and Profiles), and Security Certification & Accreditation Testing.

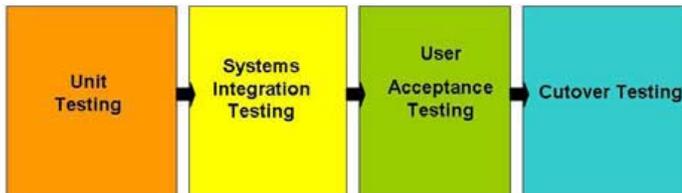
Types of Testing

- **Boundary Testing(Conditions)-** validate extreme cases such as maximum/minimum
- **Regression Testing** - re-execute tests after new development is into the test environment
- **Data Conversion Testing** - validate data conversion that known data from one system has been moved from the legacy system to the new system as expected
- **Performance Testing** - determine system response time and performance under a particular workload
- **Section 508 Compliance Testing** - determine adherence specification in Section 508 of the Rehabilitation Act
- **Negative/Exception Testing** - shows errors when not supposed to, and does not show errors when supposed to
- **Security (Roles & Profiles) Testing** - validates security controls for user roles including system access and security authorization to appropriate activities in the system
- **Security Certification and Accreditation (C&A) Testing** - validation of the implementation of security controls for system authorization as outlined by the National Institute of Standards and Technology (NIST)

Test Phase Approach

The WBSCM Test phase approach follows Capability Maturity Model Integration (CMMI) Level 3 practices and the guidelines defined in USDA's System Life Cycle Methodology (SLCM).

The iterative testing approach builds on prior test stages as WBSCM moves from the Build phase to the Deployment phase. The Test phase approach includes four test stages: Unit Testing (UT), System Integration Testing (SIT), User Acceptance Testing (UAT), and Cutover Testing with the WBSCM team currently in the SIT testing phase.



Four Test Stages

What is USDA's Role in SIT?

USDA's SIT role includes execution of the following validation activities:

- Prepare for UAT
- Understand Quality Center (QC)
- Extract test scripts from QC for use in validation activities
- Review and improve test scripts
- Discover defects
- Ensure completeness of end to end processes
- Obtain an understanding of the test scripts
- Verify/Review the roles
- Identify complete and incomplete processes
- Review and execute the threads in SIT and UAT before handing over to external users
- Create its own adhoc scripts to cover business scenarios missed by SRA

Each agency will access System Integration Testing (SIT) test scripts to review and execute. The feedback from the agency testers will help improve the format and content of the test scripts, which is an important step to ensure "Gold Standard" test scripts are delivered for User Acceptance Testing (UAT).

What is SRA's Role in SIT?

SRA will support USDA's validation in the SIT environment by:

- Providing a schedule of Threads to be tested
- Providing training on Quality Center
- In conjunction with USDA, will execute each test thread and record any defects
- Providing a schedule of builds/transport into the SIT/UAT environment
- Providing workbooks for external testing
- Providing documents for traceability matrix and UAT preparation activities

Quality Center

Quality Center simplifies and organizes test management by providing systematic control over the testing process. It is a web-based Test Planning, Test Execution and Defect Management application which allows the user to:

- Manage Threads, test scripts, and defects
- Plan, create, and execute test scripts
- Organize and manage application defects in a centralized database
- Create customizable reports and graphs for effectively managing testing progress and defect progress and traceability
- Provide a centralized database for recording actual results

New to WBSCM?

If you are new to the WBSCM team, you can go online and view the [WBSCM Overview Course](#). This course is available by selecting the link above. Topics include WBSCM overview, technologies, basics of the SAP order process, and the program timeline.



What's My Role?

You can gain more insight and awareness into WBSCM functionality through the viewing of online demonstrations (over 30 simulations are available) and general WBSCM information in preparation for training. All WBSCM information is found on AGNISX or agency-specified sites.

STATUS CORNER

The list of playbacks to date can be found in previous editions of the WBSCM Update on the [WBSCM Program Website](#). Recent testing project activities and updates include the following:

- ❖ SRA team conducted Peer Reviews (completed SIT and Security Testing) and will deliver for USDA SIT Validation Testing of Threads:
 - 3 – Domestic Multi-Food
 - 6 – Recalls
 - 9 – Security - User Administration (with eAuth single sign on) including FUL RA/BP admin
 - 12 – 3rd party B & E – FUL
 - 14 – Period close - Monthly
 - 19 – Security User Admin including Government Agency User creation and role assignment
 - 30 – Organization Administration & Entitlements
- ❖ In process of conducting these threads for Peer Reviews:
 - 15 – Period Close - Annually
 - 18 – Security - User Administration with eAuth single sign on – Supplier Registration
 - 21 – Material Master Process
 - 27 – Miscellaneous
- ❖ 75% complete on all development and SIT testing activities for the initial core functionality
- ❖ Providing QC training for USDA Thread teams
- ❖ Preparing USDA Test Lab in the Fair Lakes Circle facility
- ❖ Conducting thread hand off sessions with USDA Thread Leads



DID YOU KNOW?

... USDA Announces Commodity Credit Corporation [Lending Rates](#) for November 2009

.... USDA Report [Highlights Positive Effects of Direct Certification on School Meal Access](#)

... Obama Administration Names Tim Manning to Serve as [State Executive Director](#) for the Farm Service Agency in Florida



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WBSCM Terminology

Test Thread – A grouping of test scripts that represent end-to-end processes for the purposes of SIT and User Acceptance Testing (UAT).

Systems Integration Testing (SIT) – The testing of the end-to-end business flows and processes including interfaces to other USDA/USAID systems and non-USDA/non-USAID systems.

Defect Reporting – Tracks the conditions where test results do not match expected outcomes.

Test Execution – Execution of a particular test script or test case scenario (set of test scripts).

Test Script – An independently run test based on business process procedures (BPP) that tests the functionality of a given object.

Gold Standard Test Scripts – Industry term for test scripts that have gone through many levels of quality assurance and validation.



NEXT MONTH

We will feature the various agencies' activities focused on "WBSCM Go-live Readiness".



ASK US

We'd appreciate your thoughts and feedback! Please email any WBSCM questions or suggestions you have to:

WBSCM@kcc.usda.gov

You can find more WBSCM information on the [WBSCM Program Web site](#).