



# Release Notes Grants.gov System Services

June 25, 2009

Release Notes 2009-03 June V1.2

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± ±	e query optimization	
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	lity Text:	
	Times:	
New Code:		40
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New Code Run Times: 42



## **Purpose**

This document defines the release of build **2009-03 June** of Grants.gov, It includes the scope, estimated schedule, identifies risks or impacts, functional release notes, as well as recommendations for mitigation and management. In addition, this document provides Acceptance Testing release notes, operational release notes, and Functional Test Cases that satisfy requirements associated with Deliverables 4.5.1 and 4.5.2.

## **Background**

Software changes are collected from various sources as System Change Requests (SCRs) in the PVCS Tracker System. SCRs are categorized and go through a review process established by the Internal Control Board (ICB) of Grants.gov. SCRs gain approval through this process for inclusion in a Build.

## Scope

The details of each SCR are listed in Appendix A, Operations Release Notes listed in Appendix B, test cases for each SCR are listed in Appendix C, and database query optimization listed in Appendix D. Below is the list of SCR's approved by the ICB to be included in release 2009-03 June:



Id	Title	Category	Functional Areas	Originator	Request Type	Defect Severity	Submit Date	Target Release
8767	Title	Calegory	Aleas	Originator	Туре	Seventy	Date	Release
0101	Applicant & Grantor Registration - Edit & Confirm page	Apply		Rathna	SW defect	Major	4/19/07	2009-03 June
8779	Remove 2006 System Dependencies	Other Software	Email Notification	Mikael	Enhancement	Major	4/6/09	2009-03 June
8781	Services SQL query that's crashing oracle processes	Apply	System	Mikael	Enhancement	Major	4/6/09	2009-03 June
8783	Include AOR contact information in AOR requests going to E-biz POC via email	Other Software	Reports	Mikael	Enhancement	Major	4/6/09	2009-03 June
8784	Allow applicants to check registration status	Apply	Other Software	Mikael	Enhancement	Major	4/6/09	2009-03 June
8793	Track My Application Navigation & Copy changes	Apply	Other Software	Mikael	Enhancement.	Major	4/13/09	2009-03 June
8801	Grantor and Applicant registration process should use single LDAP connection for all registration operations	Applicant Registration	Other Software	Mikael	Enhancement.	Major	3/19/09	2009-03 June
8813	Add Applicant Login to left navigation bar	Applicant Registration	Other Software	Mikael	Enhancement	Major		2009-03 June
8814	Add time stamps for status "Validated" and for when Validation email is sent	Apply	Other Software	Mikael	Enhancement	Major	3/19/09	2009-03 June



Id	Title	Category	Functional Areas	Originator	Request Type	Defect Severity	Submit Date	Target Release
8815	Applicant Login screen - USERNAME field title has "case sensitive" - username field is not case sensitive	Applicant Registration	Other Software	Mikael	Enhancement	Major		2009-03 June
8817	Applicant Audit report does not display information correctly for all the logins	Applicant Registration	Other Software	Mikael	Enhancement	Major	3/19/09	2009-03 June
8819	e my username" - message displayed has a typo	Applicant Registration	Other Software	Mikael	Enhancement	Major		2009-03 June

## Emergency SCR's added to this build:

None



## Schedule

	Activity	Scheduled Start - Completion Date	<b>Primary Owner</b>	Deliverable
1.	ICB	5/22/09	PMO	Candidate list of SCRs for Build
2.	Build Planning	5/26/09	ICB	Scored SCR Prioritization
3.	SCR assessment	5/26/09 - 5/29/09	PMO	Worksheet SCR update. Define functional requirements & identify use cases
4.	SCR Derived Requirements/ Technical Design - Preliminary	6/2/09	SI	Preliminary derived Functional design/ technical Requirements & LOE for Build
5.	Functional Requirements Freeze	6/3/09		Milestone
6.	Whiteboard Design Review	6/3/09	SI/PMO/IV&V	Preliminary Design Review for Build; TBD -GDIT work site/ Yugma
7.	SCR Derived Requirements - Final	6/4/09	SI	Final Functional design/ technical Requirements & LOE for Build
8.	Risk Mitigation	6/4/09	IV&V	Update to Build Planning Document
9.	Critical Design Review	6/4/09	SI/PMO/IV&V	Final Design Review for Build
10.	PMO Approves Build	6/5/09	PMO	Approved list of SCRs for Build
11.	Design Freeze	6/5/09		Milestone
12.	Outreach / Communications planning	6/8/2009	Outreach	Communication plan <sup>1</sup>
13.	Development, Unit and Integration Testing	6/6/09 - 6/21/09	SI	<ul> <li>Build</li> <li>Release Notes<sup>2</sup> for Acceptance Testing</li> </ul>
14.	Code & Configuration Freeze	6/21/09	SI	Migrate Build to AT07. NOTE AT07 MUST be available 8:00 AM Mon 6/22.
15.	Acceptance Testing – Round 1	6/22/09 - 6/24/09	IV&V	Daily Test report
16.	SCR Fixes	6/25/09 – 6/25/09	SI	<ul> <li>Daily Fixed Build – available</li> <li>by 4:00 PM the following day</li> <li>Updated Release Notes if required</li> <li>Release Notes for Operations<sup>3</sup></li> </ul>
17.	Acceptance Testing – Round 2	6/25/09	IV&V	Test report
18.	SCR Fixes	6/26/09	SI	Fixed Build
19.	Acceptance Testing – Deployment recommendation	6/26/2009	IV&V	Deployment recommendation
20.	Deployment readiness review Go/No Go	6/26/2009	PMO	Deployment decision

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21.	Deployment Phase I	6/27/09 00:01	SI	Build deployed in production
22.	Post deployment review	6/29/09	PMO	Lessons Learned

## Risk/Impact

SCR implementation may impact Grants.gov customers and other stakeholders. The impact may be functional or operational. It may affect security, usability or performance of the application or require privacy considerations.

## **Risks or Impacts**

Risk or Impact	Management Strategy
None. There is no risk for the separation of 2006 DB system.	None
There should be No impact to S2S community for changes done of 2006 db separation.	None

## **Approvals**

Approval Level	Date Received	Approver
Approval for Build	Content, 5/22/09	Dima Smirnoff
Cost / Schedule Approval	ICB- 5/26/09	Dima Smirnoff & PMO
Deployment to AT07	6/22/09	Marwan Abu-Fadel

## **Deliverables**

#### **Communications Plan**

Representative items include communication with applicants and training for contact center staff; agency communications should consider deployment impact on closings.

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<sup>&</sup>lt;sup>1</sup> Representative items include communication with applicants and training for contact center staff; agency communications should consider deployment impact on closings.

<sup>&</sup>lt;sup>2</sup>Release Notes for Acceptance Testing should include enough details about how a feature or bug fix is implemented to facilitate IV&V testing.

<sup>&</sup>lt;sup>3</sup> Release Notes for Operations should include enough details about web/application server or database configuration changes and any component dependencies to allow the operations staff to install the build. The System Operations Guide maintained by the operations staff should be updated with every build based on these release notes.



Release Notes for Acceptance Testing includes the required details and test cases for a new feature or bug fix to facilitate IV&V testing. SI will also include the test cases used to approving the SCR to be promoted to AT07.

Release Notes for Operations (Rework Issues and SI Comments: Round 2 Rework Issues and SI Comments:

Based on the PMO/IV&V/SI QA report the following SCR were to be readdressed, some for new requirement changes/clarification, while others for

SCR	Title	Testing issues to be addressed by SI	SI Commen
	Release notes Comments.	Comment for Betty on the release notes.	All Comments release Version
8784	Allow applicants to check registration status	New Requirements:              Left align the status to match the remaining text on the left panel under the Welcome text              Add 2 blank lines between the Welcome text and the status              Separate the static text "AOR Status:' and <status> onto separate lines              Add 2 blank lines between the status and the Manage Applicant Profile link</status>	Changes are i requirements : Tuesday 11:19
8817	Applicant Audit report does not display information correctly for all the logins	IV&V Note [6/22/2009 2:17:23 PM(rgundulpet)]:  Fail: 1) For some of the existing applicant logins, which had correct information displayed for applicant audit report in May 09, no information is displayed.  Ex: Test12. As noted in the SCR description, this user had correct information displayed. There were no issues in tested in May 09. Now "No audit data found for Test12" is displayed. Attached "Audit Report for Test 12.doc" has the screenprints from this build and the previous build testing for this login.  Please note that this is a sample login. There are multiple logins that have similar issue.  Pass: 1) Applicant Audit report displays Register, Grant and Revoke information for new users.  Ex: Rathna-2009-03-1, Rathna-2009-03-2  Pass: 2) Applicant Audit report displays Grant, Revoke actions on existing users.  Ex: 238  Pass: 3) Applicant Audit report is not case sensitive.  Ex: ivvtest001, IVVTEST001, ivvTEST001 display same information.	Per our releas this report que any new chan tracked from ti cannot be Auc This SCR sho properly and a data because line.  Marwan
8841	Received error message when registering new agency user	STATEMENT/PROBLEM When attempting to register an agency, an "Unable to create your account" error is displayed after the Submit button is	This bug was
		clicked. Despite the error message being displayed, the agency	<u> </u>

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SCR	Title	Testing issues to be addressed by SI	SI Commen
		account was created. Eric Hahn (IV&V) was able to log in	
		using the username/password he created during registration.	

Appendix A: SCR Acceptance Testing Release Notes) does include required details about web/application server or database configuration changes and any component dependencies to allow the operations staff to install the build.

## **Systems Operations Guide**

The System Operations Guide maintained by the operations staff shall be updated with every build based on the Build notes if required.

#### Version Control

Version Number	Author	Brief Summary of Update	Date
1.1	M Abu-Fadel	Release Notes for AT07 Release review	6/20/2009
1.2	M Abu-Fadel	Updated DB Table Change, Req for SCR 8781, schedule, cover sheet, and response for rework.	6/24/2009

#### **Known Issues:**

None

## **Database Table changes**

A new column VALIDATION\_DATE is added to TSTATUS table that is populated by a trigger to insert Validated time stamp for that tracking number. An augmentation to an existing trigger was added to insert a Validated time status in TSTATUSHIST. No new triggers were created; instead an update to an existing trigger was implemented to populate Validation\_Date field values to the TSTATUS and TSTATUSHIST table. Highlighted below are the changes.

• In an existing trigger the following was added:

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Coordination with IV&V was performed on Tuesday 1:30 PM over a Yugma session.



## Rework Issues and SI Comments:

## **Round 2 Rework Issues and SI Comments:**

Based on the PMO/IV&V/SI QA report the following SCR were to be readdressed, some for new requirement changes/clarification, while others for

SCR	Title	Testing issues to be addressed by SI	SI Comments
	Release notes Comments.	Comment for Betty on the release notes.	All Comments are addressed and/or corrected in this release Version 1.2
8784	Allow applicants to check registration status	New Requirements:              Left align the status to match the remaining text on the left panel under the Welcome text              Add 2 blank lines between the Welcome text and the status              Separate the static text "AOR Status:" and <status> onto separate lines              Add 2 blank lines between the status and the Manage Applicant Profile link</status>	Changes are implemented based on new requirements submitted by Betty Via email on Tuesday 11:19 AM.
8817	Applicant Audit report does not display information correctly for all the logins	IV&V Note [6/22/2009 2:17:23 PM(rgundulpet)]:  Fail: 1) For some of the existing applicant logins, which had correct information displayed for applicant audit report in May 09, no information is displayed.  Ex: Test12. As noted in the SCR description, this user had correct information displayed. There were no issues in tested in May 09. Now "No audit data found for Test12" is displayed. Attached "Audit Report for Test 12.doc" has the screenprints from this build and the previous build testing for this login.  Please note that this is a sample login. There are multiple logins that have similar issue.  Pass: 1) Applicant Audit report displays Register, Grant and Revoke information for new users.  Ex: Rathna-2009-03-1, Rathna-2009-03-2	Per our release notes and data available in 2007 DB this report query what in the 2007 DB and displays it. any new changes to applicant permissions will be tracked from this release on forward. Previous data cannot be Audited because it does not exist in DB. This SCR shows that new applicant are working properly and applicant from 2004 is not displaying data because in 2004 the adobe system was not on line.  Marwan



SCR	Title	Testing issues to be addressed by SI	SI Comments
		Pass: 2) Applicant Audit report displays Grant, Revoke actions	
		on existing users.	
		Ex: 238	
		Pass: 3) Applicant Audit report is not case sensitive.	
		Ex: ivvtest001, IVVTEST001, ivvTEST001 display same	
		information.	
8841	Received error message when	STATEMENT/PROBLEM	This bug was corrected and ready for IV&V
	registering new agency user	When attempting to register an agency, an "Unable to create	
		your account" error is displayed after the Submit button is	
		clicked. Despite the error message being displayed, the agency	
		account was created. Eric Hahn (IV&V) was able to log in	
		using the username/password he created during registration.	

## **Appendix A: SCR Acceptance Testing Release Notes**

SI deployed the 2009-03 June build on AT07 and it's ready for IV&V testing.

## SCR Functional Release Notes:

SCR	Title	Requirements
8767		Final approved requirements attached to tracker and scr. Document name ('Final Approved requirements.docx) all other documents are for brainstorming and idea.
	Applicant & Grantor Registration - Edit & Confirm page	Final Approved requirements.docx is the approved requirement screen shots.
		1. Agency
8779	Remove 2006 System Dependencies	Navigate to the Manage Opportunity List page and check for Legacy column (should be removed).

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SCR	Title	Requirements
		Make sure that no 2006 opportunities are listed in this page.
		Navigate to the Manage Application Templates page and make sure that there are no 2006 templates.  New package drop down menu for the templates shouldn't have any 2006 templates.  View all Submitted applications page shouldn't have 2006 submissions.  Retrieve Submitted Applications page and make sure that there are no 2006 submissions.  Assign Agency Tracking Number page should not have 2006 submissions.
		2. Search
		Search page basic and Advance should not have any 2006 opportunities in Search pages.
		3. Applicant
		Check Application Status should not have 2006 submissions.
		4. E-Biz
		Check Application Status should not have 2006 submissions.
		5. S2S Applicant
		Get Opportunity List should not have 2006 opportunities listed. Use Get Application List should not have 2006 submissions. Use the Get App Status Detail method should not have 2006 submissions
		6.S2S Agency Run GetApplicationListTest should not have 2006 submissions as part of response. Run GetApplicationTest method with a 2006 submission and make sure that submission is not returned. Run GetApplicationZipTest method with a 2006 submission and make sure that submission is not returned. Run ConfirmApplicationDeliveryTest to a 2006 submission. Run AssignAgencyTrackingNumTest to a 2006 submission. Create a New Agency without creating it on 2006 system.



SCR	Title	Requirements
		XMLExtract. Only 2007 XML extract
		RID 49: UPDATED NEW REQUIREMENT IS: From the 2007 UI, Authorized users shall have the ability to create and publish electronic opportunities in Adobe format.
		OLD REQUIREMENT WAS: From the 2007 UI, Authorized users shall have the ability to create and publish electronic opportunities in Adobe format. Pure Edge opportunities should be added/modified/deleted form 2006 system via the 2006 link
		RID 50: UPDATED NEW REQUIREMENT IS: To create an electronic 2007 grant opportunity, the user shall identify the following: A unique grant funding opportunity number in 2007 system and DB only.
		OLD REQUIREMENT WAS: To create an electronic 2007 grant opportunity, the user shall identify the following: A unique grant funding opportunity number in 2007 and 2006. If creating a 2006 Opportunity the system Shall NOT be able to ensure this is unique across 2006 & 2007 systems.
		RID 51: UPDATED NEW REQUIREMENT IS: From 2007 UI A unique grant funding opportunity number shall exist for 2007 ONLY
		OLD REQUIREMENT WAS: From 2007 UI A unique grant funding opportunity number shall exist for 2007 & 2006 ONLY During the initial investigation SI worked on a coret grant but often applying that was not the course.
		During the initial investigation SI worked on a search query but after analysis that was not the cause of the DB server CPU overload.
8781	Services SQL query that's crashing oracle processes	Optimize the following: Query: SELECT PROCESSID FROM TSTATUS WHERE STATUS = 'FIFReceiving' AND ROWNUM = 1 FOR UPDATE NOWAIT SKIP LOCKED



222					
SCR	Title	Requirements			
		RID 543:			
		New Requirements:			
		After "Registration Successful" screen message is displayed to the applicant the system shall send			
		an email to the AOR of the Applicant registered Duns with the following content:			
		From: OS Support@Grants.Gov			
		Sent: Wed 5/27/2009 12:59 AM			
		To: Applicant email			
		Subject: ACTION REQUIRED: Applicant < last name > Requesting Grants.gov AOR Status			
		Attention E-Business Point of Contact,			
		The following individual from your organization has registered with Grants.gov and requested to be			
		designated as an Authorized Organization Representative (AOR) for your organization. Designating			
		this person as an AOR will allow them to submit grant applications to federal agencies via			
		Grants.gov on behalf of your organization.			
		Name: <first and="" last="" name=""></first>			
		Job Title: <title>&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Email: &lt;email&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Phone: &lt;phone&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;DUNS: &lt;DUNS&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;BONG. SBONG&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;This user will not be able to submit an application on behalf of your organization until this&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;designation process has been completed. As the CCR E-Biz POC, you are the only person&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;authorized for your organization to approve this individual as an AOR.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;The state of the s&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;To authorize this AOR, login to the E-Business Point of Contact (E-Biz POC) section of Grants.gov&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;at&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;http://at07apply.grants.gov/apply/logincontrol.jsp?goto=./secured/AorLogin.jsp&amp;loginpage=/jsp/AorM&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;grGetID.jsp; then enter your organization's DUNS number and your organization's Central&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Contractor Registry (CCR) MPIN, which was assigned to your organization when it enrolled with the&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;CCR. If you have forgotten your organization's CCR MPIN password, contact the CCR by calling 1-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;888-227-2423 or visit: http://www.ccr.gov.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;If you determine this individual should not be assigned AOR access, do not update the user roles&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;when you review the request in Grants.gov. You can also delete AORs from this section.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0700&lt;/td&gt;&lt;td&gt;Include AOR contact information in AOR&lt;/td&gt;&lt;td&gt;If a large of the F.B. BOO allowed to the first the F.B. BOO&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;8783&lt;/td&gt;&lt;td&gt;requests going to E-biz POC via email&lt;/td&gt;&lt;td&gt;If you have questions regarding the E-Biz POC role assignment process, information is available on&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

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SCR	Title	Requirements				
		Grants.gov: http://www07.grants.gov/applicants/org_step5.jsp.				
		You can also contact Grants.gov at the following email address, support@grants.gov, or call 1-518-4726.				
		Regards,				
		Grants.gov				
		PLEASE NOTE: This email is for notification purposes only. Please do not reply to this email for any purpose.				
8784	Allow applicants to check registration status	Functionality is not changing just display the status on the left menu.				
		The Screen was changed to display new functionality for resubmitting a bad-tracking number. Wording was changed to support this functionality. (see Final Req image attached).				
8793	Track My Application Navigation & Copy changes	Section 4 will not be implemented in this build.				
8801	Grantor and Applicant registration process should use single LDAP connection for all registration operations	Change the Grantor and Applicant registration process to use a single LDAP connection to perform all registration operations.  There will be no functionality or requirement changes to the collected data, just the connection pool.				
		The link will be available only when the "For Applicant" sub-menu is expanded and search. Below is the list of pages to have this new Applicant login link:				
		SEARCH: http://at07web.grants.gov/search/basic.do http://at07web.grants.gov/search/category.do http://at07web.grants.gov/search/agency.do http://at07web.grants.gov/search/advanced.do http://at07web.grants.gov/search/search.do http://at07web.grants.gov/search/announce.do				
8813	Add Applicant Login to left navigation bar	APPLY: https://at07apply.grants.gov/apply/checkApplStatus.faces https://at07apply.grants.gov/apply/checkApplStatus.faces (results page) http://at07apply.grants.gov/apply/OrcRegister				



SCR	Title	Requirements			
		https://at07apply.grants.gov/apply/IndCPRegister			
		https://at07apply.grants.gov/apply/applicantRegister.faces?cleanSession=1			
		https://at07apply.grants.gov/apply/forms_apps_idx.html			
		http://at07apply.grants.gov/apply/GetGrantFromFedgrants			
		In TSTATUS & TStatusHist table add 1 new time stamps for the following functionality:			
		Time stamp for what the Submissions gets Validated.			
	Add time stamps for status "Validated" and for	Time stamp for when the Validated or Rejected email is Sent out is the exact time as Validated or			
8814	when Validation email is sent	Rejected time stamp.			
		This is a text change only and no functionality is affected. Removing the text "case sensitive" next to			
	Applicant Login screen - USERNAME field title	the username field			
	has "case sensitive" - username field is not				
8815					
-		The fix would only be reflected in accounts created going forward. The field should be case			
		insensitive. The result new registered applicant should display registered, grants and revoke			
	Applicant Avalit nament dans not display	permissions.			
0047	Applicant Audit report does not display				
8817	information correctly for all the logins				
		"An email was send to your mailbox"			
		To be grammatically correct it should say "An email was sent to your mailbox"			
	"Send me my username" - message displayed				
8819	has a typo				



## **Appendix B: Operations Release Notes**

Operations Release notes added to this build.

This build does not alter any system operations or submissions; however it requires TMP's effort to update the login and reset login name/password functionality, and the new Track your application instructions.

## **Appendix C: Functional Test Cases**

## SCR-8786: Applicant & Grantor Registration - Edit & Confirm page

Test Case Name:	Applicant Edit Page			T/C #:	1
Description:	Applicant & Grantor Re page	Status:	PASS		
Start Condition:	Valid duns registered w data	vith CCR and entry ir	n TCCR	SCR#	8767
Overall Pass Criteria:	PASS				
Test Informat	ion		1		
Name of Tester:	Marwan		Date:	6/1	9/09
Build Number:	2009-03 June				
Comments	None				
Steps	Action	Expected Results	Pass	Fail	N/A
1	Check Username, password and confirm password fields on data entry page and edit/submit page.	These fields are available on all the pages.	PASS		
2	Check edit / submit button.	It is available on the left of the page.	PASS		
3	Check "below the header for applicant add the following:	This is available on the second page.	PASS		



4	Check for asterisks	All the mandatory fields have asterisks.	PASS	
5	Check the edit screen	It has all the data entered by the user, no additional data and has edit/submit button.	PASS	
6	Select the edit button on the edit screen.	System displays page with all the data entered previously and can be edited on the new page displayed.	PASS	
7	Submit the registration form with no data for the required fields.	Each field validation message is displayed as shown in the requirements screen-print (attached to the SCR).	PASS	

## SCR-8781: Services SQL query that's crashing oracle processes

**Test Case** 

2 SQL QUERY OPTIMIZATION T/C #: Name:

Services SQL query that's

**PASS** Description: crashing oracle processes Status:

Start 3 services are running DBs 5

Condition: CPU is at 80% SCR# 8781

Overall Pass

Criteria: **PASS** 

Test Information

Name of 6/19/09 Tester: Date:

Marwan

Build

Number: 2009-03 June

Comments None

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Steps	Action	Expected Results	Pass	Fail	N/A
	Reconfigure the DB server to	CPU			
	run the new Query at 3	below			
1	services and see CPU drop	80%	Yes		
		CPU			
	Created the Test using the	below			
2	sample production DB	30%	Yes		

## SCR- 8783: Include AOR contact information in AOR requests going to E-biz POC via email

		1	1	I	I	
Test Case Name:	AOR Email			T/C #:	3	
Description:	AOR contact information in AOR requests going to E-biz POC via email			Status:	PASS	
Start Condition:		t should have A		SCR#	8783	
Overall Pass Criteria:	PASS					
Test Informat	ion					
Name of Tester:	Marwan		Date:	6/19/09		
Build Number:	2009-03 June					
Comments	None					
Steps	Action	Expected Results	Pass	Fail	N/A	
1	once applicant register and email should be sent to EBIZ	Email Send	Pass			



2	Email should include AOR information	Include AOR contact information in AOR requests going to E-biz POC via email:  * Requesting AOR's name  * Requesting AOR's email address  * Requesting AOR's email address	Pass		
---	--	--	------	--	--

## SCR-8784: Allow applicants to check registration status

Test Case Name:	Registration Status			T/C #:	4
Description:	Allow applicants t	Allow applicants to check registration status			PASS
Start Condition:	Applican Login Na Applicant does no			SCR#	8784
Overall Pass Criteria:	PASS				
Test Information	tion				
rest morma					
Name of Tester:	Marwan		Date:	6/19/09	
Build Number:	2009-03 June				
Comments	None				
	1	1	1		
Steps	Action	Expected Results	Pass	Fail	N/A
1	Login As none approved Applicant	Applicant Landing Page Open	Pass		



2	Left Menu Should display Applicant status with Email sent to AOR	Status Diplayed on the left menu	Pass	
3	EBIZ Authorize the applicant	Applicant Authorized	Pass	
4	Login As none approved Applicant	Applicant Landing Page Open	Pass	
5	Left Menu Should display Applicant status: Approved	Status Diplayed on the left menu	Pass	
6	Log out	Logout Completed	Pass	

## **SCR-8793: Track My Application Navigation & Copy changes**

Test Case Name:	Track My Application			T/C #:	5			
Description:		lication Naviga	tion & Copy	Status:	PASS			
Start Condition:	Must have a \ number	/alid and invalid	d Tracking	SCR#	8793			
Overall Pass Criteria:	PASS							
Test Informat	ion							
Name of Tester:	Marwan		Date:	6/19/09				
Build Number:	2009-03 June							
Comments	Comments None							
Steps	Action	Expected Results	Pass	Fail	N/A			

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1	Navigate to track my Application menu	Track my application entry field	Pass	
2	Enter 2 valid, 1 just submitted, and one invalid tracking number	Entries accepted	Pass	
3	Valid tracking number displayed on 1st field	Validated	Pass	
4	Just submitted tracking number displayed in 2nd field	Processing	Pass	
5	Invalid tracking number displayed in a test box	Displayed and can be corrected	Pass	
6	Correct invalid Tracking number	New tracking number entered	Pass	
7	Click on Submit	Tracking number reprocessed	Pass	

## SCR-8801: Grantor and Applicant registration process should use single LDAP connection for all registration operations

Test Case Name:	Register Applicant			T/C #:	6
Description:	Register New	Register New Applicant			PASS
Start Condition:	Must have a v	Must have a valid CCR registered DUNS			8801
Overall Pass Criteria:	PASS				

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Test Information							
Name of Tester:	Marwan		Date:	6/19	9/09		
Build Number:	2009-03 June						
Comments	None						
		Ī	Ī				
Steps	Action	Expected Results	Pass	Fail	N/A		
1	Go to register applicant	register applicant entry field displayed	Pass				
2	Enter all data on a single screen	Applicant registration fields displayed	Pass				
3	On submit all registration should pass on one Idap		Pass				

## SCR-8813: Add Applicant Login to left navigation bar

Test Case Name:	Applicant Log			T/C #:	7
Description:	Add Applican	t Login to left r	navigation bar	Status:	PASS
Start Condition:	open www.gra	ants.gov		SCR#	8813
Overall Pass Criteria:	PASS				
Tank linkaumank	!				
Test Informat	l	T	l		
Name of Tester:	Marwan		Date:	6/19	9/09
Build Number:	2009-03 June				
Comments	None				

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Steps	Action	Expected Results	Pass	Fail	N/A
1	The link will be available only when the "For Applicant" sub-menu is expanded and search.	APPLICANT LOGIN LINK IS VISIBLE ON SEARCH AND APPLY PAGES	PASS		
2	Below is the list of pages to have this new Applicant login link:	APPLICANT LOGIN LINK IS VISIBLE ON SEARCH AND APPLY PAGES	PASS		

## SCR-8814: Create time stamp for status "Validated"

Test Case Name:	Validated Time Stamp			T/C #:	8
Description:	Create time s	stamp for statu	s "Validated"	Status:	PASS
Start Condition:	Submit a valid	d application		SCR#	8813
Overall Pass Criteria:	PASS				
Test Informat	ion			T	
Name of Tester:	Marwan		Date:	6/19/09	
Build Number:	2009-03 June				
Comments	None				
Steps	Action	Expected Results	Pass	Fail	N/A
1	Submit a valid application	Valid tracking number displayed via the confirmation page	PASS		

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2	Log to db5 and check the validated field	New validated time stamp is displayed in Tstatus and tststus history	PASS		
---	--	--	------	--	--

## SCR-8815: Applicant Login screen - USERNAME field title has "case sensitive" - username field is not case sensitive

	1	T	1	1	1
Test Case Name:	Text Change			T/C #:	9
Description:	login name is not o	case sensitive		Status:	PASS
Start Condition:	Remove Case sens		gin screen	SCR#	8815
Overall Pass Criteria:	PASS				
Test Information	tion				
Name of Tester:	Marwan		Date:	6/19/09	
Build Number:	2009-03 June				
Comments	None				
	T				
Steps	Action	Expected Results	Pass	Fail	N/A
1	Go to Agency/Applicant login screen	Screen displayed	Pass		
2	Login fields does not have "case sensitive"	No case sensitive displayed	Pass		



## SCR-8817: Applicant Audit report does not display information correctly for all the logins

Test Case							
Name:	Text Change			T/C #:	10		
ivairie.	Applicant Audit report does not display						
Description:		orrectly for all t		Status:	PASS		
Start		dit report shoul					
Condition:	authorization		u uispiay	SCR#	8817		
Overall Pass	datriorization	addit process					
Criteria:	PASS						
0							
Test Informat	ion						
Name of			Date:	6/10	9/09		
Tester:	Marwan		Date.	0/ 1	9709		
Build	2009-03						
Number:	June						
Comments	None						
	Ī	T	T T	1			
		Expected					
Steps	Action	Expected Results	Pass	Fail	N/A		
	Login and	Agency					
1	agency	Landing	Pass				
	super user	screen					
2	Go to Audit	Entry field is	Pass				
	Report	displayed	. 455				
	Enter an	Applicant					
3	applicant	report is	Pass				
	user name	displayed					
4	Report	All fields are	Pass				
	Fields:	populated					

Performed

Ву

Item ID

Audit Type

Action

Source



## SCR-8819: "Send me my username" - message displayed has a typo

Test Case					
Name:	Туро			T/C #:	11
				Status:	PASS
Description:		name -agency-		Status.	PASS
Start	-	username" - message disp	played has	SCR#	8819
Condition:	a typo				
Overall Pass	D4.00				
Criteria:	PASS				
Test Informat	l ion				
100t IIII0IIIIat			Ι		
Name of			5.	,	/00
Tester:	Marwan		Date:	6/19	/09
Build	2009-03				
Number:	June				
Comments	None				
Steps	Action	Expected Results	Pass	Fail	N/A
	Go to				
1	Agency login		Pass		
	page	Login page displayed			
_	Click on		_		
2	forgot my	Send my username	Pass		
	username	screen is displayed			
	Enter user		Dana		
3	email		Pass		
	address	Email entered			
3	Enter		Pass		
<u> </u>	Agency Code	Agency code entered	F 455		
	Click on	"An email was sent to			
3	submit	your mailbox"	Pass		
	JUNITE	Joan manbox	l	l .	



## SCR-8779: Remove 2006 System Dependencies

Test	Case ID:	REGRESSION		Title:	REGRESSION TEST SCRIPT			Test	Date:	05-22-2	009
Test	Type:	Both (F&A)	Priority:	5 - Med	Last Chg Date of Test Header:	4/13/2009	T	ester :	Name:	Kavitha	
Obje	ectives:	To perform a regre	ession of Gran	ts.gov ap	plication.						
Assumptions: System testing has been performed and the code is ready for regression.											
Instructions: Navigate to the home page of Grants.gov.											
====					Test Script						1
Step	T :	Stimulus/Ac			Respond/Expected Result		444	RII	)	Stati	us Bug#
1	below cred User name	ne application as an A lentials: e : GDIT-Test : password.	Agency user u	sing	Logged into the application as Agency use credentials provided.	r with	111	112		Pass	
2	Make sure	that below functions	alities are disp	layed:	All the functionalities are available.		1	2	3	Pass	
	Set Agenc Create Age Modify Ag Published Applicant Organizati Manage O Assign Ag Manage A Wanage A View All S Applicant Retrieve S Logout of	ency gency Opportunities Report on Report portunities ency Tracking Numl pplication Package T gency Users Submitted Applicatio Audit Report ubmitted Applicatio Grants.gov	emplates ons								
3	Make sure User infor	that Manage Agency mation.	y Profile displ	ays the	Profile is as expected.		5	6	7	8 Pass	
4	Navigate t agency.	o the Create Agency	link and creat	te an	A new sub agency is created.		10			Pass	
5	Navigate t profile.	o the Modify Agency	y and update t	he	User is able to update the agency profile.		11	12	13	Pass	
6	that the su	o the Set Agency Le b agency created is d d click on the Set Ag	isplayed.Sele	ct sub	Level is set to sub agency.		15	16	17	Pass	
7		o the Manage Agenc e of the users.	y Users and re	eassign	Successfully reassigned roles to one of the	users.	23	24		Pass	
8		mplate using the Ma emplates functionalit		tion	A template is created using the Manage Ap Package Templates functionality	pplication	29	302		Pass	
9	Create an Opportuni	Opportunity using the ties page.	e Manage		An opportunity is created using the Manag Opportunities page.	ge	49	50	51	52 Pass	
10	Add synop oppportun	osis and attachments i ity.	to the above		Synopsis and Attachments added to this op	pportunity.				Pass	
11	Create a co	ompetition inside the	above opport	unity.	A competition is created for the opportunit	ty.	34	35	36	Pass	
12		o the Manage Applic y a template.	ation Templa	tes page	A template is modified using the Manage Application Templates page.		43	44		Pass	
13		o the Manage Applic a template.	ation template	es page	Template is deleted using the Manage App Templates page.	lication				Pass	
14		o the Manage opport opportunity.	unities page a	nd	Modified an opportunity using the Manage Opportunities page.	•				Pass	
15	_	o the Manage Oppor pportunity.	tunities page a	and	Opportunity is deleted succesfully.					Pass	
16		the opportunity usin	g Search and	Apply	Opportunity is displayed in the Search and grants results.	apply for	365	366	367	Pass	
17	Navigate t package.	o the apply search an	nd download t	his	Package is downloaded.		380	381	382	Pass	
18		mandatory fields in t kage for Errors.	the form and	click on	All the mandatory fields are updated and $\nu$ passed.	alidation	257	258	259	Pass	



19	Make sure that the Submit button is enabled after the validation pass.	Submit button is enabled.	260	261			Pass	
20	Enter below user credentials and submit the package. User Name : marwanindv Password: marwan	Package is submitted and a confirmation appears with the tracking number asigned.	268	269			Pass	
21	Navigate to the View all submitted Applications and make sure that the tracking number is displayed.	Tracking number is displayed and the status of the package is displayed.	76	77	78	79	Pass	
22	Make sure that the Submission notification is received.	Submission notification is received.					Pass	
23	Make sure that Validation Notification is received.	Validation Receipt notification is received.					Pass	
24	Navigate to the Retrieve all submitted applications page and search for the tracking number.	A record is present with this tracking number ready to download.	108				Pass	
25	Download the package using the download button.	Package is downloaded using the Download button.	109				Pass	
26	Acknowledge the Download complete using Acknowledge Download complete button.	an email notification is received for Agency Retrieval.					Pass	
27	Navigate to the Assign Agency Tracking number and search the tracking id.	Tracking id is displayed in the Assign Agency Tracking number page.	109				Pass	
28	Navigate to the Applicant Report and get a report for a user id.	Applicant report successfully retrieved.					Pass	
29	generate an Organization report.	Organization report retrieved					Pass	
30	Generate an applicant audit report.	Applicant audit report generated.					Pass	
31	log out of the application.	Logged out of the application.					Pass	
32	Login to the application as an applicant.	Logged into the application as an applicant.	223				Pass	
33	Check the profile by clicking on the Manage Applicant Profile link.	Profile is accurate.					Pass	
34	Check the Application status of the submitted application using Check application Status page.	Application status is checked.					Pass	
35	Log out of the application.	Logged out of the application.					Pass	
36	Log in to E-biz using the ebiz login.	Logged into Ebiz successfully.					Pass	
37	click on Manage Applicants from the left navigation bar.	Manage Applicants page is displayed.					Pass	
38	Re assign roles to one of the applicants.	Reassigned roles successfully.					Pass	
39	Click on the Check Application Status link on the left navigation bar.	All the 2007 submissions for this duns number are listed down.					Pass	
40	Register a new agency user.	A new agency user is registered as expected.					Pass	
41	Register a new individual applicant.	A new individual applicant is registered as expected.					Pass	
42	Register a new organization applicant under 000000000 duns.	A new applicant is registered under organization duns.					Pass	
43	Make sure that the newly registered users have the correct permissions.	Newly registered users are logged in successfully and have the correct permissions.					Pass	
44	Check the forgot my user name and forgot my password links for agency user.	Forgot my user name and Forgot my password links are working as expected for agency user.					Pass	
45	Check the Forgot my user name and Forgot my password link for applicant.	Forgot my user name and Forgot my password links are working as expected for applicants.					Pass	
46	Send an email synopsis and make sure that it is published successfully.	Email synopsis is published successfully.					Pass	
47	Run the RSS script to make sure that newly created opportunities appear in the RSS links.	RSS Script is ran and newly created/modified opportunities are displayed in the RSS links as expected.					Pass	
48	Start the Tom cat server after updating the properties file to the right environment.	Tom cat server is up and running.					Pass	



49	"Navigate to the applicant S2S screen for Referential	User is in the applicant S2S index page.	Pass	
	Implementation.http://localhost:8080/app-s2s- client/pages/index.jsp"			
50	Navigate to the Get Opportunity List Web service and search for opportunity number and CFDA using the Get Opportunities web service call.	Results are as expected.	Pass	
51	Navigate to the Get Opportunity List Web service and search for competition id and CFDA using the Get Opportunities with Info web service call.	Results are as expected.	Pass	
52	Navigate to the Submit Application web service and submit an application XML.	XML is validated.	Pass	
53	Navigate to the Get Application List and try combinations of Status, opportunity number, tracking number and CFDA number.	Results are as expected.	Pass	
54	Navigate to the Get App Status Detail web service call and Get Detailed status for a tracking number under this certificate.	Detailed Status of the tracking number is displayed.	Pass	
55	Update the properties file to the right environment.	Properties file updated.	Pass	
56	Navigate to the C:\GrantsGovS2S_portable\AgencyClient\scripts folder from command prompt.	User is in the C:\GrantsGovS2S_portable\AgencyClient\scripts folder.	Pass	
57	"Execute the following command :-runtest.bat GetApplicationListTest"	Application List is displayed for both 2006 and 2007 submissions for this agency.	Pass	
58	"Execute the following command :-runtest bat GetApplicationTest [GRANTxxxxxxxxx]"	An application for this tracking number should be downloaded to C:\GrantsGovS2S_portable\TEMP folder.	Pass	
59	"Execute the following command :-runtest.bat GetApplicationZipTest [GRANTxxxxxxxx]"	An application zip for this tracking number should be downloaded to C:\GrantsGovS2S_portable\TEMP folder.	Pass	
60	"Execute the following command :-runtest.bat ConfirmApplicationDeliveryTest [GRANTxxxxxxxxx]"	Database - TSTATUS table is updated to Received by Agency for this submission.	Pass	
61	"Execute the following command :-runtest.bat AssignAgencyTrackingNumTest [GRANTxxxxxxxx] [xxxxxxxx]"	Database - TSTATUS table is updated to Agency Tracking Number Assigned for this submission.	Pass	
62	"Execute the following command :-runtest.bat SaveAdobeOpportunityTest [C:/path/to/myOpportunityXml.xml]"	A synopsis is created under this agency.	Pass	
63	"Execute the following command :-runtest.bat DeleteAdobeOpportunityTest [OPPORTUNITY NUMBER] [AGENCY ID IN OPPORTUNITY XML]"	Opportunity is deleted for this agency.	Pass	
64	"Execute the following command :-runtest.bat DeleteAdobeSynopsisTest [OPPORTUNITY NUMBER] [AGENCY ID IN OPPORTUNITY XML]"	Synopsis is deleted for this agency.	Pass	



====== Requirements ==

#### REGRESSION

#### **RID Requirement**

- 1: User Must establish their profile in the system
- 1st Agencies being registered with Grants.gov (which will be performed by Grants.gov system administrator), and designate a super user(s).
- 3: The agency's "super user" to provide the rest of the relevant information to Grants.gov and assign authority to other individuals within the agency.
- 5: Agency/Sub-Agency Profile Management
- 6: The Grants gov system shall permit designated Agency/Sub-Agency super users to maintain the agency profile
- 7: Agency/sub-agency users shall be able add and update the following information: Agency/Sub-agency Name
- 8: Agency/sub-agency users shall be able add and update the following information: Agency/sub-agency code (e.g. HHS or CDS) used for <TBD-001>
- 10: Agency/sub-agency users shall be able add and update the following information: Agency/sub-agency point of contact information to be used by Grants.gov project office in communicating with agency/sub-agency super users: Contact name
- 11: Agency/sub-agency users shall be able add and update the following information:

Agency/sub-agency point of contact information to be used by Grants.gov project office in communicating with agency/sub-agency super users:

Contact postal address

- 12: Agency/sub-agency users shall be able add and update the following information:
  - Agency/sub-agency point of contact information to be used by Grants.gov project office in communicating with agency/sub-agency super users:

Contact phone number

- 13: Agency/sub-agency users shall be able add and update the following information:
  - Agency/sub-agency point of contact information to be used by Grants.gov project office in communicating with agency/sub-agency super users:

Contact email address

- 15: Agency/sub-agency users shall be able add and update the following information:
  - Notification method for grant application delivery.
  - Notify as each application is received.
  - Notify when first new application is added to an empty download queue.

Never notify

- 16: Agency and sub-agency super users shall be able to add new sub-agencies
- 17: Super users shall be able to create sub-agencies that are subordinate to their own agency/sub-agency
- 23: Agency/sub-agency super users shall be able to assign privileges of users within any sub-agency currently subordinate to their own agency/subagency.
- 24: Agency/sub-agency users shall be able to assign the following privileges to users within their agency/sub-agency:
  - Super user allows users to create new agencies/sub-agencies, manage agency/sub-agency profiles and manage user privileges



29: Authorized users shall have the ability to select from among the following forms in creating grant application packages templates:

SF-424A

SF-424B

SF-424C

SF-424D

Agency Specific Data Sets

34: The authorized user shall have the ability to designate attachments as:

Required - the user must supply the designated attachment data

35: The authorized user shall have the ability to designate attachments as:

Optional - the user choose not to supply the designated attachment data

36: Package templates shall support the inclusion of attachments as:

Unformatted text included within a field on an attachment field

- 43: Users shall have the ability to add or remove forms and attachments from an existing template.
- 44: Users shall have the ability to redefine forms or attachments as mandatory or optional.
- 49: UPDATED -- NEW TEXT IS:

From the 2007 UI, Authorized users shall have the ability to create and publish electronic opportunities in Adobe format.

Pure Edge opportunities should be added/modified/deleted form 2006 system via the 2006 link

#### UPDATED -- ORIGINAL TEXT WAS:

Authorized users shall have the ability to create and publish electronic opportunities.

50: UPDATED -- NEW TEXT IS:

To create an electronic 2007 grant opportunity, the user shall identify the following:

A unique grant funding opportunity number in 2007 and 2006.

If creating a 2006 Opportunity the system Shall NOT be able to ensure this is unique across 2006 & 2007 systems.

#### UPDATED -- ORIGINAL TEXT WAS:

To create an electronic grant opportunity, the user shall identify the following:

A unique grant funding opportunity number

51: UPDATED -- NEW TEXT IS:

From 2007 UI A unique grant funding opportunity number shall exist for 2007 & 2006 ONLY

#### UPDATED -- ORIGINAL TEXT WAS:

A unique grant funding opportunity number

- 52: For opportunities for which synopses have been published to the FedGrants system, this number shall match the opportunity number supplied for the FedGrants system
- 76: The system shall permit authorized users to obtain a list of applications that are queued for download by their agency/sub-agency via a User link" List all submissions". This listing shall identify the following information for each queued package:



- 77: Funding Opportunity Number
- 78: Funding Opportunity Name
- 79: Submitter organization name
- 108: The system shall allow users to locate and download applications that have been previously downloaded by the agency.
- 109: The system shall provide a mechanism for the agencies enter Agency Tracking Number for each application package.
- 111: The system shall restrict access to privileged functions and sensitive data.
- 112: The system shall identify and authenticate users prior to performing actions on their behalf. This requirement applies to:
  - Human (i.e., interactive) users
  - External information systems (e.g., applicant or agency computer systems)
- 223: Applicants must be registered with an External Credential Provider (ECP) for authentication purposes. ECPs may include a wide range of entities including commercial certificate authorities, commercial Internet Service Providers (e.g., AOL, MSN, etc.) or federal systems that choose to continue to perform credential management functions. Applicants' credentials will be used to authenticate the identity of the AOR during application package submission. The credentials will be validated by the e-Authentication Gateway that in turn allows Grants.gov to validate the submitters' identity with BPN/CCR
- 257: The applicants shall also be allowed to view the content of each attachment file and deselect it if desired.
- 258: The system shall allow the applicants to view and print their submitted application packages in Adobe format.
- 259: The applicants will use their Adobe viewer to view and print the Adobee application forms, however, they will need specific software such as Adobe Acrobat or MS Office to view and print attachments in those formats.
- **260:** The system shall provide a "submit" button on the application package that will allow the applicant to upload the application package to Grants.gov.
- 261: The system shall not permit packages that are incomplete, that do not meet the business requirements, or that include syntax errors to be submitted.
- 268: UPDATED -- NEW TEXT IS:
  - The system shall prompt the applicant for log in credentials (e.g., User ID (not case sensitive) & Password (case sensitive)) prior to accepting any submission.

#### UPDATED -- ORIGINAL TEXT WAS:

- The system shall prompt the applicant for log in credentials (e.g., User ID & Password) prior to accepting any submission.
- 269: In the production system, the applicants' credentials will be authenticated via the e-Authentication Gateway.
  The Grants.gov system shall implement an interface to this system to perform user identification authentication.
- 302: The user must install an Internet Explorer add on (Adobe) to View, complete and submit the form.
- 365: Provide capability to search by one or more Sub-Agency name. Provide the capability of specifying the Sub-Agency upon selection of Agency. The system shall display list of sub-agencies for all agencies selected by user. In other words, if 3 agencies were selected by the user, the system shall display list of all of the sub agencies for all three of the selected agencies.
  - The first selection in the sub agency selection shall be "All Sub Agencies" and it shall function exactly the same as if the sub agency link had not been clicked. If no sub agencies are selected, the search criteria shall be based on the agency selection. If one or more sub agencies are selected, the agency selections shall not be used and only the selected sub agencies shall be included in the search criteria.





366: Provide capability to browse list of grant opportunities by Category.

#### 367: UPDATED -- NEW TEXT IS:

Provide capability to browse list of grant opportunities by Agency. Only Display Federal Agencies and Approved listing which is set by the PMO.

#### UPDATED -- ORIGINAL TEXT WAS:

Provide capability to browse list of grant opportunities by Agency.

- 380: Display Opportunity Title on the Opportunity Details page to the left of the agency image The Opportunity Title must be to the left of the agency image on the top of the page.
- 381: Allow user to switch between "Synopsis", "Full Announcement" and "How to Apply" views.
- 382: Present list of Application Packages on the "How to Apply" view.
  If there are one or more application packages defined for an opportunity, all of these application packages must be displayed.



# **Appendix D: Oracle query optimization**

This is a summary of the technical DB changes followed by a technical description. During the high load on DBS5 database server, we found the following underlined query, taking longer time and causing the load average to spike.

#### SELECT PROCESSID

**FROM** 

TSTATUS WHERE status ='FIFReceiving' and ROWNUM = 1 FOR UPDATE NOWAIT SKIP

LOCKED

Further analysis on this query revealed that the query being executed from a pl/sql package. In this package, SQL Statements are built, executed using DYNAMIC SQL, along with full table scan on TSTATUS table. Dynamic nature of query, resulted recursive calls(multiple internal SQL statements) and FULL TABLE SCAN.

To address the issue, we have optimized the package, to avoid recursive calls, and full table scans. Existing Functionality was:

Note: Where clause is being passed from the application and query string is getting build and executed.

New Functionality: Service code is passed to the function from application:

```
case v_service_code when 'RECEIPT' then v_service:='Receiving'; when 'WORKFLOW' then v_service:='Processing'; when 'S2SRECEIPT' then v_service:='S2SReceiving'; when 'REJECTION' then v_service:='Rejecting'; when 'ACCEPTANCE' then v_service:='Accepting'; when 'FORMINFORM' then v_service:='FIFReceiving'; else v_service:="; end case;
```

SELECT /\*+ index(tstatus,STATUS\_IDX) \*/ PROCESSID into app\_id FROM egrantsadmin.TSTATUS WHERE STATUS = v\_service and ROWNUM < 2 FOR UPDATE NOWAIT SKIP LOCKED;



# 1) Existing code is using DYNAMIC SQL, which is causing lot of CPU load.

## SELECT PROCESSID

**FROM** 

TSTATUS WHERE status ='FIFReceiving' and ROWNUM = 1 FOR UPDATE NOWAIT SKIP

#### **LOCKED**

call co	ount	cpu	elapsed	disk	query	currer	nt rows
Parse	1	0.01	0.00	0	0	0	0
Execute	1	0.00	0.00	0	0	0	0
Fetch	1	1.52	1.49	3992	20968	0	0
total	3	1 53	1.50	3992	20968	0	0

Misses in library cache during parse: 1

Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN) (recursive depth: 1)

Rows Row Source Operation

-----

- 0 FOR UPDATE
- 0 COUNT STOPKEY
- 0 TABLE ACCESS FULL TSTATUS Rows Execution Plan

-----

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- 0 SELECT STATEMENT GOAL: CHOOSE
- 0 FOR UPDATE
- 0 COUNT (STOPKEY)
- 0 TABLE ACCESS GOAL: ANALYZED (FULL) OF 'TSTATUS'

Elapsed times include waiting on following events:

Event waited on	Times	Max. Wait	Total Waited
	Waited		
db file sequential read	2920	0.00	0.12
db file scattered read	506	0.00	0.03

# **Old functionality Text:**

create or replace PACKAGE DBA\_OLDPKG\_TEMP AS

\*

NAME: DBA\_OLDPKG\_TEMP

PURPOSE:

**REVISIONS:** 

Ver	Date	Author	Description
1.0	12/6/2006	1 Cr	eated this nackage

\*

FUNCTION GET\_NEXT\_APP\_ID(WhereClause varchar2) RETURN SYS\_REFCURSOR;

FUNCTION GET\_NEXT\_APP\_ID\_TEST(SystemId IN varchar, ServiceId IN varchar, WhereClause varchar2) RETURN VARCHAR;

#### END DBA\_OLDPKG\_TEMP;

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```
create or replace PACKAGE BODY DBA OLDPKG TEMP
AS
 FUNCTION get_next_app_id (whereclause VARCHAR2)
  RETURN sys_refcursor
 AS
           sys refcursor;
  st cursor
  st_cursor_out sys_refcursor;
  query_str VARCHAR2 (4000);
  app_id
            VARCHAR2 (4000);
 BEGIN
-- GET THE WHERE CLAUSE FROM THE PARAMETERS TABLE ??
  query_str :=
      'SELECT PROCESSID FROM TSTATUS WHERE'
    || whereclause || ' ROWNUM = 1 FOR UPDATE NOWAIT SKIP LOCKED';
    --|| ' ROWNUM = 1 FOR UPDATE NOWAIT SKIP LOCKED';
  DBMS_OUTPUT.put_line ('STEP 11 =' || query_str);
  BEGIN
    -- RETRIEVE AND LOCK THE PROCESS ID
    --EXECUTE IMMEDIATE QUERY_STR INTO st_cursor;
    OPEN st_cursor FOR query_str;
    FETCH st_cursor
    INTO app_id;
    DBMS_OUTPUT.put_line ('sTEP 1 APP_ID=');
```

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```
UPDATE tstatus
      SET status = 'IN PROCESS'
    WHERE processid = app_id;
  rollback:
  EXCEPTION
    WHEN NO_DATA_FOUND
    THEN
      app_id := 0;
    WHEN OTHERS
    THEN
      DBMS_OUTPUT.put_line ('Error');
     DBMS_OUTPUT.put_line (SQLERRM);
     app_id := -1;
   END;
   -- THIS WILL ENSURE THAT THE SESSION IS NOT LOCKING ANY ROWS
   ROLLBACK;
OPEN st_cursor_out FOR
SELECT processid
FROM tstatus
WHERE processid = app id;
   RETURN st_cursor_out;
EXCEPTION
                              -- CAPURE ANY UNKNOWN ERRORS
WHEN OTHERS
THEN
app_id := -2;
RETURN st_cursor_out;
END:
FUNCTION get_next_app_id_test (
systemid IN VARCHAR,
serviceid IN VARCHAR,
whereclause
             VARCHAR2
RETURN VARCHAR
AS
st_cursor sys_refcursor;
query_str VARCHAR2 (4000);
       VARCHAR2 (4000);
app_id
BEGIN
-- GET THE WHERE CLAUSE FROM THE PARAMETERS TABLE ??
'SELECT PROCESSID FROM TSTATUS WHERE'
|| whereclause
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```



```
|| 'SYSTEM_ID ='"
|| systemid
|| " and service code ="
|| serviceid
|| ''' and LOCKROW(ROWID) = 1 AND ROWNUM = 1 FOR UPDATE NOWAIT SKIP
LOCKED';
DBMS_OUTPUT.put_line ('STEP 11 =' || query_str);
BEGIN
-- RETRIEVE AND LOCK THE PROCESS ID
--EXECUTE IMMEDIATE QUERY STR INTO st cursor;
OPEN st_cursor FOR query_str;
    FETCH st cursor
    INTO app_id;
DBMS_OUTPUT.put_line ('sTEP 1 APP_ID=');
UPDATE tstatus
SET status = 'IN PROCESS'
WHERE processid = app_id;
    rollback;
EXCEPTION
WHEN NO_DATA_FOUND
THEN
app_id := 0;
WHEN OTHERS
THEN
DBMS_OUTPUT.put_line ('Error');
DBMS_OUTPUT.put_line (SQLERRM);
app id := -1;
END:
-- THIS WILL ENSURE THAT THE SESSION IS NOT LOCKING ANY ROWS
ROLLBACK;
RETURN app_id;
EXCEPTION
                              -- CAPURE ANY UNKNOWN ERRORS
WHEN OTHERS
THEN
app_id := -2;
RETURN app_id;
END;
END;
```



# **Old Code Run Times:**

BEGIN :cur1 := DBA\_OLDPKG\_TEMP.get\_next\_app\_id('status = "FIFReceiving" and') ; END;

; END; call co	unt 	cpu	elapsed	disk	query	cu	rrent	
Parse	1	0.00	0.00	0	0	0	0	
Execute	1	1.64	1.62	3993	2117	8	0	
Fetch	0	0.00	0.00	0	0	0	0	
		1 ( )	1.60	2002	<u> </u>			

Misses in library cache during parse: 1

Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN)

Elapsed times include waiting on following events:

Event waited on Times Max. Wait Total Waited ------ Waited ------

SQL\*Net message to client 1 0.00 0.00 SQL\*Net message from client 1 0.00 0.00

\*

#### SELECT PROCESSID

FROM

TSTATUS WHERE status ='FIFReceiving' and ROWNUM = 1 FOR UPDATE NOWAIT SKIP LOCKED

call co	ount	cpu	elapsed	disk	query	currer	nt rows
Parse	1	0.01	0.00	0	0	0	0
Execute	1	0.00	0.00	0	0	0	0
Fetch	1	1.52	1.49	3992	20968	0	0
total	3	1.53	1.50	3992	20968	0	0

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Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN) (recursive depth: 1)

Rows Row Source Operation

1

- 0 FOR UPDATE
- 0 COUNT STOPKEY
- 0 TABLE ACCESS FULL TSTATUS

Rows Execution Plan

- 0 SELECT STATEMENT GOAL: CHOOSE
- 0 FOR UPDATE
- 0 COUNT (STOPKEY)
- 0 TABLE ACCESS GOAL: ANALYZED (FULL) OF 'TSTATUS'

Elapsed times include waiting on following events:

Event waited on	Times	Max. Wait	Total Waited					
Waited								
db file sequential read	2920	0.00	0.12					
db file scattered read	506	0.00	0.03					

\*



#### **New Code:**

```
CREATE OR REPLACE FUNCTION GET_NEXT_APP_ID_KIRAN(v_service_code
varchar2)
return varchar2
app_id
          VARCHAR2(4000);
v_service
           VARCHAR2(100);
BEGIN
case v_service_code when 'RECEIPT' then v_service:='Receiving';
   when 'WORKFLOW' then v_service:='Processing';
   when 'S2SRECEIPT' then v_service:='S2SReceiving';
   when 'REJECTION' then v_service:='Rejecting';
   when 'ACCEPTANCE' then v_service:='Accepting';
   when 'FORMINFORM' then v_service:='FIFReceiving';
   else v_service:=";
   end case;
  BEGIN
   SELECT /*+ index(tstatus,STATUS_IDX) */ PROCESSID into app_id FROM
egrantsadmin.TSTATUS WHERE STATUS = v_service and ROWNUM < 2
   FOR UPDATE NOWAIT SKIP LOCKED;
    UPDATE egrantsadmin.tstatus
      SET status = 'IN PROCESS'
     WHERE processid = app_id;
    ROLLBACK;
    RETURN APP ID;
```

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```
EXCEPTION
    WHEN NO_DATA_FOUND
    THEN
      app id := 0;
      return app_id;
    WHEN OTHERS
    THEN
      app_id := -1;
      return app_id;
   END:
END;
New Code Run Times:
[oracle@dbs5]/app/oracle/admin/grants07/udump$ cat newfunc_stats.txt
TKPROF: Release 9.2.0.8.0 - Production on Wed Jun 17 23:19:43 2009
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.
Trace file: grants07_ora_15217_DBA_NEWFUNC.trc
Sort options: default
******************************
count = number of times OCI procedure was executed
      = cpu time in seconds executing
cpu
elapsed = elapsed time in seconds executing
disk
      = number of physical reads of buffers from disk
query = number of buffers gotten for consistent read
current = number of buffers gotten in current mode (usually for update)
```

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rows = number of rows processed by the fetch or execute call

\*

alter session set events '10046 trace name context forever, level 12'

call co	ount	-	elapsed	disk		curre	nt rows
Parse	1			0	0	0	0
		0.00	0.00	0	0	0	0
	0				0	0	
Fetch	U	0.00	0.00	U	U	U	0
total	3	0.00	0.00	0	0	0	0

Misses in library cache during parse: 0

Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN)

Elapsed times include waiting on following events:

Event waited on	Times Max. Wait Total Waited Waited						
SQL*Net message to client		1	0.00	0.00			
SQL*Net message from client		1	0.00	0.00			
**************************************			******	***********			

call co	ount 	cpu	elapsed	disk	query	curr	ent	rows
Parse	1	0.00	0.00	0	0	0	0	
Execute	1	0.01	0.00	0	0	0	0	
Fetch	0	0.00	0.00	0	0	0	0	
total	· 2	0.01	0.00	 O	 0		 0	



Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN)

Elapsed times include waiting on following events:

Event waited on	Times	Max	. Wait	Total Waited
	Waite	d		
SQL*Net message to client		1	0.00	0.00
SQL*Net message from client		1	30.78	30.78

\*

BEGIN :cur1 := GET\_NEXT\_APP\_ID\_KIRAN('FORMINFORM'); END;

call co	ount	cpu	elapsed	disk	query	cur	rent	rows
Parse	1	0.00	0.00	0	0	0	0	
Execute	1	0.03	0.02	0	4	0	1	
Fetch	0	0.00	0.00	0	0	0	0	
total	2	0.03	0.02	0	4	0	1	

Misses in library cache during parse: 1

Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN)

Elapsed times include waiting on following events:

Event waited on	Times	Ma	x. Wait T	otal Waited	
SQL*Net message to client	Waited 1		0.00	0.00	
SQL*Net message from client		1	1.14	1.14	

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\*

## SELECT /\*+ index(tstatus,STATUS\_IDX) \*/ PROCESSID

#### FROM

# EGRANTSADMIN.TSTATUS WHERE STATUS = :B1 AND ROWNUM < 2 FOR UPDATE NOWAIT

## SKIP LOCKED

call	count	cpu	elapsed	disk	query	cui	rrent	rows
Parse	1	0.00	0.00	0	0	0	0	
Execut	e 1	0.01	0.00	0	0	0	0	
Fetch	1	0.00	0.00	0	4	0	0	
total Misses	3 in libr	0.01 ary cach	0.00 ne during p	0 parse: 1	4	0	0	

Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN) (recursive depth: 1)

Rows Execution Plan

- 0 SELECT STATEMENT GOAL: CHOOSE
- 0 FOR UPDATE
- 0 COUNT (STOPKEY)
- 0 TABLE ACCESS GOAL: ANALYZED (BY INDEX ROWID) OF 'TSTATUS'
- 0 INDEX GOAL: ANALYZED (RANGE SCAN) OF 'STATUS\_IDX'
  (NON-UNIQUE)

\*

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			ts '10046 tı elapsed					rows
Parse	1	0.00	0.00	0	0	0	0	
Execute	1	0.00	0.00	0	0	0	0	
Fetch	0	0.00	0.00	0	0	0	0	
total	2	0.00	0.00	0	0	0	0	

Optimizer goal: CHOOSE

Parsing user id: 25 (EGRANTSADMIN)

\*

## OVERALL TOTALS FOR ALL NON-RECURSIVE STATEMENTS

call co	ount	cpu	elapsed	disk	query	curre	nt ro	ows
Parse	4	0.00	0.00	0	0	0	0	-
Execute	5	0.04	0.03	0	4	0	1	
Fetch	0	0.00	0.00	0	0	0	0	
total	9	0.04	0.03	0	4	0	1	-

Misses in library cache during parse: 1

Elapsed times include waiting on following events:

Event waited on	Times	Max	. Wait To	tal Waited
	Waited	d		
SQL*Net message to client		3	0.00	0.00
SQL*Net message from client		3	30.78	31.93



OVERALL TOTALS FOR ALL RECURSIVE STATEMENTS										
call count		cpu	elapsed disk		query current		ent :	rows		
Parse	1	0.00	0.00	0	0	0	0			
				-						
Execute	1	0.01	0.00	0	0	0	0			
Literate	•	0.01	0.00	Ü	Ü	Ü	Ü			
Fetch	1	0.00	0.00	0	4	0	0			
total	3	0.01	0.00	0	4	0	0			
will	9	0.01	0.00	U	-	U	U			

- 5 user SQL statements in session.
- 0 internal SQL statements in session.
- 5 SQL statements in session.
- 1 statement EXPLAINed in this session.

\*

Trace file: grants07\_ora\_15217\_DBA\_NEWFUNC.trc

Trace file compatibility: 9.02.00

Sort options: default

- 0 session in tracefile.
- 5 user SQL statements in trace file.
- 0 internal SQL statements in trace file.
- 5 SQL statements in trace file.
- 5 unique SQL statements in trace file.
- 1 SQL statements EXPLAINed using schema:

EGRANTSADMIN.prof\$plan\_table

Default table was used.

Table was created.

Table was dropped.



53 lines in trace file. [oracle@dbs5]/app/oracle/admin/grants07/udump\$

**END OF DOCUMENT**