

CCB Meeting Decision Summary

Thurs., August 19, 2004
9:00a.m.
Rockledge 1
Fifth Floor Conference Room

Requests Covered

Submitted To CCB by	Request Title (Task Headline)	System / Subsystem	User Impact (Severity)	Request ID	Request Status (Task State)
Michael Goodman	Document Service, directory restructuring and periodic archiving	IMPAC II / Summary Statements	2 - Very High	CQERA00019304	CCB Approved
Vickie Fadeley	Web QT August Maintenance	J2EE Internal / WebQT		CQERA00019868	CCB Approved
Jennifer Flach	Upgrade to the latest version of the iText libraries	CGAP / CGAP-Generating Grant Image		CQERA00020305	CCB Approved
Jennifer Flach	Framework and SBC changes for CGAP Refactoring	CGAP		CQERA00020419 Walk-in item	CCB Approved

Decision Summary

CQERA00019304

1. Summary

Task Id: CQERA00019304
Submitted to CCB by: Michael Goodman
Date Submitted To CCB: 2004-08-17 00:00:00
Request Description (Task Headline): Document Service, directory restructuring and periodic archiving
Severity: 2 - Very High
System: IMPAC II
SubSystem: Summary Statements
Recommended Timeframe (Target Test Deploy Date): 2004-11-30 00:00:00
CCB Approval Counts: 0
CCB Decision: CCB Approved

Notes:

Michael Goodman stated that this task is to rectify ongoing problems with the document generator. Currently, all summary statements are in one directory, creating an overload that often slows the generator. This task would create a "document shuffler" program that would parcel off files into separate locations based on age. Having files in multiple directories is also a smart strategy; in the event of a disaster, files can be recovered one directory at a time. This task will require 160 hours of development time and 40 hours in integration testing. The work will not require any change in existing software. However, it will need testing to ensure that access to other applications is not broken. CCB acting chair Jim Cain (in chair Donna Frahm's absence) stated that this task seems to solve a large problem with minor amount of work. Development is expected to begin Nov. 1, with a target test deployment date of Nov. 30.

2. Description and Justification

Description:

Efforts are underway to develop a new directory structure that will accommodate more efficient backup/restore procedures for documents that are generated by the summary-statement generator (which includes not only summary statements but eSNAP documents as well). As part of the same effort, we would like to devise a way in which documents that are not likely to be touched again by the document generator can be moved off to directories that do not require (1) to be backed frequently, nor (2) to be visible to the NT generator.

More details will be added to this task ticket as detailed requirements are developed, and approved by the architecture team. Ultimately this will culminate in a CCB Request when development can actually proceed based upon the approved approach. Undoubtedly, maintenance will need to be performed on the existing Summary Statement (NT) document generator, and there may be supporting maintenance work to move files around within the new document structure, both at deployment and on a periodic (archival) basis.

I ask that, at the inception of this task, we identify a member of the maintenance development team now, so that this person will be available to participate in ongoing discussions between requirements analysts and architecture, contribute to the discussions, and be better prepared to review and respond to the detailed requirements once these have been produced.

Justification:

Efforts are underway to develop a new directory structure that will accommodate more efficient backup/restore procedures for documents that are assembled by the summary-statement generator (which includes not only summary statements but eSNAP documents as well). As part of the same effort, we would like to devise a way in which documents that are not likely to be touched again (or ever) by the document generator can be moved off to directories that do not require (1) to be backed frequently, nor (2) to be visible to the NT generator.

The most important justifications for such changes are as follows:

1. There is an enormous amount of NFS network traffic caused by the NT document generation service, which is attributed to the number of files in the directory to which the NT server is pointing.
2. Because of the way Windows works, performance of the document generators would be improved if there were fewer files in the target directory on the Unix server.
3. Having files in multiple directories would afford us more backup strategy options. In the event of a disaster recovery, we would have the ability to recover documents one directory at a time, as opposed to waiting around for one enormous job to complete and hoping it doesn't fail.
4. Generally, having more directories with fewer files eases Unix administration.

A recommended architectural approach to solving this problem has been documented, and reviewed. This document recommends the development of a "document shuffler" program, to augment the current functionality of the document generator. The current architectural approach document can be found in PVCS, in the following location:

ERA_IMPACII / Document Management / eRA Document Service, Maintenance - Architectural Approach and Design.doc

It is requested that development effort be approved, to start making the modifications recommended in the aforementioned Architectural Approach document.

3. Level of Effort

Impacted Group	LOE Time	Accessor
Analysis	0	
Development	160	Peter Ly
Integration Test	40	Sikder Islam

Acceptance Test 0
Operation 0

Overall Impact Assessment

No existing software will need to be changed. The implementation of the solution entails the development of a separate companion program to the document generator, that will need to be run each day to effect the necessary directory re-shuffling.

Implementation of this change will require an initial shuffling of many documents that currently reside in the NFS-visible directories, to their ultimate "archive" locations. This in turn will have an impact on many of the BFILE pointers that are currently maintained in GRANT_IMAGES, SUMMARY_STMNTS, and DOCS_T. Though the eRA applications themselves do not need to be changed, thorough regression testing will need to be performed to ensure that the affected documents are still accessible via the application interfaces that are normally used to retrieve/view them. Likewise, the document retrieval API's will also need to be tested to confirm that no adverse effects result from the directory-shuffling activity.

4. Associated Defects

Defect Id Defect Headline

5. Associated Sub Tasks

4. Task Id Task Headline

6. Associated Issues

Issue Id Issue Headline

CQERA00019868

1. Summary

Task Id: CQERA00019868
Submitted to CCB by: Vickie Fadeley
Date Submitted To CCB: 2004-08-13 00:00:00
Request Description (Task Headline): Web QT August Maintenance
Severity:
System: J2EE Internal
SubSystem: WebQT
Recommended Timeframe (Target Test Deploy Date):
CCB Approval Counts: 0
CCB Decision: **CCB Approved**

Notes:

Vickie Fadeley stated that this task is to correct some defects in Web QT, including a sequel error that is creating inaccuracies in data retrieval. The work is expected to take 56 hours in development and 32 hours in integration testing. Vickie said she was still awaiting word on the hours for acceptance testing. This request is included in the Web QT maintenance priorities to be completed in August.

2. Description and Justification

Description:

See associated defects

Justification:

Normal WEB QT defects and enhancement maintenance to be completed by ACT. Email CCB is requested so that ACT can begin work.

5. Level of Effort

Impacted Group	LOE Time	Accessor
Analysis	0	
Development	56	Adam Levy
Integration Test	32	Phil Dehaas
Acceptance Test	0	
Operation	0	

Overall Impact Assessment

Improved functionality and accuracy once defects are corrected.

4. Associated Defects

Defect Id	Defect Headline
CQERA00019815	Web QT SQL error

5. Associated Sub Tasks

Task Id	Task Headline
CQERA00019872	Add ability to search multiple PCC Admin IC's
CQERA00020002	Various Grant Folder Changes

6. Associated Issues

Issue Id	Issue Headline
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CQERA00020305

1. Summary

Task Id: CQERA00020305
Submitted to CCB by: Jennifer Flach
Date Submitted To CCB: 2004-08-11 00:00:00
Request Description (Task Headline): Upgrade to the latest version of the iText libraries
Severity:
System: Commons
SubSystem: JFRAME
Recommended Timeframe (Target Test Deploy Date): 2004-09-18 00:00:00
CCB Approval Counts: 0
CCB Decision: CCB Approved

Notes:

Jennifer Flach stated that this task is to upgrade the version of iText libraries in CGAP that is used to generate PDF grant images. A bug is causing certain attachments going through the generator to come out with the grant image all messed up. Correcting this will address one of the complaints of some service providers.

2. Description and Justification

Description:

CGAP needs to upgrade to the latest version of the iText libraries to address a bug in generating the PDF Grant document. The Framework component will need to be rebuilt with the latest iText jar files.

Justification:

To overcome an issue we encountered in the last eCGAP pilot.

6. Level of Effort

Impacted Group	LOE Time	Accessor
Analysis		
Development		
Integration Test		
Acceptance Test		
Operation		

Overall Impact Assessment

will need to regression test the iText-produced grant image

4. Associated Defects

Defect Id	Defect Headline
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5. Associated Sub Tasks

Task Id	Task Headline
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6. Associated Issues

Issue Id	Issue Headline
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CQERA00020419

1. Summary

Task Id:	CQERA00020419
Submitted to CCB by:	Jennifer Flach
Date Submitted To CCB:	2004-08-18 00:00:00
Request Description (Task Headline):	Framework and SBC changes for CGAP Refactoring
Severity:	
System:	Commons
SubSystem:	JFRAME
Recommended Timeframe (Target Test Deploy Date):	2004-09-20 00:00:00
CCB Approval Counts:	0
CCB Decision:	CCB Approved

Notes:

Jennifer Flach noted that this task is to separate the exchange from the CGAP application processing system. The goal is to have the exchange be a standalone, scalable system. This task will be timed with the next CGAP release set to go into production Oct. 15. Testing will be timed with the 10G migration, when regression testing is anyway going to take place.

2. Description and Justification

Description:

CGAP Re factoring release requires following changes in the re-usable framework and sbc components.

Framework:

The open source libraries used by the document service to generate PDF documents needs to be upgraded to process PDF documents created by different means. (This is task ticket 20305.)

These items are under this task ticket 20419:

Validation Service needs to be enhanced to process the repackaged rule definitions in CGAP.

Lookup Service needs to be enhanced to facilitate communication between Exchange and CGAP systems.

Sbc:

The new architecture of deploying exchange and cgap in different containers involves re-organizing the existing code into two different modules. The components needed by both systems are to be moved to a common library in sbc to avoid dependencies between the two systems.

Justification:

The architecture of CGAP is evolving to enable the exchange to be a standalone, scalable system apart from the CGAP application processing. This is essential to that goal.

3. Level of Effort

Impacted Group	LOE Time	Accessor
Analysis		
Development	64	Raghava Peketi
Integration Test		
Acceptance Test		
Operation		

Overall Impact Assessment

This will affect the deployment of CGAP where we will now have the exchange and CGAP deployed in separate containers. The development team has separated the code into an Exchange EAR and a CGAP EAR and moved a common piece to SBC. Will be timed with 10g migration to test when regression testing would need to occur anyway.

4. Associated Defects

Defect Id	Defect Headline
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5. Associated Sub Tasks

Task Id	Task Headline
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6. Associated Issues

Issue Id	Issue Headline
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