

CA - PMM

Project Name: CASAS Re-Engineering
OCIO Project #: Delegated
Department: Housing & Community Development
Revision Date: 9/27/10

Concept Statement

Description

Brief description of the proposed project:

Improve and enhance the basic Codes and Standards Automated System (CASAS) functionality and correct areas to allow increased acceptance in the user community. Remove dependency on third party software by moving to a web based solution. Re-structure CASAS so that the functions are loosely coupled rather than tightly integrated where common functionality is repeatedly duplicated across multiple forms. Provide an architecture which allows secure access over the internet rather than bandwidth-intensive virtual networks. The project would begin July 1, 2011 and finish June 30, 2012.

Need Statement

High Level Functional Requirements:

1. Poll user base for what has been working well in CASAS and for what has not worked so well.
2. As functional modules are worked on, move related Oracle Forms code to Java
3. Rewrite Business Layer to remove redundant coding across forms.
4. Create framework based environment

What is Driving This Need?

1. Obsolescence of Oracle Forms
2. CASAS was developed in the mid 1990s using old technology that has become fragile and very difficult to maintain
3. Without these upgrades CASAS cannot support the new functionality required for Codes and Standards business

Risk to the Organization if This Work is Not Done:

1. Oracle Forms no longer certified to work with the latest Windows Server OS
2. Developers no longer able to reliably develop with Oracle Forms Developer tools
3. Production Issue resolution at risk of being addressed with out-of-date development environments

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Benefit Statement

Intangible Benefits

Process Improvements (describe the nature of the process improvement):

New features, enhancements and production bug fixes in CASAS will be much more logical as well as easier and quicker to implement in the future. The separation of business logic from the forms means that the code will have a more logical layout and potential fixes will be easier to place. Code will be re-used rather than duplicated. Change control will be cleaner and more hierarchical. During the development cycle, documentation will be created where it had been missing before.

Other Intangible Benefits:

The current development/support team will gain a much more in depth knowledge of CASAS and its architecture, as well as creating and improving the architecture. Documentation will be created which will help future team members come up to speed on CASAS much faster than currently occurs. The direction will be to make CASAS a more web based product, benefits include negating the need for Citrix to access the CASAS system, keeping CASAS up to date with current technologies.

Tangible Benefits

Revenue Generation (describe how revenue will be generated):

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Cost Savings (describe how cost will be reduced):

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Cost Avoidance (describe the cost and how avoided):
 1. Will no longer need to license Oracle Forms. (However, other HCD systems may still require Oracle Forms/Report Services)
 2. Time to implement fixes will be reduced since business logic will be abstracted and fixes only need to be made once

Risk Avoidance (describe the risk and how avoided):
 Oracle itself is moving to Java based development for forms and no longer using Forms Services. While they will support Forms Services for the near future, they will eventually stop certifying forms for the latest Windows OS. The Forms development environment is already no longer supported and has issues running in a Windows 7 environment and is not certified to run on Windows Server 2008. The developers need to run in a degraded XP mode. Keeping CASAS in line with the latest technologies will mitigate obsolescence.

Improved Services:

Consistency

"No" Responses 		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

Impact to Other Entities

Nature of Impact to Other Entities

Entity:
 Describe the nature of the impact:
 None

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Entity:
<i>Describe the nature of the impact:</i>

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Solution Alternatives

Alternative 1:

Re-engineer CASAS forms and functionality through a phased approach.

Technical Considerations for Alternative 1:

Benefits will be realized as stated in the Benefit Statement above. Additionally, Alternative 1 would be done in a phased approach accomplishing releases by functional modules (functional areas), so that Codes customer would receive improvements as they happen and the rate of adoption would be more gradual so that wholesale shocking changes are not experienced.

ROM Cost: \$400,000 to \$450,000

Note: high end of range must not exceed 200% of low end of range

Alternative 2:

Purchase a tool to convert the Oracle Forms to a different technology (i.e.: JSP). This will remove the obsolescence issue, but all current logic and functionality will be moved over as well. This will not improve any inherent deficiencies within CASAS. Business logic will still be contained in the forms (many times these are duplicated in throughout many forms). The system will still remain a client/server system.

Technical Considerations for Alternative 2:

A third party tool would need to be purchased to accomplish the conversion. The conversion is generally known to be able to convert 70 - 80% of the code. The remaining 20 - 30 % would need to be completed by a combination of CASAS personnel and contract resources from the company supplying the conversion tool.

ROM Cost: \$450,000 to \$500,000

Note: high end of range must not exceed 200% of low end of range

Alternative 3:

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Technical Considerations for Alternative 3:	
ROM Cost: _____ to _____	Note: high end of range must not exceed 200% of low end of range

Recommendation

Comparison:

Alternative 1	ROM Cost	Risk
	\$400,000 - \$450,000	
Alternative 2	ROM Cost	Risk
	\$450,000 - \$500,000	
Alternative 3	ROM Cost	Risk
	\$0 - \$0	

Conclusions:

1	CASAS forms and reports must be upgraded to current technology.
2	
3	
4	

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Recommendation:

Implement Alternative 1

Project Approach *(if known)*

System Complexity:		System Business Hours: <i>(e.g., 24x7, 9am-5pm)</i> :			
Architecture	<input type="checkbox"/> Mainframe	<input type="checkbox"/> Client Server	<input checked="" type="checkbox"/> Web Based	Num. of New Databases:	0
Technology	<input type="checkbox"/> New	<input checked="" type="checkbox"/> New to Staff	<input checked="" type="checkbox"/> In-House Experience	Interfaces:	
Implementation	<input type="checkbox"/> Central Site	<input checked="" type="checkbox"/> Phased Roll-out		Num. of Sites:	8
M & O Support	<input type="checkbox"/> Contractor	<input type="checkbox"/> Data Center	<input checked="" type="checkbox"/> Project	<input checked="" type="checkbox"/> In House	
Procurement Approach: CMAS				Number of Procurements: 1	
Open Procurement?	No	Delegated Procurement?	Yes		
Scope of Contract	<input checked="" type="checkbox"/> Development	<input checked="" type="checkbox"/> Implementation	<input type="checkbox"/> M & O	<input type="checkbox"/> Other: _____	
Anticipated Length of Contract:	1	Years /	extensions for	0	years
				0	