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Enterprise Architecture

Oracle Forms/Report Migration Vendor Evaluation and POC

DRAFT

Ask: Direction and Approval on PoC Funding

Review

- Vendor Comparison Matrix
- PoC Approach
- Innovation Funds Business Case

Vendors Ask

- Showcase Migration Tools and Capabilities
- Provide Indicative Pricing
- POC Costs

Vendors Considered

- Cognizant (Evaluated)
- Cap Gemini (Evaluated)
- Accenture (Not Evaluated – No Proposal)
- Infosys (Evaluated – cost too high $24mil)
- DB Best (Evaluated)
- ReNaps (Not Evaluated - Small)
- PITTS (Not Evaluated - Bavaria)

Vendor Comparison

	Capability and Evaluation Criteria	Weight	COG	COG Score	CAP	CAP Score	DBBest	DBBest Score	Description of Capability
	Weight: Must Have(3), Should Have (2), Could Have (1)					Score: Do Not Meet (1), Meet (3), Exceed (9)			
Functional	Modern Look and Feel	3	3	9	3	9	1	3	Ease of navigation and modern look and feel of the application
Functional	Branding and Experience	2	3	6	3	6	1	2	Capability to create a experience and branding inline HIG standards
Functional	Single Sign On	2	3	6	3	6	3	6	Ability for software users to utilize HIG's credentials
Functional	Operational Reporting	2	3	6	3	6	3	6	Operational/Application reporting is seemless integrated
Non-Functional	Technology Standards	2	3	6	3	6	3	6	Hartford approved standard software and solution
Non-Functional	Accelerators and Tools	3	3	9	3	9	9	27	Pre-built accelerators and tools that helps in migrations
Non-Functional	Extensibility/Scalability	3	3	9	3	9	1	3	Ease to enhance the functionality and scale the solution
Non-Functional	Cloud Ready solution	2	3	6	3	6	3	6	Solution hosted in the cloud is the preference
Non-Functional	Solution Complexity	2	3	6	3	6	3	6	Complexity of the solution/software to implement
Non-Functional	Ease of Integration	2	3	6	3	6	3	6	Ease of integration with other systems
Non-Functional	Supportability	3	3	9	3	9	1	3	Ease of supporting the software/solution
Non-Functional	Recoverability	2	3	6	3	6	3	6	Solution can be recovered within the SLA defined
Non-Functional	Strategic Direction	2	3	6	3	6	1	2	Solution is the strategic solution for The Hartford
Non-Functional	Upgradability	3	3	9	3	9	3	9	Solution is upgrades are available and ease to upgrade.
Non-Functional	Performance	3	3	9	3	9	3	9	Solution can meet defined SLA's - Quality and response times
Total				108		108		100	
Costs	Cost (Dev/QA/Impl)		$8mil-13mil		$5.5mil		$6.5 mil		Vendor Indicative pricing based on 3500 forms and 750 reports.
	Cost (License)		0		0		$2.5K		
	Cost (Infra)		TBD		TBD		TBD		
	POC		$155K (Innovation Funds?)		$97K (Innovation Funds?)		87K (Out of Pocket)		
	POC Scope		7 Forms and 35 Reports		7 Forms and 20 Reports		25 Forms and 25 Reports		
TimeLine	Duration		24 months		TBD		TBD		

PoC Approach

In-Scope	Oracle Forms, Oracle Reports, Associated PLSQL and Hyperion SQR migration on n-tier architecture. Group Benefits Applications : Loss Processing System –GroupRe and Case Management On-line • 7 Forms, 35 Reports/SQR of varying complexity	1 - 2 weeks 2 – 4 weeks 4 - 6 weeks **6 - 10 weeks** 10+ weeks
Success Criteria	• Production Ready Deployable Migrated Application • Cloud Ready Application, Utilize AWS for Migration activities • Measure of migration effort based on complexity • Measure on-going maintenance effort, skillset requirements and technology dependencies • Refined of cost and timeline for entire portfolio	
Funding	• Cognizant – Innovation Funds? • Cap Gemini – Innovation Funds? • DB Best – Out of Pocket	

Recommendation : POC with Cap Gemini using Innovation Funds

Innovation Funds – OFR/SQR PoC

Oct 2020

Oracle Forms, Reports and SQR Tech Modernization

THE HARTFORD

Description

Business Problem:
Oracle Forms and reports is a legacy client server 2 tier technology. The current Oracle Forms and reports end of life is in 2025 while the Java v8 support ends in March 2022. In addition to the inconsistency and usability issues with the current screens there are challenges with the tech stack
- RHEL OS 7 upgrade incompatible with legacy SQR
- End users functionality impacted with Java 8 support ending in March 2022
- Increased license cost for Oracle fusion starting in 2022
- No security patches and upgrades for Hyperion SQR
- OFR remediation for applets and SQR required.

Opportunity:
The UI for the Oracle forms applications can be transformed using latest tech stack such as Angular and Spring boot while the Oracle reports and SQR can be transformed using Jasper reports.

In-Scope:
- Conversion of OFR applications in Group Benefits, Corporate, Commercial and Billing
    - Oracle Forms to Java (Angular and Springboot)
    - Oracle Reports/SQR to Jasper Reports.
- Validate cloud readiness/containerization

Out-of-Scope:
- Business transformation and enhancements to the application other than consolidation of UI screens
- Database upgrade or transformations to data layer not required to support the new UI

Planned Dates:
- Oct 2020 – Dec 2020 for the POC on Group Benefits - Loss Processing (GroupRe – 2 forms, 35 reports/SQR) and Case Management (Global Agent Change – 5 forms, reports excluded) application to cover Oracle Forms, Reports and SQR; Full deployment subject to funding approval post PoC

Timeline

	W1	W2	W3	W4	W5	W6
Planning, Estimation & Setup for Pilot	■					
Pilot Execution	■	■	■	■	■	■
Post Pilot Review						■

Pilot Costs

- CAP proposes to execute the PoC for 6 weeks for a price of ~97K

Pre-reqs, Resources Required (HIG)

- Business involvement during discovery phase, requirements and UAT
- Architecture support
- Infrastructure setup and any required environments, tools, software's and licenses

Potential Transformation Benefits Identified

- Avoid business disruption and higher costs for extended support after the end of life for the current tech stack
- Legacy application modernization into AWS
- Modernization of the Tech stack and adoption of open source technologies removes any dependency on Oracle for support and licensing.
- Consistency and improved screen navigations

1. Key Measures of Success

- No dependency on OFR or SQR technologies
- No loss of functionality or significant degradation in performance

Risks and Mitigation

- Technical compatibility between different software components - Business application with a mix of form and reports complexity has been identified for proof of value to ensure that target state architecture components are compatible.

Cost Benefit Analysis
For Pilot & Full Implementation

Potential Cost:

	Pilot / PoC:	Production Implementation		
		Y1	Y2	Y3
Resource	$97K	$	$	$
License / Tool	$0	$	$	$
Hosting (Cloud)	$0	$	$	$
Infrastructure	$0	$	$	$
Others (TBD)	$0	$	$	$
Total	**$97K**	**$TBD**	**$TBD**	**$TBD**

Elapsed Time: *(in months)*	2	**TBD**

Related / Ongoing Projects

Potential Benefits:

	$ Benefits		
	Y1	Y2	Y3
Potential Top Line growth	$	$	$
Operational Efficiencies	$	$	$
Total Benefits	$	$	$
Net Benefits	$	$	$

Y3 Onwards

Break Even Period: *(in months)*	

Soft Benefits

Explore emerging Technologies	✓	Market Differentiator	✗	New Market / Product Expansion	✗
Customer Experience	✓	Sol. Expansion (Ent)	✓	Capability Enhancements	✓

Appendix