Project* Information

Client*	Sponsor	Program*	Category[A]*	Business Driver*	Priority Rank
Isobar	Department, Admin	Big Data Solutions	(none)	Business Driver?	TBD

Project Mgr*	Date Last Updated	Target Deployment Date	Project* Status
Saple, Nikita	03/03/2017	12/28/2019	Annual Planning

IMPACT

Enhancement to the existing Bus/Ops?	Y	Current Process Improvement?	Y	Service Improvement?	Y		
Regulatory?	Y	Enterprise Priority?	Y	Strategic Initiative?	Y	Available Funding	15,000,000.00
Cost of NOT Implementing	1,300,000.00	Total Expected Saving	1,500,000.00	Cost Saving?	Y	Saving Years	3

PLANNING MANDATE DESCRIPTION

1. PURPOSE
Support Airmen with easier, more secure access to information. The single site for Airmen to securely receive communications, access information, and connect and collaborate with other Airmen.

2. AUTHORITY RESPONSIBLE
Global Programmatic experiences (Content Analysis Department) for Isobar.

3. BACKGROUND
Isobar is 5,500 people in over 85 locations across more than 45 markets globally that partner with the client from an early strategic stage of the project through the implementation of an incredibly complex platform. Isobar brings into existence applications and digitally centered marketing campaigns for mobiles devices, web and social media. Isobar intends to resolve complex client challenges and render incontrovertible business results to become the preferred choice in digital media.
The Isobar Global Programmatic experiences department helps declutter the portal making it easy to navigate and support mobile access.

4. PROJECT OBJECTIVES
• Upgrade the portal to meet airmen needs.
• Support Airmen with easier, more secure access to information.
• Refashioned the Portal with a mobile-ready, responsive web design optimized for low-bandwidth network connections.
• Streamline content and a more intuitive navigation boost usability while the updated design reflects current Air Force branding.
• To increase productivity, implement features that enabled user personalization and group workspaces.

4.1 Core functions: Next Best
Conversation Tool, Air superiority, Space superiority
4.2 Business Benefits: Real time Information for Airmen.

5. SCOPE
Scope of this website includes upgrading the portal to meet airmen's needs.
• Find out what you need in terms of recruiting and training.
• Business discovery - The broader use cases for Big Data need to be taken into consideration.
• Information discovery and architecture - Discovering the data sources (Cargo transports, electronic missions, weather reconnaissance) needed to support
target use cases and then develop an architecture that supports it.
• Design - Having established the information architecture, design the Big Data part — including hardware, software, analytics and application stacks.
• Procurement - Design a Programmatic engine that can be used to handle the air traffic and weather conditions
• Ingestion - Incorporating the data sets into Big Data platform of choice.
• Analytical application to the data sets.
• Quality
assurance/ Test - Test all of it.

6. CONSTRAINTS
• Storage constraints are addressed by minimizing free space, eliminating database reorgs, and reducing or eliminating backups
• Extended run times for bulk loads are reduced by intelligent data partitioning
• Query elapsed time constraints due to reduced data availability are reduced by using an active/inactive table technique.
• Scope Constraint: If the scope is not defined then it may result in delivery of product which is not as per the requirements hence affecting the quality of product.

7. INTERFACES
Client specific interface: Isobar owns an IT department
• Direct database access
• Data quality and data lineage
• Executives and Upper management level
Client-Vendor interface: Isobar collaborates with US Air force and the weather department to analyse air traffic and weather conditions.

8. QUALITY EXPECTATIONS
Integrating and cleansing data
Business implications
- Money/ resources needed

- Time span of the system to remain in existence
- Impact on other departments

Estimate costs
- Training
- Software maintenance
- Internal manpower

9. OUTLINE BUSINESS CASE
Joining Data from multiple RDMS sources and combining multiple factors from several records is not feasible. For faster and easier processing, and to achieve in depth analytics for the airmen, big data solution would be appropriate. The platform is expected to be secure supporting large databases.

10. ASSOCIATED DOCUMENTS
Please
see the Risk/Issues Management section of vPPM for further information on risk assessment.

PLANNING BUDGET (Currrency:U.S. Dollar)

Hardware	Software	Consulting	Operations	Other	Total
3,500,000.00	2,500,000.00	1,000,000.00	2,000,000.00	6,000,000.00	**15,000,000.00**

RESOURCE REQUIREMENTS

Year	Type	Application Engineer	Database Admin	Network Architect	Project Manager	Systems Architect
2017	Estimate	6	4.8	2.4	6	
2018	Estimate	6	4.8	3.6	2.4	6
2019	Estimate	6	4.8			

** Resource Allocation is Not Available

Issues/Risks

ID	Prob	Impact	Exposure	Issue/Risk	Assigned	Expected	Description*	Resource	Action
473	40	5	2	The Scalability Challenge: The project grows and evolves rapidly. It is important to consider scaling up and down on demand. Hadoop functionality fails to take into account that data storage and analytics demands are going to increase	03/01/2017	03/22/2017	Cloud-based Hadoop solution, as Hadoop in the cloud offers faster and easier scalability to accommodate growing data demands.	Saple, Nikita	Consolidate
476	30	7	2	Talent Shortage: Big data functionalities typically require sophisticated teams of developers, data engineers, data scientists and analysts who have the knowledge and skills required to identify actionable insights that create value and competitive advantages.	02/15/2017	07/02/2017	Cloud vendor need to provide their own educational resources as well as the bulk of the management that the big data implementation may require.	Saple, Nikita	Consolidate
477	35	4	1	Data Quality: Storing every piece of data, a business produces in its original form compounds the problem. Dirty data includes user input errors, duplicate data and incorrect data linking.	03/01/2017	05/25/2017	Along with maintaining and cleaning data, big data algorithms can be used to help clean data.	Saple, Nikita	Consolidate

478	25	6	1	Security: Keeping the vast lake of data secure is important.	02/22/2017	04/20/2017	1. User authentication for every team and team member accessing the data. 2. Proper use of encryption on data in-transit and at rest. 3. Recording data access histories and meeting other compliance regulations 4. Restricting access based on a user's need.	Saple, Nikita	Consolidate
479	40	6	2	Cost Management: It's difficult to project the cost of a big data project, given how quickly they scale and use resources.	03/03/2017	03/01/2017	Big data in the cloud projects must carefully evaluate the service-level agreement with the provider to determine how usage will be billed and if there will be any additional fees.	Saple, Nikita	Consolidate