

Project* Information

Client*	Sponsor		Program*		Category[A]*	Business Driver*	Priority Rank
Isobar	Department, Admin		Big Data Solutions		(none)	Business Driver?	TBD
Project Mgr*	Proj Heatmap	Prev Heatmap	Date Last Updated	Project* Start Date	Est. Completion Date	Target Deployment Date	Project* Status
Saple, Nikita	Not Applicable	Not Applicable	04/07/2017		12/28/2019	12/28/2019	Approved

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

STATUS REPORT

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.

MILESTONES / TASKS

TaskSeq	SDLC	Description	Assigned to	Type	Status	HeatMap	Start Date	End Date	%Comple
1	1-Initiation	Project Initiation	Saple, Nikita	Analysis	Complete	Complete	01/01/2017	01/08/2017	100.00%
2	1-Initiation	Architecture Design	Saple, Nikita	Not Defined	Complete	Complete	01/08/2017	02/05/2017	100.00%
1	2-Planning	Talent Management & Optimization	Saple, Nikita	Analysis	Complete	Complete	02/06/2017	02/14/2017	100.00%
1	2-Planning	Project Planning	Saple, Nikita	Analysis	Complete	Complete	02/15/2017	02/28/2017	100.00%
1	3-Execution	Architecture review & Approval	Saple, Nikita	Analysis	Complete	Complete	03/01/2017	03/07/2017	100.00%
1	3-Execution	Vendor/Tool Selection	Saple, Nikita	Analysis	Complete	Complete	03/08/2017	03/18/2017	100.00%
2	3-Execution	Purchasing Process	Saple, Nikita	Milestone	Complete	Complete	03/19/2017	03/31/2017	100.00%
3	3-Execution	Receive Equipment	Saple, Nikita	Milestone	Complete	Complete	04/01/2017	04/15/2017	100.00%
4	3-Execution	Equipment Certification	Saple, Nikita	Milestone	Complete	Complete	04/16/2017	05/01/2017	100.00%
5	3-Execution	Write Master Test Plan	Saple, Nikita	QA	Open	Green	05/01/2017	05/05/2017	0.00%
6	3-Execution	Write Test Cases	Saple, Nikita	QA	Open	Green	05/05/2017	05/10/2017	0.00%
6	3-Execution	Setup Test environment	Saple, Nikita	QA	Open	Green	05/10/2017	05/15/2017	0.00%
7	3-Execution	Transformation & Load Process	Saple, Nikita	Development	Open	Green	05/15/2017	06/01/2017	0.00%
8	3-Execution	Unit Testing	Saple, Nikita	QA	Open	Green	05/22/2017	06/01/2017	0.00%
9	3-Execution	System Testing	Saple, Nikita	QA	Open	Green	06/01/2017	06/04/2017	0.00%
10	3-Execution	User Acceptance Testing	Saple, Nikita	QA	Open	Green	06/04/2017	06/10/2017	0.00%
1	4-Controlling	Project Management & Status Reporting	Saple, Nikita	Other	Open	Green	01/01/2017	06/30/2017	0.00%

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1	5-Closing	Training	Saple, Nikita	Not Defined	Open	Green	06/10/2017	06/16/2017	0.00%
2	5-Closing	Implementation	Saple, Nikita	Systems	Open	Green	06/16/2017	06/24/2017	0.00%
3	5-Closing	Post Implementation Sypport	Saple, Nikita	Systems	Open	Green	06/25/2017	06/29/2017	0.00%
4	5-Closing	Closing	Saple, Nikita	Other	Open	Green	06/29/2017	06/30/2017	0.00%

USAGE STATUS (Duration in Days)

Estimated Hours	Actual Hours	Estimated Duration	Actual Duration	% Hours Used	% Duration Used	Days Remaining	Cal Heatmap	System Message
7,920	0	0	0	0.00%	0.00%	0		⊖ Data Not Defined: [Start Date]

PLANNING BUDGET (Currency: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

(2017) Estimates

Department	Resource	FTE
NEU-COE2017Spring - BigData Course	Application Engineer	6.00
NEU-COE2017Spring - BigData Course	Database Admin	4.80
NEU-COE2017Spring - BigData Course	Project Manager	2.40
NEU-COE2017Spring - BigData Course	Systems Architect	6.00

(2017) Actuals

Department	Resource	FTE
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(2018) Estimates

Department	Resource	FTE
NEU-COE2017Spring - BigData Course	Application Engineer	6.00
NEU-COE2017Spring - BigData Course	Database Admin	4.80
NEU-COE2017Spring - BigData Course	Network Architect	3.60
NEU-COE2017Spring - BigData Course	Project Manager	2.40
NEU-COE2017Spring - BigData Course	Systems Architect	6.00

(2018) Actuals

Department	Resource	FTE
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(2019) Estimates

Department	Resource	FTE
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(2019) Actuals

Department	Resource	FTE
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NEU-COE2017Spring - BigData Course	Application Engineer	6.00
NEU-COE2017Spring - BigData Course	Database Admin	4.80

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	Consolidat
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	Consolidat
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	Consolidat
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	Consolidat
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	Consolidat

