

## Case Study A

# CUSTOM SOFTWARE FOR THE DEPARTMENT OF DEFENSE

## The Challenge

In 2016 Volant was selected to establish a cloud-based architecture that integrates existing and emerging capabilities for the access, ingest, analysis, and fusion of intelligence and command and control (C2) data in the U.S. INDO-PACOM Area of Responsibility (AOR). A key challenge for designing and developing the solution was the lack of well-defined requirements at project initiation. The initial capability gaps were defined at a very high level and detailed requirements had to be captured from end users based at USINDOPACOM.

## Our Approach

Volant's approach to addressing the key challenge was to participate in numerous site visits, including participation in USINDOPACOM military exercises, and to leverage agile best practices and DevOps principles to solicit frequent feedback directly from JIOC IT end users. This application of agile development and frequent deployment to ops (DevOps) and frequent interaction with end users enabled the Volant team to more accurately understand the end user's need and to decompose the initial high-level requirements into specific software capabilities that were appropriately aligned to true mission needs.

Using this proven approach, Volant is successfully providing users with a Command and Control of Intelligence (C2I) Dashboard and JIOC Targeting Cell Tool capabilities based on mission priorities and validated user requirements as conveyed by the user.

**The Volant team leveraged, to the maximum extent possible, government investments already made in DI2E capabilities to include:**

01

**Leveraging the DI2E Framework provided software development tools**

[www.di2e.net/display/DI2E/DI2E+DevTools](http://www.di2e.net/display/DI2E/DI2E+DevTools)

02

**Leveraging government owned software from other projects via the Di2E Storefront**

[storefront.di2e.net/openstorefront](http://storefront.di2e.net/openstorefront)

“

**The Asia-Pacific region will be the economic driver for the world in the years to come, and that is why rebalancing the U.S. military to the region makes such sense.**

*Defense Secretary Ash Carter, 2015*

## DELIVERED CAPABILITIES INCLUDE:

### C2I Dashboard

- Web-based tool to organize and visualize JIOC plans and production, to include the following:
  - Decision Points (DP)
  - Priority Intelligence Requirements (PIR)
  - Friendly Forces Information Requirements (FFIR)
  - Essential Elements of Information (EEI)
  - Requests for Information (RFI)
  - Joint Integrated Prioritized Collections List (JIPCL)
  - Component Prioritized Collections Lists (CPCL)
  - ISR Status
  - Watch Log
  - Night Orders
  - Battle Rhythm
- Integrates data from operationally deployed RFI, Planning, Product Portal and Theater Asset systems
- Supports import from Excel, and export to both Excel and PowerPoint

### JIOC Targeting Cell Tool

- Web-based set of capabilities to build “living” Target System Analyses (TSAs) and to manage the Target Development Nomination (TDN) process
  - Build models of target systems
  - Perform critical factors/vulnerability characteristics assessments
  - Define targeting strategy
  - Manage TDN workflow/processes
  - Provide workspace for building target remarks and materials prior to dissemination to JTT/MIDB systems
  - Auto-push quality controlled and approved target remarks to MIDB system
- All capabilities utilize the same object-based data store
  - Semantic linkages maintained between target system models, analysis, strategy, and TDNs
  - Ingest data from multiple data sources (MIDB, Fishnet, etc.)
- Hosted on C2S to enable collaboration across JWICS

In summary, Volant’s agile technical approach provides the government with improved C2 of Intelligence and improved Full Spectrum Targeting with deliveries aligned to USINDOPACOM mission priorities. The Volant team frequently engaged the customer with numerous site visits, including participation in USINDOPACOM military exercises, thereby enabling the Volant team to truly understand the mission needs of the customer and deliver successful capabilities to end users.

For more information contact us at **(571) 210-0030** or **[info@volantco.com](mailto:info@volantco.com)**