



Market: Defense

Customer: US Army, CIO/G6, Army Architecture Integration Center (AAIC)

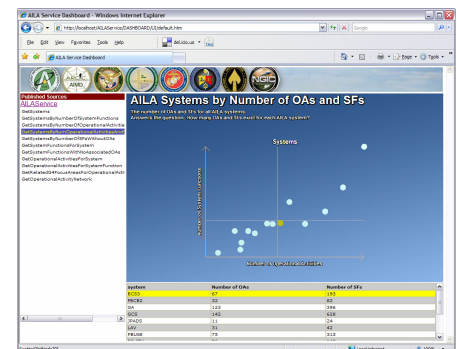
Problem: US ARMY CIO/G6 requested a solution for presenting proprietary operational communications systems and Army developed DoDAF data to decision-making leadership through a Topology Pilot and DoDAF Visualization Tool Project. Army needed a solution capable of supporting assessments and decision making processes for multiple domains (ex., acquisitions, logistics, and operations) and stakeholder perspectives (ex., operational, technical, financial, and analytical).

Solution: Bridgeborn supported AAIC efforts by focusing on two major visualization projects: cross-domain analysis and network traffic analysis. For the cross-domain project, Bridgeborn developed a web-enabled visualization dashboard tied to web-service end-points and a MS Access database. Multiple Army domains (AILA, AABEA) provided standard DoDAF views and using Extract, Transform, Load, and Visualize (ETL-V), Bridgeborn mapped relevant, common data sources to standards views to answer stakeholder questions.

Services Provided	
✓	Analysis
✓	SDE&I
✓	Data Visualization
✓	Support Services
	Training and Education
	Research and Development

To assist stakeholders in answering network-based questions, Bridgeborn integrated visualization capabilities with network analysis algorithms to produce a web-based application. Consuming raw netflow data, this application allows non-experts to understand and communicate information about their network.

Value to Client: Bridgeborn has been able to identify and visualize redundancies in Army systems and capabilities across multiple domains, allowing stakeholders to realize and address concerns. Bridgeborn is currently working on mapping redundancy information to cost data to help determine the related expense and to identify the potential financial resource that could be freed by relieving such redundancies.



Bridgeborn has worked with ARNG and CERDEC to visualize network traffic from multiple perspectives to assist stakeholders in making network-based decisions. Currently, Bridgeborn is adding a scenario-driven “what-if” layer to its Network Traffic Analysis tool. Ultimately this layer will allow decision-makers to mimic changes to an existing network and, through trend analysis of historical data and predictive algorithms, see the impact of potential changes.