Critical Infrastructure Protection

Every major organization relies heavily on digital technologies to carry out its day-to-day functions and responsibilities. Technology is used to manage power grids, air transportation systems, financial markets, telecommunications, public utilities, and network-centric defense operations. As cyberspace becomes critical to global operations in a greater number of sectors, the potential damage from cyber attacks becomes more severe. Many critical assets and infrastructure are now the information technology and cyber tools that organizations rely on for mission-essential functions. Leaders need to be prepared to successfully protect the physical and virtual systems that are vital to their country’s interests. Key decisionmakers must be able to assess preparedness and identify areas for improvement in their organizations’ existing cybersecurity response plans. Without the establishment and validation of critical infrastructure protection programs, organizations risk falling into ad hoc, uncoordinated routines that fail to address key security gaps.

Booz Allen Hamilton Can Help You Be Ready for What’s Next

Booz Allen Hamilton, a leading strategy and technology consulting firm, develops critical infrastructure protection (CIP) programs to reduce risk to major systems and key resources. We assist by identifying and assessing critical assets, performing consequence analysis, and executing strategic and operational remediation and mitigation plans. Our experienced professionals and proven methods help clients develop robust CIP programs that reduce damage from quickly evolving cybersecurity threats in the virtual and physical realms.

Our Service Offering

Booz Allen Hamilton has a defined, comprehensive service offering that provides clients with a proven approach for developing and implementing an effective infrastructure protection program. We help clients identify critical assets and assess those assets for loss or disruption while staying within the bounds of current policies, directives, and guidance. We identify key public and private stakeholders who can best coordinate the development of critical asset lists and participate in working groups. Depending on the prioritization of assets, we develop a risk management framework that reflects established processes for consequence, vulnerability, and threat information and generate a comprehensive, systematic, and rational risk assessment.

Based on these results, Booz Allen Hamilton then partners with clients to develop risk mitigation strategies that reduce the organization’s amount of residual risk to acceptable levels. These mitigation strategies can be tested as part of a routine cycle and can include periodic assessments of critical assets. As missions evolve and new requirements emerge, Booz Allen Hamilton will provide recommendations to update critical asset lists based on the consequence of loss identified. Throughout this work, our highly skilled and experience staff members partner with clients to:

- Set goals and objectives that meet current policies, directives, and other organizational needs
- Identify critical assets, including facilities, staff, and information technology systems
- Conduct risk assessments, prioritize critical assets and key infrastructure, and run interdependency analyses
- Develop and implement programs to mitigate risk and provide enterprisewide, integrated mission assurance
- Use the latest technology and visualization tools to enhance the organizational understanding of critical assets and assist in the management of CIP programs, such as geospatial information system (GIS) supports to better map assets and interdependencies.

About Booz Allen Hamilton

Booz Allen Hamilton is a leading provider of management and technology consulting services to US and international governments in defense, intelligence, and civil sectors, and to major corporations, institutions, and not-for-profit organizations. Booz Allen Hamilton is headquartered in McLean, Virginia, employs more than 25,000 people, and had revenue of $5.59 billion for the 12 months ended March 31, 2011. (NYSE: BAH)

Ready for what’s next. www.boozallen.com
Booz Allen Hamilton CIP Process

**Client Applications**

Booz Allen Hamilton has partnered with many clients to help them explore the complex nature of cyber threats and understand how they affect their mission and organization. The following are recent examples of our support for critical infrastructure protection programs:

**Office of the Under Secretary of Defense for Personnel and Readiness, Personnel Sector, Defense Critical Infrastructure Program.** Booz Allen Hamilton provides end-to-end critical infrastructure analysis for DoD’s human resource agency. Our support includes developing a first-of-its-kind geographic mapping tool that provides both asset geolocation information and the ability to analyze intricate asset dependencies using real-path, physical mapping of asset linkages. We use our Characterization and Asset Dependency Analysis Tool (CADAT), which has become a model for other organizations and is the basis for other tools used in the critical infrastructure community.

**US Department of Health and Human Services (HHS).** For HHS, Booz Allen Hamilton identified and prioritized the department’s functions, services, and supporting assets and resources. These elements are critical to departmental operations and are vital to ensuring US national security, economic stability, and public health and safety. The effort involved collecting infrastructure data, conducting interviews, and analyzing HHS processes and systems and then documenting our findings. Specifically, we analyzed interdependencies associated with key assets supporting critical business and cyber functions. The analysis produced a clear understanding of the key inputs and outputs associated with each process and identified single points of failure, critical nodes, critical links, and other risks associated with the value chain.

**US Air Force (USAF) and US Marine Corps (USMC) Critical Infrastructure Programs.** Booz Allen Hamilton led the development of service-level policy documents, created both services’ Critical Asset Prioritization Methodology, guided the creation of comprehensive critical infrastructure protection standards and benchmarks, and conducted ongoing risk assessments of the USAF and USMC infrastructure protection programs. Among other activities, we assessed USAF and USMC facilities worldwide to ensure compliance with standards.

Whether you’re managing today’s issues or looking beyond the horizon, count on us to help you be ready for what’s next.

---

**For more information contact**

**Nick Bahr**
Principal,
Regional Manager
bahr_nicholas@bah.com
+971-50-446-3257

**Thomas Dlugolecki**
Principal,
Regional Manager
dlugolecki_thomas@bah.com
+971-2-656-5810

**John Mauthe**
Principal,
Business Manager
mauthe_john@bah.com
+971-50-134-4270

Booz | Allen | Hamilton