

BiC-1

Core Competencies



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- **Solutions – Our Competencies at a Glance**
 - BiC-1 is a leading provider of mission-critical technology, cyber, and data solutions to more than 50 US Federal Agencies. Applying decades of experience, our experts work to ensure the security of the digital domain, the effectiveness of complex IT systems, and the delivery of quality intelligence to decision-makers.
 - We specialize in three core areas of capability:
 - Cyber Security and Secure Information Systems - securing highly sensitive, mission-critical national security networks
 - Software Development, Systems and Services - solving complex problems in mission-critical environments
 - Intelligence and Analytics - gathering and analyzing data from multiple sources to provide high-quality, actionable intelligence across multiple contexts.
 - We have established trusted, enduring relationships with all of our clients, with an average period of continuous performance of more than a decade.

- **Cyber Security and Secure Information Systems**

- The BiC-1 mission is to establish, develop and sustain secure, resilient, enterprise level information systems. Our practice delivers across the cybersecurity spectrum with secure network engineering, information assurance platform deployment and incident response.
- Our technical experts develop and integrate technologies to perform a range of essential tasks, from situational awareness and vulnerability assessments, to encryption and authentication, supporting the protection of enterprise networks critical to the national interest.
- We provide contextual technical analysis to enhance client understanding of the threats they face and remain technology-neutral to provide the right tools to meet mission objectives.
- Our work in this area includes:
 - Security Information & Event Management
 - Network Intrusion Detection & Protection
 - Identity & Access Management
 - Network Vulnerability Assessment





- **Information Security & Event Management**

- **What We Do:**

- BiC-1 provides customers with an integrated, holistic view of their organization's network activity, identifying and prioritizing how anomalous events are handled across the entire spectrum of users and devices. We apply methods and technologies that span enterprise level systems and applications, working to stringent national standards to ensure the security and integrity our customers' mission critical information. Our specialist capabilities in this area include:

- **How We Do It:**

- Creating and implementing comprehensive event management and response processes, including incident isolation and escalation
 - Performing information and assurance vulnerability assessments and implementing mitigation strategies
 - Designing system resilience based on the latest threat tracking and analysis, and addressing specific threat vulnerabilities with system upgrades and migration
 - Monitoring and assessing the “insider threat”
 - Providing comprehensive reporting on incident type, frequency and management, and system compliance
 - Supporting accreditation and compliance with national standards including FISMA and the NIST risk management framework.



- **Network Intrusion Detection & Network Protection**

- **What We Do:**

- BiC-1 assures customer missions in cyberspace. We design and implement systems that gather and analyze network data to identify internal and external cybersecurity breaches. Our experienced cybersecurity teams design and maintain robust security protocols, incident response and vulnerability management strategies, while integrating leading technologies with specialist support. Our specialist capabilities in this area include:

- **How We Do IT:**

- Creating integrated network defense sensor systems capable of monitoring large volumes of network events and delivering quality intelligence
- Designing and managing Network Intrusion Detection and Protection Systems
- Conducting detailed enterprise level security event investigation and analysis
- Evaluating and designing comprehensive operating procedures addressing the detection, reporting and remediation of cyber intrusions
- Integrating, operating and managing protection solutions that mitigate virus, denial and system attacks.
- Providing cyber intelligence and technical support, including incident monitoring, reporting and response.



- **Identity Management & Access Control**

- **What We Do:**

- BiC-1 operates to NIST standards as we enable sophisticated systems that provide continuous oversight with rigorous identity management controls. We further enable customers to establish and maintain clear authorization with proactive access control to their secure networks and confidential resources. Our solutions are designed to cover mission critical applications and increasingly demanding data access requirements. Our specialist capabilities in this area include:

- **How We Do It:**

- Designing and monitoring unique certificate-based IP security policies and protocols for multi-domain environments.
- Developing and testing new systems identity management solutions prior to deployment.
- Establishing key Enterprise Architecture control elements and integrating Domain Administration functionality across very large scale user communities.
- Validating secure network access requests based on stringent, role-based authorization criteria.



- **Security Risk Assessment**

- **What We Do:**

- BiC-1 identifies and addresses the full range of system characterization, threat and vulnerability identification to strengthen information security, business continuity and compliance. Working mainly in highly classified environments, we conduct rigorous operational testing and develop strategies to ensure that networks are continuously protected with the most effective technologies and processes. Our specialist capabilities in this area include:

- **How We Do It:**

- Conducting full spectrum vulnerability, preparedness and compliance assessments, including external penetration testing, threat detection and incident response, tailored to specific network configuration and operating standards.
 - Providing control analysis, likelihood determination, impact analysis, risk determination, control recommendation and results documentation.
 - Designing risk mitigation strategies that integrate leading technology solutions, including configuration management of new applications.
 - Developing requirements and specifications for major systems development, software and encryption improvements to address specific vulnerabilities.
 - Designing, developing and implementing network monitoring systems, standards and procedures to ensure continuous assessment and network improvements.

- **Software Development, Systems and Services**

- The BiC-1 mission is to create technology solutions tailored to our customers' mission. Our agile software development practices scale dynamically to system demands, ranging from iterative system builds to highly integrated enterprise platforms.
- Our systems and software engineering approach is highly adaptable to complex mission demands, from multi-stakeholder identity and credentialing to massive data transformation and reconciliation, and tightly integrated mobile applications processing geospatially-based information.
- We work to align and incorporate legacy enterprise systems, which are leveraged with our software methods and advanced technologies to deliver greatly enhanced functional value.
- Our work in this area includes:
 - Agile Software Development
 - Command & Control Systems Development
 - Complex Application Development
 - Decision Support Systems Integration





- **Agile Software Development**

- **What We Do:**

- BiC-1 delivers software development services on complex IT programs at multiple Government agencies. Our experts provide functional and flexible legacy sustainment, application modernization, and system development. Our specialist capabilities in this area include:

- **How We Do It:**

- Implementing customized software and systems solutions tailored to customer mission priorities
 - Developing and enhancing mission-critical applications within an Agile practice, working closely with end users to ensure continuous delivery against evolving mission requirements
 - Enhancing information-sharing and visualization capabilities across platforms, maintaining the highest levels of availability and reliability
 - Accommodating changing operational needs with rapid software prototypes and end user case driven software remedies
 - Executing planned upgrades to current systems and applications
 - Migrating systems from standalone/self-managed development/testing environments to shared Enterprise Development Environments



- **Command & Control Systems Development**

- **What We Do:**

- BiC-1 develops high quality, theater-tested C2 software and systems for the US military and the Intelligence Community. We deliver common operating pictures for decision makers to enable them to evaluate, plan, direct and coordinate resources. Our approach incorporates the full spectrum of network, communication and data platforms to meet all mission requirements. Our specialist capabilities in this area include:

- **How We Do It:**

- Designing complete systems, components and subsystem integration applicable to any operational environment.
- Delivering full program and project management, requirement analysis and definition.
- Providing a wide range of capabilities to support customer design and production processes, including critical design review, systems development testing, configuration management, rapid prototyping, simulation, and network design.



- **Complex Application Development**

- **What We Do:**

- BiC-1 implements both customized software and ERP solutions at the enterprise level to help integrate data drawn from disparate sources and automate highly complex business processes. We develop applications capable of addressing current demands and adapting to changing mission requirements as they evolve. Our solutions have been applied successfully across complex, worldwide operations serving thousands of end users. Our specialist capabilities in this area include:

- **How We Do It:**

- Performing requirement analysis and definition, application prototyping, testing and integration.
- Implementing enterprise-wide financial and compensation systems.
- Developing and applying functional and technical design specifications.
- Managing the seamless transition to new applications from legacy systems and supporting the modernization of enterprise-wide infrastructure.
- Designing mobile solutions to enable secure and efficient field operations in data collection and analysis
- Creating operational code and algorithms for complex modelling and simulation applications.



- **Decision Support Systems Integration**

- **What We Do:**

- BiC-1 develops software applications and systems that enable intelligent decision making in highly complex and changing circumstances. Combining raw data, structured models and analytical techniques, our solutions deliver high quality, actionable information adapted to customer decision making protocols. Our specialist capabilities in this area include:

- **How We Do It:**

- Implementing enterprise wide data warehouses using the latest in decision support technologies.
 - Designing efficient data extraction, transformation and load programs to consolidate data from disparate sources into an efficient data mart.
 - Creating effective data analytic models for accessing and presenting data to enterprise users.

- **Intelligence and Analytics**

- The BiC-1 mission is to provide our customers with high quality intelligence as the basis for critical decision making. We work to a unique, rigorous methodology that combines specialist analysts with leading technologies.
- Our experts gather data from multiple sources, analyze and fuse the data to provide clarity and situational context, and disseminate the resulting intelligence to a diverse range of stakeholders, supporting strategic and tactical decisions in the fields of diplomacy, homeland security, warfighting and intelligence.
- We employ a combination of large-scale processing and qualitative analysis to produce high quality intelligence products.
- Our work in this area includes:
 - Advanced Collection & Analysis Tools
 - Multi-INT Exploitation & Dissemination
 - Intelligence Analysis Training
 - Multi-Lingual Intelligence





- **Advanced Collection & Analysis Tools**

- **What We Do:**

- BiC-1 designs and implements leading-edge technology solutions that enhance the collection and analysis of high volumes of all-source data to deliver high quality, actionable intelligence to decision makers. Our specialist capabilities in this area include:

- **How We Do It:**

- Open source data monitoring, management and analysis.
 - Data modeling and simulation, including model development.
 - Systems evaluation and development.



- **Multi-INT Exploitation & Dissemination**

- **What We Do:**

- BiC-1 creates integrated solutions combining technology with strong analytic expertise to gather, filter, fuse and visualize data from a wide variety of signals and sources. Our specialist capabilities in this area include:

- **How We Do It:**

- Expertise in the principles and methods of exploiting foreign communications and communications systems
- Identifying, collecting, analyzing and disseminating reportable intelligence information
- Performing sustained target profiling and analysis



- **Intelligence Analysis Training**

- **What We Do:**

- BiC-1 provides comprehensive tradecraft training covering the full intelligence cycle. Our specialist capabilities in this area include:

- **How We Do It:**

- The provision of specialist training in data harvesting and analysis, social media analysis, analytic visualization, linguistics and cultural analysis.
 - Experts and practitioners to lead transformation efforts across Business Application networks



- **Multi-Lingual Intelligence Analysis**

- **What We Do:**

- BiC-1 provides intelligence collection and analysis across 46 different languages through highly specialized, cleared professionals, including intelligence analysts, linguist and cultural advisors with a deep understanding of the political, social, cultural and economic contexts at source. Our specialist capabilities in this area include:

- **How We Do It:**

- Providing linguist analysts for current and emerging requirements in specific target languages and language pairs across text and audio.
 - Meeting time-critical surge requirements to perform translation and other services across multiple languages and dialects.
 - Operating and developing Knowledge Management systems and databases for multi-agency use.

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