

5G

OVERVIEW OF BOOZ ALLEN CAPABILITIES

Fifth-generation mobile technology (5G) is more than just an emergent network technology. 5G is transforming machine-to-machine telecommunications, driving the convergence of cyber and physical, with its higher speeds, ultra-low latency and ability to connect even more endpoints. The 5G landscape is rapidly evolving with new technologies and vendors continuously emerging. Booz Allen has the mission expertise and ecosystem connections to impact DoD missions.

Booz Allen is helping Department of Defense (DoD) clients formulate and implement 5G-enabled infrastructure and applications that fit their missions while mitigating cybersecurity risk.

OUR APPROACH



DESIGN AND ARCHITECTURE

Through requirements gathering, Radio Frequency (RF) planning, and model-based systems engineering (MBSE), we identify client mission needs and develop comprehensive 5G solutions to meet mission requirements



INTEGRATION AND DEPLOYMENT

After finalizing the architecture we build, test, and deploy capabilities for our clients. We deploy in shipboard and pier side environments, leverage our subject matter experts to help clients navigate government engineering and approval processes (e.g. Navy Fleet Readiness Certification Board (FRCB) and Navy Modernization Process (NMP) and a carrier grade 5G lab facilities to streamline integration.



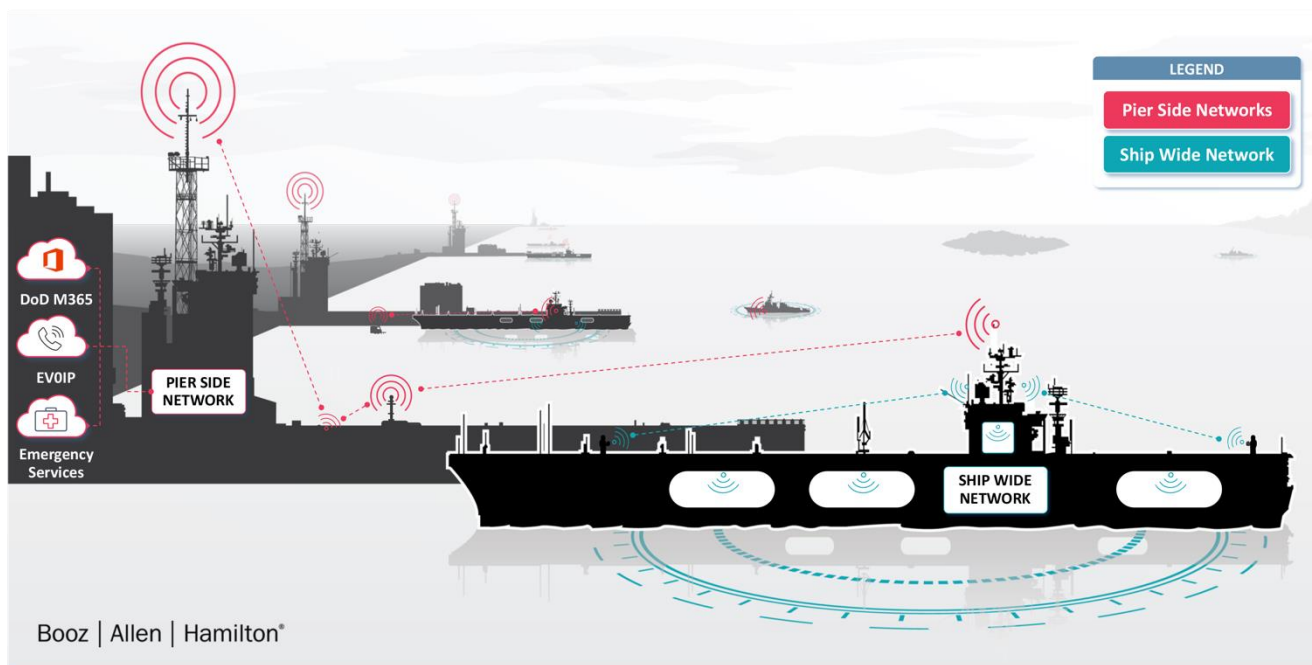
CYBERSECURITY ENGINEERING

We validate device configurations, conduct vulnerability assessments, and develop mitigation strategies for identified risks. We implement "security-by-design" implementing "zero trust" and continuous monitoring strategies to secure private 5G networks. Additionally, we leverage our offensive and defensive cybersecurity expertise to identify emerging 5G vulnerabilities, develop countermeasures, and deliver tailored intelligence analysis.



EMERGING TECHNOLOGIES RESEARCH

We invest in cutting edge research and prototyping to develop, integrate and test next generation applications and devices. From extended Reality (XR) to IoT sensors, we are at the cutting edge of experimentation with emerging 5G applications.



WHAT SETS US APART

A COMMERCIAL GRADE 5G LAB: Located in Annapolis Junction, Maryland, our carrier-grade 5G lab provides a testing environment advanced enough to develop and evolve today's cybersecurity defense systems in-house. Our 5G lab allows us to quickly integrate new products or solutions into the lab to meet enterprise needs. Because of the carrier-grade implementation, we can also support numerous projects simultaneously for our clients and partners. Our lab includes several advanced features, enabling the testing of cutting edge 5G functionality and new standards-based technologies. Among others, they include:

- 5G Standalone (SA) and Non-Standalone (NSA) 5G configurations, enabling the ability to the testing of 5G and backwards compatible 4G core features.
- Multi-access edge compute (MEC), providing the capability to host applications at the edge to improve performance and virtualized network functions to deploy advanced network technology
- Network slicing to provide segregated, guaranteed network resources for pre-configured application and user types.
- Radio Access Network capable of broadcasting at multiple bands, including mmWave (28 GHz) and mid-band (2.4 GHz and 3.5 GHz).

RF ENGINEERING LAB: Booz Allen owns and operates an RF systems laboratory able to support the development, integration, testing, and operation of HF, VHF/UHF/800 MHz land mobile radio, VHF and UHF air-to-ground, tactical combat net and data link radio systems including ANW2, commercial and military SATCOM, private LTE eNodeB and Evolved Packet Core, and a full suite of calibrated test equipment.

MULTI-DISCIPLINARY AND LEADING-EDGE EXPERTS: Our 5G team is comprised of industry-leading telecom experts, mission-focused Navy experts, and cybersecurity specialists with decades of experience defending DoD, International, and commercial client's most sensitive networks.

We combine our security, network, and applications expertise to plan, build, protect, and research 5G solutions to ensure they meet your organizations mission and business requirements.

ABOUT BOOZ ALLEN


For more than 100 years, military, government, and business leaders have turned to Booz Allen Hamilton to solve their most complex problems. As a consulting firm with experts in analytics, digital solutions, engineering, and cyber, we help organizations transform. We are a key partner on some of the most innovative programs for governments worldwide and trusted by their most sensitive agencies. We work shoulder to shoulder with clients, using a mission-first approach to choose the right strategy and technology to help them realize their vision.

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