



STS **SUMMIT**
TECHNICAL SOLUTIONS
INNOVATIVE. RESPONSIVE. COMMITTED.

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SYSTEMS ENGINEERING

CORPORATE HEADQUARTERS

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Systems Engineering

Summit Technical Solutions, LLC has a proven history of providing engineering support for the Army, Space Force, Navy, Air Force, and other government customers. Our customized approach ensures mission continuity and optimal resource utilization through a complete understanding of system demands. Our range of expertise spans the realm of technical capabilities including communications equipment connectivity, communications security, in-flight testing and analysis for ICBMs, radar systems availability engineering and helicopter engineering support. Through all phases of program development, STS supports mission-critical functions such as requirements engineering, integration, design, reliability, availability and maintainability.

Communications Systems Experience

At STS, we maintain a diverse platform of domestic and international communications systems. Our history of network engineering systems includes the DOD Information Network, the Defense Red Switch Network, as well as numerous IT systems. STS' communication systems expertise includes Command and Control Operations Center Communication Systems, the Global Command and Control System, the Digital Satellite System, the MILSTAR Satellite Communications System, and other Classified and Unclassified Networks. Our expansive platform experience enables STS to remain flexible and effective with responsive systems engineering solutions, making us the first choice in communications systems engineering.

Systems Test and Evaluation

STS provides system testing and software analysis for leading-edge systems. STS engineers have helped to generate Minuteman Operational Targeting Program trajectories and provide target case inputs while deriving maximum range capability and trajectories. Our Modeling and Simulation experience allows us to design and refine trajectories used to develop engineering estimates of accuracy over a representative spectrum of flight test and operational missions. STS' experience also extends to testing and evaluation of software programs related to the Minuteman III to ensure the continued lethality and effectiveness of the legacy system. Additionally, STS has experience maintaining on-site support and evaluation of test launches for the Minuteman weapon system.

Cyberspace

In an evolving cyber world where enemies attack mission essential communications networks 24/7/365, our team provides top-tier protection and expertise in defense, intelligence, critical infrastructure, and international domains. STS provides critical aspects of developing systems and solutions that are revamping the entire cyberspace continuum of defense, exploitation, and attack. Our expertise includes operational, technical and security engineering, and we are deeply rooted in proactively defending against cyber threats. Our contracts include cybersecurity for major platforms like communication, satellites and ground stations to information technology systems and advanced electronics. STS Technical Experts bring the knowledge and experience to offer customers affordable solutions for their diverse and ever-changing systems engineering needs. **Working with STS means innovative solutions, responsive services and committed performance.**

Case Study: Satellite Communications (SATCOM) Engineering
Client: US Army Space and Missile Defense Command/Army Forces Strategic Command / G6 / SATCOM Directorate/ Wideband Division
Project: STS was responsible for improving systems efficiencies and creating new methods to ensure the greatest effectiveness of system utilization for our customers. This included supporting Wideband Consolidated SATCOM in terminal certification and accreditation as well as providing maintenance and sustainment assessments, studies, analyses support operations and technical support. Additionally, we provided engineering-based support for system modifications, changes, and updates to the Wideband SATCOM Operational Management System (WSOMS) including maintenance of off-line and on-line modem and terminal static databases which included interpreting terminal and modem performance, characteristics and functionality to build planning models within WSOMS. We used this knowledge and understanding of satellite and terminal RF characteristics to conduct detailed analyses and long-term trending of satellite, modem and terminal resources leading to generation of an engineering-based assessment for each terminal. Additionally, we developed and delivered a performance certification report to determine systems compliance with required documents.

Client Results: Among the improvements STS developed, was a new methodology for utilizing the Common Network Planning Software (CNPS) for warfighters. We were able to confirm a new approach for CNPS 7.0 processes to update all modem statics. This approach not only provided a substantial upgrade for the system, but also had minimal impact upon end-users, and minimal re-planning of missions for Regional Satellite Support Centers (RSSC). This saved the client hundreds of work hours, ultimately increasing customer work efficiencies while reducing costs for our customer.





MAKING THE IMPOSSIBLE

———— YESTERDAY'S PROBLEM ————

Our team of experts keep state-of-the-art systems running efficiently - making the impossible a thing of the past.



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