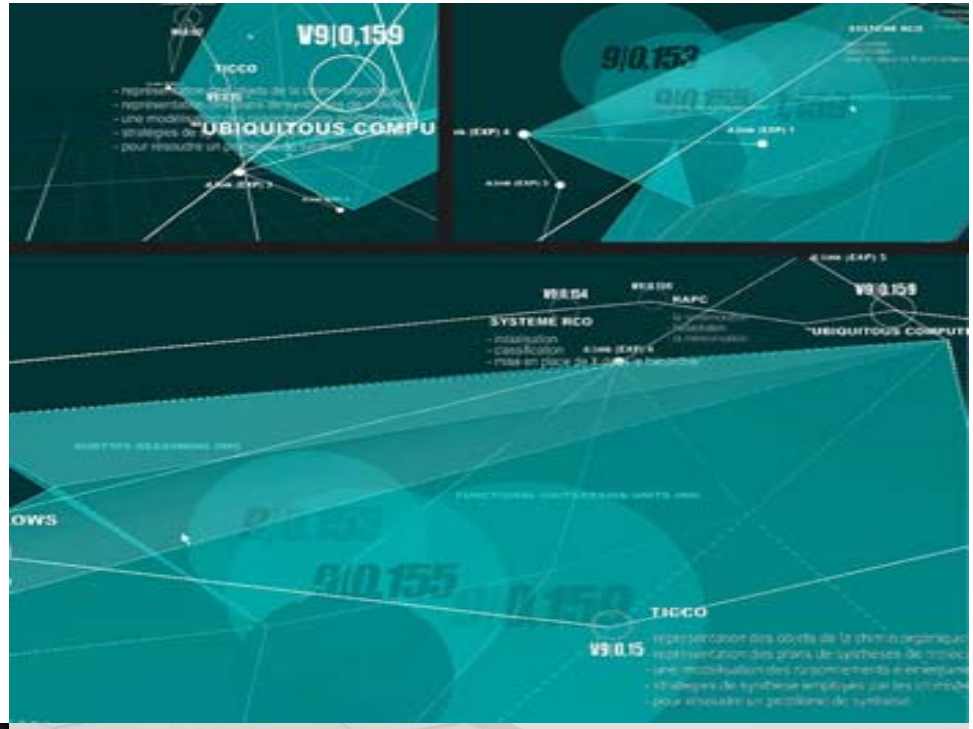
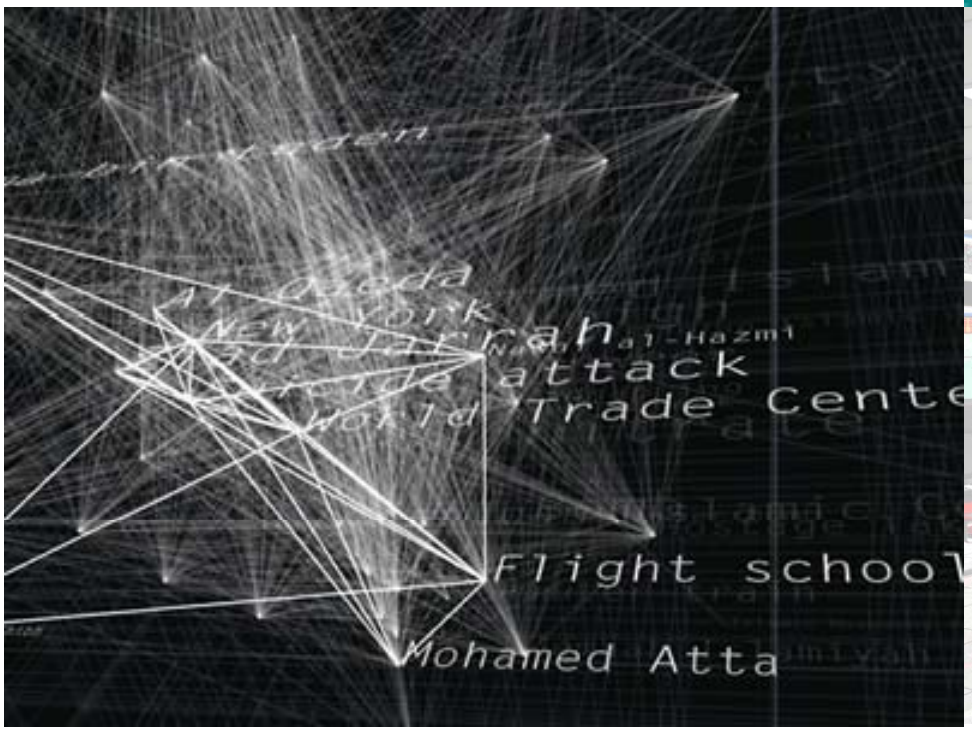
DasNet CORPORATION

ENGINEERING BEYOND IMAGINATION





Erv Robinson
Director, Business Development
DasNet Corporation
20 Orville Drive
Bohemia, NY 11716
Email: erv.robinson@dasnetcorp.com
Tel: 631.792.1755

Capability Compendium

www.dasnetcorp.com

Company Overview

- **Founded:** 1997
- **Facility Certification:** Top Secret
- **Certifications:** Licensed PEs, CCIEs, PMPs, BICSI, RCDDs, CTS, Avaya, Cisco, Aruba, Tandberg, Polycom, Jupiter, Extron, AMX, Crestron, Spyder Satellite, Microwave, Wireless, Fiber, Copper, DWDM, Switching, & AV Programming
- **ITAR:** Registered Approved Off-Shore Procurement
- **Accounting System:** DCMA Reviewed Accounting System & Contractor Purchasing System
- **Service Offerings:** Professional Engineering Services, Telecommunication & Systems Integration

DasNet Corporation is an international systems engineering firm that develops advance communication solutions through research, analysis, and engineering.

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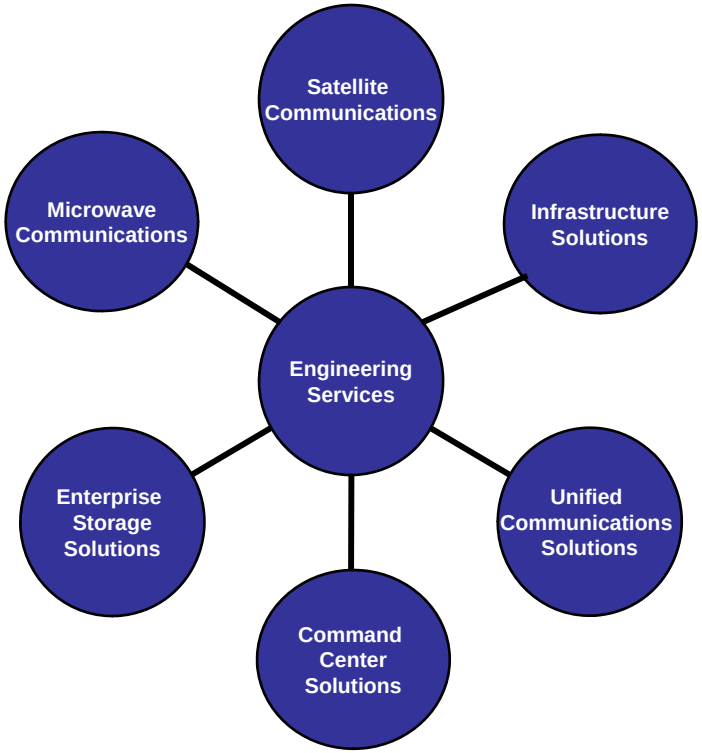
Professional Offerings

- Turn Key Services
- Cleared Experienced Staff Members
- Certified Trained Specialists
- Professional Engineers/Technicians



- Program Management
- Installation & Integration
- Testing & Commissioning
- Operation & Maintenance

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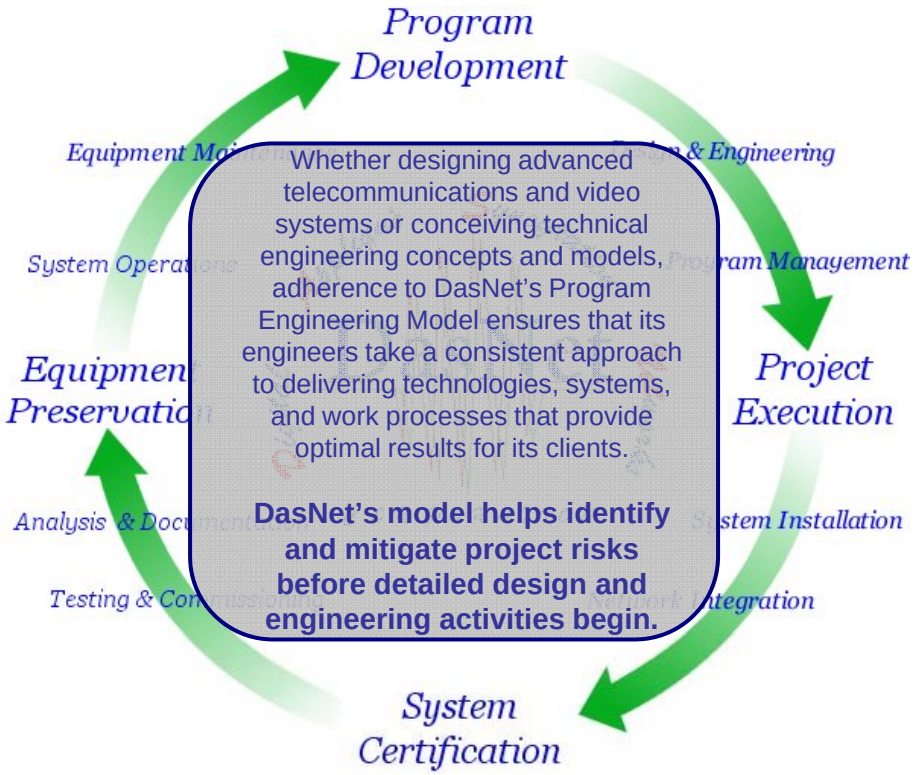
Program Engineering Model

Engineering Services

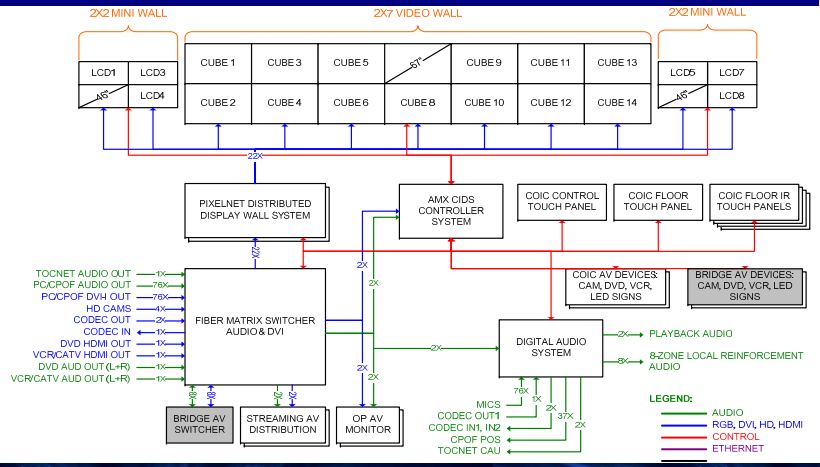
Design and Engineering Services

- Abstract or Concept Studies and Analysis
- Strategic and Preliminary Planning
- Requirements Definition and Analysis
- Evaluation of Alternative Technical Approaches
- Modeling and Simulation
- Enterprise Architecture Design
- Cost/Cost-Performance Trade-Off Analysis
- Feasibility Analysis
- Regulatory Compliance Support
- System Engineering
- Acceptance Testing
- Independent Verification and Validation
- Information Assurance Certification and Accreditation



Accreditation History
Command Center
PEO EIS

Command Center Solutions



Location: UNDISCLOSED – Southeast Asia Command Center

Objective: The objective of this Command Center Systems (CCS) upgrade for an active facility was to provide a fully functional, modernized CCS efficiently, effectively, and economically in support of the Army's mission requirements during exercises, armistice, and war to include audio/video quality upgrade, increased life expectancy, logistically supportable, and capable of streaming clear, legible live audio and video via IP for remote User access.

Success: DasNet performed an exhaustive turn-key effort including design, engineering, equipment procurement, installation, integration and testing and commissioning for all subsystems and networks.

- **A new Control Room** was provisioned with an integrated Operator Console embedded with an AV Touch Panel, monitor, keyboard and mouse, DSN, Audio/Video, PoE Network Access to RIPR/SIPR/NIPR, Intercom, Microphone and RED/BLACK power.
- The new CCS Controller System was designed to allow Five (5) Sub-Zone Operators to be able to operate and manage independent sections of a 2x7 67" HD Data Wall and each of the 2x2 46" HD Data Wall Wings to post any video source.
- The ability to conduct classified and unclassified VTC sessions included a requirement to transition to an High Definition (HD) capable system.
- The audio system consisted of replacing the current amplifiers and speaker system with a more robust modern acoustic sound system to provide a more crisp superior sound even at a lower output volume.
- Red/Black Power & Grounding systems were incorporated.

Accreditation History
Conference Center
USAF

Conference Room Solutions

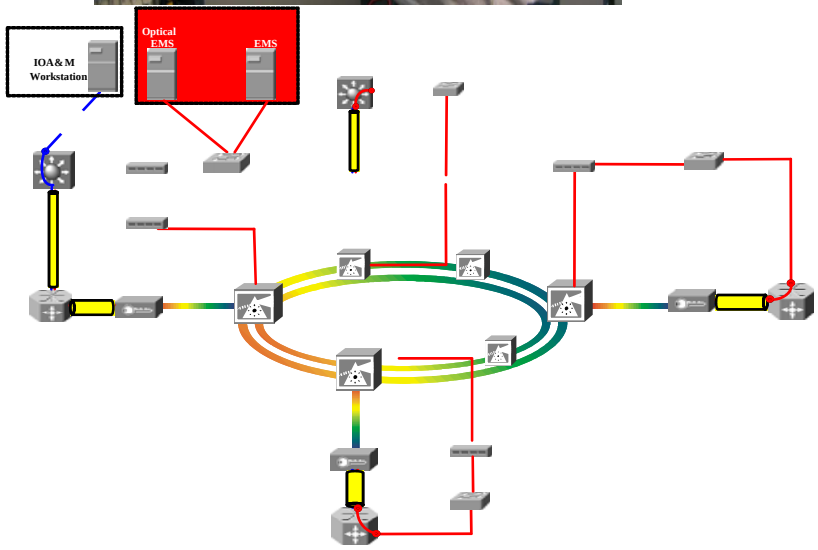
Project: UNDISCLOSED LOCATION – Integrated Command Center Battle Cab Conference Center

Through use of a concerted engineering process, DasNet performed the design, renovation, engineering and installation of an integrated battle ready Conference Center for Staff Officers. DasNet additionally performed upgrades for the Air Support Operations Center (ASOC), the Division Tactical Operations Center (DTOC), and the division Topographic (TOPO) team in the Command Bunker.

The work effort included inclusion of all aspects of a Command Center System (CCS) – Command Information Display Systems (CIDS), Audio, Video Teleconferencing (VTC) and Infrastructure.

A 4x5 50” Data Wall controlled by a Jupiter controller, integrated with customized programming for processing and pushing voice, data, and video from any position at a one-of-a kind 20 person “secure wired integrated” command conference table. The podium with built-in Sympodium and Touch Panel, room lighting and sound proofing, and wiring for the new high capacity networks surpassed IA requirements and enhanced security regulations. The thin client solution allowed immediate use of common situational awareness tools, and provides the commander an ability to conduct collaborative planning from his conference room.

Accreditation History
Infrastructure
I3MP



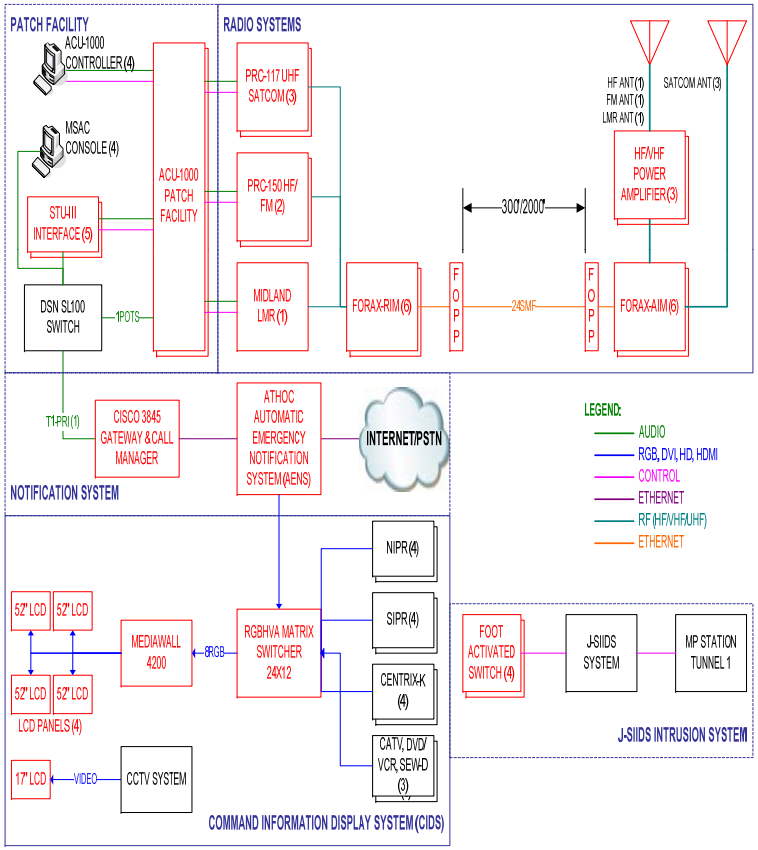
Location: Kwajalein is located in the Republic of the Marshall Islands, a former U.S. Trust Territory, and is home to the Ronald Reagan Ballistic Missile Defense Test Site under the command of the U.S. Army Kwajalein Atoll.

Objective: The US Army Installation Information Infrastructure Modernization Program (I3MP) needed a provider that would engineer, furnish, install, secure, and test (EFIS&T), document, migrate and cutover a turnkey solution to upgrade the existing optical transport and mission critical data networks. There are six (6) island locations in the atoll, circling a 1000 square mile lagoon connected by an underwater optical cable. Instead of laying new cable, the USA Army requested implementation of state-of-art Dense Wave Division Multiplexing (DWDM) equipment to vastly increase the traffic (voice/data) carrying capabilities of the underwater optic cable presently in place. Client of this system include the Missile Defense Agency, U.S. Army Space and Missile Command and Army Corps of Engineers.

Success: DasNet's goal was to provide increased but secure communications capacity and capability for USAKA. As a minimum threshold, the fielded system had to provide reliability levels that were consistent with USAKA's mission with an objective threshold of 99.99999%. The integration of solutions, technologies, products and supportability were consistent with meeting the stated objective as demonstrated via System Acceptance Testing and Information Assurance Verification-and-Validation.

Accreditation History
Unified Communications SBIR

Unified Communications Solutions



Project: Scalable, Self-Organizing, Self-Healing Distributed Database in a Mobile Ad Hoc Mesh Network (MANET)

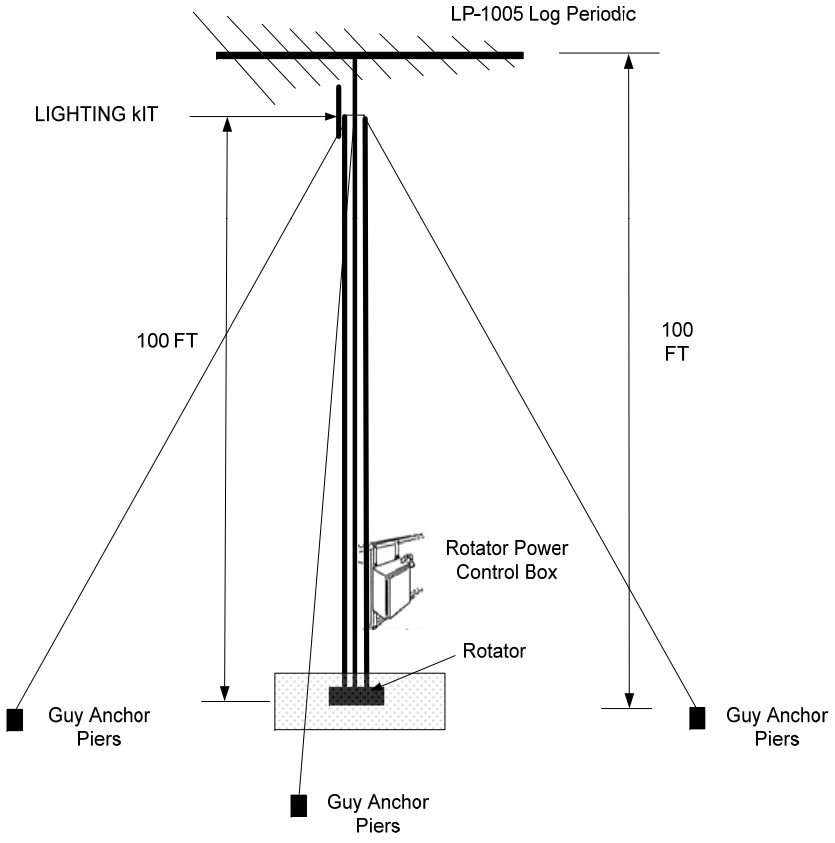
DasNet was one of two companies selected to perform Phase I of a three-phase R&D effort for the development of a tactical, self-organizing, self-healing, low-bandwidth Mobile Ad Hoc Mesh Network (MANET) that could support a distributed database. The MANET supported fixed, control bandwidth overhead for the routing protocol regardless of network size and was available for both low and high bandwidth links including mobile nodes and fixed wireless links. Phase II was the development of a prototype of the self-organizing database, while Phase III was the deployment of the prototype in a low-bandwidth wireless network to test the self-organizing database in a typical environment.

DasNet's team led by Dr. Samir R. Das, Ph.D., Associate Professor, Computer Science Department, and Director, Systems Infrastructure Division, Center for Excellence in Wireless and Information Technology (CEWIT), Stony Brook University, NY developed an approach to meet the Navy's requirement to adopt a "peer-to-peer" (P2P) framework.

In a battlefield, soldiers and army vehicles collect data that contribute to situational awareness (e.g., location tagged images) that must be shared by all soldiers and vehicle units involved. The DOD has several unique mission requirements that separate into diverse support services (Army, Marine, Navy, Air Force) that interchange and promulgate data that is classified and unclassified relevant to the missions. The MANET concept with the built in flexible network design would help in disseminating data access to the correct customers and afford a broader range of capabilities.

Accreditation History
Satellite
PM DWTS

Satellite Communication Solutions



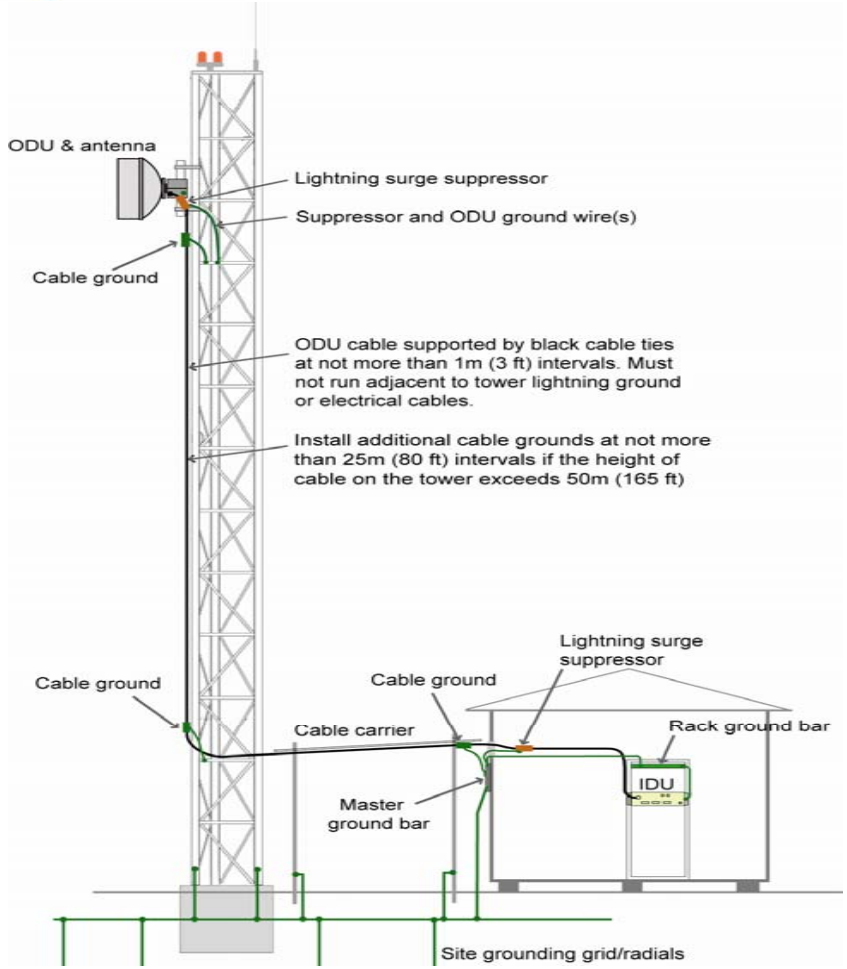
Project: UNDISCLOSED LOCATION – Emergency Operations Center Communications Engineering Technology Refresh

Objective: Perform a communications technology refresh that includes replacing all C, KU, HF, and VHF satellite antennas and ancillary RF systems and integrate into a secure communications architecture capable of meeting classified requirements, interoperability, scalability, and accreditation.

A critical success factor for developing successful satellite systems is to ensure thorough coordination with the Client's Program Manager, affiliated customers involved, and support organizations. Our engineering processes consider the real-world operational mission of the military forces worldwide making the best use of time, avoiding conflicting, redundant or duplicative efforts. We consider scheduled exercises or other related projects in the overseas theatres and make schedule adjustments ensuring completion dates on schedule. We are aware that an overseas theater provides a challenge in coordinating the task with personnel in CONUS. We recognize the challenges and included them in the resulting work processes. Key activities include site surveys, system designs, material procurement and shipment, in-theater support and coordination, equipment installations and system testing and commissioning. This must be conducted successfully in order to ensure that on-going maintenance and operational support services required are minimal.

Accreditation History
Microwave
DTRA

Microwave Communication Solutions



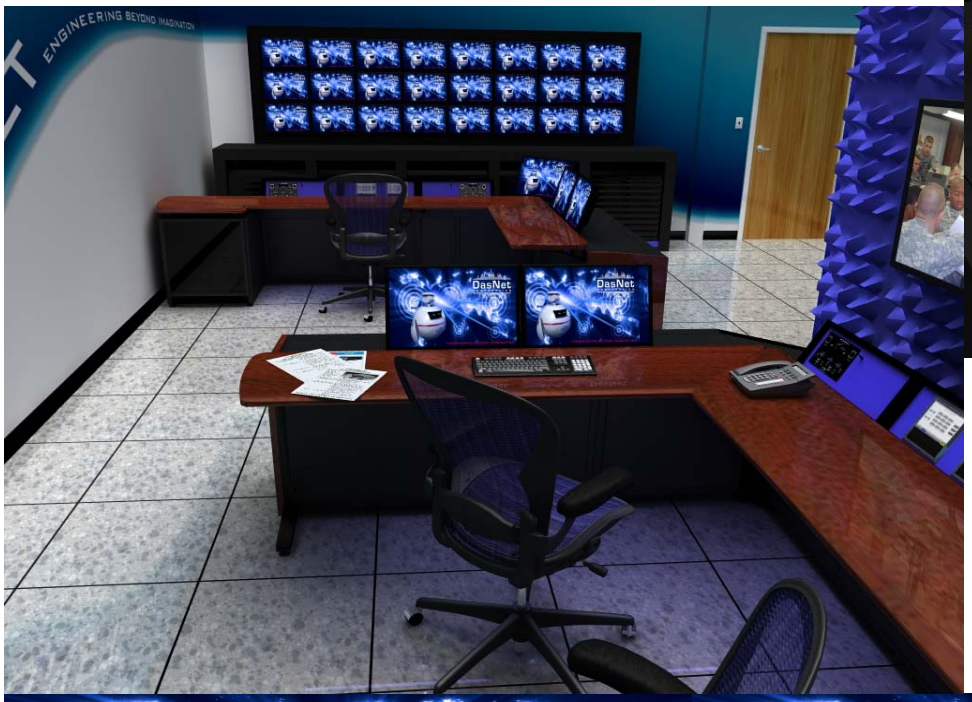
Project: UNDISCLOSED LOCATION - Wireless Unconventional Nuclear Warfare Defense Network Proof of Concept for the Defense Threat Reduction Agency (DTRA)

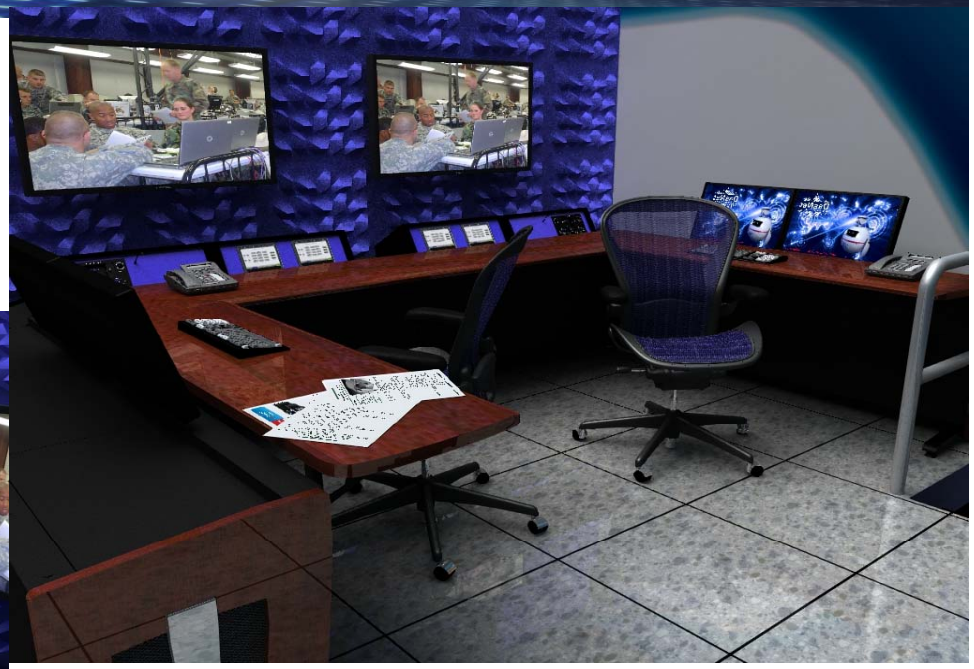
Objective: DTRA's proof of concept project was held as a test bed to evaluate the efficiency of utilizing a hybrid of wired and wireless TCP/IP networks as the sole infrastructure to support nuclear weapon sensors, remote data networks, and video surveillance systems at various locations in natural settings in wooded and coastal terrains. The agency wanted to be able to establish an early warning system around sensitive locations. In the event a foreign entity attempted to use a nuclear device to impact one of these locations, this warning system would provide ample warning in-order for emergency personnel to take defensive actions at the federal, state, and local levels.

Success: In providing our solution, DasNet offered a turn-key network solution including design, engineering, equipment procurement, installation, integration and testing and commissioning. DasNet completed its phase of this project within the prescribed scheduled period and under budget. The commissioning of the completed system was reviewed by the Deputy Under Secretary of Defense and was considered a high success by DTRA. DTRA awarded a support sustainment contract to ensure continued operations of this network which is currently being used by Sandia Labs and other research agencies for the continuing study of detecting nuclear and biologically sensitive contaminants by hostile agents.

DasNet Laboratory

- **Integration & Testing:**
  - **Audio Visual Equipment**
  - **Data Wall & Switch Matrices**
  - **Multiplexers & Wireless Equipment**
  - **IT & Data Storage Solutions**





- **Program & Designs:**
  - **Command Center Architectures**
  - **Touch Panel Designing**
  - **Multiplexers – DWDM & ATM Topologies**
  - **IT & PBX Switches & Routers**

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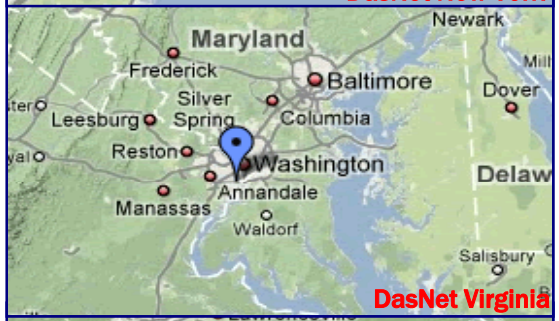

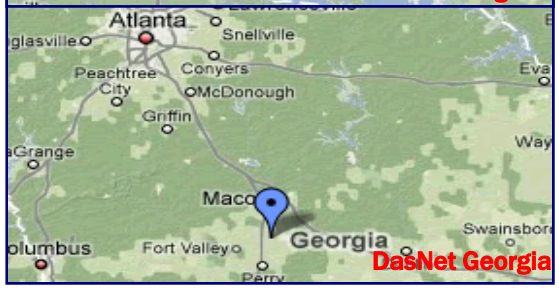

DasNet Headquarters - Long Island, NY
20 Orville Drive, Bohemia, NY 11716
Email: info@dasnetcorp.com
Main: +1 (631) 348-3535
Fax: +1 (631) 348-3555
www.dasnetcorp.com

Mr. Erv Robinson
erv.robinson@dasnetcorp.com

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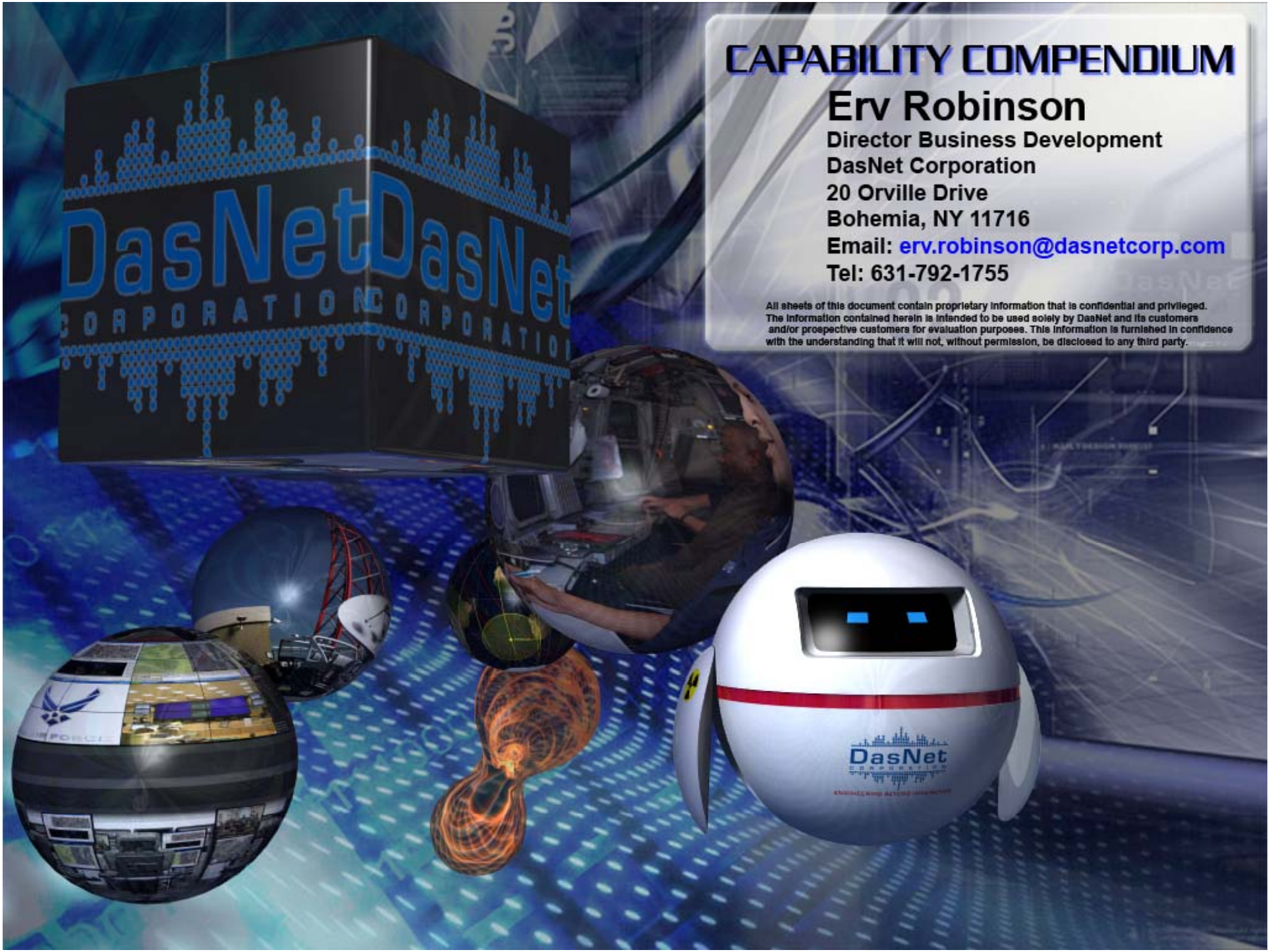

CAPABILITY COMPENDIUM

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Bohemia, NY 11716
Email: erv.robinson@dasnetcorp.com
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