DasNet Corporation

A Minority & Veteran Owned Business Enterprise

DasNet
CORPORATION

ENGINEERING BEYOND IMAGINATION

Capabilities Presentation

DasNet Corporation

December 2017

DasNet Corporation

DasNet Corporation is a New York based international systems engineering firm providing complex Data, IT, Audio Video & Telecom solutions to governments.

EXECUTIVE TEAM

- VP, Strategic Planning: E. Robinson
- General Counsel: Lita Kaufman
- Controller: Matthew Schwartz
- Chief Technical Officer: Ronnel Lorenzo

Attributes

- New York based Operations
- Two (2) decades as a federal contractor
- Federal, State, & Local IT Equipment Supplier
- Extensive IT, AV & Telecom Experience

MARKET SEGMENT

- Systems Design & Engineering
- Telecommunications Infrastructure
- AV Design & Integration

HEADQUARTERS

Long Island, New York

LOCATIONS

- **United States**
  - Warner Robins, GA
  - TX, NM, CA, WA, VA, MD, DC, AL, FL

- **Far East**
  - Daegu, South Korea
  - Okinawa, Japan

- **Middle East**
  - * Riyadh, Saudi Arabia
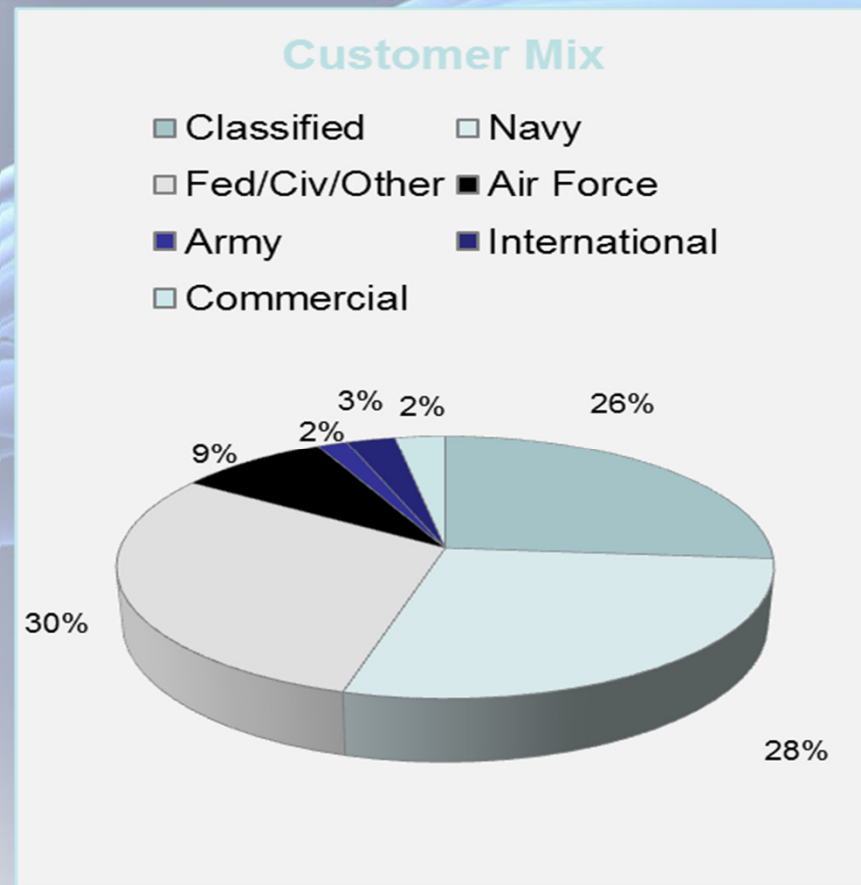 - * Kabul, Afghanistan

Corporate Overview

DasNet Corporation (DasNet) was founded in 1997 in Queens, New York as a Veteran Owned Small Business specializing in providing systems engineering and telecommunication solutions and products with specific emphasis on RF Engineering for Satellite and Microwave systems.

Systems Design, Engineering, Integration, and Operations are at DasNet's core. They are what constitute its business model; it is frankly what it does each and every day and has done for the past two (2) decades. During this period, DasNet has developed a global footprint through its headquarters in New York and various CONUS offices, as well as, international offices in Southwest Asia - Saudi Arabia, Afghanistan, and Dubai; and Far East Asia - Japan and Korea.

DasNet delivers disciplined and structured engineering solutions in collaboration with its Military and Government clients. Through the use of commercial best practices, in accordance with governmental standards, DasNet's engineered solutions are inclusive of analysis, assessment, development, testing, evaluation, validation and support of the delivered solutions - whether the design is a new ground-up project or the redesign of an existing infrastructure, we deliver long-term solutions and complete integrations required by clients whom are predominately represented by the US Government.

Serving the Federal, State, Local, Education, Defense, Intelligence, and Federal communities:

- **Defense: U.S. Navy, U.S. Air Force, U.S. Army, U.S. Marines**

- **NASA: Space Agency, Space Explorers, Range Communications**

- **Federal: Countless agencies across the nation**

- **Intelligence Community: Restricted**

Customer Mix

- Classified
- Navy
- Fed/Civ/Other
- Air Force
- Army
- International
- Commercial

3% 2% 2% 26% 9% 30% 28%

DasNet Corporation Operations

Dedicated Resources and Expertise

Our Qualifications

- Industry certified engineers and program managers with extensive IT services experience

- Security-cleared engineers, technicians and program managers

- Technology Partner – JITC, DISA, APL, NSA

- DCAA, DCMA Audited Financial System & Procurement Program

- Successful graduate of SBA 8a program -26 Federal Plaza, NYC.

- International operations with headquarters in New York State on Long Island.

Strength in Experienced Employees

Certified Professionals

Security-cleared engineers, analysts and program managers

Vendor Certifications

- Cisco
- Microsoft
- Polycom
- AMX
- Crestron
- HP
- Brocade
- Avaya
- Aruba
- Juniper Networks
- VMWare
- Riverbed

Skill Certifications

- PMP
- RCCD
- ITIL
- CMMI
- CCIE
- CISSP
- CCNP
- MCSE
- IASO
- CompTIA
- CNE

<100 international employees across United States and abroad supporting US and foreign governments.

US and offshore staff, including staff with secret or higher clearances.

NYS based operations for engineering and program management.

"DasNet is a TIPS Awarded Vendor"

"DasNet's MWBE Certificate number is: MWCERT2016-53"

Advanced
Information Systems

Information
Technology

Advanced
Information Systems

C4 Systems

Communication
Systems

DasNet Engineering & Program Offerings

Systems Design & Engineering

Advanced Information Systems: A provider of end-to-end intelligence, surveillance and reconnaissance solutions across all domains, supported by an open architecture and business model. Through multi-INT collection, analysis, exploitation and integration, we ensure our customers have the right information when they need it to act with confidence in their high stakes missions.

C4 Systems: A leading integrator of secure communications, information systems and technology, C4 Systems specializes in command and control, communications, networking, space systems, computing and information assurance for defense, government and select commercial customers in the United States and abroad.

Information Technology: Serving customers in the defense, intelligence, homeland security, civilian government and commercial sectors, Information Technology manages large-scale, mission-critical IT programs. The company delivers advanced network-systems integration, IT services, enterprise solutions, systems engineering, simulation and training, wireless and professional services.

Communications Systems: As a prime contractor and complex systems integrator, DasNet delivers command, control, communications, computers and intelligence systems. The company possesses the technical leadership, engineering expertise and contract management skills to deliver future network-enabled battle space capabilities.
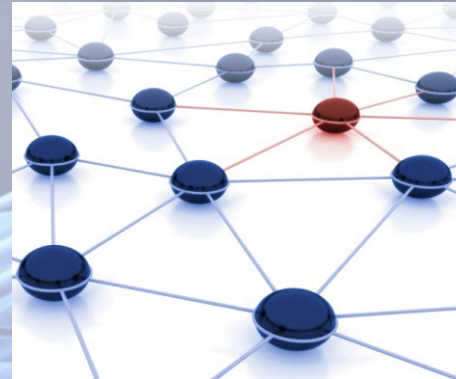
Advanced
Information Systems

Information
Technology

Audio Visual Systems

C4 Systems

Communication
Systems

Advanced Information Systems

Advanced Information Systems

Capabilities

- Commercial incident response & forensics
- Agile development & automated integration
- Cyber operations & monitoring
- Reverse engineering and analysis
- Indications & warning systems

Solutions & Products

- CyberSecurity
- Data Center Design & Engineering
- Information Assurance
- Wireless Intrusion Detection Systems (WIDS)
- IT, AV, Storage, Communication Products
- Value Added Reseller (VAR)

Cyber Challenges & Real-Time Threat Management

- **Delivering the Right Information to the Right People in Real Time**
- **Minimizing Information Flood and Focusing on Actions**
- **Improve Resource Utilization**

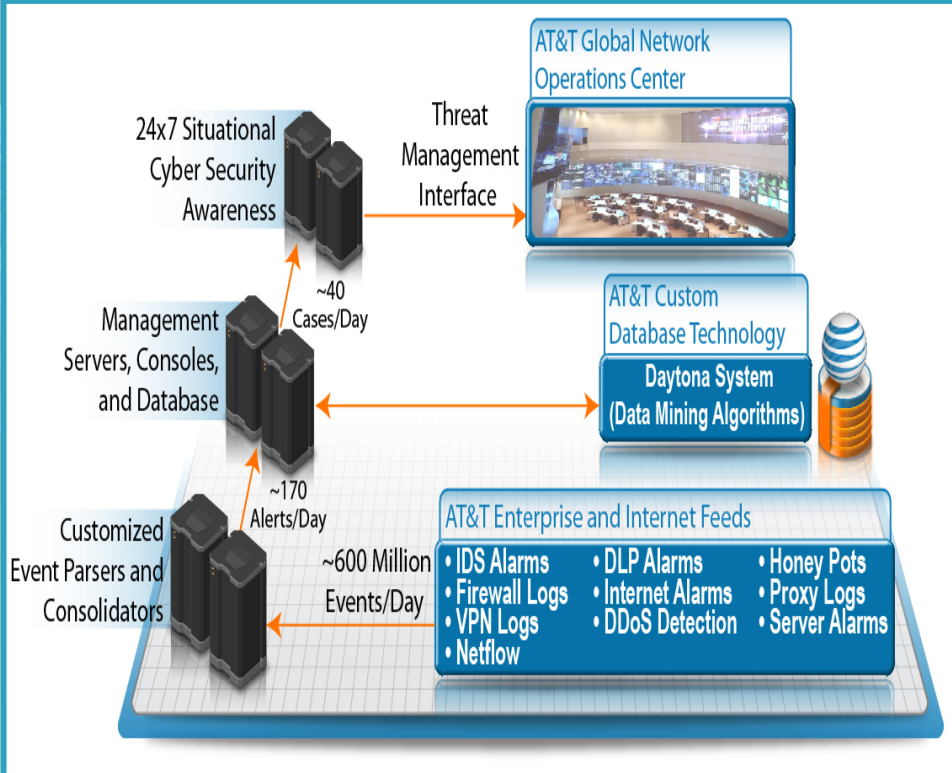**Global Scope and Scale Delivers a Global View of Traffic**

Data Mining (Daytona)

Deep Packet Inspection (Intrepid)

Massive DDoS Shared Across Scrubbing Facilities

Advanced Persistent Threat (APT) Analysis and Research

1,500 Security Professionals

Security Policy Requirements

AT&T Global Network Operations Center

24x7 Situational Cyber Security Awareness

Threat Management Interface

~40 Cases/Day

Management Servers, Consoles, and Database

AT&T Custom Database Technology

Daytona System (Data Mining Algorithms)

~170 Alerts/Day

Customized Event Parsers and Consolidators

~600 Million Events/Day

AT&T Enterprise and Internet Feeds
- IDS Alarms
- Firewall Logs
- VPN Logs
- Netflow
- DLP Alarms
- Internet Alarms
- DDoS Detection
- Honey Pots
- Proxy Logs
- Server Alarms

Real Time Threat Management Construct Delivering 24/7/365 Situational Awareness

**Large Partner Network – Including AT&T
Distilling ~600 Million Daily Cyber Security Events to ~40 Cases**

Transforming Industry with the Internet of Things/Machine to Machine Communications

Medical	Air Cargo	Energy	Transportation & Logistics	Heavy Equipment	Industrial Manufacturers

PHILIPS

AT&T Cargo View with FlightSafe

EMERSON

Health	Asset Monitoring		Land & Sea	'DGnet Watchdog'	

Internet of Things (IOT) / Machine to Machine (M2M)
DasNet's Solution – DGnet Watchdog

By 2020, the Number of Connected Devices Will Be 7 Times Greater than the World's Population

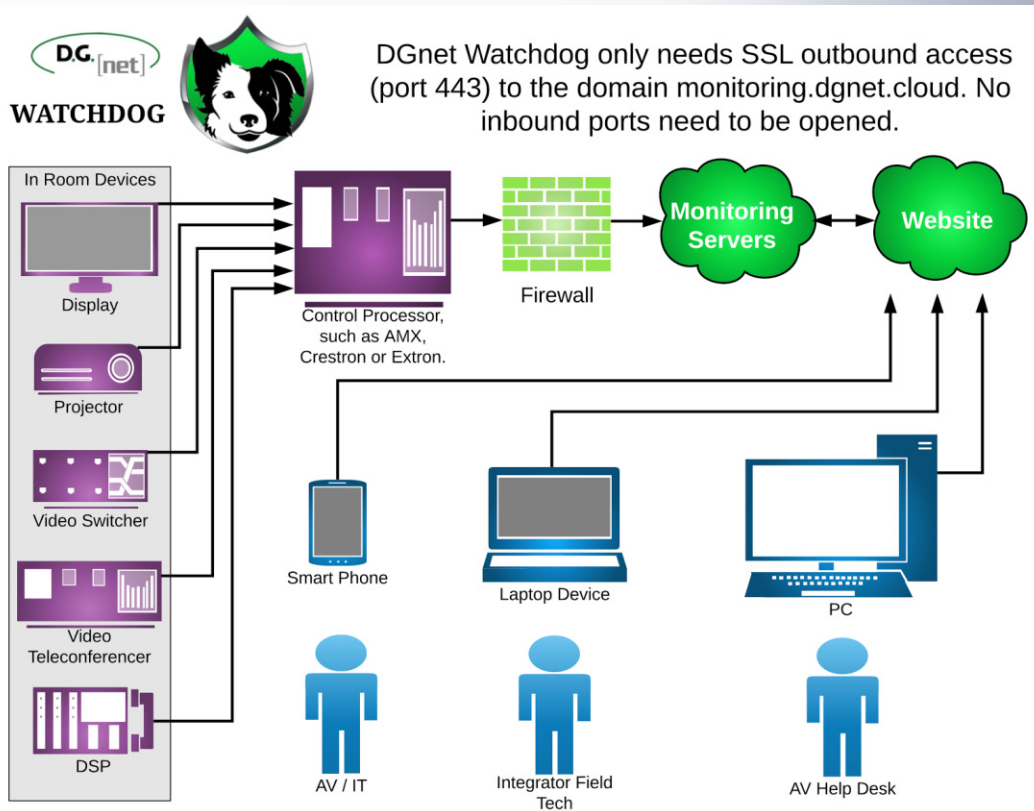| **$30B**	**$66B**	**$63B**	**$90B**	**$27B**
fuel cost saving in aviation industry	fuel cost saving in gas powered fleets	productivity improvement in healthcare	reduction in Cap X in oil & gas exploration and development	productivity improvement in rail industry

DGnet Watchdog
SOLUTION TO Internet of Things (IoT)

DGnet Watchdog only needs SSL outbound access (port 443) to the domain monitoring.dgnet.cloud. No inbound ports need to be opened.

DGnet Watchdog consists of a cloud-based database with a browser interface and mechanisms for rules-based notifications like email.

Anything which accesses that database using the established API can log values for later use in notifications or analytics.

Devices which can deliver information to DGnet Watchdog exist as either a module within the control system program or as an edge device for more specialized applications.

The delivery happens through a secure, outbound-initiated communication via the public cloud.

Need More Information: Review DasNet Technical White Paper on DGnet Watchdog

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Audio Visual Systems

C4 Systems
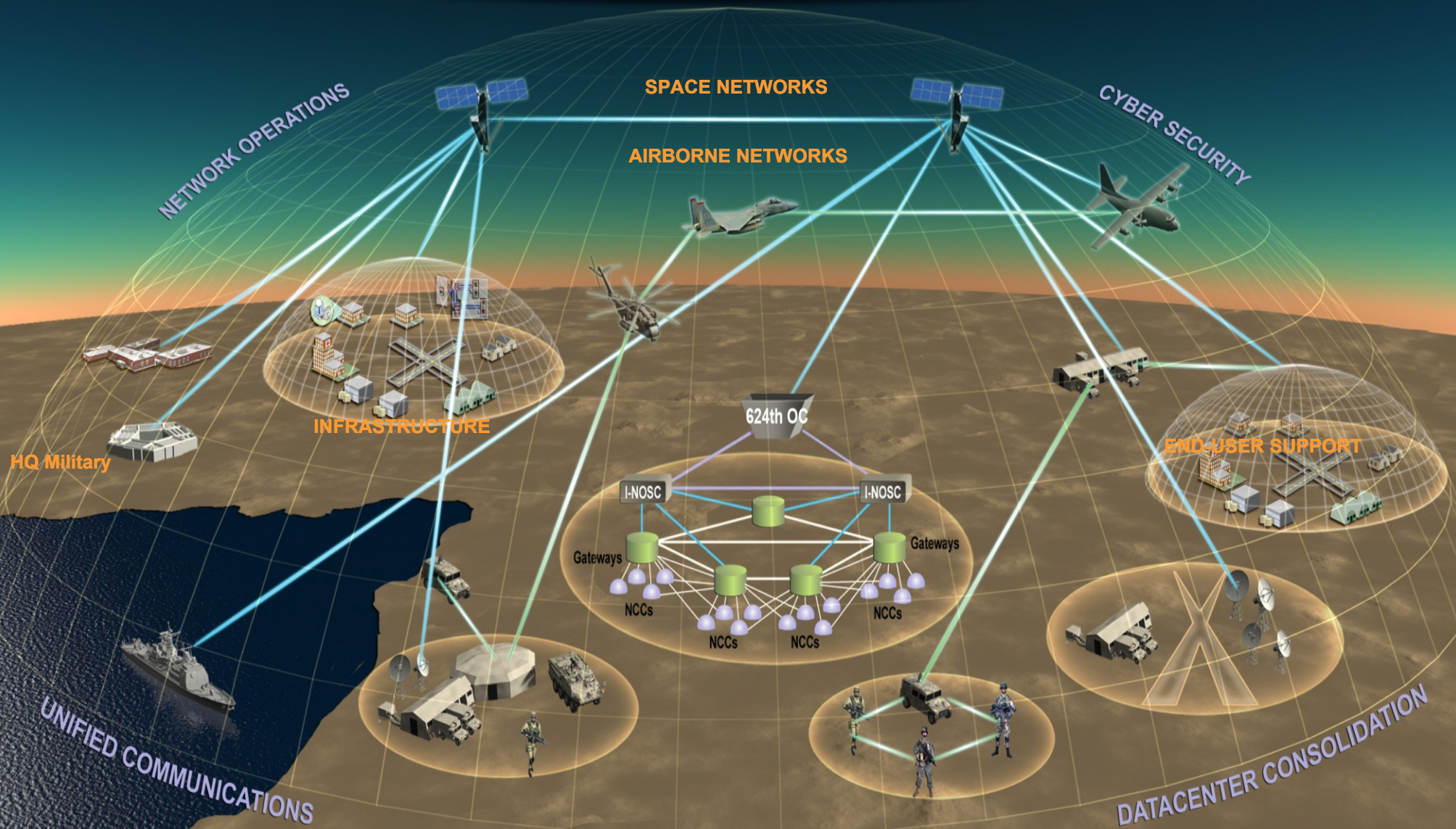
Communication
Systems

C4 Systems

C4 Systems

Capabilities

- Mission Systems Engineering and Integration
- High Assurance & Mission Critical software & hardware
- High Performance Computing
- Network Operations Center
- Mission Planning and Management Systems
- Training and Simulation Systems

Key Solutions and Programs

- Advanced Mission Computers
- Data Storage Systems
- Littoral Combat Ship (LCS) Independence variant
- SSBN / SSGN Weapon System
- Submarine Weapon Control System (WCS) & Tactical Control System (TCS)
- Surface Electronic Warfare Improvement Program (SEWIP)

Supporting the Enterprise

Engineering Beyond Imagination

Mobility: Increase control, expand coverage and capacity, improve efficiency and boost productivity for mission success

Advanced Information Systems

Information Technology

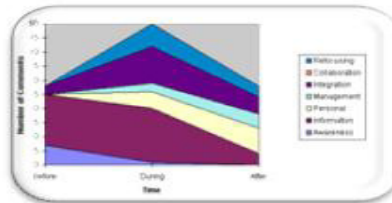Audio Visual Systems

C4 Systems

Communication Systems

DasNet Engineering & Program Offerings

Information Technology

Extensive Training Expertise

Multi-Dimensional Training

IP Version Agnostic Foundation Training

The DasNet Team Provides Comprehensive Training by Industry Experts
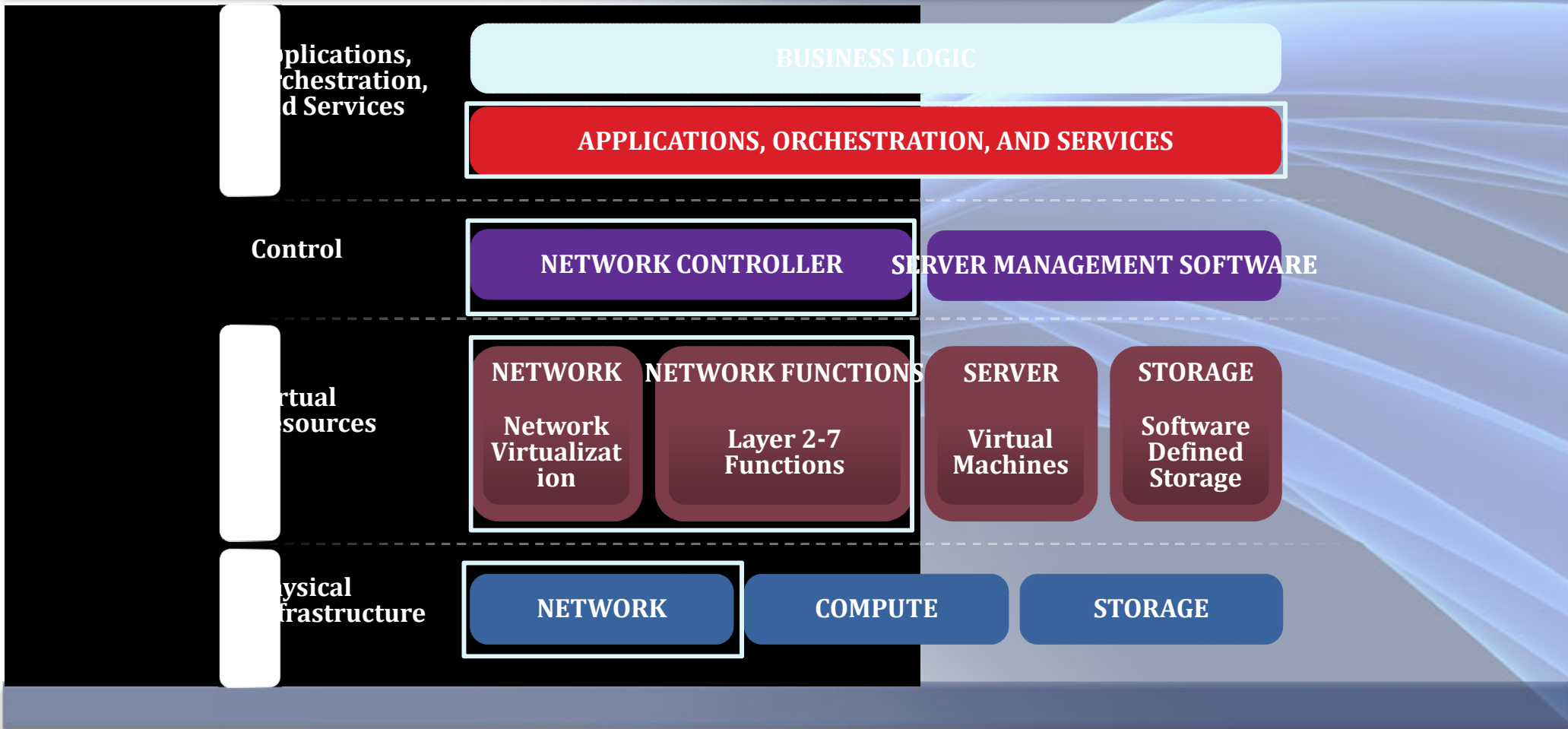
Capabilities	Key Solutions and Programs
• Mission Systems Engineering and Integration • Mission System Information Assurance Support • High Assurance & Mission Critical Software & Hardware • Training and Simulation Systems • Electronic Warfare Integrated Reprogramming • Electronic Order of Battle	• Advanced Mission Computers • Common Display System (CDS) • Common Network Interface (CNI) • Data Storage Systems • Battlefield Information Collection Exploitation System • Information Operations Range

Architecture of the Future:
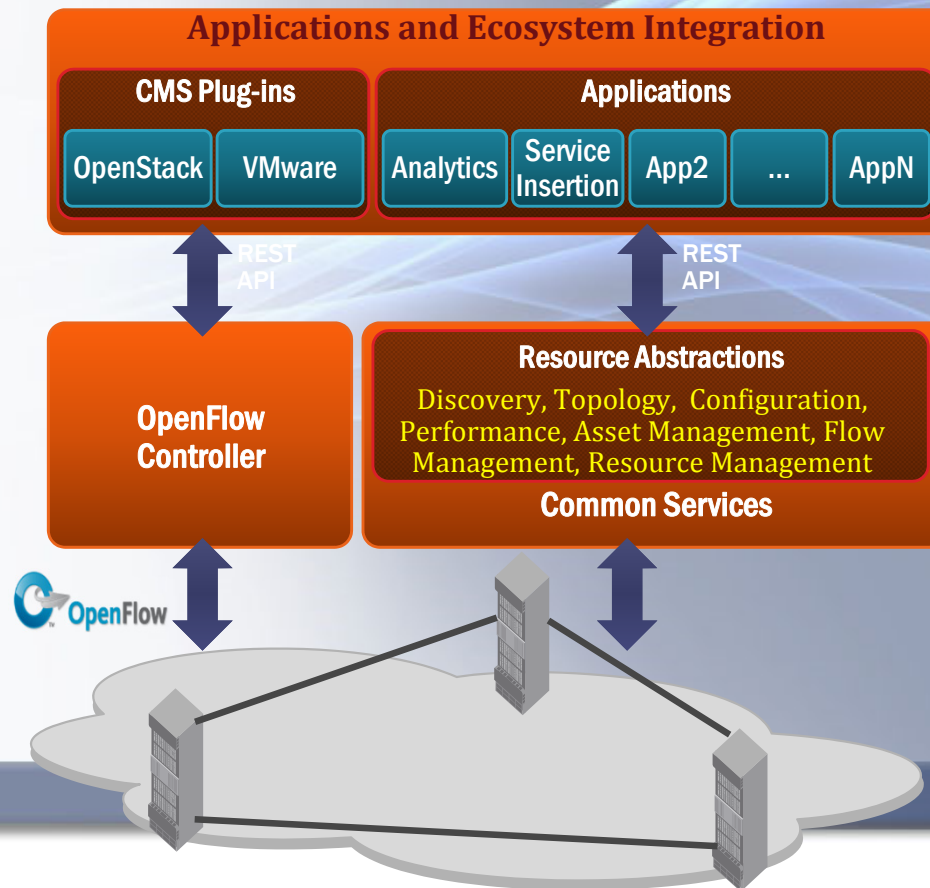
THE ON-DEMAND INFRASTRUCTURE

| Applications, Orchestration, and Services | BUSINESS LOGIC |
| | APPLICATIONS, ORCHESTRATION, AND SERVICES |

Control

| NETWORK CONTROLLER | SERVER MANAGEMENT SOFTWARE |

Virtual Resources

| NETWORK
Network Virtualization | NETWORK FUNCTIONS
Layer 2-7 Functions | SERVER
Virtual Machines | STORAGE
Software Defined Storage |

Physical Infrastructure

| NETWORK | COMPUTE | STORAGE |

Advanced Architectures:

SDN with OpenFlow enabled routers

How It Works	Topology	Benefits

How It Works

- Open flow is enabled on a per port basis where flow table entries match a set of rules for traffic forwarding and delivery

- The use of 10/100 GbE high speed links ensure reliable traffic delivery for REN, SP, and other mission critical networks.

- The orchestration layer with OpenFlow and REST APIs will allow traffic flows to be dynamically changed based on network events and bandwidth demands eliminating the use of CLI and other manual service creation processes

Topology

Applications and Ecosystem Integration

CMS Plug-ins
- OpenStack
- VMware

Applications
- Analytics
- Service Insertion
- App2
- ...
- AppN

REST API

REST API

OpenFlow Controller

Resource Abstractions
Discovery, Topology, Configuration, Performance, Asset Management, Flow Management, Resource Management

Common Services

OpenFlow

Benefits

- High Utilization – The ability to manage end to end paths with global visibility results in high utilization of the links

- High-density 10/100 GbE interfaces – provides high speed connectivity for dynamic services

- Simplified operations – A unified view of the network with SDN now simplifies configuration, management and provisioning

- Investment protection – The deployment of hybrid port mode enables equipment reuse.

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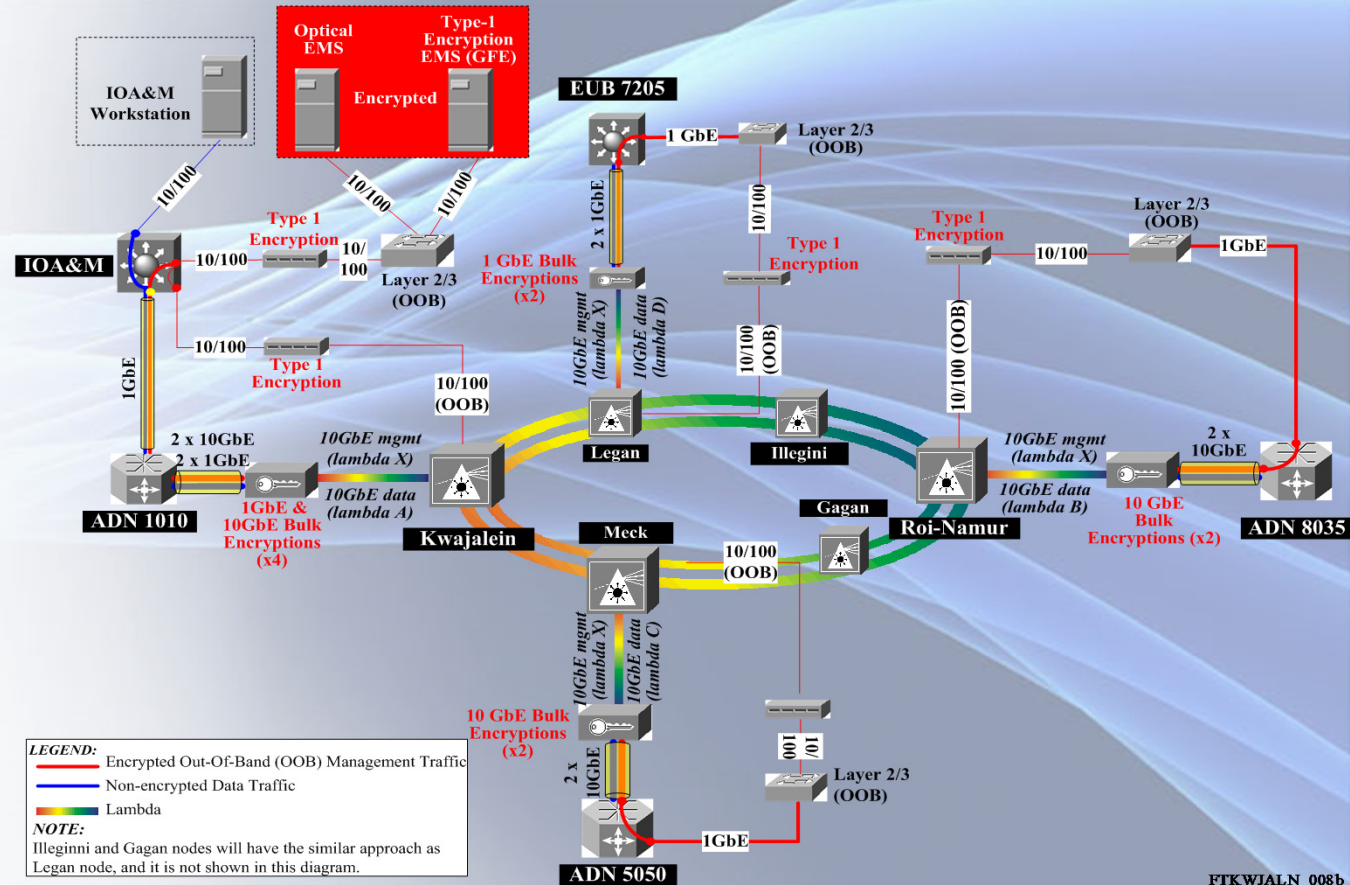# Communication Systems

Communication Systems

Capabilities

- Critical infrastructure & border protection
- Information sharing & analysis
- Intelligence analysis / 24x7 watch
- Maritime domain awareness
- Secure end to end communications
- International telecommunication platform designs
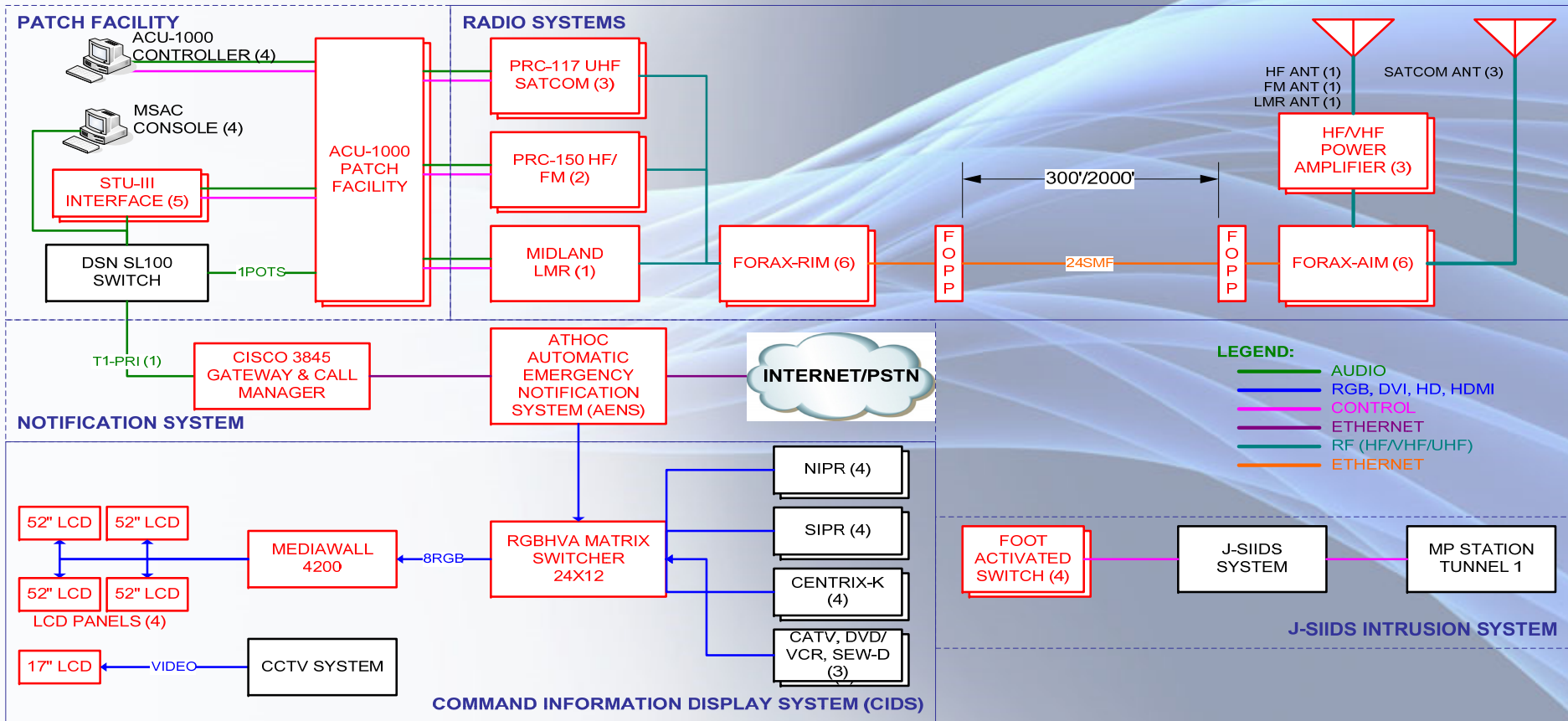
Key Solutions and Programs

- EPA Advanced Video Communications Architecture for San Francisco
- NASA Solutions for Enterprise-Wide Procurement (SEWP V) – Worldwide
- Army Technical Control Facilities (TCFs) - Maryland
- Army Joint Warfighter Inter-base Telecommunications Network (JWITN) - Japan

Infrastructure Solutions: 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 for six (6) island locations interconnected by an underwater optical cable.


Location: Not Disclosed – DWDM Redundant No SPoF Ring

FTKWJALN_008b

Unified Communications Solutions: 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.

PATCH FACILITY

ACU-1000 CONTROLLER (4)

MSAC CONSOLE (4)

STU-III INTERFACE (5)

DSN SL100 SWITCH

ACU-1000 PATCH FACILITY

1POTS

RADIO SYSTEMS

PRC-117 UHF SATCOM (3)

PRC-150 HF/ FM (2)

MIDLAND LMR (1)

FORAX-RIM (6)

FOPP

24SMF

FOPP

HF ANT (1)
FM ANT (1)
LMR ANT (1)

SATCOM ANT (3)

HF/VHF POWER AMPLIFIER (3)

FORAX-AIM (6)

300'/2000'

NOTIFICATION SYSTEM

T1-PRI (1)

CISCO 3845 GATEWAY & CALL MANAGER

ATHOC AUTOMATIC EMERGENCY NOTIFICATION SYSTEM (AENS)

INTERNET/PSTN

LEGEND:
- AUDIO
- RGB, DVI, HD, HDMI
- CONTROL
- ETHERNET
- RF (HF/VHF/UHF)
- ETHERNET

52" LCD | 52" LCD

52" LCD | 52" LCD

LCD PANELS (4)

17" LCD

MEDIAWALL 4200

8RGB

RGBHVA MATRIX SWITCHER 24X12

NIPR (4)

SIPR (4)

CENTRIX-K (4)

CATV, DVD/ VCR, SEW-D (3)

VIDEO

CCTV SYSTEM

FOOT ACTIVATED SWITCH (4)

J-SIIDS SYSTEM

MP STATION TUNNEL 1

J-SIIDS INTRUSION SYSTEM

COMMAND INFORMATION DISPLAY SYSTEM (CIDS)

Location: UNDISCLOSED– Self-Healing Distributed Database in a Mobile Ad Hoc Mesh Network (MANET)

Microwave Communication Solutions: Defense Threat Reduction Agency (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.
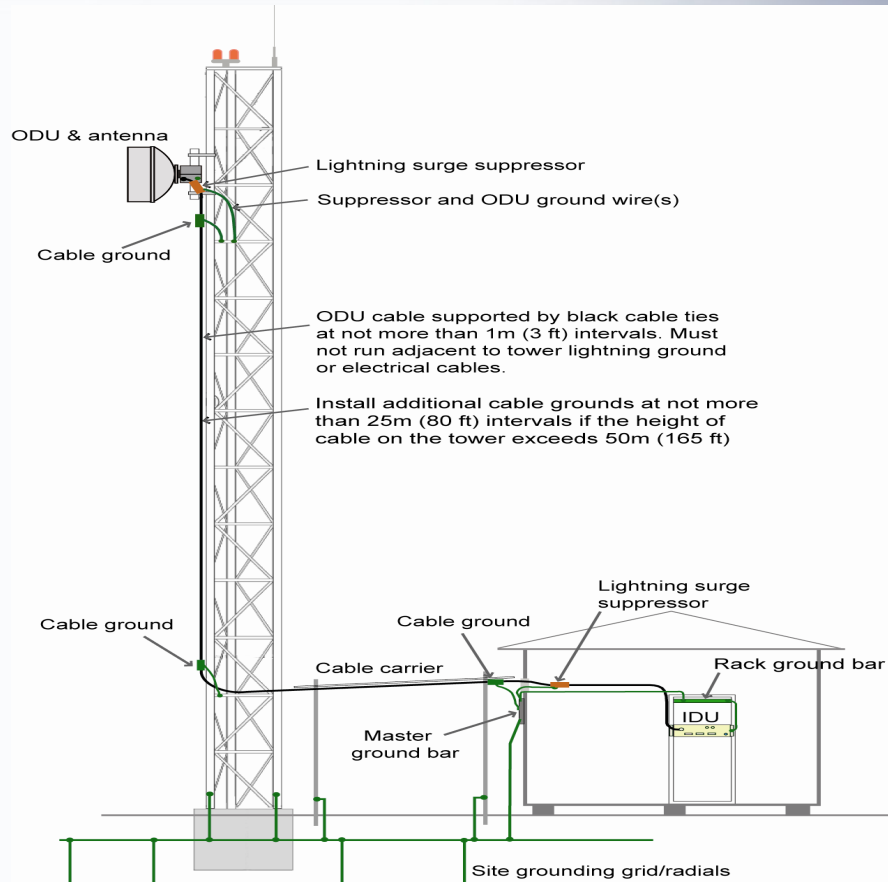
Location: UNDISCLOSED– Wireless Unconventional Nuclear Warfare Defense Network Proof of Concept

Advanced Information Systems

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Capabilities

- Command & Control Centers
- Network Operations Centers
- Emergency Operations Centers
- Tactical Operations Centers
- Divisible Conference/Training Rooms
- Telepresence Conference Rooms
- Video Distribution Hubs

Key Solutions and Programs

- Army Combatant Command & Control Centers
- EPA Western Region Emergency Operations Center
- US Nuclear Regulatory Commission (NRC) Operations Center
- Royal Saudi Air Force (RSAF) Video Distribution Hub
- Afghanistan National Army Network Operations Center

Command Center Solutions:

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.
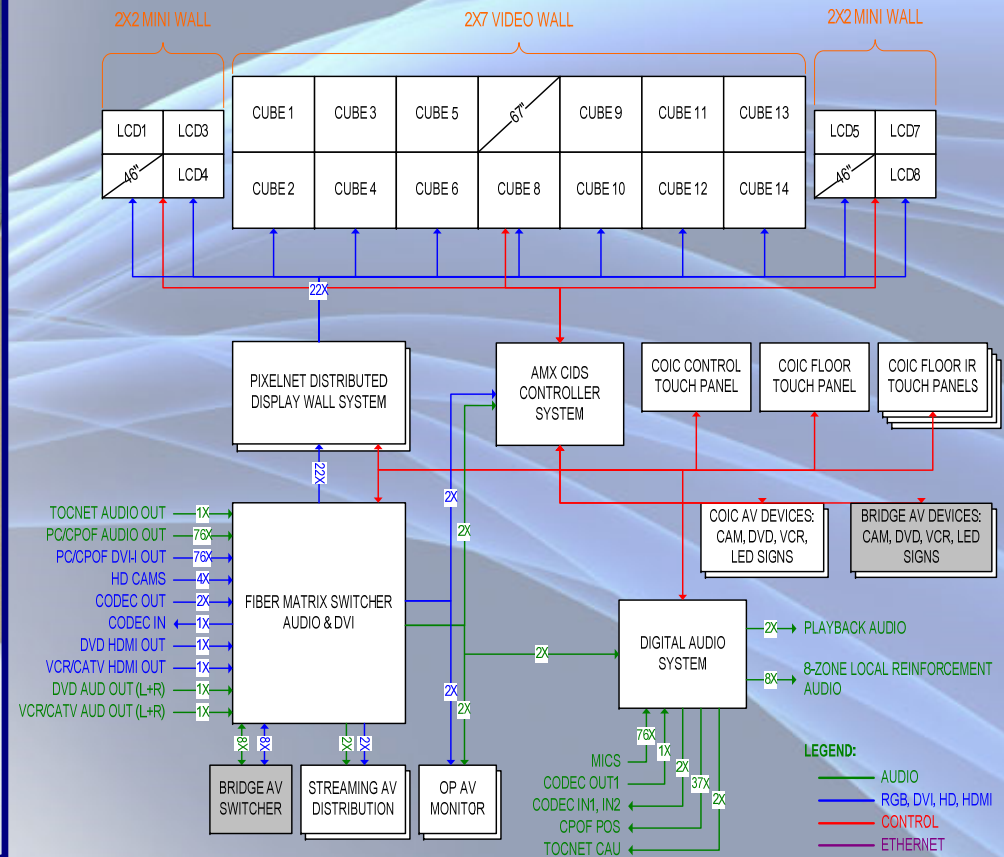
Location: UNDISCLOSED – Southeast Asia Command Center

Command Post of the Future (CPOF): Engineered, designed and built an interface panel and integration system, providing operators of the Army's Command Post of the Future (CPOF) software system the ability to effortlessly interconnect their CPOF kits to any command center system to begin the collaboration process.

Location: UNDISCLOSED– Commanding General SECURE/NONSECURE Command Post

Conference Room Solutions: 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 to include upgrades for the Air Support Operations Center (ASOC), the Division Tactical Operations Center (DTOC), and the division Topographic (TOPO) team in the Command Bunker.

Location: UNDISCLOSED – Integrated Command Center Battle Cab Conference Center

Global Delivery: DasNet has access to over 1,600,000 products through our relationships with over 300 vendors. DasNet understands the complexities of supply chain management as well as the product requirements needed to meet TAA and 508 standards.

Worldwide Delivery Capabilities

Deploying Technology Solutions to all 50 States

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