

# MODERNIZATION WITHOUT DISRUPTION

The rapid pace of technology and evolving security threats requires a deliberate and proactive approach to adapt to changing mission challenges. Connectivity is required to achieve technical superiority and certainty in decision-making.

## Connectivity Ensures Capability

With proven modernization processes that eliminate risk, Tyto harnesses transformative technology to deliver secure and rapid incremental modernization. Our blend of technical architecture, automated tools, and risk-driven project management yields improved mission flexibility, scalability, and a zero-trust architecture to meet the needs of tomorrow's enterprise.

## Software Defined Network (SDN) Modernization

### First SDN Capability in the DoD

Tyto has a proven track record of delivering impressive innovation to the DoD. Utilizing SDN WAN Controller technology, Tyto developed a proof-of-concept that was accepted by DISA and subsequently implemented. The DoD's first SDN-based service provisioning capability integrated DISA's existing order entry processes and legacy DoDIN systems, resulting in improved business and operational efficiencies.

## Network Modernization

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### Europe IMCS

Tyto provided full spectrum, ISP, OSP, AV/VTC, network and information requirements to the US Army so soldiers, commands and supporting organizations can access, process and act upon information, anytime, anywhere. This supports United States European Command (USEUCOM), United States Africa Command (USAFRICOM), and United States Army Europe - Africa (USAREUR-AF).

### Yongsan Relocation Program (YRP/LPP)

Tyto completed 14 projects from 2012 - 2024 (Increments 1-4). Recent highlights include ISP-A/P integration at major facilities for Communication Centers and Coalition Forces Command including Humphreys Command Center (CC-H), Korea Battle Simulation Center (KBSC), ROK Army HQ, the Corps of Engineers PMO Office, integration for multiple classifications at critical user sites, Outside Plant (OSP), Voice/UC systems migration, and AV/VTC integration. This included 12 data center rooms, 2387 data racks and 44 Coalition Forces Command telco rooms.

### Southwest Asia Outside Plant (SWA-OSP)

Tyto developed and implemented the U.S. Army's requirements for Unified Capability Sets for Outside Plant (OSP), Inside Plant (ISP) and Area Distribution Node (ADN) modernization and implementation throughout SWA. Tyto's standardization of networks increased bandwidth, security, and reliability.

## Delivering Capabilities for a Globally Connected Army

Tyto has a proven track record of supporting global enterprise network modernization with Army and DoD customers.

- Europe Infrastructure Modernization Capabilities Set (IMCS)
- Yongsan Relocation Program (YRP/LPP)
- SWA OSP/ISP Diversity & Network Modernization
- Consolidated Intelligence Center (CIC) Information Technology (IT) Fit-Out Europe
- Fort Hood TDM Decommissioning & RS3 Support
- Army Unified Capabilities (AUC)
- SuperCap Power Modernization at Ft. Irwin (NTC)

## 20+ Years Supporting PM-IEN: GENM-O and GENM-A

Tyto has supported Global Network Enterprise Modernization and PM-IEN for over two decades across CONUS and OCONUS. CONUS sites include Ft. Campbell, Ft. Stewart, West Point, Ft. Liberty, Ft. Cavazos, Ft. Leavenworth, Ft. Bliss and Ft. Riley, while OCONUS areas include Wiesbaden, Grafenwoehr, Sembach, Korea, Bahrain, Afghanistan, Jordan, Iraq, and Kuwait.

Stability and consistency of information delivery throughout the AOR. Flexibility enabled innovation during the contract term.

### Defense Health Agency Modernization

Tyto securely delivered value and enabled rapid, incremental modernization without disruption to 104 treatment facilities across 11 geographic regions world-wide. Zero-trust architectures and automated tools were implemented to meet the needs of tomorrow while proven modernization processes eliminated risk today.

## Flexible and Resilient

### Voice Modernization

With extensive experience addressing the challenges of modernizing legacy voice and UC networks, Tyto delivers mission-tailored technology and integrated end-to-end solutions to optimize agency communications.

### DISA DoD Integrated Phone System (DIPS)

Delivering secure services at scale, Tyto Athene is a key infrastructure provider and integrator of modern hybrid-cloud voice and audio-conferencing services to the Department of Defense (DoD). The new Voice over Internet Protocol (VoIP) system, capable of more than 250,000 concurrent connections to DISA's voice cloud system, provides secure, resilient communication services while saving the government money by eliminating the need for desk phones and supporting remote users.

Tyto delivers voice and conferencing from cloud data centers that meet DoD Impact Level 5 security standards, providing modern capabilities with scalable infrastructure ready to meet warfighters' needs on demand.

### Soft Switch Backbone Modernization

Bringing expertise in secure voice technology design, integration, and implementation, Tyto has a critical role in delivering a secure and reliable next-generation, global voice communications platform to the Department of Defense (DoD) via the Defense Information Systems Agency's (DISA) Soft Switch Backbone (SSBB) modernization program. This modernization effort will ensure continuity of operations, enhance cybersecurity, and support emerging technologies like Next Generation 911 to provide uninterrupted voice communications for critical missions.

### Guam Fire Department NG911

Tyto completed the Next Generation 911 Integrated Emergency Dispatch Center for the Territory of Guam. The geo-redundant, cloud-based solution was delivered "as a service" with 24/7/365 NOC support and was equipped with 10 dispatch positions and four Mobile Continuity of Operations positions. This NG911 dispatch center serves 140K residents and over 1 million travelers handling over 130K 9-1-1 calls annually.

## Collaboration at Scale

Tyto integrates legacy systems into cloud-based IPTV/UC platforms to support mission digital services. Our video solutions range in scale from small conference rooms to operational centers. With a modular architecture at the core of our design, our solutions offer a flexible and agile platform capable of integrating new and innovative features to support modern mission needs.

### Audio Visual Multimedia

Leveraging industry-leading technology, Tyto designed, deployed, and maintained an audio visual multimedia system capable of delivering unified communications services to over 12,000 existing end points (conference rooms, classrooms, auditoriums, ops centers, etc.) in a classified environment. Tyto's emphasis on ease of mission management, simplified room layouts, and customer interfaces enhanced the customer experience and promoted user adoption.

### U.S. Army Cyber Command

Tyto designed and fit-up the U.S. Army Cyber Command's new building in Fort Gordon, GA with video and command information display systems including a state-of-the-art Operations Center with video walls, 3 Battle Bridges, 43 conference rooms (with varying security levels), 32 caves, 4 war rooms, 14 private offices, and 106 networked digital signs.



Fort Irwin, CA (NTC) SuperCap & Solar PV Arrays

**Tyto's SuperCap Energy Storage Solution:** Reliable and resilient power from command to the edge of the battlefield.

- Fast charge/discharge rate for superior performance
- No chemical electrolyte, reaction, heat or fumes
- No need for a fire suppression system
- Reduced dependency on fossil fuels when used in place of generators
- Ability to remotely monitor each SuperCap module
- Lower Overall Cost of Ownership
- Closed System = Less Maintenance
- Longer life than traditional batteries with over 20K cycles
- Occupies a similar footprint as lead acid batteries

## About Tyto Athene

Tyto Athene delivers mission-focused solutions that keep critical missions future-focused and future-ready. We utilize adaptive architecture and continuous integration to secure essential data, so our clients can make informed decisions, create decisive advantages, and drive dominance. We do more than solve the needs of now, we deploy what's next.

