

# COMPANY CASESTUDY

## Modernizing IT for Aerospace & Defense Manufacturing

### Client Profile:

A prominent engineering and manufacturing company with Department of Defense (DoD) contracts faced challenges with an outdated IT infrastructure that impacted efficiency and compliance. Their diverse product portfolio—ranging from precision stampings to aircraft instrumentation—required secure data storage and reliable performance.

### Challenges Faced

The client encountered several IT-related challenges, including:

- **Compliance Hurdles:** Needed to maintain National Institute of Standards and Technology (NIST) compliance and Cybersecurity Maturity Model Certification (CMMC) through lifecycle management.
- **Data Security Concerns:** Required robust protection for sensitive information related to aerospace and defense projects.
- **Performance Bottlenecks:** Aging servers and storage infrastructure negatively affected productivity and daily operations.
- **Limited Internal IT Expertise:** Lacked the in-house resources necessary to manage complex compliance and security requirements.

### Solutions Implemented

Total Communications partnered with the client to implement a comprehensive IT modernization strategy tailored to their unique needs:

- **Modernized Infrastructure:** Upgraded servers with Datto backup and disaster recovery, improved performance with Pure Storage, and ensured scalability for future growth.
- **Enhanced Security:** Deployed Duo multi-factor authentication (MFA) to strengthen access control, mitigate cyber threats, and safeguard sensitive data.
- **Compliance Guidance:** Provided expertise in achieving and maintaining NIST and CMMC certification, ensuring contract eligibility and reducing cybersecurity risks.
- **Dedicated IT Partnership:** Became the client's trusted IT advisor, offering ongoing support and managing their entire IT environment.

### Results and Impact

- **Achieved CMMC Compliance:** Strengthened security measures to mitigate cyber risks and maintain eligibility for DoD contracts.
- **Enhanced Security Posture:** Minimized vulnerabilities and improved data protection through MFA and reliable backup solutions.
- **Increased Efficiency:** Boosted productivity and performance by replacing outdated infrastructure with modern, high-speed servers and storage.
- **Established Trusted IT Partnership:** Became the client's long-term strategic IT partner, exceeding expectations and supporting ongoing technology needs.

This IT transformation empowered the client with a secure, high-performing infrastructure, ensuring compliance while optimizing efficiency for future growth.