# Modernizing Enterprise Network Infrastructure:



**Cohesive Technology Group** 

Addressing Business-Critical Challenges with Secure, Compliant, and Scalable Solutions

### **SOLUTIONS BRIEF**

Enterprise Organizations face unprecedented challenges in securing and modernizing their network infrastructures to meet the demands of an increasingly digital and mobile workforce. With the evolving threat landscape, Enterprise Organizations must transition from legacy perimeter-based security models to a Zero Trust architecture that ensures security, resilience, and compliance with industry standards and compliance mandates. These standards and mandates set the direction for a fundamental shift toward identity-centric security, micro-segmentation, encrypted communications, and advanced threat detection. To support these initiatives, Enterprise Organizations require scalable, software-defined, and policy-driven network solutions that provide agility while maintaining operational security in the most demanding environments.

CTG National is committed to helping Enterprise Organizations modernize their network infrastructure in alignment with Zero Trust Network Architecture (ZTNA) principles. Our solutions integrate advanced security models and innovative networking technologies to deliver a secure, compliant, and high-performance network framework.

#### **Comprehensive Network Modernization Solutions**

We provide a full spectrum of modernization capabilities to address the Enterprise Organizations most pressing networking challenges:



## ZERO TRUST NETWORK ARCHITECTURE (ZTNA)

Ensuring that all access requests—whether from users, devices, or workloads—are authenticated, authorized, and continuously verified before granting access to network resources. Our ZTNA implementations align with Enterprise compliance mandates, reducing attack surfaces and limiting lateral movement of threats.



#### **SOFTWARE-DEFINED PERIMETER (SDP)**

Providing an identity-aware and dynamically adaptive security perimeter that conceals critical assets from unauthorized access. SDP enhances security posture while offering flexibility to deploy across hybrid and multi-cloud environments.



## NETWORK DETECTION AND RESPONSE (NDR) WITH EXTENDED DETECTION AND RESPONSE (XDR) INTEGRATION

Enabling real-time visibility, threat detection, and automated response capabilities through Al-driven analytics. NDR is a foundational component for cyber resilience and compliance with evolving Enterprise cybersecurity frameworks.



## VPN REPLACEMENT WITH SECURE ACCESS SERVICE EDGE (SASE)

Transitioning from traditional VPNs to a cloud-native SASE model that consolidates security functions, optimizes performance, and enhances user experience for remote and hybrid workforces.



#### **NETWORK AUTOMATION AND MOBILITY**

Leveraging Al-driven automation to reduce manual configuration errors, streamline operations, and enhance network adaptability. Our solutions ensure seamless mobility and secure connectivity for business-critical environments.



## DDIL NETWORKS AND SATCOM SOLUTIONS

Supporting operations in Disconnected, Disrupted, Intermittent, and Limited (DDIL) environments with resilient network architectures. We provide secure and scalable satellite communication (SATCOM) solutions to maintain connectivity in austere environments.





# Foundational Capabilities for Enterprise Networks

CTG National delivers next-generation networking capabilities designed to provide secure, reliable, and efficient connectivity:



#### **MACRO-SEGMENTATION VS. MICRO-SEGMENTATION**

Implementing both macro- and micro-segmentation to enforce granular access controls and reduce unauthorized lateral movement within Enterprise networks.



## ENCRYPTED DATA PLANE AND FULLY ENCRYPTED TRAFFIC

Ensuring that all network traffic—both control and data plane—is fully encrypted, meeting stringent Enterprise security standards for data in transit.



#### **APPLICATION BINDINGS**

Binding security policies to applications to enforce least privilege access and prevent unauthorized data exposure.



#### CENTRALIZED MANAGEMENT AND CONTROL

Providing a unified, policy-driven approach to managing Enterprise networks with visibility, compliance reporting, and automated security enforcement.



## API PROGRAMMABILITY AND SOFTWARE-DEFINED NETWORKING (SDN)

Enabling seamless integration and network programmability through API-driven architectures that improve automation, scalability, and policy enforcement.



#### **SD-WAN FOR OPTIMIZED NETWORK PERFORMANCE**

Deploying software-defined wide-area networking (SD-WAN) solutions to enhance connectivity, improve application performance, and reduce costs while ensuring compliance with Enterprise cybersecurity requirements.

## Industry Leading Technology Partnerships

CTG National collaborates with top-tier networking and security technology providers to bring best-in-class solutions to Enterprise Organizations. Through these partnerships, we integrate advanced innovations in Zero Trust security, Al-driven network automation, and cloudnative architectures. Our approach ensures organizations stay ahead of evolving cyber threats while optimizing performance, scalability, and compliance with Enterprise Organization mandates and compliance.

#### Why CTG National?

CTG National is the trusted partner for Enterprise Organizations seeking to modernize their networks while ensuring compliance with Zero Trust principles and Enterprise cybersecurity mandates and compliance. Our expertise, strategic partnerships, and commitment to business success enable us to deliver tailored, high-performance networking solutions that meet the stringent security and operational demands of the Enterprise Organizations. We combine deep technical knowledge with a consultative approach to help businesses transition seamlessly to a modern, secure, and resilient network infrastructure. Contact us today to learn how CTG National can help your business achieve its network modernization goals.

#### **Contracts**

**DUN & Bradstreet:** 080932836

**UEI:** G2D4Q7UKR5P5 **CAGE Code:** 7ZHE9 **NAICS Code(s):** 541519



#### Smart | Secure | Scalable

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