

# Modernizing Enterprise with AI-ready Infrastructure



## SOLUTIONS BRIEF

Enterprise Organizations are eager to unlock AI's potential. But without the right expertise, strategy and infrastructure, AI implementations can be costly and cumbersome—or never happen at all. That's why many businesses are turning to NVIDIA to help them deploy a powerful, scalable platform to streamline AI adoption and accelerate AI workloads.

Enterprises trust NVIDIA as a global leader in accelerated computing—with a state-of-the-art infrastructure that powers AI workloads at scale. They also know CTG National's proven track record as a trusted technology advisor to Enterprise Organizations. Now, as an Authorized NVIDIA DGX Solution Provider, CTG National can help organizations harness NVIDIA to speed AI deployments, optimize workloads and derive new data insights. Together, our solutions can empower businesses to drive innovation and efficiency in nearly every segment of their operations.

*CTG National and NVIDIA make AI simple to adopt in a wide range of use cases:*



### **ENTERPRISE RAG (RETRIEVAL-AUGMENTED GENERATION)**

Empower employees with continuously up-to-date large language models (LLMs). NVIDIA NeMo (with NeMo Retriever/NIM) grounds AI assistants in approved repositories so employees can ask natural-language questions and receive permission-aware, citation-backed answers. The system retrieves relevant passages from sources like SharePoint, wikis, tickets and policy PDFs, then generates accurate responses that stay current without the need to retrain.



### **AI VIRTUAL ASSISTANTS**

Deploy NVIDIA NIM and NeMo Retriever to deliver task-tuned assistants that draft reports, recommend next actions, and check policy compliance with citations. Guardrails, role-based access control and human-in-the-loop review improve explainability and traceability.



### **CYBER THREAT DETECTION & NETWORK TELEMETRY AI**

Leverage NVIDIA Morpheus, a GPU-accelerated end-to-end AI framework, to filter, process, and classify large volumes of streaming cybersecurity telemetry across data centers, cloud and edge. Morpheus accelerates detection and response while reducing cost and analyst burden.



### **PREDICTIVE MAINTENANCE FOR FLEETS & FACILITIES**

Use NVIDIA RAPIDS and the Time Series Prediction Platform (TSPP) to rapidly train and serve time series and graph models that forecast failures in aircraft, ships, vehicles, and HVAC, and other industrial systems. This shifts your enterprise from reactive to condition-based maintenance, which cuts downtime and saves costs.



### **DIGITAL TWINS OF FACILITIES, PORTS, AND ENERGY SITES**

Build NVIDIA Omniverse twins to simulate traffic, power, and sensor layouts for planning and resilience. Planners test “what-ifs” safely, then roll out validated configurations with full traceability.



### **SPEECH, TRANSLATION, AND TRANSCRIPTION (CONVERSATIONAL AI)**

Use NVIDIA Riva for on-prem transcription, translation and multilingual call centers. Riva services can run in secure enclaves to protect sensitive audio content and meet compliance requirements.

### **CTG NATIONAL: AN INDISPENSABLE ENTERPRISE PARTNER FOR NVIDIA**

CTG National, a Cohesive Technology Group company, delivers unrivaled expertise and value to enterprises looking to optimize their AI and HPC infrastructures with NVIDIA solutions. We are one of only a handful of value-added resellers that carry DGX AI Compute Systems Competency. As a member of the NVIDIA Partner Network, CTG National has access to privileged product roadmap information, and product and corporate engineering.

### **CERTIFICATIONS & VALIDATIONS**

- Authorized NVIDIA DGX Solution Provider
- NVIDIA DGX AI Compute Systems Competency
- NVIDIA Compute Systems Elite Competency
- NVIDIA Networking Competency
- NVIDIA AI Advisors for Sales and Engineering
- Validated for NVIDIA DGX SuperPOD

In addition, CTG National offers:

- A sales and engineering staff that is fully certified and NVIDIA-accredited on the full portfolio of NVIDIA solutions and products.
- Best practices on the design, architecture and sizing of NVIDIA solutions.
- NVIDIA product updates and NDA (non-disclosure agreement) roadmaps to help enterprises future-proof their modernization plans.
- Promotional pricing, discount programs and value-added price breaks.
- Speed, efficiency and accuracy in booking, shipping and tracking client purchases.
- Dedicated and knowledgeable post-sales and logistical support.
- NVIDIA-certified and accredited engineering staff for pre-sales support and post-sales implementation and migration work.
- U.S. citizen, U.S.-based, DoD TS- and DoE Q-cleared personnel at all levels of sales and engineering.

## About CTG National

CTG National, a Cohesive Technology Group company, is a small business that excels in servicing Enterprise Organizations with best-in-class information technology. Our experienced team of sales and engineering professionals designs and delivers IT hardware and software solutions that save time and money for our clients. Headquartered in Virginia, we have dedicated resources in all regions across the continental United States.

### Contracts

**DUN & Bradstreet:** 080932836

**UEI:** G2D4Q7UKR5P5

**CAGE Code:** 7ZHE9

**NAICS Code(s):** 541519



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