

Modernizing Federal Missions with AI-ready Infrastructure



SOLUTIONS BRIEF

Federal agencies 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 organizations are turning to NVIDIA to help them deploy a powerful, scalable platform to streamline AI adoption and accelerate AI workloads.

Agencies 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 Federal's proven track record as a trusted technology advisor to the federal government. Now, as an Authorized NVIDIA DGX Solution Provider, CTG Federal can help organizations harness NVIDIA to speed AI deployments, optimize workloads and derive new data insights. Together, our solutions can empower agencies to drive innovation and efficiency in nearly every segment of their operations.

CTG Federal 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 systems. Agencies shift from reactive to condition-based maintenance, cutting downtime and saving costs.



DIGITAL TWINS OF BASES, 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 FEDERAL: AN INDISPENSABLE AGENCY PARTNER FOR NVIDIA

CTG Federal, a Cohesive Technology Group company, delivers unrivaled expertise and value to federal agencies 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 Federal 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 Federal 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 agencies future-proof their modernization plans.
- Promotional pricing, discount programs and value-added price breaks.
- Speed, efficiency and accuracy in booking, shipping and tracking customer 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 Federal

CTG Federal, a Cohesive Technology Group company, is a small business that excels in servicing dozens of federal defense, intelligence, and civilian 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 customers. 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

NASA SEWP V

Contract Number: NNG15SD12B

Group: Group B_Small Business

GSA Multiple Award Schedule (MAS)

Contract Number: 47QTCA25D003P

DOE ICPT

Contract Number: ICPT CISCO BOA 4I-30062-0008A

Dell Technologies ICPT Agreement

Contract Number: 4I-31841 Small Business

Horizon ELA

Contract Number: W519TC-25-D-A005

ITES-4H

Contract Number: W519TC25DA013



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