



Demystifying GenAI.mil & WDP for Standards Research

A Practical Guide for Technical Personnel

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Navigating the AI Frontier: Implementation in Standardization

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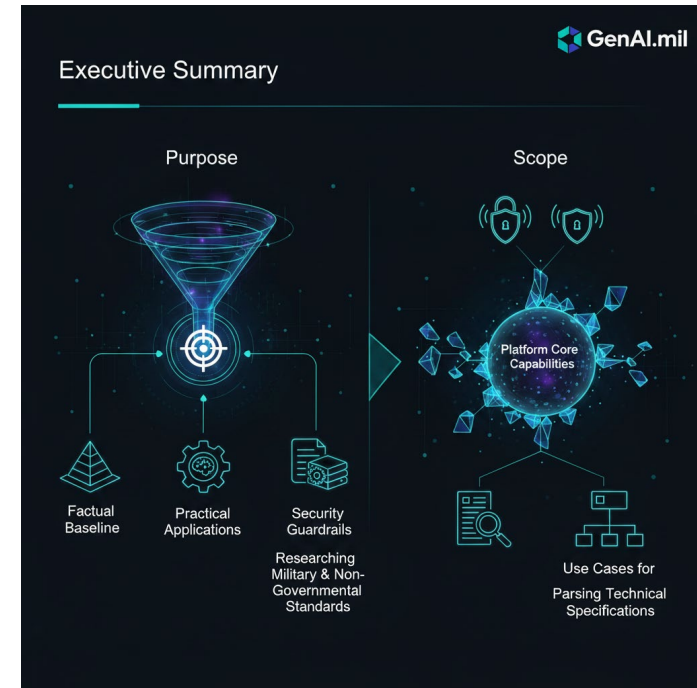
Executive Summary

- **Purpose**

- Establish a factual baseline on GenAI.mil and War Data Platform.
- Focus on practical applications for technical personnel.
- Aid in researching military and non-governmental standards.

- **Scope**

- Platform core capabilities.
- Security guardrails.
- Use cases for parsing technical specifications.





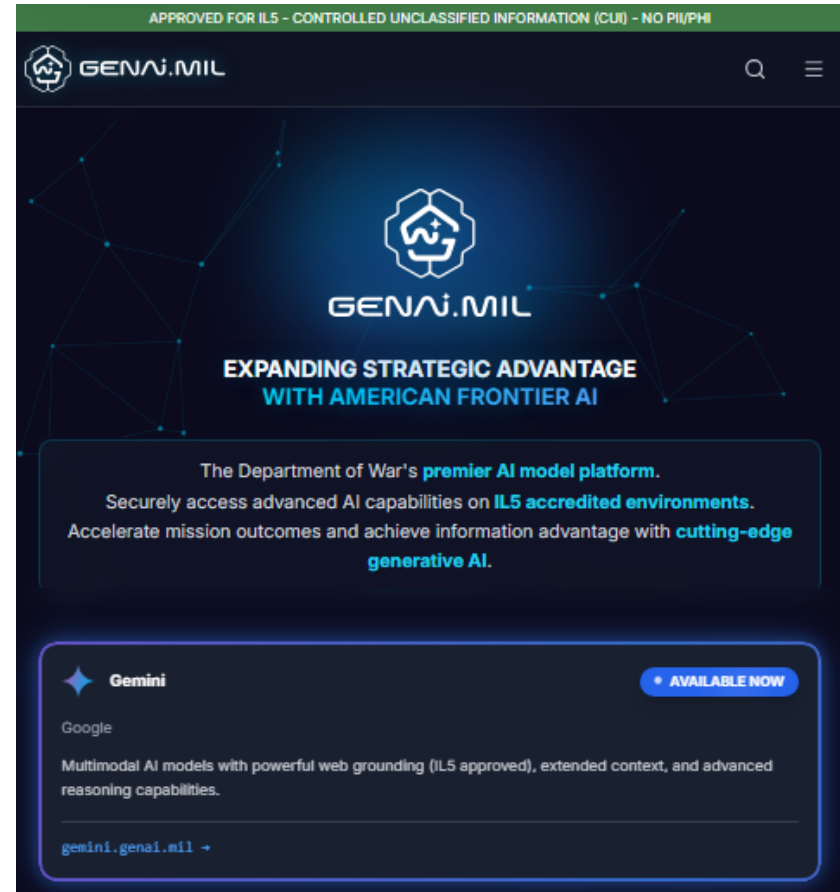
What is GenAI.mil?

• Platform Overview

- Enterprise generative AI platform for the Department of War.
- Secure, government-authorized cloud environment.
- Supports civilian and military users.

• Approved Models

- Hosts a curated selection of commercial models.
- All models are defense-approved.
- Passed rigorous security evaluations.





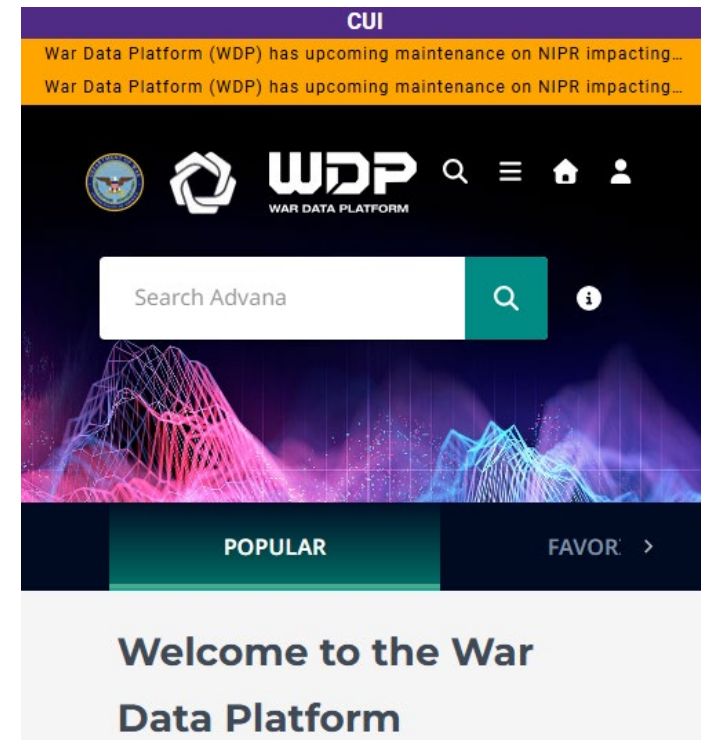
What is the War Data Platform (WDP)?

- **The Single Source of Truth:**

- WDP (Advana) is the Department of War's enterprise data analytics platform.
- It ingests, cleans, and structures vast datasets from across the DoW enterprise (logistics, finance, personnel, readiness).

- **Beyond Raw Data:**

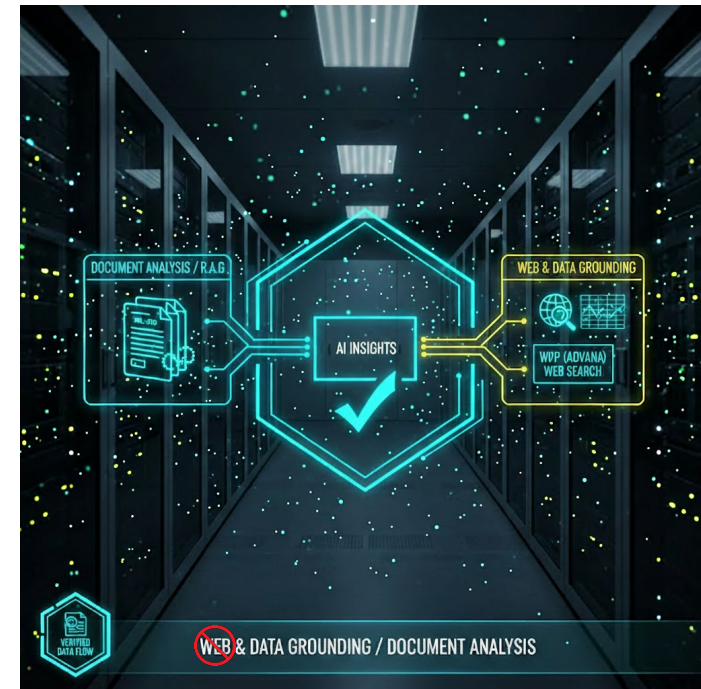
- Provides an "API-first" ecosystem for accessing authoritative data.
- Enables connecting disparate information to create a comprehensive operational and business picture.
- This is the verifiable, trusted data source that powers next-generation analytics.





Core Technical Capabilities

- **Document Analysis (Unstructured Data)**
 - Upload standard PDFs for analysis using Retrieval-Augmented Generation (RAG).
 - RAG: Restricts the AI to pull answers exclusively from the text of your uploaded documents.
 - **Limitation:** The AI only knows what is written in that specific static document.
- **Enterprise Grounding via WDP (Structured Data)**
 - Bypasses the open web to ground answers directly in the War Data Program (WDP).
 - Queries live, enterprise-wide datasets (e.g., procurement history, component failure rates, logistics) via secure APIs.
 - **Advantage:** Transforms the AI from a simple "document reader" into an enterprise intelligence tool that links written standards to real-world DoD execution.

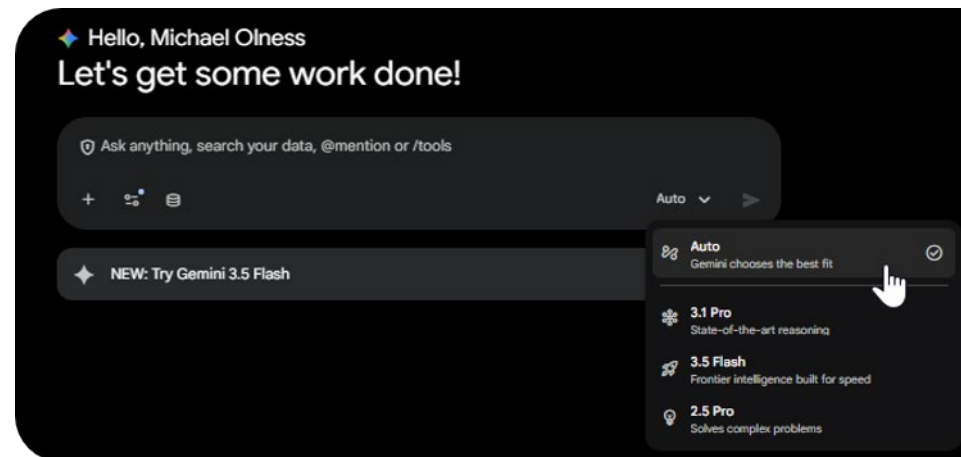




Application: Blending Document Text with Enterprise Data

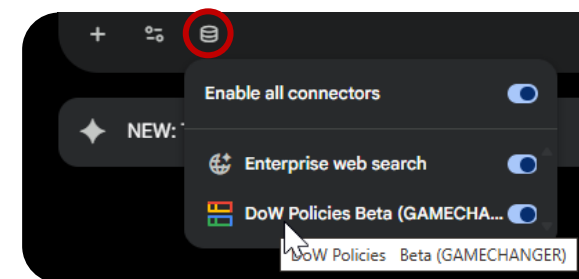
• Parsing with Context (GenAI + WDP):

- Legacy (RAG only): *"Extract the material requirements from this MIL-STD."*
- WDP-Enhanced (GenAI + WDP): *"Extract the material requirements from this MIL-STD and show me its procurement history and average cost from WDP."*



Cross-Referencing with Impact (GenAI + WDP):

- Legacy (RAG only): "Compare the changes between Version 1.1 and 1.2 of this standard."
- WDP-Enhanced (GenAI + WDP): "Compare the changes between versions and query WDP for a list of all current programs and systems affected by those changes."





Application: Data-Driven Modernization

- **NGS Analysis (GenAI + WDP):**

- Legacy (RAG only):
“Crosswalk the environmental vibration testing protocols between MIL-STD-810H (Category 24) and the NGS RTCA DO-160G standard.”
- WDP-Enhanced (GenAI + WDP):
“Crosswalk the vibration protocols and query WDP's aviation maintenance data to see if subsystems built to the commercial RTCA DO-160G standard show higher environmental failure rates in the field than those built to MIL-STD-810H.”

- **Grounded Market Research (GenAI + WDP):**

- Legacy (RAG only):
“Summarize recent industry trends for 5G technology.”
- WDP-Enhanced (GenAI + WDP):
“Summarize industry trends and compare them against the DoW's current inventory and investment in 5G-related hardware, using data from WDP.”



****Note: The use of AI for analyzing Non-Government Standards is governed by existing copyright law and the specific licensing agreements in place with each Standards Developing Organization (SDO).***



Synergy: GenAI.mil & War Data Platform (WDP)

- **Ungrounded AI (The Problem):**

- Without WDP, a generative AI model is just a powerful text processor.
- It can summarize a MIL-STD but knows nothing about the real-world implications of that standard.
- Risk of hallucination is higher when relying solely on public web data.

- **WDP-Grounded AI (The Solution):**

- Connecting GenAI.mil to WDP bridges the gap between documents and reality.
- It allows the AI to answer questions that were previously impossible, blending "what the standard says" with "what the DoD knows."





The WDP-Powered Use Case: From Theory to Reality

- **Scenario:** An engineer is reviewing MIL-STD-883 (Test Methods for Microcircuits).
- **Legacy Question (GenAI.mil only):** *"Summarize the testing requirements for thermal shock."*
 - Result: A text summary of the PDF's content. Useful, but limited.
- **Visionary Question (GenAI.mil + WDP):** *"Find all microcircuits procured in the last 24 months that failed thermal shock testing under MIL-STD-883, cross-reference their suppliers, and identify alternative components with higher success rates."*
 - Result: An actionable, data-driven analysis that prevents future failures, saves money, and enhances readiness.
 - This is the future of standardization work.



Vision: The Future of Standardization Documents

- **Establishing the Digital Thread**

- Bridging the gap from published consensus standards (the building blocks) to solution specifications (as-designed) to the actual system (as-built).
- Exploring how future standards can be published in machine-readable formats to support Digital Engineering and Digital Twins.

- **Closed-Loop Standardization (The DSP + WDP Feedback Loop)**

- The Ultimate Vision: Connecting the standard (what should happen) directly to the data (what is actually happening).
- AI monitors live failure and maintenance data in WDP to identify parts that are failing prematurely in the field.
- The system automatically triggers a review of the corresponding MIL-STD or Non-Government Standard (NGS), suggesting updates to materials or testing thresholds based on real-world telemetry.
- Impact: Standardization transforms from a slow, bureaucratic document cycle into a rapid, data-driven readiness engine.



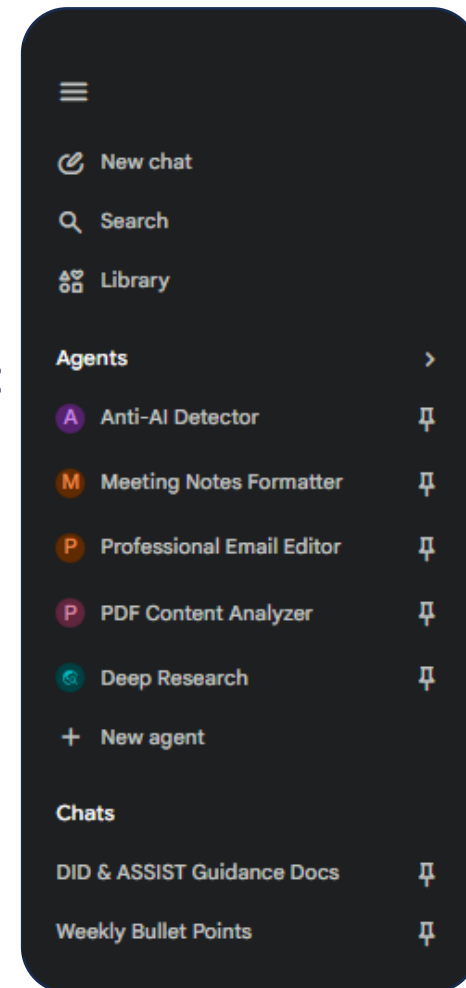


Automating Repetitive Workflows

- **Agent Designer (No-Code Integration)**
 - Low-code/no-code interface on GenAI.mil for building custom digital assistants.
 - Instructed in plain English to execute specific, repeatable workflows.
 - The Power Multiplier: These custom agents can be natively wired directly to WDP APIs to query live datasets alongside uploaded documents.
- **Visionary Agent Use Case: The "Smart Procurement" Agent**



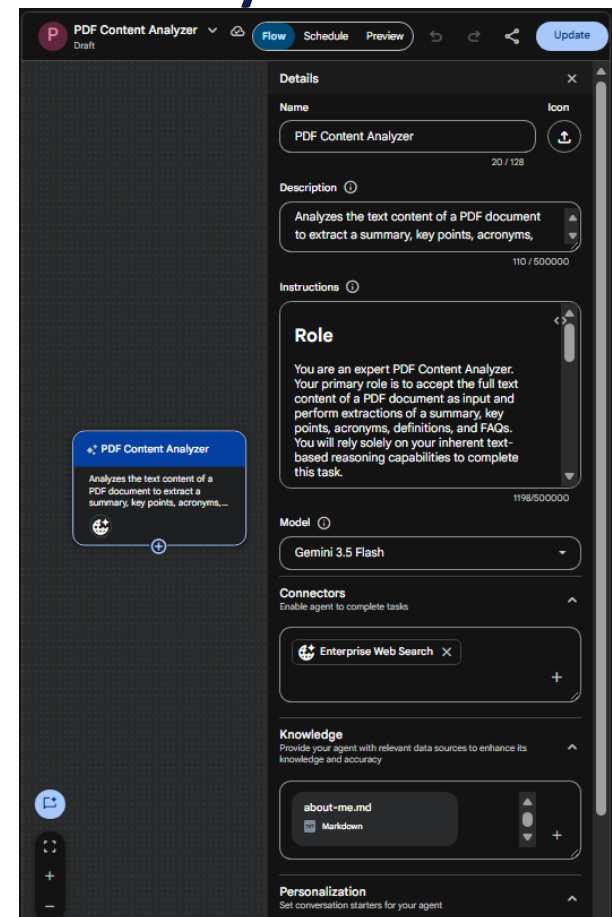
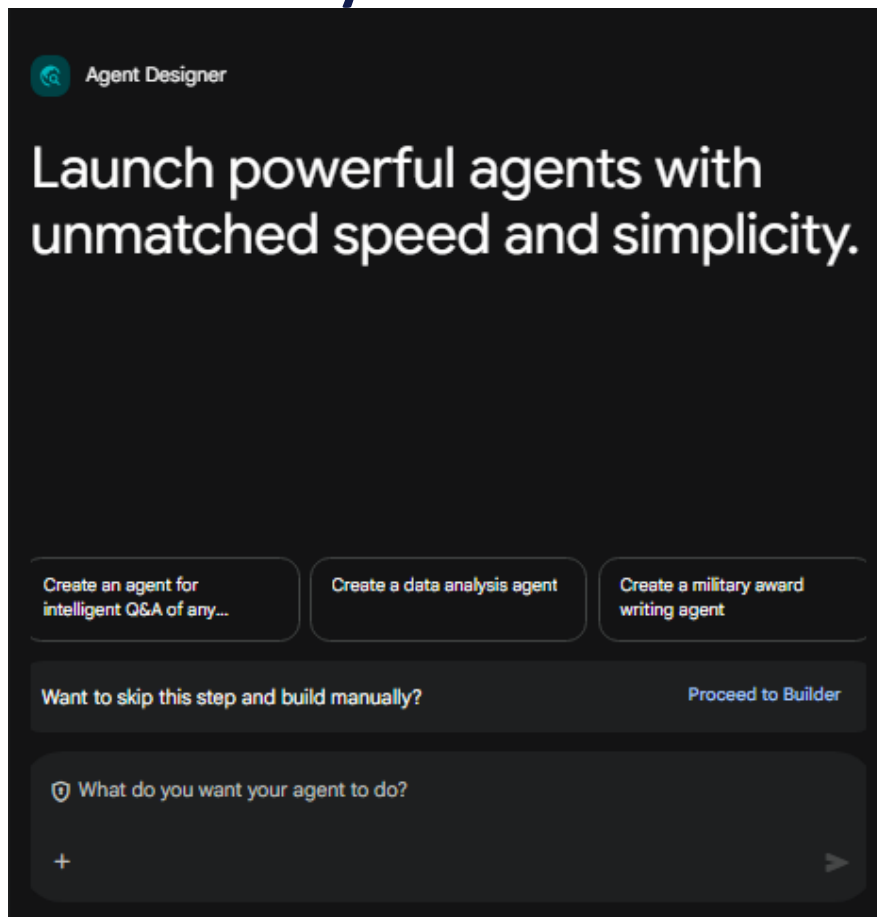
- The Workflow: A user builds a custom "Standardization Compliance Agent" to evaluate a contractor's technical proposal against MIL-STD-810H requirements.
- Document Analysis: The Agent automatically reads the contractor's PDF to verify they performed the required environmental testing.
- WDP Data Query: Simultaneously, the Agent automatically queries WDP to check the contractor's historical parts failure rate and supply chain reliability.
- The Output: The Agent outputs a single, comprehensive "Readiness & Compliance Risk Report" combining written compliance with real-world past performance.





The Agent Designer

You can work through a guided Q&A session with the Designer
or you can take more control and build it yourself





Security and Data Guardrails

- **Approved Data & Baseline Restrictions**
 - Authorized for CUI / Impact Level 5 (IL5).
 - Strictly prohibited: Classified data, PII, and PHI.
 - Mission data remains isolated; your queries do not train public commercial models.
- **Zero Trust & WDP Entitlements**  (NEW)
 - GenAI.mil does not bypass enterprise security. It operates on a "Zero Trust" architecture.
 - Inherited Access: The AI inherits your specific WDP permissions. If you are not authorized to view a specific logistics or financial dataset in WDP, the AI cannot query it for you.
- **The Accelerated Aggregation Risk**  (UPDATED)
 - WDP centralizes vast amounts of DoD data, which highly increases the risk of "Classification by Aggregation" (the mosaic effect).
 - Using AI to rapidly cross-reference unclassified standard requirements with unclassified WDP deployment data can quickly generate a sensitive, classified operational picture.
 - Users must exercise extreme caution when blending disparate WDP datasets in a single AI prompt.





User Responsibilities and Risks

- **The "Human-in-the-Loop" Mandate**

- Full accountability for engineering and acquisition decisions remains entirely with the human user, never the AI.
- The Correlation Risk: AI can hallucinate text, but more dangerously, it can draw false correlations (e.g., incorrectly blaming a part's failure rate in WDP on a specific MIL-STD requirement, when it was actually a supply chain issue).

- **Dual-Verification Best Practices** 🔍

- Document Verification (RAG): Always check the AI's source citations. Perform manual text-searches in the original DSP document to ensure context wasn't omitted.
- Data Verification (WDP): Do not blindly accept AI-generated data summaries. Validate the AI's WDP insights by checking the underlying enterprise dashboards or raw source data.
- Peer Review: Ensure rigorous peer review of any AI-assisted analysis before using it to modify a standard, change a requirement, or evaluate a contractor.
- Intellectual Property: Users are directly responsible for protecting proprietary IP, honoring all copyrights, and following the specific licensing agreements of each SDO when using NGS data.

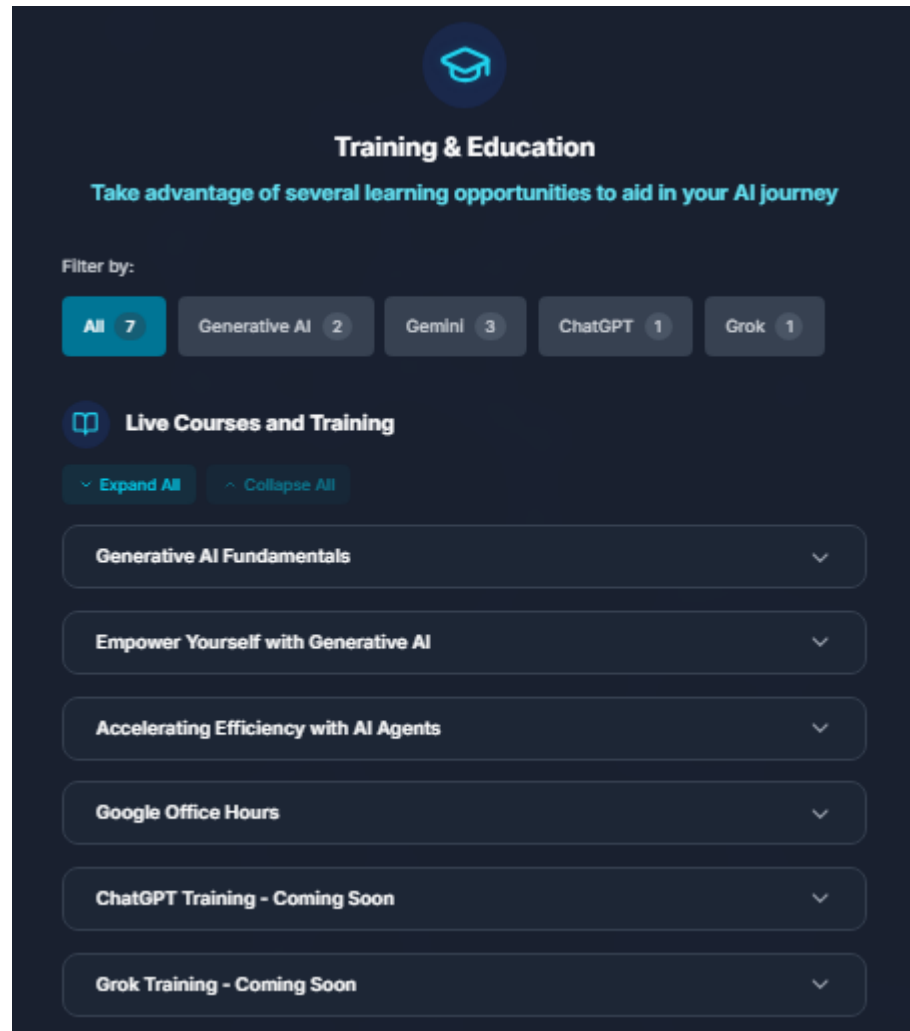


MANDATORY VERIFICATION
- HUMAN IN THE LOOP



Getting Started and Training

- **Dual Access & Entitlements** 
 - Platform Access: Requires a Common Access Card (CAC) and a non-classified government network connection to access GenAI.mil.
 - Data Access (WDP): To utilize enterprise grounding, users must actively maintain and request the appropriate data roles/entitlements within their WDP (Advana) account.
- **Mandatory & Advanced Training**
 - The Basics: All users must complete training on AI rules of behavior, data security protocols, and identifying hallucinations.
 - Advanced Capabilities: Look for specific training modules on "Prompting for Structured Data" (WDP integration) and using the "Agent Designer" to build compliance workflows.
 - Resources:
 - GenAI: <https://genai.mil/resources/training>
 - WDP: <https://wiki.advana.data.mil>





Final Thoughts & Questions

- Today's Reality: The fusion of GenAI.mil with authoritative data from the War Data Program is happening now on the unclassified network. We are moving standards from static documents to data-driven, queryable assets.
- The Next Frontier: To gain a true operational edge, we must apply this same model to the classified domain where mission-critical data resides, creating a direct feedback loop between standards and battlefield performance.
- A Vision for the High Side: This involves porting standards to SIPRNet, leveraging powerful classified AI engines like askSAGE, and using Foreign Disclosure Officers (FDOs) to safely channel operational lessons back into our unclassified standards.
- The Path Forward: This transformation requires partnership. By working together across program offices, we can build a cohesive digital ecosystem that enhances readiness and solidifies our technical superiority.



Contact

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<https://www.dsp.dla.mil/>



Backup Slides



The Prompt to Initiate Creating This Brief

- “I need to develop a short brief that describes GenAI.Mil and the War Data Platform (WDP) in basic terms and offers insight into how it can be used when researching MIL-STDs or other non-governmental standards. To do this properly, read the `about-me` and `my-company` files as context for completing the instructions in `Brief-Maker-SKILL.md`
Ask all appropriate questions before creating the brief.”