



AI Agents: 10+ Use Cases Transforming Defense and Government Contractors

Explore 10+ AI agent workflows that enable contractors to process complex RFPs, generate compliance packages, and validate designs —reducing risk while speeding delivery across programs.

The Secure, No-Code AI Platform for Defense and Government Contractors

In the defense contracting world, precision, security, and documentation discipline define program success. Whether it's preparing proposals for a major contract, coordinating multi-tier subcontractors, validating subsystem designs, or ensuring continuous compliance with evolving DoD standards, teams spend countless hours searching through fragmented systems, reconciling data, and drafting technical reports. These steps are unavoidable, but they drain engineering capacity, introduce risk, and slow delivery across programs.

A secure, on-prem or hybrid-cloud generative AI orchestration platform now enables defense contractors to automate documentation, unify program data, and deliver validated insights instantly. Instead of replacing engineers, program managers, or compliance teams, AI agents work alongside them, analyzing design specs, mapping evidence to NIST controls, validating contract requirements, reviewing procedures, and surfacing mission-critical details buried in technical documents. With the right governance and auditability, teams can trust AI outputs to accelerate decision-making and execution across the acquisition lifecycle. This means faster program cycles, fewer compliance gaps, stronger audit readiness, and more bandwidth for engineers and program teams to focus on delivering compliant, on-time, on-budget solutions.

What are AI Agents?

Unlike basic automation tools or chatbots that rely on static workflows, AI agents in defense settings can securely interact with controlled technical data, design documents, cyber evidence, contract requirements, and compliance frameworks to support day-to-day program execution. They can extract key details from specifications or Statements of Work, classify requirement updates, validate engineering changes, or generate structured materials such as compliance matrices, risk assessments, design gap analyses, or proposal documentation.

These agents don't replace systems engineers, program managers, cyber analysts, or quality reviewers, they multiply effectiveness. By ensuring that the information reaching decision-makers is accurate, validated, and mapped to the correct standards, AI agents eliminate repetitive searches, reduce documentation errors, and speed up coordination across engineering, security, procurement, and mission assurance teams.

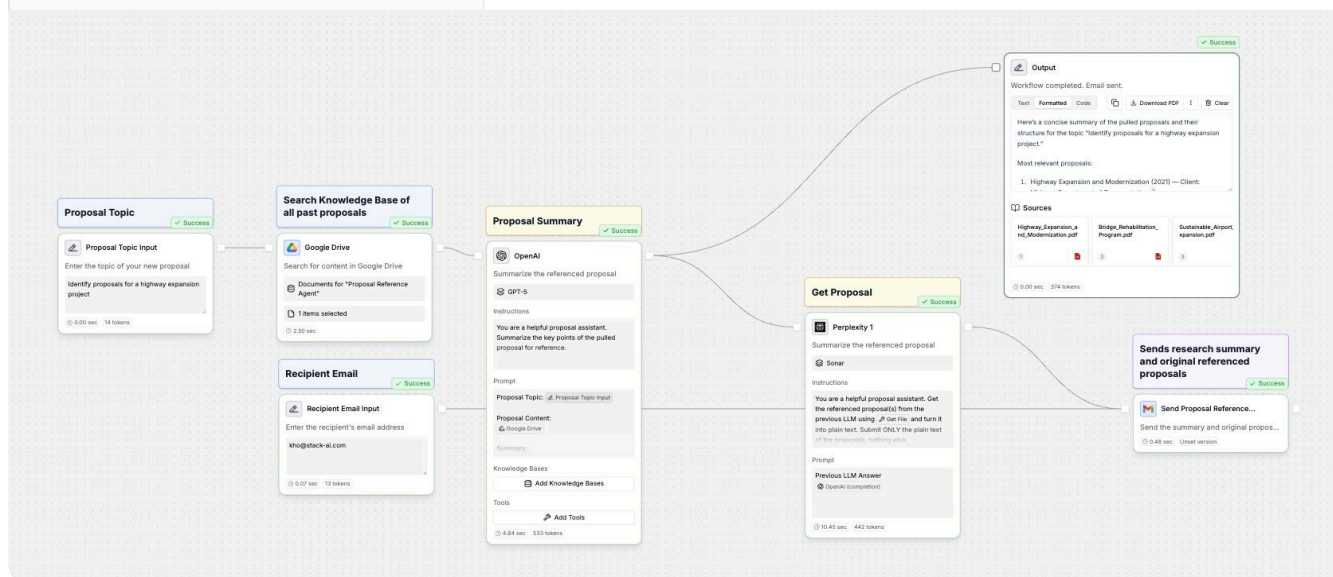
In practice, AI agents translate into faster certifications, tighter requirement alignment, stronger ATO/RMF packages, and a more responsive operational backbone, helping defense organizations deliver mission-critical programs with higher accuracy, lower risk, and greater transparency for government customers.

Proposal and Past Win Reference Agent

Manually searching, summarizing, and sharing relevant past proposals for new project topics is time-consuming and error-prone.

This agent locates, summarizes, and emails relevant past proposals and performance based on a NAICS code to help capture teams achieve more wins.

Who It's For	Proposal Managers, Capture Teams
Results	- Finds and summarizes relevant past proposals - Emails a concise summary and the original proposal documents to a specified recipient
Workflow	- User enters a proposal topic, NAICS code, customer, etc. and recipient email - Workflow searches Google Drive or SharePoint - LLM ranks and summarizes the most relevant proposal(s) - Summary and original documents with rationale and analysis are emailed to the recipient

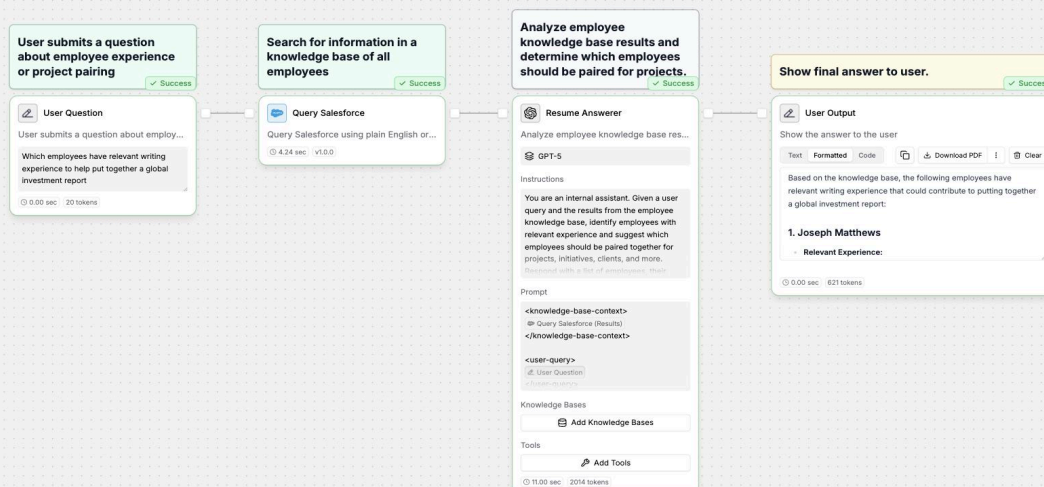


Project Staffing Agent

Identifying teammates with the right experience for specific projects by manually searching through resumes or folders is difficult and time-consuming.

This agent automatically finds and recommends employees with relevant experience for project needs by searching across a knowledge base of employee resumes.

Who It's For	Project Managers, Business Analysts
Results	• Finds employees with relevant experience for a specific need or project • Provides a clear, actionable summary for decision-makers
Workflow	1. User submits a question (e.g., "Who had experience on project code #4890?") 2. Agent queries Salesforce for employee data matching the request 3. LLM analyzes the results and determines the best employees and pairings with rationale

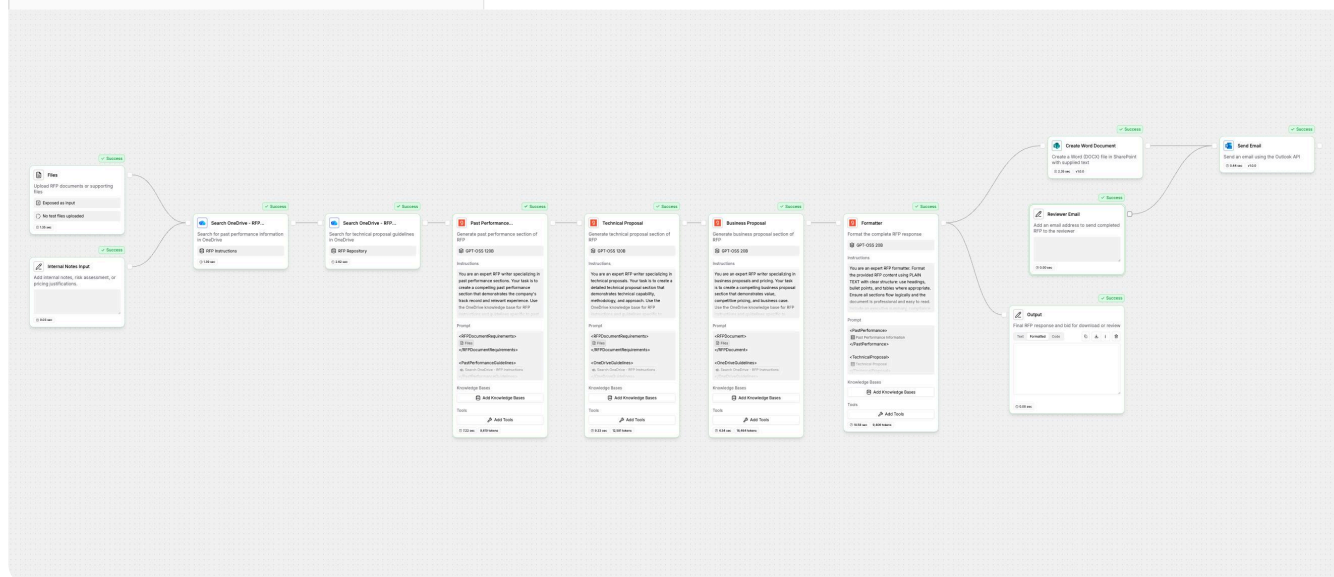


RFP Drafter Agent

Creating comprehensive RFP responses is time-consuming and requires coordination across multiple teams and knowledge sources to ensure completion.

This agent transforms uploaded RFP documents and internal notes into complete, professionally formatted proposals by leveraging organizational knowledge bases.

Who It's For	RFP/RFQ/RFI Writers, Proposal Managers
Results	• Reduces RFP response time from days to hours • Ensures consistency with organizational guidelines and past successful proposals • Automatically incorporates institutional knowledge from OneDrive repositories
Workflow	1. User provides RFP; workflow runs through several knowledge bases of instructions and content 2. Past performance, technical proposal, and business proposal sections are drafted 3. File created and sent to the reviewer via Outlook

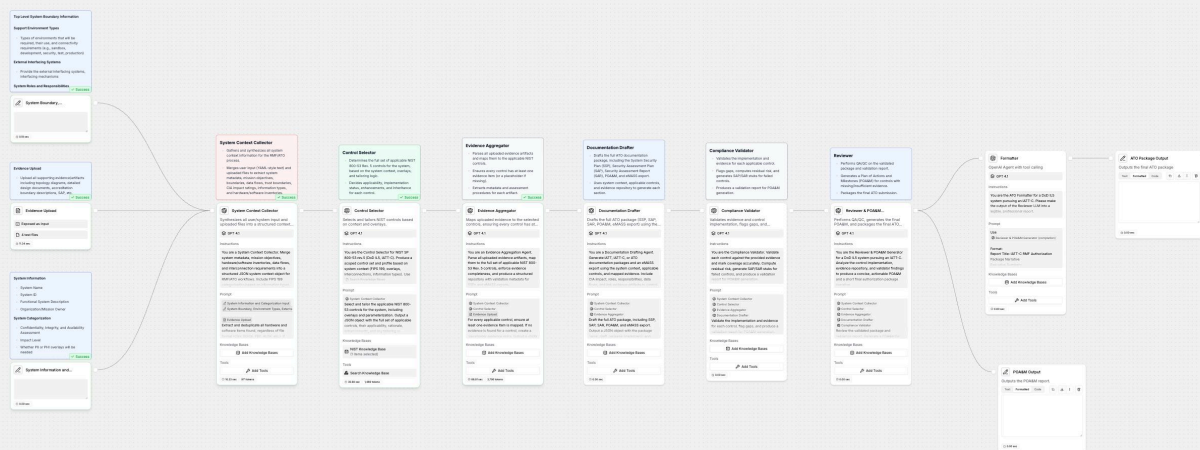


Compliance Package Agent

Preparing a DoD compliance package is an extremely time-consuming, manual process requiring deep expertise in NIST controls, evidence mapping, and more.

This compliance agent transforms system metadata, uploaded evidence, and security requirements into a complete, audit-ready package for DoD systems.

Who It's For	Compliance Managers
Results	• Reduces ATO preparation time to days • Comprehensive NIST (alternatively, CMMC/ITAR/DFARS) control coverage with no gaps • Automatically maps evidence to controls, eliminating manual cross-referencing
Workflow	1. Upload evidence and system information 2. Several LLMs analyzes and extract all key sections, match to NIST controls, draft documentation, and review the evidence 3. Compile results as a polished report

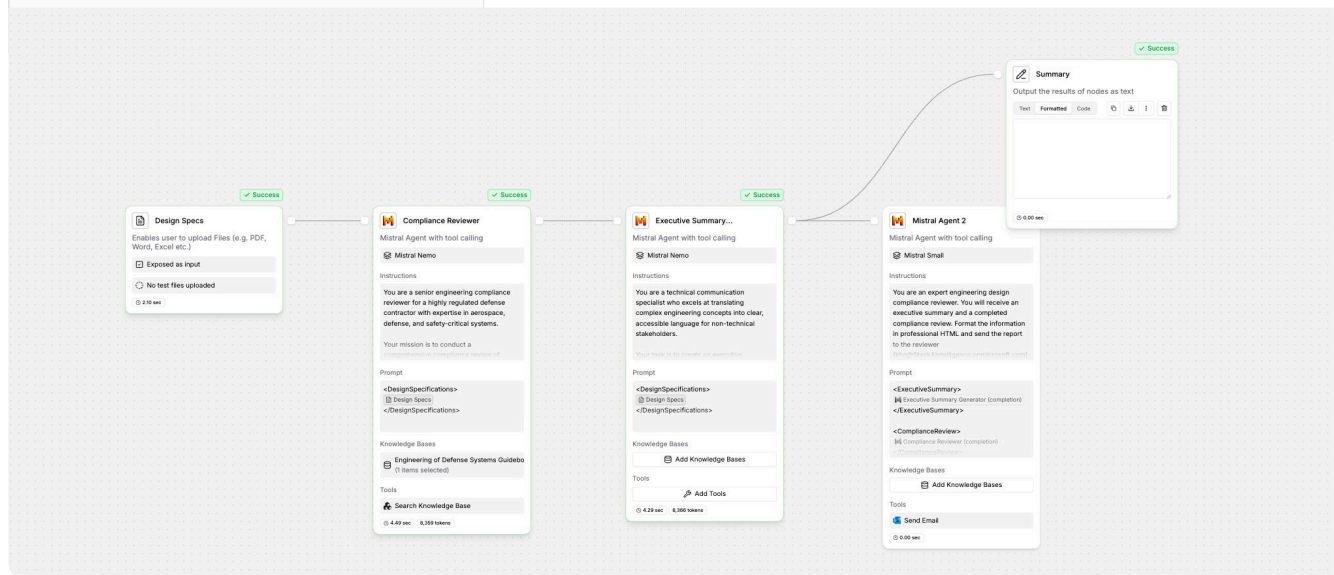


Engineering Design Compliance Agent

Engineering teams spend countless hours manually reviewing design specs against regulatory standards, risking compliance violations and delays.

This AI-powered compliance reviewer analyzes engineering design documents against regulatory standards, generates summaries, and sends reports to stakeholders.

Who It's For	Project Managers, Engineers, Compliance Managers
Results	- Automates hours of manual compliance checking - Ensures no regulatory requirements are missed - Bridges gap between technical teams and business stakeholders
Workflow	- User submits a package of design specs - Relevant documents and knowledge bases (Engineering of Defense Systems Guidebook) are searched and retrieved LLM reviews the specs and reference materials to generate a detailed report; sends it via Outlook

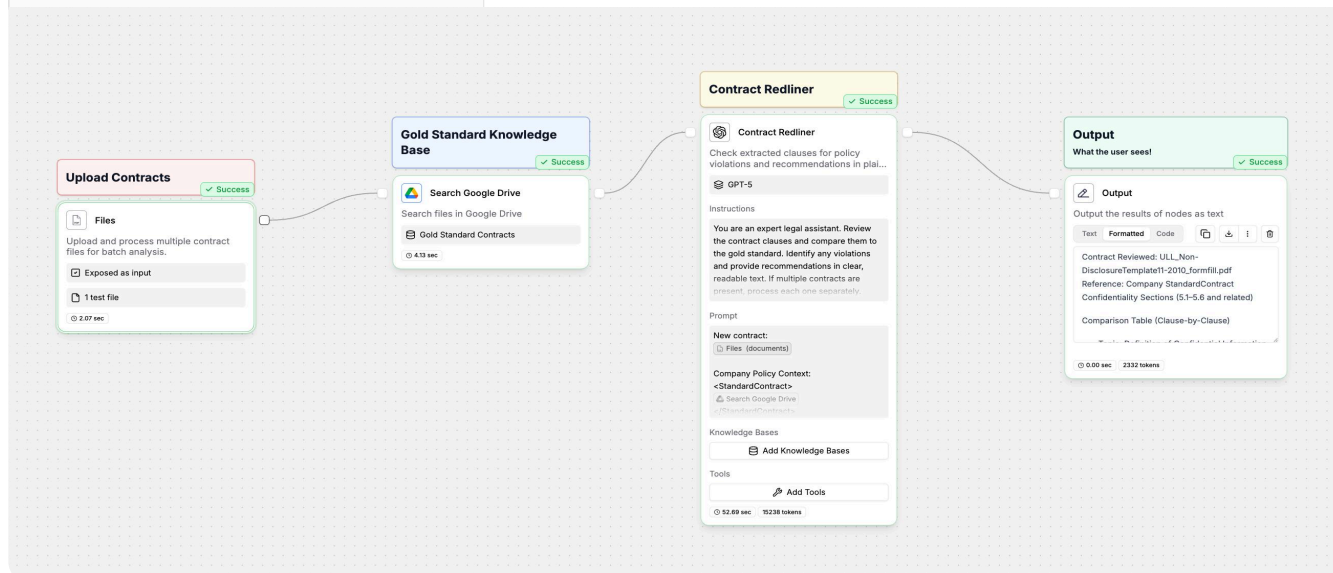


Contract Redliner Agent

Manual contract review is slow, error-prone, and inconsistent, especially when comparing to internal policy or gold-standard templates.

This agent automates the extraction, analysis, and redlining of uploaded contracts by comparing them to your organization's gold-standard policies, securely and efficiently.

Who It's For	Legal Ops Managers, In-House Counsels
Results	• Rapid, automated contract redlining against your gold-standard or policy documents • Clear, actionable recommendations for each contract, highlighting violations and edits
Workflow	1. Upload contract files for batch processing 2. Extract and process contract text 3. Search and retrieve gold-standard clauses from your knowledge base 4. LLM redlines contracts by comparing them to the standard, outputting a side-by-side table



AI Agents for Defense Contractors

Use Case 7: Pricing Compliance Reviewer for Technical Submissions	Problem: Public-sector bids require strict technical/commercial envelope separation. Solution: The agent scans the technical submission, identifies pricing-shaped numbers, and produces a redaction-ready report.
Use Case 8: Software Supply Chain Vulnerability Analysis	Problem: Security teams need to act fast on SBOM/VEX/VDR vulnerabilities, but manual exploitability assessment is slow and inconsistent. Solution: The agent ingests SBOM, VEX, VDR files, analyzes data, and generates a remediation report.
Use Case 9: Classified Document Finder Agent	Problem: Engineers waste time searching secure drives for the right MIL-STD, SOW section, technical order, or drawing. Solution: The agent retrieves the exact controlled document or revision needed, using validated natural-language search across approved repositories (NIPR/SIPR/on-prem).
Use Case 10: Secure IT Support Agent	Problem: Personnel lose operational time waiting for IT to handle routine issues like CAC lockouts and VPN access. Solution: The agent automates Tier-1 IT troubleshooting, escalating only complex cases to human support.
Use Case 11: Safety & Compliance Monitoring Agent	Problem: Safety officers struggle to maintain visibility across evolving regulations, facility requirements, and more. Solution: The agent continuously monitors safety standards, flags deviations, and generates inspection-ready reports.

These use cases are just the beginning.
With StackAI's drag-and-drop interface, white glove support, and 100+ integrations, anyone can build production-ready AI agents.



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