



stackArmor

A TYTO ATHENE
COMPANY 

2025

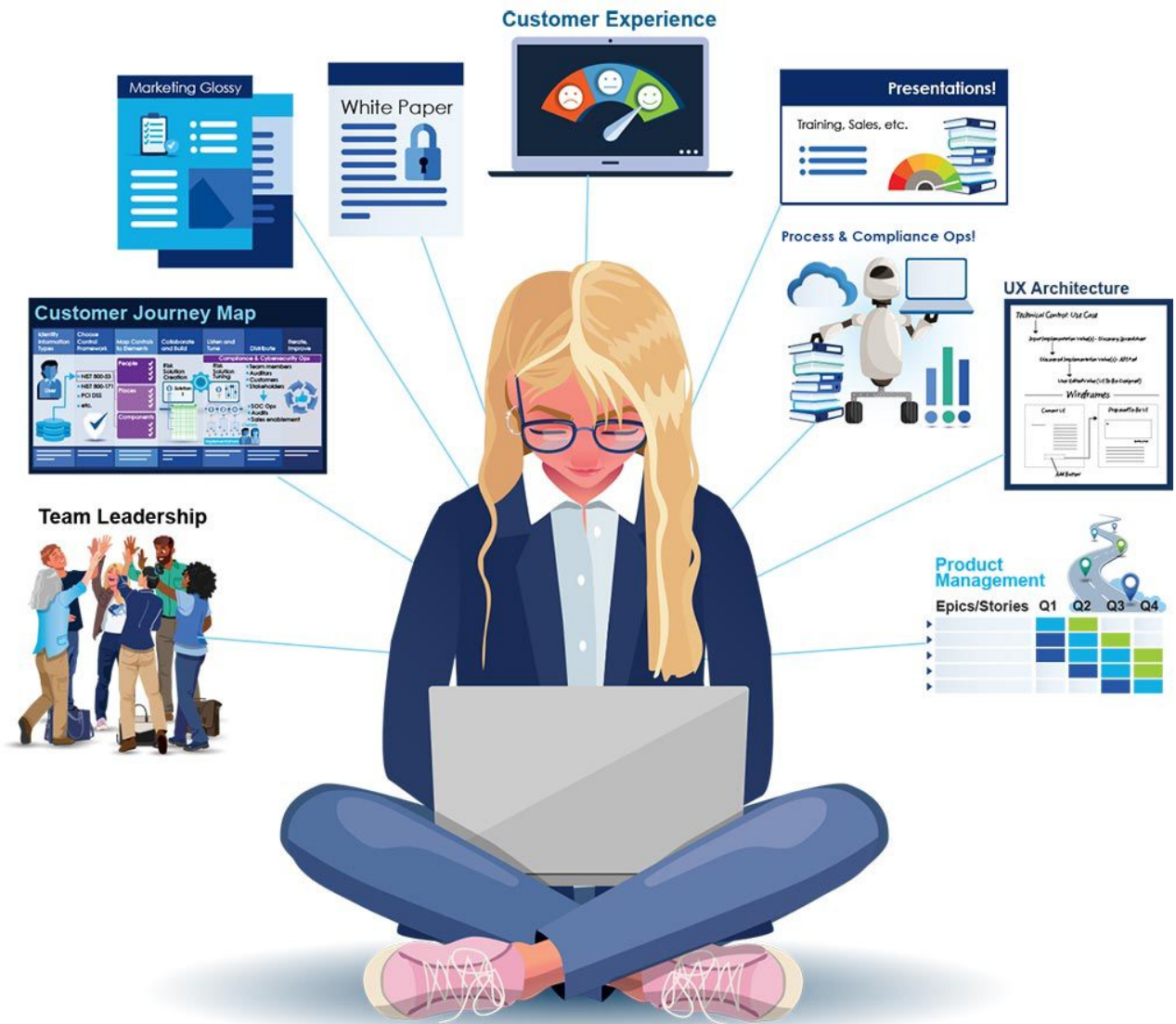
AUG - DEC

Sarah Hensley

Annual Performance Report

Hire Date: Aug 21, 2024

"A jack of all trades is a master of none, but oftentimes better than a master of one."



The contents in this review cover some of the highlights of my work for the last 3 ½ months of 2025. It hopefully represents both the breadth and depth of my continued contributions and value to stackArmor.

Contents | What I Accomplished in the last 3½ Months of 2025

- 2025 Goals | Updates for Aug - Dec..... 4**
- Product Management: Armory Plus 5**
 - Created Many New Versions of Armory Infographics 5
 - Revised Armory Customer Journey Map 7
 - Created a Strategic Armory/TSW Product Roadmap 8
 - Pitched a Strategic Approach to Product Management..... 10
- Engagement Management Leadership 13**
 - Culture of Accountability - Created EM QPR with Reporting Template 13
 - Revised the Engagement Management Playbook..... 15
 - Supported Gecko as “sA Assessment Lead” Through 3PAO Assessments..... 16
 - Supported Gecko (and Qanapi) as Primary EM..... 17
 - Created Architecture Justification Paper for Gecko 18
 - Produced Architecture Implementation Paper for Gecko 19
 - Produced IoT vs Boundary Illustration for Gecko..... 19
 - Held Critical Retrospective on Gecko post Build Phase (with Interactive Miro Board) 20
- Customer/User/Employee Experience 22**
 - Took Initiative to Create a Delightful CX Through a Monthly Customer Newsletter 22
 - Maintained End-to-End stackArmor Journey Maps 26
 - Continued CX Program with NPS-Based Customer Satisfaction Tracking 27
- Marketing & Content Development..... 28**
 - Created Multiple Ad Mocks When the Marketing Agency Couldn’t Hit the Mark..... 28
 - Produced Polished, Professional White Papers x2..... 29
 - Created stack/Tyto Integrated Logo Mocks for GP 36
 - Designed Multiple Blog Header Graphics..... 37
 - Raised the Professionalism Bar by Creating Many Bespoke, Original Illustrations..... 39
 - Visual and Textual Content Development for Blogs 41
 - Supported Tyto Sales with an Inscom “White Paper” 44
 - Created Another New Armory 2 Pager..... 45
- Professional Growth 46**
 - Attended Visual Storytelling Workshop..... 46

2025 Performance Highlights = stackArmor's ROI



NPS of 9.1 for reporting customers is considered an "exceptional" score for those customers, with 9.2+ being "world class."

Doubled the team size my first year, and fought hard to repair morale, build a culture of accountability, establish adequate onboarding and training support, and prevent turnover.

Provided leadership & delivered consistently in all of these roles:

- CX Thought Leader
- Product Manager
- Engagement Manager
- Marketing "Director"
- Technical Writer
- Graphic Artist

100s of Illustrations
 4 Journey Maps
 Company Intranet
 2 White Papers
 10+ Glossies
 10+ Arch Diagrams
 4 Quick Ref Guides
 7 Newsletters
 8 Blogs
 EM Playbook
 Product Roadmap
 Product Strategic Plan
 CX/EX Program
 CX/Ops Analysis Tool
 Multiple Trainings
 Company Brand Guide
 & Many More...

Out of My Pocket: (What I paid for that solely or primarily benefits stackArmor)

- Stock Art Subscription
- 2 AI Tool Subscriptions
- sA Branded Shirts for Tradeshow
- Flipbook Subscription
- PDF Reducer Subscription

Gave the company 15+ months of man hours in my first 12 months, and continued the trend working through much of my holiday PTO time.

2025 Goals | Updates for Aug - Dec

These are my original 5 goals that I fully delivered on by my anniversary date of Aug 21, 2025 (removing the couple that members the c-suite cancelled and the ones for my first 3 months of employment). This shows that I actually continued to deliver against them, plus a whole lot more.



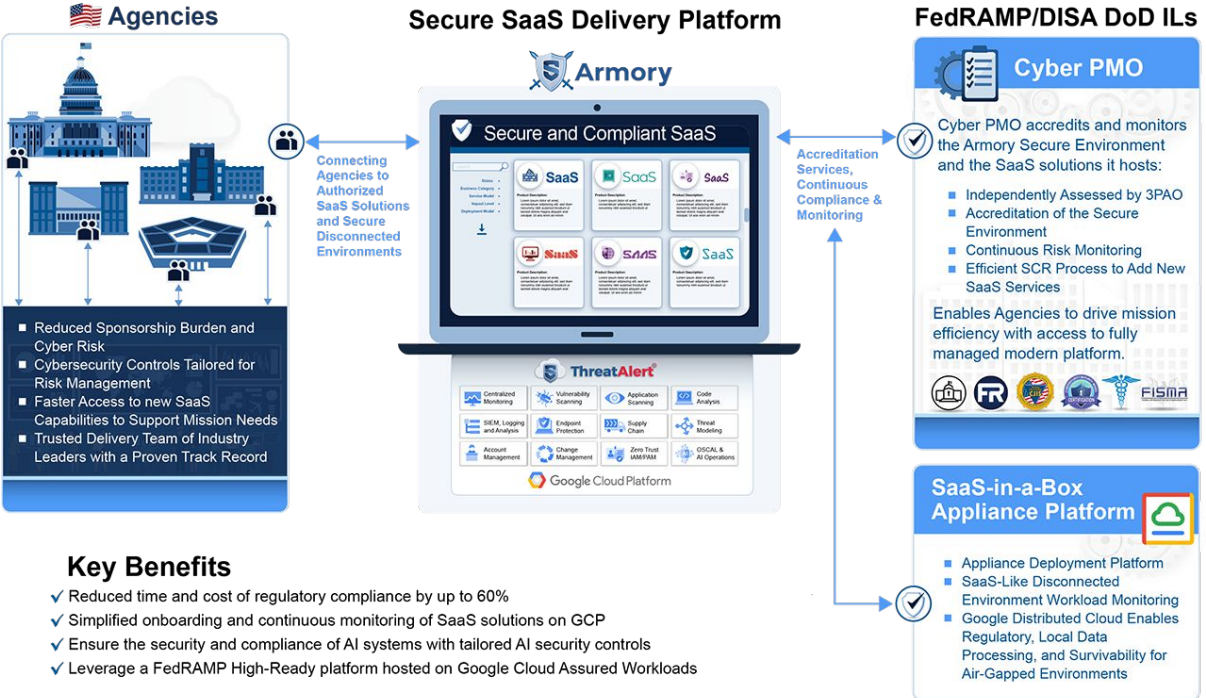
Goal	Status	Ref Links
1 Establish a Clear Description of the Customer Journey for stackArmor Service Offerings	Completed all 3 – by Jan 2025, updated multiple times throughout the year.	pg. 26
2 Establish the customer journey map for Armory as a part of product management	Completed pre August 21, and updated in Dec 2025.	pg. 7
3 Create Armory Program Management Guide and PMO Establishment	Completed pre August 21, and did a follow-up Product Management Presentation with Tyto to try to energize and get buy-in from the team on the need for product management.	pg. 10-12
4 Author at least 3 blogs or articles for publishing (ask from GP)	Completed (3 newsletters before Aug 21), then authored 4 newsletters and edited/designed 5 blogs (with Johann) from Aug-Dec, in addition to 2 massive white papers.	pg. 22-25, 29-34, 41-43
5 Establish Clear Branding and Definitions around stackArmor IP and Offerings (ThreatAlert Security Workbench, Security Toolbox, Serverless Relay, Container Scanner, etc.)	Completed, and did additional work on this goal for GP by creating a set of combined stack/Tyto logos, and building out a series of ad mocks that are now being re-created by marketing using my mocks.	pg. 36

Product Management: Armory Plus

Created Many New Versions of Armory Infographics

Versions of original vectors created to visually communicate Armory deployment models and Armory's role in serving government agencies.

- All vector art, with multiple versions created for GP in the fall to support various engagement opportunities.
- Some of the content is re-use, some is new.



Key Benefits

- ✓ Reduced time and cost of regulatory compliance by up to 60%
- ✓ Simplified onboarding and continuous monitoring of SaaS solutions on GCP
- ✓ Ensure the security and compliance of AI systems with tailored AI security controls
- ✓ Leverage a FedRAMP High-Ready platform hosted on Google Cloud Assured Workloads

More Armory Illustrations that Help Communicate Complex Concepts

I illustrated this vector image to show how machine-driven system evaluations (e.g. query driven assessments) are architected.



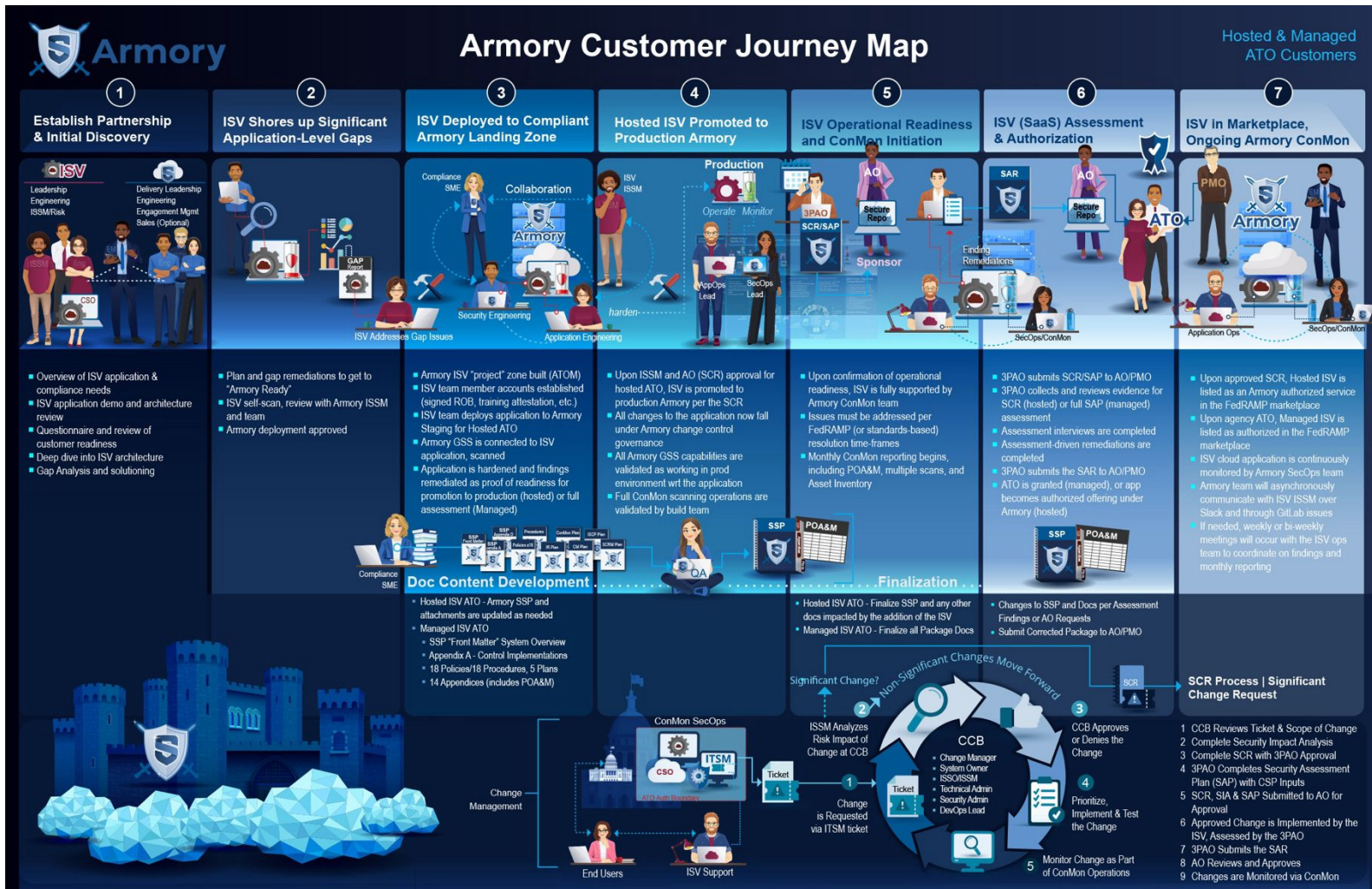
This glowing Armory logo is actually a complex vector illustration that I created for one of the white paper covers.



Revised Armory Customer Journey Map

Made updates to the draft of the Armory customer journey map based on evolving FedRAMP and Armory variables.

- *Journey Map is a key artifact of product managers and UX architects.*
- *Created a combined Hosted/Managed map – we may want to break these out.*
- *Image at the bottom was illustrated as well*



Created a Strategic Armory/TSW Product Roadmap

Built a prioritized product roadmap to highlight priority strategic capabilities we need to be considering.

- This has Epic level, strategic capabilities vs the “feature backlog” roadmaps
- We are missing the boat in thinking our only competitors are other services orgs as security products are expanding their compliance management capabilities.
- Our dev folks have discussed having no guidance as to feature prioritization.

Armory/ThreatAlert Working Roadmap

For the purposes of this roadmap, “ThreatAlert” means the whole tech stack - The dashboards, scripts, playbooks, connections, and connected commercial tools that work together for the purpose of establishing, maintaining, and monitoring solutions to adhere to regulatory cybersecurity standards



Epic	General Capability	Description	Value/Benefit (Who Cares and Why?)	Q1 2026	Q2 2026	Q3 2026	Q4 2026	Q1+Q2 2027	Q3+Q4 2027	2028+
Risk Management App Front-End GUI Designed for Efficiency, Clarity and Error Prevention	(Obfuscating GitLab at least 1 layer below being “the” layer) Design Risk Management Application Front-end - this is DESIGN only, no build	Using Focus Groups (Analysts and ISSMs), iterative design for a Risk Management Application Front-end (between the user and GitLab).	Improved UX especially for analysts, ISSMs and compliance managers, reduced training time/need to learn our complicated way of using GitLab, improved compliance, etc. GitLab is an ITSM tool built to track trouble tickets - not designed to support complex risk management, incident response and robust compliance operations. We’ve figured out how to make GitLab to a lot of things, but the more we establish “workarounds” that push the limits of the GitLab interface, the less user friendly it becomes. We are digging a hole.	X	X					
Risk Management App Front-End GUI Designed for Efficiency, Clarity, and Error Prevention	Build Beta Version of TBD Risk Management Application Front-end/GUI	First version of the to-be SecOps Management application “smart GUI”, whose elements are structured specifically to guide users to make better risk-based decisions without requiring them to search for instructions. moves GitLab one layer below.	This will significantly improve the usability and as a result, effectiveness and perceived value of our ThreatAlert tool - translating what currently exists in rules and playbooks into a (mostly) machine-guided human experience.			X				
Risk Management App Front-End GUI Designed for Efficiency, Clarity, and Error Prevention	Deploy/GA Release of Risk Management Application Front-end/GUI	First version of the to-be SecOps Management application “smart GUI”, whose elements are structured specifically to guide users to make better risk-based decisions without requiring them to search for instructions. moves GitLab one layer below.	This will significantly improve the usability and as a result, effectiveness and perceived value of our ThreatAlert tool - translating what currently exists in rules and playbooks into a (mostly) machine-guided human experience.				X			
Multitenancy	Establish Multitenant Deployment Architecture	Establish a true multi-tenant solution for ThreatAlert and the Armory where Armory tenant data (or customer tenant data) and reports can be viewed and reported on uniquely.	Enable functional and extensible SecOps and significantly reduce the LOE for onboarding and supporting Managed Armory customers. In addition, once we have this model architected, it’s a model that can be sold directly to government agencies wanting to run their own multi-tenant SecOps. (Currently, to support Armory tenants (including managed ATOs who need operations and reports that reflect only the information about their system), the POA&M end reports have to be manually edited to remove data about other systems.	X	X					
Multitenancy	Build Beta Version of TBD Multi-tenancy version of Armory for testing	First version of the to-be multi-tenant architecture where the data and status of all “tenant” systems (hosted and managed) can be viewed uniquely, without touching the information about other tenants.	I believe this will become a sticking point for the government - especially DOD - and should be a priority item. Even for hosted tenants, we should have the ability to view their system data (vulnerability data, scan data, inventory data, POA&M data, future compliance validation data, etc.)			X				
Multitenancy	GA Release of TBD Multi-tenancy version of Armory for testing	Releaseable version of the to-be multi-tenant architecture where the data and status of all “tenant” systems (hosted and managed) can be viewed uniquely, without touching the information about other tenants.	I believe this will become a sticking point for the government - especially DOD - and should be a priority item. Even for hosted tenants, we should have the ability to view their system data (vulnerability data, scan data, inventory data, POA&M data, future compliance validation data, etc.)				X			
ATOM Front End (“Productized ATOM)	Establish a GUI-driven ATOM/system deployment application front-end	Anywhere we are using CLI, we might consider something less raw that actually guides users	(I see this as lower priority as this is one of the last things any external user would need to be able to do)				X			
ATOM Front End (“Productized ATOM)	Beta release/testing of the GUI-driven ATOM	Anywhere we are using CLI, we might consider something less raw that actually guides users	Puts the machine more in charge, reduces human error, protects against missed steps, etc.					X		
ATOM Front End (“Productized ATOM)	GA Release of the GUI-driven ATOM	Anywhere we are using CLI, we might consider something less raw that actually guides users	Puts the machine more in charge, reduces human error, protects against missed steps, etc.						X	
Customer Feedback Portal	Establish customer input portal and formalize a feature prioritization process	Establish a public-facing portal (could also have an in-boundary portal) to give users an easy way to share feedback.	This can be combined with a bug bounty input portal - giving our customers a lower friction way to share their ideas or issues. They can always enter a system specific request, but it would be better to have a broader review of issues since features one customer wants are often things others also want.	X						
Make Playbooks Easily Exportable	Make playbooks exportable in Word or PDF format as a first step	Currently, there is no real training or manual to help our SecOps and security engineers understand our tooling. This is a step-1 (in what needs to be a multi-step journey) toward translating the gold buried within our “application” to a format better designed for human consumption.	Online guidance and content is excellent and needs to remain relevant, but isn’t a great primary approach to supporting new users struggling to use our tooling. Lots of studies show a significant decline in cognition for things read online versus on paper. It’s just a fact - as much as we’d like for digital content to be all we need. For ready subject matter and complex instructions, jumping around through links and wading through complex playbooks isn’t the ideal for human users. In addition, Markdown is literally a different language, with unique syntax - increasing the cognitive load even more, and reducing the chances that users will find and understand what they need.	X						
“Smart” Playbooks - giving users complete set of actions per use case (GUI or Artifact Output)	Build a model (possibly AI) to better leverage playbooks - that can query all playbooks and return a complete guide for common use cases in actionable format	Currently, users must navigate pages of content and follow multiple links, requiring them to synthesize large amounts of information.	Money saved directly (less training needed) and indirectly (less re-work, fewer mistakes, more efficient SecOps team). Also, increased customer satisfaction, improved customer experience, reduced LOE required for new employee onboarding. Reduced user-error created problems.			X				
Flexible “Service Bus” Tool Connector Platform (e.g. API Bus)	Architect/Design a more robust connector platform that makes tool or capability plug-and-play more feasible	Establish a modernized version of a Service Bus that makes plug and play for specific commercial tooling and/or capability modules easier and faster.	There is tremendous value in removing dependencies on any specific commercial tool, and establishing a construct that cares less about specific tools and more about ingesting or collaborating with various types of commercial tools or capabilities as a part of a flexible “GSS” stack. This can reduce the cost of delivery, remove barriers related to competitor conflicts, remove vendor lock-in, and better evolve within the broader cybersecurity landscape.	X						
Flexible “Service Bus” Tool Connector Platform (e.g. API Bus)	Build a more robust connector platform that makes tool or capability plug-and-play more feasible	Establish a modernized version of a Service Bus that makes plug and play for specific commercial tooling and/or capability modules easier and faster.	There is tremendous value in removing dependencies on any specific commercial tool, and establishing a construct that cares less about specific tools and more about ingesting or collaborating with various types of commercial tools or capabilities as a part of a flexible “GSS” stack. This can reduce the cost of delivery, remove barriers related to competitor conflicts, remove vendor lock-in, and better evolve within the broader cybersecurity landscape.		X					
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Machine Compliance Status Verification (ASA - Automated Security Analyst)	A machine-executable verification of compliance posture	This is already in the works with early versions of ASA	This kind of capability is fundamental to FedRAMP 20x and future-proofing our approach to risk management and compliance	X						
Machine ConMon Report Creation (Customer Friendly)	Not sure where we are with this - Customer friendly, professional, intuitive report	This is already in the works I believe...		X						



Slack Canvas to Track the Roadmap

I have created a Slack Canvas for the strategic roadmap in the stackArmor internal Armory Slack channel to encourage team collaboration on the roadmap! (Above is the header image for the roadmap Slack canvas - presentation matters!!!)

Roadmap | Summarized, Epic Level Prioritization

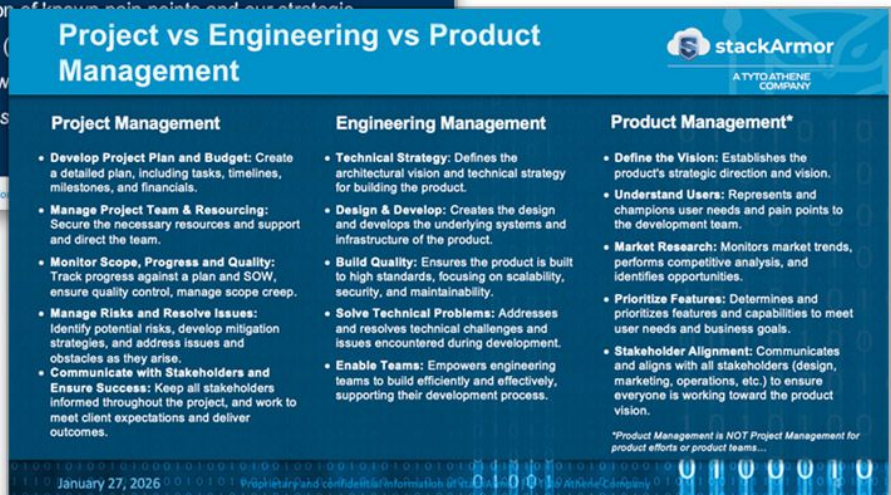
(This doesn't yet contain the latest RFC requirements - but contains critical capabilities to help future-proof our offering in a strategic manner - addressing issues that will increasingly limit our ability to scale and succeed including critical security (multi-tenancy), usability and vendor lock-in issues.)

Epic	General Capability	Description	Value/Benefit (Who Cares and Why?)	Priority
Risk Management App Front-End GUI Designed for Efficiency, Clarity, and Error Prevention	(Obfuscating GitLab at least 1 layer below being "the" layer) Design Risk Management Application Front-end	Using Focus Groups (Analysts and ISSMs), finalize a design for a Risk Management Application Front-end (between the user and GitLab) - then build iteratively getting user feedback throughout.	Improved UX especially for analysts, ISSMs and compliance managers, reduced training time/need to learn our complicated way of using GitLab, improved compliance, etc. GitLab is an ITSM tool built to track trouble tickets - not designed to support complex risk management, incident response and robust compliance operations. We've figured out how to make GitLab to a lot of things, but the more we establish "workarounds" that push the limits of the GitLab interface, the less user friendly it becomes.	1
Multitenancy	Establish Multitenant Deployment Architecture	Establish a true multi-tenant solution for ThreatAlert and the Armory where Armory tenant data (or customer tenant data) and reports can be viewed and reported on uniquely.	Enable functional and extensible SecOps and significantly reduce the LOE for onboarding and supporting Managed Armory customers. In addition, once we have this model architected, it's a model that can be sold directly to government agencies wanting to run their own multi-tenant SecOps. (Currently, to support Armory tenants, including managed ATOs who need operations and reports that reflect only the information about their system, the POA&M and reports have to be manually edited to remove data about other systems. I believe this will become a sticking point for the government - especially DOD - and should be a priority item. Even for hosted tenants, we should have the ability to view their system data (vulnerability data, scan data, inventory data, POA&M data, future compliance validation data, etc.)	1
Customer Feedback Portal	Establish customer input portal and formalize a feature prioritization process	Establish a public-facing portal (could also have an in-boundary portal) to give users an easy way to share feedback.	This can be combined with a bug bounty input portal - giving our customers a lower friction way to share their ideas or issues. They can always enter a system specific request, but it would be better to have a broader review of issues since features one customer wants are often things others also want.	1
Make Playbooks Easily Exportable	Make playbooks exportable in Word or PDF format as a first step	Currently, there is no real training or manual to help our SecOps and security engineers understand our tooling. This is a step-1 (in what needs to be a multi-step journey) toward translating the gold buried within our "application" to a format better designed for human consumption.	Online guidance and content is excellent and needs to remain/exist, but isn't a great primary approach to supporting new users struggling to use our tooling. Lots of studies show a significant decline in cognition for things read online versus on paper. It's just a fact - as much as we'd like for digital content to be all we need. For heavy subject matter and complex instructions, jumping around through links and wading through complex playbooks isn't the ideal for human users. In addition, Markdown is literally a different language, with unique syntax - increasing the cognitive load even more, and reducing the chances that users will find and understand what they need.	1
Flexible "Service Bus" Tool Connector Platform (e.g. API Bus :))	Architect/Design a more robust connector platform that makes tool or capability plug-and-play more feasible	Establish a modernized version of a Service Bus that makes plug and play for specific commercial tooling and/or capability modules easier and faster.	There is tremendous value in removing dependencies on any specific commercial tool, and establishing a construct that cares less about specific tools and more about ingesting or collaborating with various types of commercial tools or capabilities as a part of a flexible "GSS" stack. This can reduce the cost of delivery, remove barriers related to competitor conflicts, remove vendor lock-in, and better evolve within the broader cybersecurity landscape.	1
Machine Compliance Status Verification (ASA - Automated Security Analyst)	A machine-executable verification of compliance posture	This is already in the works with early versions of "ASA"	This kind of capability is fundamental to FedRAMP 20x and future-proofing our approach to risk management and compliance	1
Machine ConMon Report Creation (Customer Friendly)	Not sure where we are with this - Customer friendly, professional, intuitive report to replace weekly and monthly SecOps manual reports	Need SecOps reports designed for ISSMs and humans who aren't necessarily spending all day in our tool stack (they have lots of other responsibilities)	Machine-generated dashboards or reports are low-hanging fruit, since we already have all of the data needed. Working with analysts we can create actual reports that summarize the most critical information instead of expecting customer teams to wade through GitLab alone and synthesize the data themselves. This would be a huge win, and add significant perceived value (and stickiness) to our customer base - as well as being a great sales tool to convince prospective customers that we make it "easy".	1
"Smart" Playbooks - giving users complete set of actions per use cases (GUI or Artifact Output)	Build a model (possibly AI) to better leverage playbooks - that can query all playbooks and return a complete guide for common use cases in actionable format	Currently, users must navigate pages of content and follow multiple links, requiring them to synthesize large amounts of information.	Money saved directly (less training needed) and indirectly (less re-work, fewer mistakes, more efficient SecOps team). Also, Increased customer satisfaction. Improved customer experience. Reduced LOE required for new employee onboarding. Reduced user-error created problems.	2
ATOM Front End ("Productized ATOM)	Establish a GUI-driven ATOM/system deployment application front-end	Anywhere we are using CLI, we might consider something less raw that actually guides users	(I see this as lower priority as this is one of the last things any external user would need to be able to do) - Puts the machine more in charge, reduces human error, protects against missed steps, etc.	3

Pitched a Strategic Approach to Product Management

Built on my original strategic product management plan - presented on product management to stack/Tyto leadership to try to get everyone invested and on the same page.

- Re-visited mission, vision, resourcing, and path forward
- Updated my SWOT analysis from the original (standard for strategic plan)
- Established “what’s next” since original plans were shelved
- Clarified Project Management v Engineering Management v Product Management to try to fix these being conflated



Pitch for Strategic Approach to Product Management Continued...

Where We Are Today - Do We Have a "Product"?

We have designed and developed a growing suite of modules, all with specific purposes, capabilities, feature backlogs, and release dates. We are reliant on having the latest version of this specific suite of modules, in addition to a stack of commercial tools, to deliver cybersecurity engineering and compliance services to our customers – so we do have a product. It doesn't have to be commercially available or offered externally as a product per se. So in this way, YES, we have a product – and at this point, it comes in 3-ish flavors. And while our product users are primarily internal, they are increasingly external as customers want more autonomy and flexibility to manage their systems with our "product." This is our product (or product suite):



- Threat Alert Platform – Products + Services
- ThreatAlert Security Workbench (TSW)
 - TSR (ThreatAlert Security Reporting)
 - TST (ThreatAlert Security Task Scheduler)
 - TCS (ThreatAlert Security Compliance Scanner)

Further, with 20x, we've rapidly increased the speed with which we can build "product" – making it increasingly difficult to support if we don't act

1/27/26

ThreatAlert Security Workbench I Cybersecurity Management Platform

Dashboard, Security Lens, Common Lens

Overview Draft

ATOM - ATO Machine I ISV Secure Environment Establishment

TCS - Container Scanner I Container Monitoring

TSR - ThreatAlert Security Reporting & Analytics Generation

TST - ThreatAlert Security Task Scheduler

TSW - ThreatAlert Security Workbench

Product Core Messaging

Why? The Armory is a purpose-built General Support System (GSS) and managed services offering that lowers the barrier to entry for FedRAMP and other regulatory compliance standards for Cloud Service Providers (CSPs) – especially those that are smaller or have emergent technology solutions and need a path to save the federal market. It provides all the compliance, documentation, audit and architecture support to get CSP systems Authorized to Operate (ATO).

Why? The Armory was built to bring software solutions to the federal government with lower cost and lower management effort and CSPs and agencies, while maintaining the integrity of the risk posture and compliance operations of cloud solutions.

How? The Armory does this through the machine-aided generation of an accredited environment (using ATOM for Google) and deployment boundary architecture for AWS and AWS Lambda with a feature-rich tech stack of expertly deployed state-of-the-art cybersecurity tools. The tools stack includes commercial off-the-shelf (COTS) solutions selected and configured to meet specific NIST 800-53 subcategory controls, stackArmor's proprietary ThreatAlert tooling that extends the capabilities of COTS tools by automating security operations and findings management (FIM), as well as providing additional automations around container scanning (TCS), multi-tenant relay from SEM solutions to Armory Alerts (with additional support for incidents) (TSR), and Common reporting/FedrAMP program Common artifact generation. (Monitors with The Armory customer cloud CSPs or government off-the-shelf (GOTS) cloud solutions are able to be incorporated, assessed and maintained to FedRAMP, DOD IL, FISMA, CMMC, and other regulatory standards.

When? The Armory paves the road to compliance for commercial CSPs that don't have the experience or resources to navigate the FedRAMP process – and therefore are missing out on the opportunity to serve federal agencies in meeting their missions.

Who's in it for Customers? Built on top of Google Cloud Platform, this future-defining solution provides coverage for roughly 80% of FedRAMP baseline controls for federal agencies and CSPs, leveraging extensive degrees of automation and machine-driven findings management to act as a force multiplier for security operations teams. The remaining 20% of controls, including documentation package development and audit support, is further delivered by stackArmor expert services and SME reach-back – for 100% control support coverage. Combined with stackArmor's SME services, the Armory customers receive significant support for 100% of the controls on the FedRAMP baseline, allowing CSPs to focus instead on their application and customers.

Armory Product Positioning

Competitive Differentiators:

- First (US Only) High-Google Accelerator Platform
- Armory is an evolved solution based on 12+ years of service learned deploying ThreatAlert on AWS
- Turn-Key Program (Do-Be Capability)
- User Friendly, Common Management UI (To-Be Capability)

Core Capabilities:

- Access Control, Account Management
- Threat Modeling
- Continuous Monitoring
- Vulnerability Scanning
- SIEM Logging and Analysis
- Container Hardening
- Endpoint Protection
- Supply Chain
- Zero-Trust

Core Benefits:

- Reduced time and cost of compliance
- Increased security posture
- Improved operational efficiency
- Enhanced customer satisfaction

Key User Profiles (Internal & External):

- Architects
- Security analysts
- Security engineers
- ISSM

Secondary User Profiles:

- Assessors
- PMO
- Agency AOs

Armory Brand Guide (We Do Have One)

Armory Customer Journey Map

1. Establish Partnership & Initial Discovery
2. ISV Shows up Significant Application-Level Gaps
3. ISV Deployed to Compliant Armory Landing Zone
4. Hosted ISV Promoted to Production Armory
5. ISV Operational Readiness and Control Initiation
6. ISV (Back) Assessment & Authorization
7. ISV in Maintenance, Ongoing Armory Continuation

Armory Offering Today: SWOT Analysis

Original presentation: Oct 1, 2024
Current presentation: Oct 2, 2025

STRENGTHS

- Tons of experience with compliance, FedRAMP, the PMO, 3PADs, and Engineering
- Significant experience delivery ComMon services
- Reputation as leaders in this industry
- Phenomenal engineering skills and commitment to build the right solution (Added some new automations)
- Excitement over the future prospects
- Existing waiting customer base – we have customers!
- No real GCP competitors
- 20x Pilot participants, with some early wins in the things 20x is looking for

WEAKNESSES

- No Sponsor
- Lack of GCP experience – unknowns of building a new product with new tech (don't know what we don't know)
- Lack of experience being a product company (can't be managed like billable services engagements)
- Lack of recent experience building/running a compliance program as an authorized vendor (not like other stackArmor engagements)
- Limited team resources, no-SSAO, no-PMO, no test team or ARB, no formal strategic roadmap, many resources are task switching
- Loss of Asa
- Communication gap between what we do and how others/the PMO perceive what we do

THREATS

- Boiling of PMO, 3PADs and other variables that impact promised delivery timelines
- Unknowns of new future and 20x assessment standards
- Significant (ongoing) disruptive FedRAMP changes
- Multiple competitors across other clouds – and our competitors are also now focused on automation
- Pending Election (DOGE) – induces caution in spend
- Current economic environment
- Lack of buy-in from ISVs that want their logo in the marketplace

OPPORTUNITIES

- Noone is great at CX in this arena, so we could make that a differentiator (if we put intention into it)
- AI – being on the ground floor means we can design and build what customers want and need!!
- "Automation" for many non-tech controls (e.g. IR, PS, IR, AT) would be a big differentiator and close a gap
- Being first to market with the GCP cloud plus targeted marketing could result in a really big win
- OSCAL Automation – our component approach and 20x POC automations makes us a leader

1/27/26

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Pitch for Strategic Approach to Product Management Continued...

Industry Trends or Known Pain Points

Things that will help inform strategic decisions...

- Automation and machine-driven capabilities for anything that can be automated is going to be key to survival
- Architecturally, hyper-converged "appliance" model solutions are being replaced with decoupled API/service and query-based models where capabilities are initiated and content accessed on the fly as needed
- Analysts are missing issues (missing POA&M items) to failure to fully leverage the capabilities
- Customers (ISSMs and Operators) have asked for sessions to figure out playbooks – where our value is
- Customers want options in security tools (e.g. GitLab)
- Employees have repeatedly asked for more training on newer tech (which an intuitive "product" would help with)
- Customers frequently ask for specific compliance

Output: (other issues?)

January 27, 2026

Proprietary and confidential information of stackArmor

Roadmap Epics to Consider

(I am aware some of these have been on the radar, or exist in early draft versions)

- Risk Management App Front-End GUI Designed for Efficiency, Clarity, and Error Prevention (to address GitLab usability)
- Multitenancy Architecture
- ATOM Front End ("Productized" ATOM with an intuitive Turbotax-like GUI)
- Establish customer feature request/input portal (with a review board and prioritization process)
- Make Playbooks Easily Exportable (using AI?)
- "Smart" Playbooks – Guidance is Baked into a GUI
- Flexible "Service Bus" Tool Connector Platform
- Machine Compliance Status Verification
- Machine ConMon Report Creation (Customer Friendly)



What's Next?

- Agree to some "intentional" actions to shift to a product mindset where the "what" (product strategy and UX) matter as much as the "how" (tactical and engineering brilliance)
- Schedule blue-sky brainstorming meeting(s) to discuss (and eventually prioritize) key strategic features?
- Establish a product management recurring (monthly) innovation meeting to track progress against plans and coordinate against our mission – identifying single topics per meeting as well to review architectural plans: e.g. architecture to support current (multi-tenant) customers, architecture for increased interoperability (removing dependencies), architecture for future automations and AI, architecture for scalability, architecture for usability, etc.
- ?

January 27, 2026

Proprietary and confidential information of stackArmor

Questions?

Thank You

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Engagement Management Leadership

Culture of Accountability - Created EM QPR with Reporting Template

To build and model a culture of accountability focused on CX - I established a quarterly program review for the EM team.

- Held our first QPR in September.
- Will hold our next QPR in February.

EM Quarterly Program Review (QPR)
September, 2025 | Sarah Hensley

January 27, 2026

Customer Engagement Overview

Customer Name	Build or ConMon	Engagement Length (mos)	Relationship Status (R-Y-G)

Customer 1 Name | NPS: 9

Relationship Meter

Significant Issues/Risks

- Issue 1
- Issue 2

Retention Plan | *What are we doing to ensure a "sticky" customer experience*

Proactive Retention Activity	Details/How	Status
1 Relationship Building	Communicating with customers in a way that feels more personal	
2 Proactive Communication	Contacting customers about potential problems before they notice	

Customer 2 Name | NPS: 9

Relationship Meter

Key Success Factors for

- Thing 1 that we need to be off/pay attention to
- Thing 2 that we need to stay off/pay attention to

Things I Need Help With

- Thing 1

Significant Issues/Risks

- Issue 1
- Issue 2

Retention Plan | *What are we doing to ensure a "sticky" customer experience*

Proactive Retention Activity	Details/How	Status
1 Relationship Building	Communicating with customers in a way that feels more personal	
2 Proactive Communication	Contacting customers about potential problems before they notice	
3 Responsive Service	Fast, and helpful responses to customers' inquiries or issues	
4 Provide Continuous Improvement	Update on Tickets with tracker if needed	
5		
6		

Key Success Factors for This Customer

- Thing 1 that we need to be on top of/pay attention to
- Thing 2 that we need to stay on top of/pay attention to

Things I Need Help With/Ideas For

- Thing 1

Growth Plan | *What opportunities do we have to meet more of their needs?*

- Opportunity 1
- Opportunity 2

January 27, 2026

EM Quarterly Program Review Continued...

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Things I'm Doing With/About AI

If Anything

- **Thing 1 (e.g. Signed up for a Coursiv session)**
 - SubNote
 - SubNote

January 27, 2026

Key Focus Areas for Next Quarter

- Thing 1
- Thing 2
- Thing 3

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Thank You

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6

Revised the Engagement Management Playbook

Revised the Engagement Management Playbook I authored to switch tasks to checklists, adding an appendix that lists all checklists across each phase in an engagement.

- The playbook is a foundation for onboarding, training, job description creation, cross-team collaboration and role clarification.
- This has provided structure and standardization to the EM role.
- Current version is located on the CX/EX Intranet Site.

Customer Engagement Management Playbook

Managing Engagements the stackArmor Way
Edition 1.3, Oct 2025

Contents

- Welcome to the Team! 2
- Our Mission: 2
- Our vision: 2
- Working Job Description 3
- Customer Engagement Manager Job Tasks: 3
- Key Skills: 4
- Journey Map 1: Sales Phase 6
- Journey Map 2: Compliance Acceleration/ATO Phase 7
- Journey Map 3: Compliance ConMon Phase 8
- Engagement Management: Expectations Across the Journey 9
- Engagement Management Resources 33
- SharePoint Sites 33
- Intuit TSheets – Time Keeping 33
- Box Customer Repositories 33
- SmartSheet Gov Customer Project Plans 33
- Delivery and ConMon Playbooks, Tasks 34
- Onboarding Checklist 35
- Pre Start 35
- Day 1 35
- Week 1 36
- Engagement Management Playbook Tasks Q&A 38

Compliance Acceleration & ATO Phase
8 – ATO Engagement Kickoff

- EM hosts the kickoff meeting, presents stakeholders, project overview, project scope, initial schedule, CSP Documentation request list, high level RACI (TBO) and next steps (compliance covers Mandates, NIST families, delivery covers tech stack, SCLC).
- EM records call, posts recording in External Box folder.
- Post meeting completion tracking of the following (with a follow up email): stakeholder registry, providing CSO access to Box/Slack, guiding CSO to upload their docs (provide the list), complete/upload discovery questionnaire, establishing discovery session coordination.
- Schedule discovery sessions with CSO and internal SA team. Validate the status of or inform CSO of the need to submit the CSP Information Form to FedRAMP if this hasn't been done (this will get them a FedRAMP package number).
- Update the project Resource/ATO tracker (SharePoint) - a weekly task.

EM Job Task Checklists Across the Journey

- Offering Establishment & Validation**
 - Inputs to sales about areas of opportunity as perceived by those working in the field.
 - Feedback from customers to inform product backlog, technology decisions, automation needs, etc. (Can be feature ideas or frustrations. (Team to stand up a "permanent" employee feedback portal which we could provide as a link in a feedback corner in each customer's external Slack channel.)
- BD, Sales & Marketing Campaigning**
 - Generate blogs related to things like Customer Engagement Management best practices, service delivery with skilled advisors, lessons learned, etc.
 - Customer relationship management - the best marketing is word of mouth, and engagement managers play an important role in ensuring a great customer experience through responsiveness, proactive support, communication, transparency, and being the customer's advocate.
- Customer Pipeline Establishment**
 - Collaboration and "up-sell" internal new opportunities communicated to sales related to specific opportunities identified through customer interactions and observations.
- Prospect Qualification & Sales Navigation**
 - Sales support for discussions around day-in-the-life for to-be customers or operational processes. (Where a EM could provide this testimony in support of a sales conversation).
- SOW/Contract Negotiations**
 - Engagement Management team is informed to prepare for pending resource needs.
 - Review of SOW commitments and timelines for each pending engagement, and provide recommendations based on lessons learned to ensure continuous improvement in SOW language.
- Signed SOW**
 - Engagement Management team informed of contract start date, discuss to determine best coverage option.
 - Engagement Manager assigned to new contract, reaches out to sales with any initial questions.
 - Handoff/handshake meeting scheduled with delivery team. (This meeting is normally scheduled by the EM, but can be scheduled by sales. It must be attended by the sales rep, EM and delivery team.)
- Handshake with Delivery, Prep Work**
 - Engagement Manager reviews signed SOW (One of the main jobs of the EM is to manage to the SOW to ensure we deliver what was promised, yet control any scope creep.)
 - Engagement Manager schedules an internal review of the contract to cover required deliverables with each of the teams involved.
 - Relationship Management - Establish initial relationship with ISV PM (normally via email intro by sales).
 - Kickoff deck created - using SOW, collab with delivery team on technical details and schedule.
 - Schedule and hold an internal team debrief call with the assigned team members pre-kickoff. This meeting is where the team assigns who owns what slides during the kickoff, and reach a team consensus on the path forward.
 - Internal/External Slack Channels and Box Folders (Discovery Tech Docs, Boundary Diagrams, Meeting Notes/Recordings, Compliance Docs) established.

Supported Gecko as “sA Assessment Lead” Through 3PAO Assessments


Took on the lion’s share of the work quarterbacking the 3PAO assessment, which has been quite chaotic - has provided great insights into ways we can improve.

- I became the translator between engineering and EIT with our first trial of AI-collected evidence. (image below is just one of many communications I drove to help pave the way)
- This has been a particularly challenging engagement, with team members - many of whom are less than cooperative.
- So far, I believe we’ve salvaged our relationship with the customer - fingers crossed.

Example of many communications between me and all parties involved in the assessment:

Technical Evidence

Gecko Robotics, Oct 24, 2025



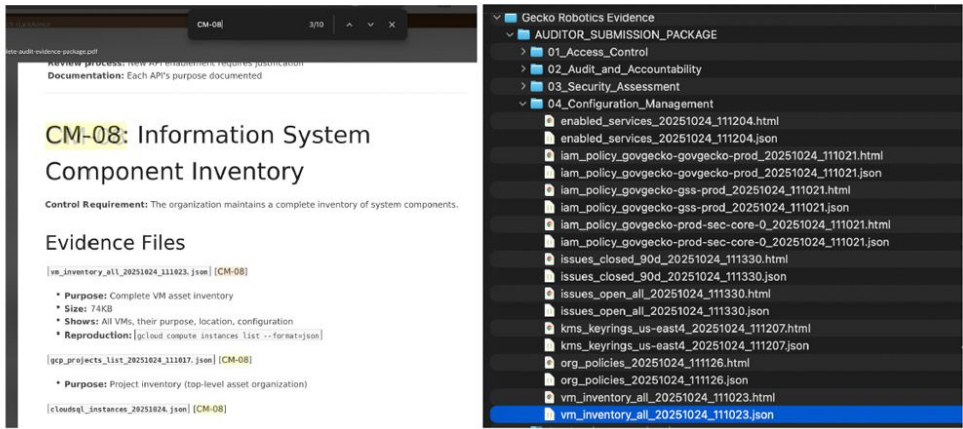
The engineering team has gathered evidence and made it available in an automated fashion using an API – which should make it easier to review. Everything the team needs to review this evidence is laid out in the attached pdf file that is in the Ext CSP-Evidence Box folder:

[govgecko-complete-audit-evidence-package.pdf](#)

All the evidence findings can be viewed using ctrl+f/cmd+f search in the pdf on mac or on chrome (any browser) on windows. It has all been automated via the API from gecko gitlab/gcp. The jsons were also converted to html for most of the items so they can be viewed in a browser with timestamps. The webpage can also be searched as well if the team would rather not view json files.

Example:

As an example, doing a control search the CM-08 allows the team to see the json/html evidence files or html which can be clicked to review the evidence.



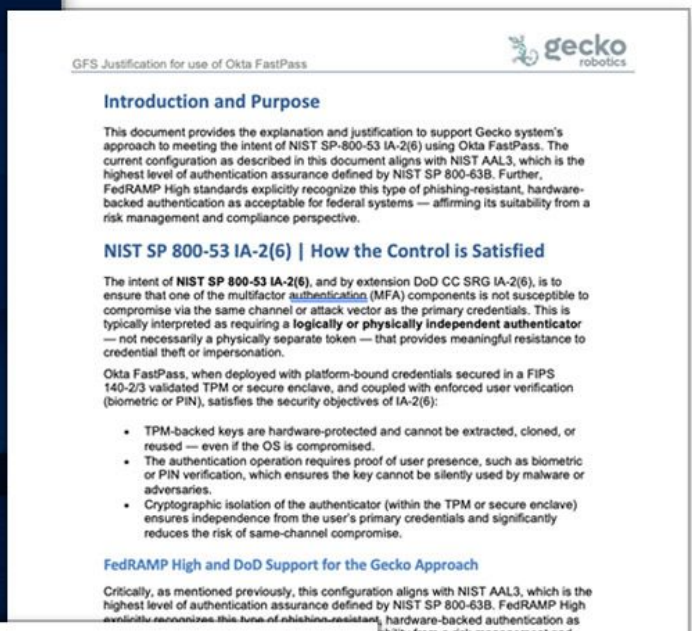
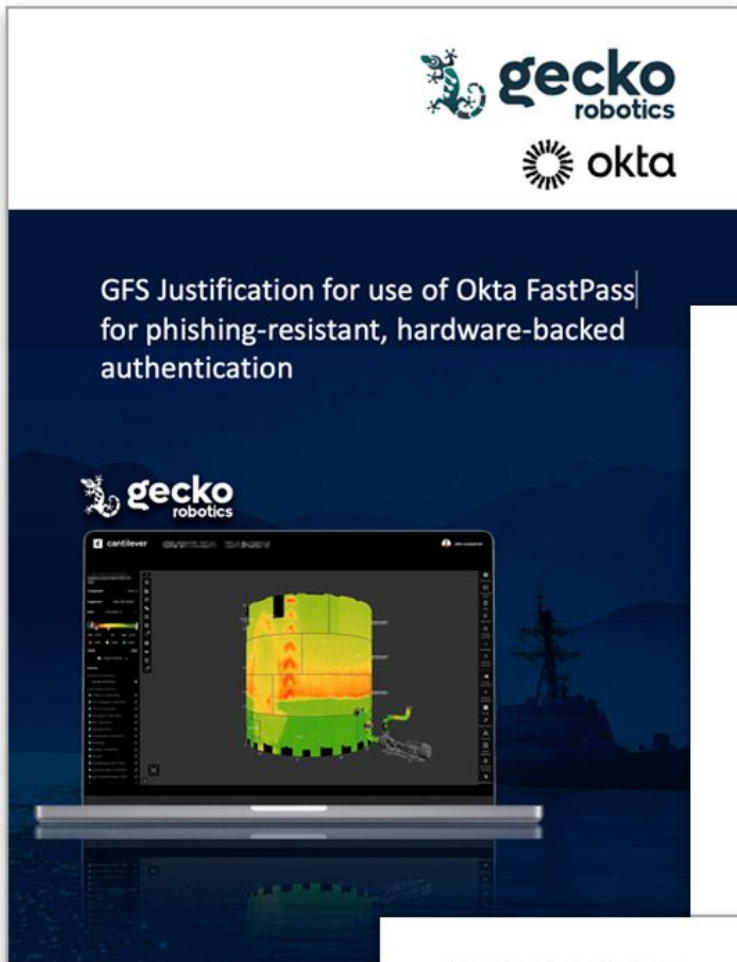
Let me know if you have any questions or issues, and we would be happy to jump on a quick call to make sure you’ve got everything you need!

Sarah

Supported Gecko (and Qanapi) as Primary EM

Provided white glove advisory support to both, but more for Gecko, investing to help expand our work with them.

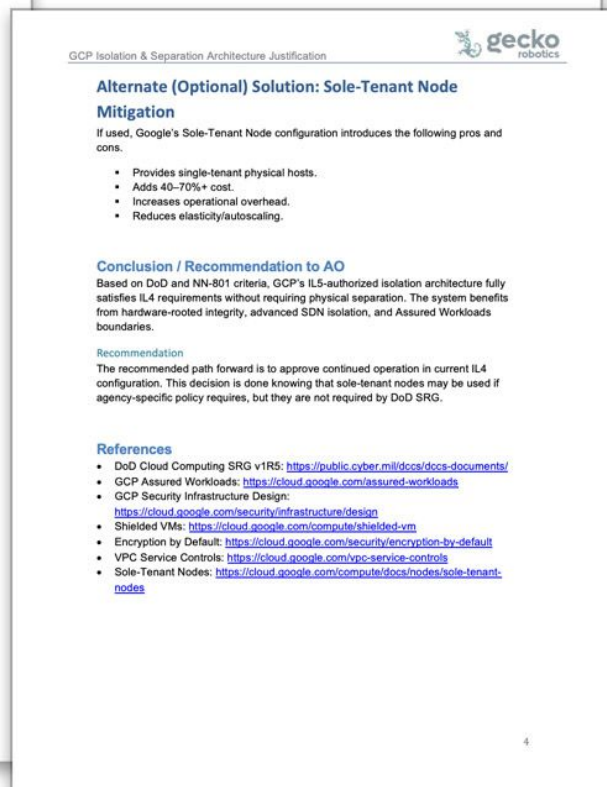
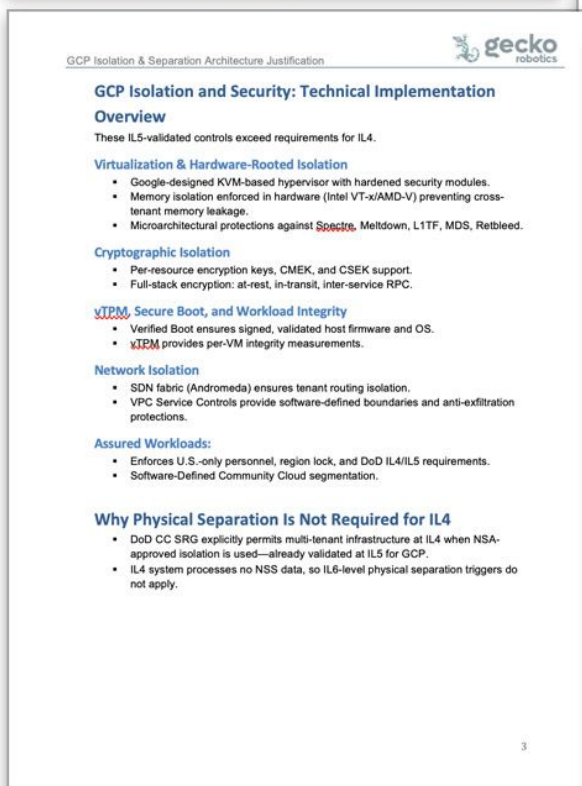
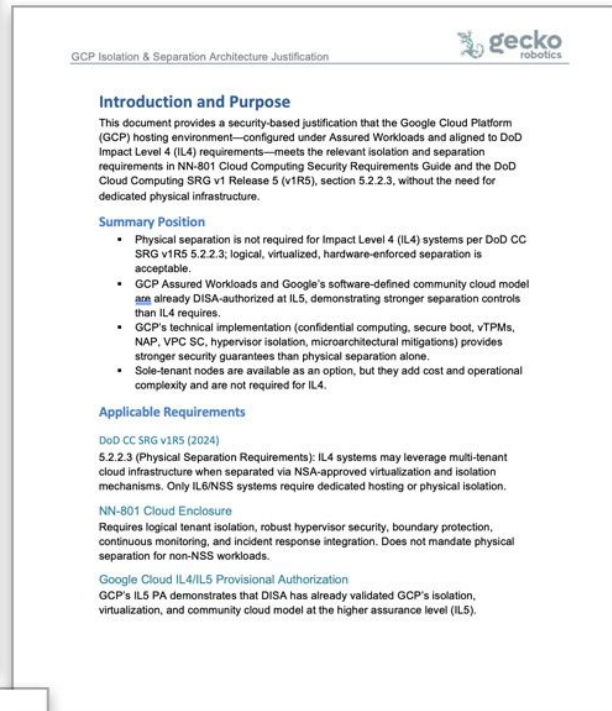
- Produced FastPass Justification paper with content from team
- This doc was to help Gecko address a finding with EIT, and attempt to prevent the need for additional tooling changes (e.g. Yubikey)



Created Architecture Justification Paper for Gecko

Provided white glove advisory support to Gecko, investing to help expand our work with them.

- Produced GCP Isolation paper with content from the team to help get approval on their solution architecture for their “AO” (BPMI)



Produced Architecture Implementation Paper for Gecko

Provided white glove advisory support to Gecko, investing to help expand our work with them.

- To support their exchanges with BPMI, put together this paper to articulate their architecture.
- Illustrated their robot as a CX “plussing” opportunity

gecko robotics

Gecko | An Approach to Implementation

a visual/paper on end-end security of Gecko's system:

Story (IL4+ path):

We run an IL-4+ cloud environment. Customer data moves from inspection laptops/edge devices to the IL-4+ GFS environment. Data is encrypted throughout.

Field hardware is under strict physical controls (restricted access, chain-of-custody, tamper-evident sealing), and data at rest is encrypted with a FIPS 140-3-validated module. All transfers are encrypted in transit.

Compensating control: For this workflow, given the strength of our physical and access controls, we're proposing to defer Secure Boot and TPM and document this as a compensating control. Residual risk is covered by custody controls, full-disk encryption, and end-to-end FIPS-validated TLS; we'll capture this in the POA&M.

IL-4 COMPLIANT EMATT

Gecko Robotics Federal Network Architecture

The diagram illustrates the network architecture, including components like External Services, Authorization Boundary, and various network nodes. It shows data flow from external services through an authorization boundary into the internal network, which includes various servers and services. A legend at the bottom right provides additional details about the components.

Produced IoT vs Boundary Illustration for Gecko

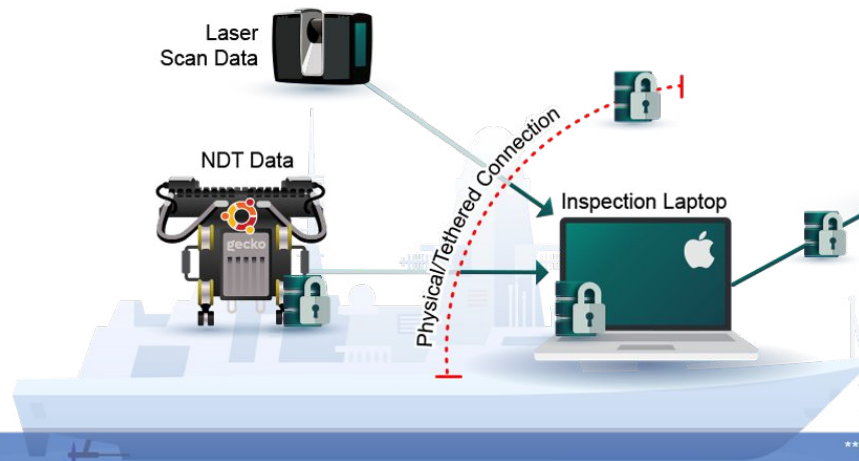
Illustrated a specific concept for Gecko to help them communicate clearly how IoT devices are outside of the boundary.

- Gecko was having difficulty getting their potential sponsor to understand how the various sensors and IoT devices fit into the broader secure boundary
- The illustration helped them get their sponsor to a “yes”!

Secure Deployment Architecture: Data Collection | Inspection | Application

Field Data Collectors & Sensors

Data Collection & Inspection (Limited Pre-Processing)



NRP CAF* Environment

Data Application




*Nuclear Reactor Program Cloud Authorization Framework (NRP CAF) Environment

** (IL4+ based on DoD CC SRG v1rev3-5 updates)

Held Critical Retrospective on Gecko post Build Phase (with Interactive Miro Board)


Taught myself Miro, and used it to create an interactive retrospective board used with the team to identify lessons learned.

- Gecko is a project that is unfortunately defined by lessons we must learn and not repeat.
- This approach worked great, and allowed us to generate action items that are still being implemented.




Retrospective


Gecko Robotics GCP Build Effort 2025



What Went Well
The highlights of this build effort; things that went well & we want to repeat



What We Tripped Over
Things we wish we knew at the start or didn't do well that we need to address



Actions
How can we make the next GCP build effort go smoother?

Good direction from Josh and leads	All parties worked together in support of one another and solve problems
Very well with last minute requests (BPMI) - thanks Rene!	Teamwork! :)
Great help on the architecture side to support the build	Diving in and learning OTJ works well (until it doesn't :))
Team did great growing through the chaos and without having mature guidance - and this also resulted in a more robust learning experience	Team did well cleaning up mess

Needed more guidance to execute SecOps meetings with this system	Experienced resources - lots of new hires which proved challenging
Wasn't standard build, but build + SecOps at the same time (didn't follow a traditional project plan path...)	First Armory deployment not in Armory, caused struggles (lack of experience)
ATOM is different, everything is different, and we underestimated the impact of that	Need to make sure when 3PAO engagement happens. Need to be invited to the meeting. (issue - customers don't necessarily know what we need to be included in.)
Move into ConMon - needed ConMon benchmarks (in ConMon 4-6 weeks without being able/prepared to do ConMon)	Need to be able to focus on supporting the customer setup and scanning, establishing their ISSM skills, so the GSS issues needed to be resolved before go-live
Get build architects involved earlier in the process versus learning huge amounts on an active project (involve earlier in solution vision and design discussions)	documentation updates don't match the speed of changes in the system/development (doc info doesn't keep up)
Due to rapid nature of this project's changes, there could have been more/better communication.	No "checklist" or smooth transition to ConMon
Unrealistic deadlines (on the customer side)	Struggled with a really non-traditional project plan and customer expectations. So knowing this effort would be more "agile" didn't really help us know how to proceed.

Armory review/ deployment with our internal teams - GCP ONJ training and actual training	ConMon benchmarks must be implemented at onset of ConMon (can't deploy? That's an indicator...)
When we go live, we need to be ready on the GSS side even if the customer isn't. (fully leverage automations)	When need to run through Tereform automation several times, truly make it as smooth as ATOM
More testing to identify gaps in documentation or code issues (ATOM for AWS - Ed deployed 100x, so it was vetted. Automated testing as well)	Invest in maturing the SDLC around GCP like we have for AWS
Better leadership alignment around product maturity, resourcing, team capabilities, what we are selling. Need better informed decisions. (Go/No Go Calculator) - also considering customer engagements that are less linear in their deployment needs	ConMon dashboard would be extremely helpful
Be more intentional about blockers	Clarify our approach to determine readiness for ConMon, whether that's an actual checklist, an automated script, etc.
Mid-deployment retrospectives. (or re-agenda one weekly meeting per month to be a mini retro)	Do we need to create a new flavor of SOW to support these non-linear, "we're partners in whatever" engagements

Customer/User/Employee Experience

Took Initiative to Create a Delightful CX Through a Monthly Customer Newsletter

To continue my commitment to increasing our value/stickiness, I stuck with our monthly newsletter - authoring, editing, designing, and fully producing it each month.

- I generated or selected/collaboratively edited content.
- Worked with Tyto to also expand our audience to a **HubSpot** library...
- Created many custom illustrations each month.
- Received a request in the fall by a customer that wanted to subscribe - **an indication that it is valuable and making an impact!!!**





FedRAMP 20x | Phase 2 Is Happening

This is for all of you who packed up your proverbial station wagons and embarked on a FedRAMP road-trip – destination ATO - and have been traveling along the government compliance and ConMon highway for the past few years thinking nothing would ever change. It seems like just yesterday we were all engaging our compliance cruise control settings and settling into a highly manual and often burdensome SecOps “comfort zone” (or discomfort zone if we’re being honest) wrapped in layers of point-in-time scanning and reporting expectations, procedural red tape, and buried beneath a mountain of documentation creation and maintenance activities. Well peeps - a new day is upon us! Modernization is happening – and it’s happening faster than most of us would have thought possible. Breaking long-immutable barriers and jumping head-first into the future with the 20x program - FedRAMP has decided to trade in the wood-paneled station wagon of yesterday’s compliance operations – at least for some systems. In rapid fashion, FedRAMP 20x has taken flight in a DeLorean-esque future-bound vehicle, fully powered by automated and machine-driven digital flux capacitors. And while this newsletter was never intended to be solely about 20x, as long as FedRAMP continues their bullish approach to breaking barriers and redefining the future of compliance with the 20x efforts – we’ll be passing along our insights.



More News from our CISO



stackArmor is committed to engaging with the FedRAMP PMO and the broader government cybersecurity and compliance community as thought leaders - helping define the future of the FedRAMP program. The following updates are from Johann Dettweiler, CISO at stackArmor CISO.

Meet CSRMC (Cybersecurity Risk Management Construct)

Not only is FedRAMP cranking out new 20x on Sept. 24, 2025 the Department of War (DoW) promise to “blow up the RMF.” As expected, and a modernization face lift to better align with the DoD’s 11x17 infographic, it makes sense given there was nothing wrong with the DoD’s straight-forward five-phase construct that enforces an actively defended environment to ensure the rapidly evolving and emerging cyber threats.

Whereas the previous RMF was overly reliant on a continuous risk management approach – the CSRMC has moved from the old “snapshot” to a “continuous” approach – the required for modern warfare,” per the DoD’s 11x17 infographic.

The CSRMC Five-Phase Lifecycle

1. Design Phase – Security is embedded into system architecture.
2. Build Phase – Security is integrated into the system architecture.
3. Test Phase – Security is validated through testing and verification.
4. Onboard Phase – Security is maintained through continuous monitoring and reporting.
5. Operations Phase – Security is sustained through continuous monitoring and reporting.

The CSRMC’s Ten Foundational Tenets

The CSRMC is grounded in the following ten core principles (from the DoW website):

- **Automation** – driving efficiency and scale.
- **Critical Controls** – identifying and tracking the controls that matter most to cybersecurity.
- **Continuous Monitoring and ATO** – enabling real-time situational awareness to achieve constant ATO posture.
- **DevSecOps** – supporting secure, agile development and deployment.
- **Cyber Survivability** – enabling operations in contested environments.
- **Training** – upskilling personnel to meet evolving challenges.
- **Enterprise Services & Inheritance** – reducing duplication and compliance burdens.
- **Operationalization** – ensuring stakeholders near real-time visibility of cybersecurity risk posture.
- **Reciprocity** – reuse assessments across systems.
- **Cybersecurity Assessments** – integrating threat-informed testing to validate security.



FedRAMP 20x Latest | Army is In Process!

The 20x Phase 1 pilot, which is no longer accepting new submissions, is well underway. There are 10 systems now authorized and another 16 whose submissions are under review – one of those being stackArmor.

FedRAMP

The f

More Proposed Standards!

FedRAMP Releases 4 more Standards as Request for Comment (RFC)

Want your voice to be heard regarding the newly proposed program requirements? FedRAMP has published four more RFCs - all of which are required for those interested in participating in Phase Two of the 20x program. All 4 are open for public comment through mid-October (2 are open for comment until October 10th, 2025, with the other 2 open until October 15th, 2025).

RFC ID:	Proposed Standard	Brief Description of Proposed Standard	Comment Close Date:
AQ-0014	Phase Two Key Security Indicators (KSIs)	KSIs summarize the security capabilities expected of a cloud service provider who wishes to obtain and maintain a FedRAMP 20x authorization. This RFC covers proposed changes to the existing KSIs where they were ineffective, unclear, or insufficient. This RFC also proposes new KSIs for both FedRAMP Low and FedRAMP Moderate	10.10.25



Participants in Phase Two will need to implement all of the requirements included in the final version of the 4 proposed standards currently in the open RFC period (listed in the previous table) - in addition to those established during Phase One as reflected in the table below. Due to the continuous and automated nature of the 20x approach to cybersecurity and compliance, hosting platforms and third-party cybersecurity and monitoring tools should be looking to build out and deliver the necessary automation capabilities to help support Phase Two participants – something stackArmor started designing and building long before the launch of FedRAMP 20x.

FedRAMP 20x Base Standards Established during Phase One

Standard	PDF	Description	Version	Published Date
Vulnerability Detection and Response Standard (VDR)	VDR	This update moves the remediation table from FRR-VDR-TF-HI-07 to FRR-VDR-TF-HI-08, adds a clarification on application to Rev5, and fixes a few typos. No actual breaking/modifying changes are to content.	25.09B	2025-09-11
Incident Response Standard (IR)	IR	FRD-ALL-18 through FRD-ALL-39 aligned with Vulnerability Detection and Response Standard.	25.09A	2025-09-10
Phase of the Authorization Data Sharing	Phase of the Authorization Data Sharing	Phase of the Authorization Data Sharing	25.06A	2025-08-24
Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	25.06B	2025-08-24
Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	25.06B	2025-08-24
Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	Breaking updates to align term definitions and lighted terms across updated materials (as are now in FRD-ALL)	25.06D	2025-08-24





stackArmor Newsletter ed. 6 | October 2025

FedRAMP and the Government Shutdown

In case anyone was wondering what the government shutdown means for those of us participating in the FedRAMP program – this newsletter is for you! For starters, FedRAMP has provided the following official statement: “FedRAMP is currently operating mission-essential functions only; that includes receiving packages, responding to critical messages, processing FedRAMP Marketplace updates, working with Prioritized AI services, and handling emergency situations.” It is likely that for each week the program is limited to mission-essential activities, we should all expect up to two weeks of delay for any non-essential activities – which includes both the direct interruption and the time needed to get momentum once the shutdown concludes. Beyond this, there is some guidance on what we should be doing while we await the re-opening. For all CSPs currently managing highly regulated systems under the FedRAMP banner, here’s what you should know.

For the duration of a government shutdown, CSPs should:

- Continue operations as normal. CSP responsibilities do not change during the shutdown.
- Continue to engage with your agency customers for continuous monitoring activities - even if your agency is impacted by the shutdown differently, but many still have active staff participating in regular information security procedures.
- Work with representatives of your Authorizing Official (AO) to understand if Significant Change Requests (SCR) can proceed in the event that a significant change is awaiting approval by AO following the legacy process. If the entirety of an AO’s staff is unavailable then the CSP cannot make changes until the AO or a representative of the AO is available to approve.
- Follow the instructions and agreements established during enrollment in the FedRAMP Significant Change Notification (SCN) Beta with agency customers (only applicable to CSPs participating in the SCN Beta).

For the duration of a government shutdown, FedRAMP will:

- Continue to intake In Process requests and Agency Authorizations.
- Process FedRAMP Marketplace update requests.
- Respond to urgent security-related messages sent to info@fedramp.gov from the public.
- Respond to all reasonable agency messages sent to info@fedramp.gov.
- Support Prioritized AI service activity, including package assessment and review.
- Work behind-the-scenes to improve the 20x and Rev5 assessment processes.



20x 20x FedRAMP 20x

And Here is What FedRAMP will NOT do for the duration of a government shutdown:

- Perform final review or authorization of any security packages without mission-essential impact to agency operations; most security package reviews will halt.
- Respond to general non-urgent messages; this means general questions, requests for updates, brand review, etc. will be deferred until the government shutdown ends.
- Host any public or large scale meetings (e.g. canceling and pausing all planning for hosting Community Working Groups, Agency Liaison meetings, FedRAMP Board meetings, Technical Advisory Group meetings, and Federal Secure Cloud Advisory Committee meetings.)
- Publish any new RFCs or close existing RFCs; any existing public comment periods will remain open until the government shutdown ends.
- Attend or make plans to attend any public events.
- Make improvements to the website or the FedRAMP Marketplace.
- Begin or transition phases for any Rev5 Balance Improvement Release.
- Open the public submission window for 20x Phase Two.

FedRAMP 20x | Phase 2 is on Pause...

As mentioned, movement on the next phase of 20x is essentially on pause until the end of the shutdown – with no forward movement on submissions for 20x Phase 2. FedRAMP also has stated on their website that it is impossible to fully understand the details associated with the impact of the shutdown on 20x and the FedRAMP Roadmap.

One thing that hasn’t changed is that the pending Phase 2, which is a new 20x approach for Moderate authorizations, will strictly limit submissions to optimize the delivery of this new process as a formal authorization path. The 20x Phase 2 pilot will continue to be iterative, transparent, and collaborative but will have more structured requirements than Phase One.

The biggest take away, for those interested and qualified for Phase 2, is to pay close attention to the FedRAMP website. FedRAMP has been excellent at keeping the public informed about the program and its evolving guidelines. At the conclusion of the current key program updates and communications are expected to resume.



RFC Comment Periods Extended

FedRAMP’s 4 new Standards are Still Open for Comment

There’s still time to review and comment!!! FedRAMP’s 4 new RFCs - all of which are required for those interested in participating in Phase Two of the 20x program, are still open for public comment. Timelines have been extended to November 5th for all 4 RFCs.

RFC ID:	Proposed Standard	Brief Description of Proposed Standard	Comment Close Date:
RFC-0014	Phase Two Key Security Indicators (KSIs)	KSIs summarize the security capabilities expected of a cloud service provider who wishes to obtain and maintain a FedRAMP 20x authorization. This RFC covers proposed changes to the existing KSIs where they were ineffective, unclear, or insufficient. This RFC also proposes new KSIs for both FedRAMP Low and FedRAMP Moderate to resolve outstanding gaps and integrate additional controls.	40-10-25 11.05.25
RFC-0015	Recommended Secure Configuration Standard	This standard formalizes requirements and recommendations to ensure agency customers have any specific CSP best-practice security configuration recommendations in advance of setting up a cloud service offering. It will apply to both FedRAMP 20x and FedRAMP Rev5 when formalized. (This standard is required by EO 14144, as amended by EO 14306.)	40-10-25 11.05.25
RFC-0016	Collaborative Continuous Monitoring (ConMon) Standard	This standard proposes updates to the ConMon process, such as moving meetings to a three month cadence and ensuring agency security personnel have adequate support and can consume high-level summaries and authorization data using automation that is persistently supplied and filtered for criticality based on their use case. RFC-0016 continues implementing the vision of OMB’s M-24-15 to redesign the government-wide ConMon of cloud services to better align with the requirements of OMB A-130 and the NIST RMF.	40-16-25 11.05.25
RFC-0017	Persistent Validation and Assessment Standard	The biggest preview of the expectations for Phase Two yet, with this proposed Persistent Validation and Assessment Standard for 20x outlines new requirements for automation and guidance for both providers and assessors on how the pilot approach needs to change in Phase Two. There is no porting of OG approaches.	40-16-25 11.05.25

Where to Comment

The public may submit multiple different comments on different issues during the public comment period using the following mechanisms in order of preference: (FedRAMP will review and publicly post all public comments received via email.)

1. Click the RFC ID in the table above to find the specific GitHub Post and Public Comment Form for each RFC.
2. Email: pete@fedramp.gov with the subject ‘RFC-00#’ Feedback (insert RFC ID here)



That’s All for This Month

Given the shutdown and limited goings-on across the government, there is a little less to share than normal. Looking forward to next month when we expect (hope) for things to have picked back up in the world of regulatory compliance!

Shutdown or No Shutdown – Your Feedback and Ideas are Always Welcome!

As we continue our commitment to a stellar Customer Experience (CX) we will continue to ask for feedback from customers. Your feedback will be used to inform our continuous improvement initiatives, in our solution roadmap.

Below is a link to our quick 3-question survey, which allows you to share what’s working, what isn’t, and what ideas you may have about things stackArmor could do differently. We look forward to getting your response, and plan to use the information to ensure we are hitting the mark!



Link to Survey:

<https://docs.surveymonkey.com/s/30m9024e9017a0e4133e886622e92a820>

If you prefer to talk directly to someone at stackArmor to share your thoughts, our Sr. Director of Cloud Solutions, Sarah Hensley heads up our customer experience (CX) efforts and can be reached at shensley@stackarmor.com. Sarah is looking forward to working more closely with all our customers in the weeks and months ahead!





stackArmor Newsletter ed. 7 | November/December 2025

Things are Happening in the World of Compliance!

As we approach the holidays, the team at stackArmor wanted to share one last 2025 newsletter. Since the last edition, the government shutdown that paused many FedRAMP program activities has ended, and some exciting things have been happening with stackArmor's Armory offering.

- 1 *The Armory20x ATO Accelerator on Google Cloud has been Authorized as part of the FedRAMP 20x Pilot Program (Phase 1).*
- 2 *The Armory FedRAMP High Rev 5 Accelerator on Google Cloud is now In Process in the marketplace.*

A Lesson in the Importance of Acting with Integrity in Compliance Program Operations

Adhering to FedRAMP and DoD IL compliance standards for systems that are processing federal data under a government-issued Authorization to Operate (ATO) isn't just about taking the necessary steps to pass audits. Lest anyone has lost sight of the programs' key objectives - protecting federal data - the recent indictment of a government contractor for intentionally misleading agencies (and 3PAOs) about matters of compliance should serve as a stark "cold splash of water to the face" reminder.

Danielle Hillmer, a former senior compliance manager from Virginia has been charged by the Justice Department with major government fraud, wire fraud, and obstructing federal audits. According to *FedScoop*, she has been accused of carrying out a "multi-year scheme to mislead agencies over a government contractor's compliance with security controls." Specifically, she allegedly concealed the cloud service offering's noncompliance with FedRAMP security controls and the DoD's RMF by deceptively claiming security controls were in place (per the SSP) all while knowing they weren't.

So here's the thing. There is simply no win in this kind of deceptive behavior. Even if the deceptive practices hadn't been caught, what good is passing a cybersecurity audit while having your system positioned perfectly to make the ten o'clock news for losing millions of customer records or leaking critical national security information? In this case, the cost carries the possibility of 20+ years in prison. This is a good reminder that having an authorized system isn't just about passing audits - it's about doing the right thing, protecting government data, mitigating risk, and doing it with transparency to accurately represent the security and risk posture of a system for its government users.



There's a New POA&M Template

FedRAMP Releases Version 3.0 of the Official POA&M Template

Anyone supporting FedRAMP authorized systems is undoubtedly familiar with the Plan of Action and Milestones (POA&M) - a templated artifact required by FedRAMP (as well as other compliance standards) to track risk remediation and mitigation activities for system findings.

According to the official "Record of Changes" tab in this new version, the changes include the addition of an Instructions Tab, the consolidation of reporting fields, and the simplification of input requirements. A couple changes of note:

- There is a new PL-2 Findings tab used to capture documentation deficiencies in the SSP and related attachments
- A few columns, including Planned Milestones, Milestone Changes, and Auto Approve, appear to have been removed from the new template

As stackArmor works through all of the changes, the team will also be working to update our automations to support this new template wherever it is possible to do so. In the meantime, system ISSMs will need to pay careful attention to the new POA&M to ensure it is accurately completed as a part of the monthly reporting requirements.



FedRAMP 20x | Phase 2 Updates

As FedRAMP 20x got back into the swing of things following the government shutdown, Phase 2 initiatives are back in motion! That said, FedRAMP has shared that most CSPs wanting a 20x Moderate authorization must wait until the Phase 2 Pilot systems have paved the way for a more standardized approach, when the process is simpler and critical third-party tools are more widely available.

Further, unlike Phase 1 which allowed any interested CSP to submit a package, Phase 2 is NOT open to the public. Only CSPs who submitted a complete package during Phase 1 that was not rejected or withdrawn are eligible to apply for the Phase 2 Pilot. Of the 23 CSPs that meet this criterion (which includes stackArmor's Armory 20x), FedRAMP is targeting approximately 10 Moderate pilot authorizations to participate in Phase 2 (3 of which have already been selected!). This is based on an understanding that even many systems that obtained a 20x Low authorization under Phase 1 won't be able to meet all of the requirements and timelines outlined for Phase 2. The FedRAMP website has more details about the application (and pilot proposal) process.

Finally, Phase 2 is actually being broken up into 2 sub-phases or Cohorts. Cohort 1 in December resulted in the selection of the first 3 participants with Cohort 2 following in January.

Phase 2: Cohort 1 Participants Already Selected

As previously mentioned, there are 3 CSPs that have already gone through the application and proposal review process and been selected to participate in Phase 2! The first 3 CSP participants include:

- Confluent Cloud for Government
- Meridian LMS
- Paramify Cloud

Phase 2: Cohort 2 Coming in January 2026

Beginning January 5th, applications will be accepted for the remaining 7 CSP slots for Phase 2.

Date	FedRAMP 20x Phase 2 Milestones
Nov 18, 2025	Phase 2 pilot authorization requirement and other criteria are finalized and published
Dec 1 - Dec 5, 2025	Cohort 1 application period, up to 3 cloud services selected
Jan 5 - Jan 9, 2026	Cohort 2 application period, up to 7 cloud services selected

2025 FORUM IT100 AWARD WINNER

CONGRATULATIONS!

JOHANN DETTWEILER
CISO
stackArmor
A TYTO ATHENS COMPANY

Johann Dettweiler Named to the 2025 FORUM IT100 List

While we often include insights FROM our CISO, this edition includes a shout out TO our CISO!

We are proud to share that Johann Dettweiler, our amazing CISO, has been named a 2025 FORUM IT100 Award recipient. The FORUM IT100 recognizes dynamic leaders who drive change, innovation, and a commitment to giving back to the broader Federal IT community.

While most of our customers have likely met Johann across the industry for pioneering technical leadership, spearheaded stackArmor's FedRAMP 20x pilot program, advanced DoD Zero Trust compliance evidence, advanced AI governance aligned platform, and championed AI governance aligned, challenging outdated compliance models while remaining focused on the customer's needs.

"Johann's passion for innovation and his ability to approach cybersecurity and compliance," GP Pal, technical, designing compliance-as-code frameworks that materially reduce operational burden while streamlining the public sector to better protect sensitive information."

In addition to his technical leadership, Johann is a trusted technology ecosystem, consistently sharing expertise for recognition by FORUM underscores stackArmor's commitment to cybersecurity solutions that enable CSPs and government agencies to compromise security or compliance. We are proud and honored to have Johann as a part of our team.

One Last 2025 Call for Feedback and Ideas!

As we step into our commitment to a better Customer Experience (CX) we will continue to ask for feedback and suggestions from customers. Your feedback will be used to inform our customer experience initiatives and shared with our product teams so we can better align our customer's needs ahead and reflected in our product roadmap.

Below is a link to our quick 3-question survey, which shares the customer what's working, what isn't, and what else you may have thought about. We look forward to getting your responses and plan to use the information to enhance our offering this year!

Please Complete our Brief 3 Question Survey

Link to Survey: <https://www.stackarmor.com/customer-experience-survey>

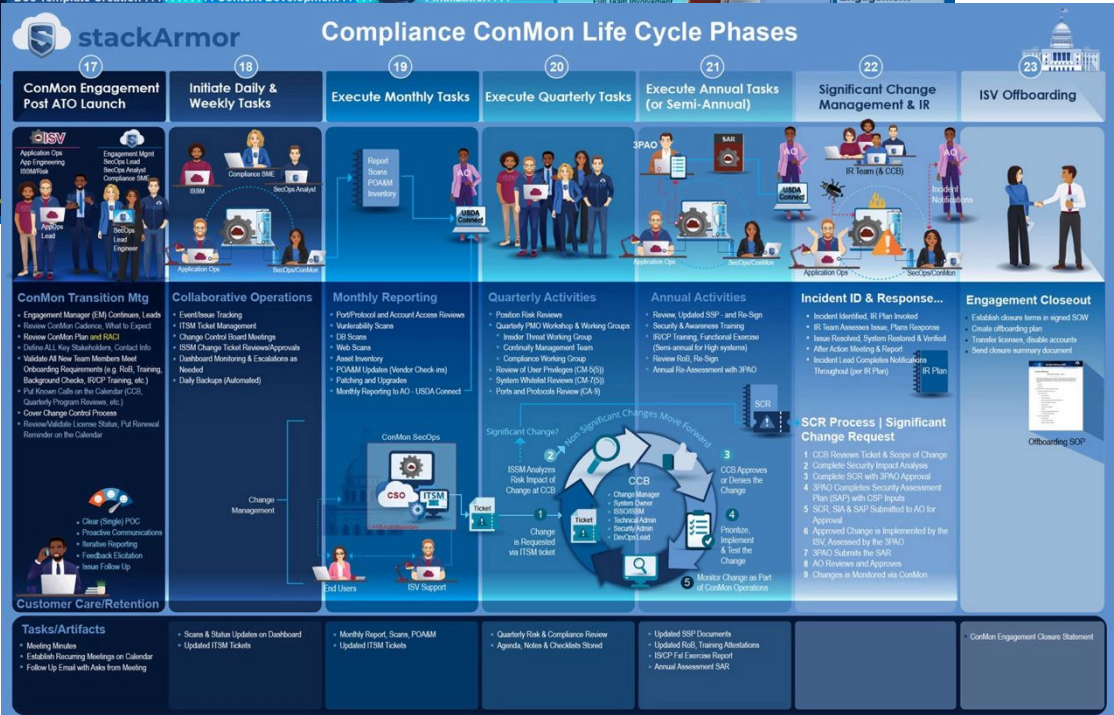
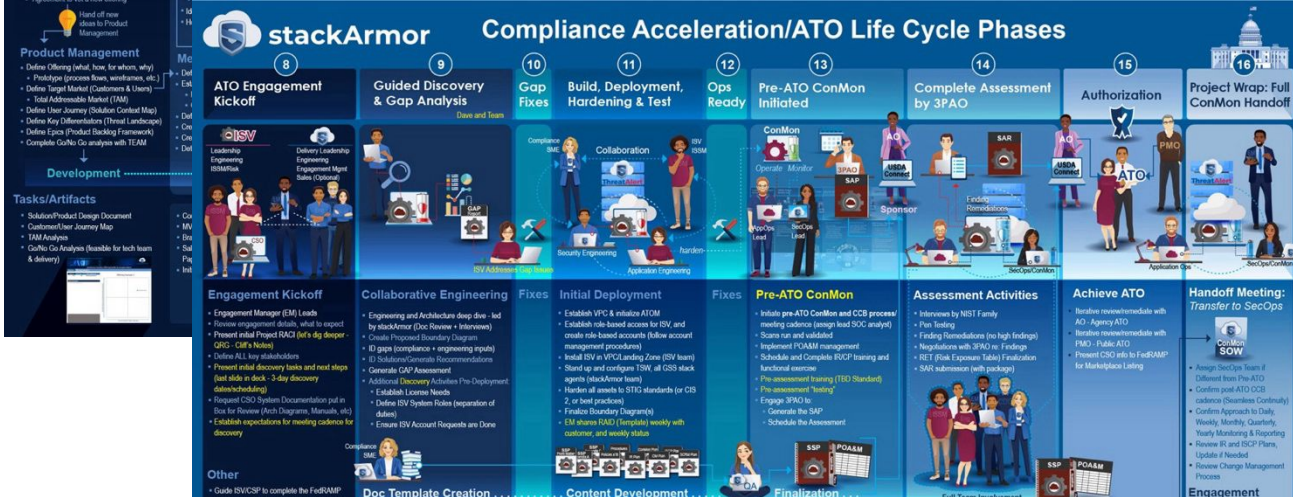
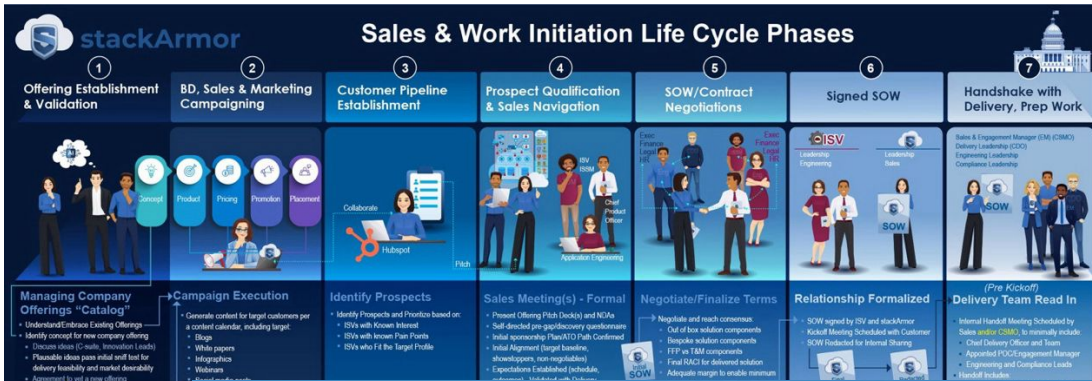
If you prefer to talk directly to someone at stackArmor to share your thoughts, our VP of CX and Product Management, Sarah Marston, leads our customer experience CX efforts and can be reached at sarah.marston@stackarmor.com. We look forward to working closely with our customers as we explore our customer offerings to meet and exceed each customer's needs and future needs!

Wishing everyone the **Happiest of holidays** from your team at stackArmor!

Maintained End-to-End stackArmor Journey Maps

Updated all 3 Customer Journey Maps throughout the year (and fall)

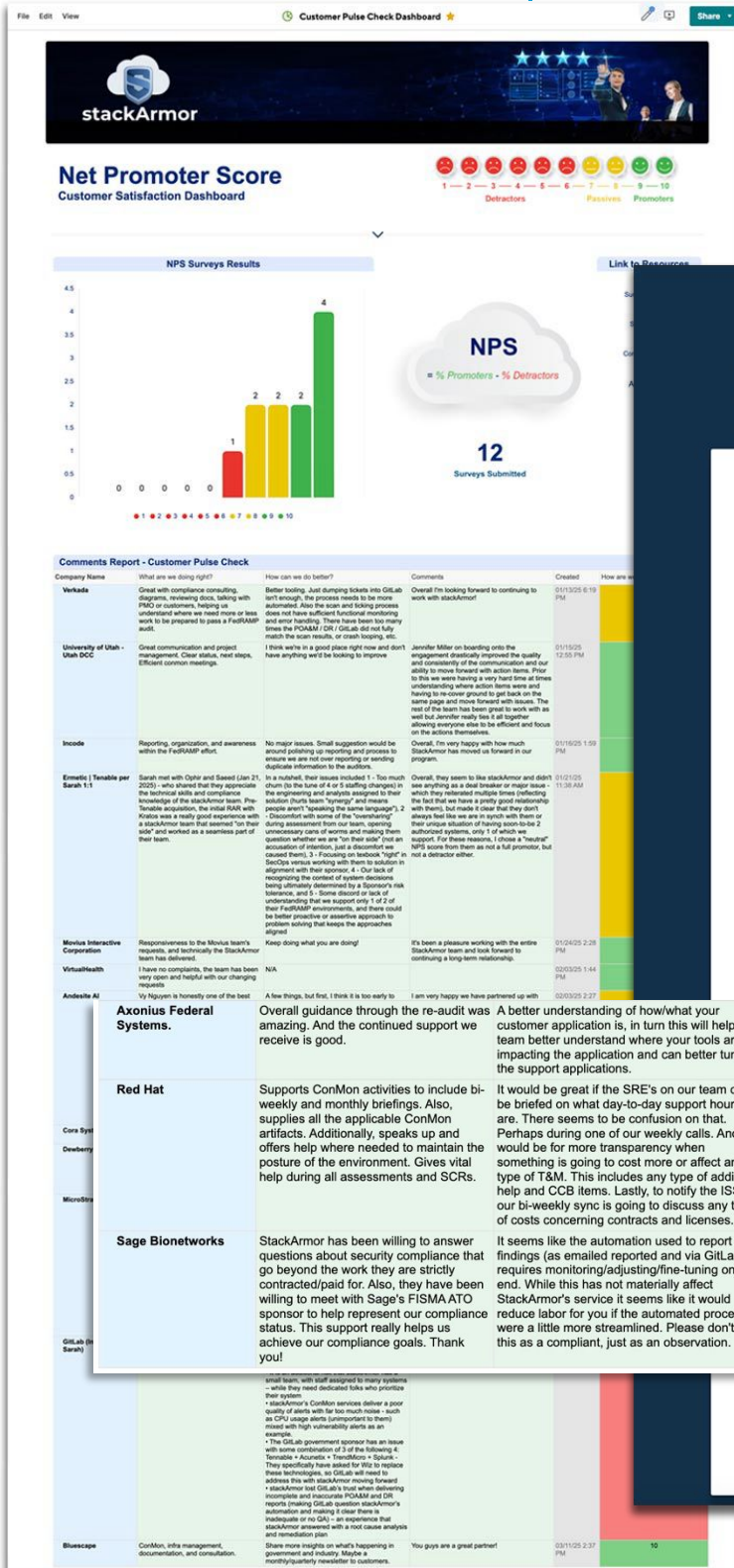
- These were originally created prior to August, then maintained and updated.
- Maps enable clear definition of roles/responsibility across teams, and activities all customers and team members can expect
- All journey maps are available on the CX/CI Intranet site.



Continued CX Program with NPS-Based Customer Satisfaction Tracking

Updated our process to include an ask to customers to submit a survey annually, and after the build phase. (Average NPS is 9.1, which is excellent)

- Axonius and Red Hat and Sage all provided us NPS scores of 10 in the fall! (Props to the EM team for this - none were mine 😊)
- Each Newsletter contains a link and call to action re: the survey.
- Program continues to inform new feature request tickets and product roadmap considerations (e.g. Wiz incorporation)



3 New Surveys from Fall, 2025

stackArmor Survey

stackArmor looks forward to collecting real customer feedback to help us improve our service delivery!

Company Name
Please provide your company name.

1 - How are we doing? *
How likely are you to recommend stackArmor to someone with cloud service compliance consulting needs? (1 - Not at all likely | 10 - Extremely likely)

○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6 ○ 7 ○ 8 ○ 9 ○ 10

2 - What are we doing right? *
What does stackArmor do really well that we should continue?

3 - What can we do better? *
What changes would stackArmor have to make for you to grant a higher rating?

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Marketing & Content Development

Created Multiple Ad Mocks When the Marketing Agency Couldn't Hit the Mark

Even though I'm not official marketing, I was able to create much of the original messaging and the actual ad mocks used to create an ad campaign.

- After multiple tries, a professional marketing agency was struggling to give us what we needed or wanted.
- GP, Gabriela and I brainstormed, and decided the quickest way to get what we wanted was for me to translate our concepts into ad mocks.
- I took that and ran with it to get some "draft" ads - doing the heavy lifting of getting the basic imagery concepts and content correct (it's now in marketing's hands to do the fun work and re-create these in a high-res "polished" format ☺ - which I'm more than capable of doing... but ran out of bandwidth.

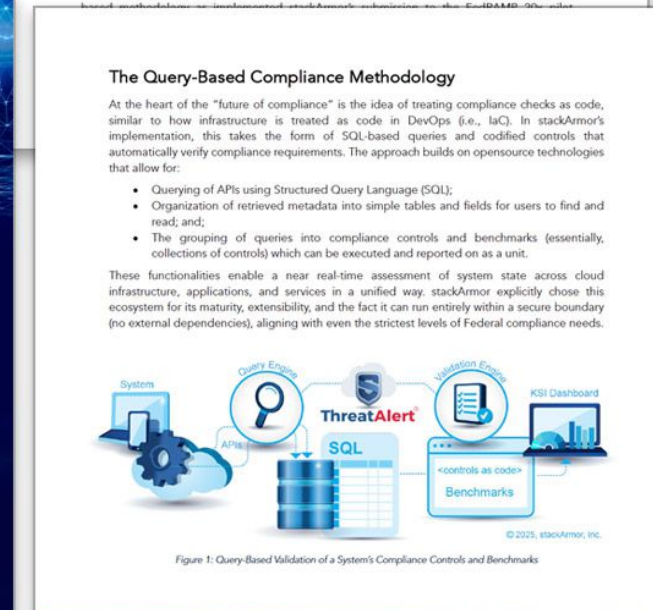


Produced Polished, Professional White Papers x2

Translated Johann's raw text into a high-quality artifacts, doing copy editing, copy creation, original illustrations, and design.

- Took a plain text file, edited for clarity, designed and formatted for information chunking, and created all graphics to augment the words.

Future of Compliance White Paper



Future of Compliance White Paper Continued

Compliance-as-Code

Instead of writing prose implementation statements and manually gathering evidence for each control, stackArmor defines each requirement as a code artifact (i.e. a control). As the project documentation explains, rather than stating "all GCP compute disks are encrypted with CMKs (Customer-Managed Keys)" in a document and later proving it via ad-hoc checks, the team directly encodes this rule as an automated control with an associated query. For example, within Armory20x there is a control named "gcp_compute_disk_encrypted_with_cmk¹¹". Each control includes the following:

- Descriptive title;
- Explanation of the requirement the control is designed to validate; and
- A reference to a SQL query.
 - For this control, the query checks every Google Cloud disk for a CMK encryption key.

In this example, the query (written in HCL/SQL within a module (mod)) selects all GCP disks and flags any disk that is in a "READY" state but lacking a KMS key as an "alarm" (meaning the resource is in a non-compliant state). By running this query continuously or on-demand, the system can instantly identify if any cloud disk violates the encryption requirement, and it provides a machine-readable result in JSON that identifies the state ("ok" or "alarm" with a reason) for each resource.

This small example illustrates the broader methodology:

Every control is expressed as a structured query that returns a pass/fail status along with evidence details.

In addition, because the controls and benchmarks are defined declaratively

Rapid, Continuous Monitoring

The query-driven approach has many advantages including accuracy, speed and frequency. Automated controls execute in seconds, even when run as part of a large suite of dozens or hundreds of checks. This means an entire FedRAMP KSI assessment can be performed on demand or even scheduled to run continuously (e.g. nightly or whenever infrastructure changes).

The stackArmor team integrates these checks into its Dashboard, which provides an interactive view of KSI compliance. stackArmor shares an example Armory20x KSI Compliance Dashboard that highlights the information and datapoints in a visual report. System stakeholders (security engineers, auditors, and compliance officers) can see the up-to-date compliance posture, receive yearly audit reports. Because the checks are automated, they provide a continuous feedback loop. If a configuration drifts out of compliance, the system immediately reduces the window of vulnerability. This is a key benefit of modern DevSecOps and Continuous Monitoring. stackArmor controls are constantly enforced and verified.

Eliminating Ambiguity and Manual Effort

From a process standpoint, query-based compliance assessment is a time-consuming activity. stackArmor's philosophy is to source-control compliance artifacts. This has been the domain of manually documented implementation guides, which have been subject to much manual interpretation as reasonably possible.

By encoding the intent of each control in an unambiguous, machine-readable format, the system provides a transparent and extensible policy. Anyone (with appropriate access) can understand exactly what is being checked and how. This transparency and automation facilitates collaboration.

For example - third-party assessors can suggest improvements to the assessment process. Once trust in the queries is established, the system can pull static artifacts from the environment. The queries are stored in stackArmor's query-based methodology transforms compliance artifacts from a heavy exercise into a proactive, data-driven discipline.



¹¹ stackarmor.github.io/armory-20x-public/



Metadata and Structure

The query-based controls are not just raw scripts; they carry metadata and are organized logically. Each control includes tags (for example, indicating the service area, severity, or mapping to compliance framework IDs) to assist with filtering and reporting. Controls are grouped into benchmarks which are hierarchically arranged sets that correspond to portions of the compliance framework.

In the Armory20x mod, controls are grouped under benchmarks for each KSI grouping or "family", which roll up into an overall FedRAMP 20x KSI benchmark. This hierarchy ensures the results can be viewed at multiple levels; you can see an overall compliance summary, each KSI domain's status, each individual KSI control check, and even drill down to the underlying evidence for a failing control.



Figure 2: Structure of 20x Benchmark > KSI Family/Group Benchmarks > Controls > Implementation Evidence

The output of a benchmark run is a structured JSON document that contains all this information:

- Summaries of how many controls passed or failed; and




...ing ambiguity; it provides concrete "show me" evidence. In the Armory20x pilot program, the Armory20x repository included the "show me" evidence for each control. stackArmor believes this level of transparency will demonstrate its approach to the pilot program.

Implementation in stackArmor's Armory20x

To illustrate how this methodology works in practice, we provide a detailed implementation for the FedRAMP 20x pilot. The Armory20x mod is a comprehensive set of automated controls covering various FedRAMP requirements. The controls are developed as a mod (module) and released publicly¹². The repository's structure reflects the different categories of controls included. Summarized below are the key components of the mod.

- 
Core Cloud Infrastructure (Google Cloud Platform) | Foundational cloud resources meet security requirements. For example, controls verify disk encryption configurations, log settings, etc., focusing on Google Cloud Platform. These GCP-specific controls are defined with Terraform. This allows stackArmor to automatically enforce security configurations (storage, compute, networking) and report on compliance.
- 
Identity and Access Management (IAM) | The system uses an identity platform which manages user authentication. stackArmor integrated the Okta Security Tool benchmark within the mod¹³. Controls in the mod are in accordance with DoD's STIG hardening guidelines. For instance, one of the controls in this mod checks for the presence of a critical security indicator for identity providers. This approach can extend to third-party SaaS compliance guides like STIGs.

¹² stackarmor.github.io/armory-20x-public/ Publicly accessible FedRAMP 20x pilot program.
¹³ Okta's new Security Technical Implementation Guide (STIG) | Okta Security Blog
¹⁴ At the time of the pilot, not every Okta STIG item was fully automatable, but the framework is in place to expand this coverage.

- 
DevSecOps and IT Service Management (ITSM) | Armory20x leverages a Git platform for code repositories and ITSM for change control, tickets, etc. The mod defines controls for the ITSM to ensure security and compliance in code and operational processes. These include checks on repository settings, branch protections, as well as operational metrics (e.g., ensuring security processes or approvals are in place for changes). Because some FedRAMP KSI requirements pertain to organizational processes (like incident response, configuration management, etc.), the ITSM controls help gather evidence of those processes (e.g., verifying if security issues are tracked and resolved within defined timeframes). By querying the ITSM's API for project settings and issue data, the system provides objective evidence for security objectives that have traditionally proven very difficult to automate.
- 
Vulnerability Management and Scanning | To address controls related to system vulnerabilities and secure configurations, the Armory20x implementation leverages powerful network vulnerability scanning results. In addition, a custom plugin was developed to retrieve scan findings and configuration checks. As an example:
 - One control pulls data on whether servers have Federal Information Processing Standards (FIPS) 140-3 compliant configurations (as required by FedRAMP crypto standards) by referencing the system's STIG compliance scan results.
 - Another ensures that scheduled vulnerability scans are running and up to date.
 By automating the ingestion of scanner output, the solution integrates traditional vulnerability management into the continuous compliance framework.
- 
Security Operations Platform (ThreatAlert™ Security Workbench) | Finally, stackArmor's own ThreatAlert Security Workbench (TSW), an operational suite of services for continuous monitoring and security operations, is subject to compliance checks. The mod includes controls to ensure that the security operations tooling itself is functioning correctly and following best practices.

For example, controls verify that the TSW's scheduled jobs (which perform tasks like generating inventory and POA&M, running benchmarks, etc.) are operational, and that any findings are being properly ingested and tracked in the system.

This is an important aspect often overlooked: not only must the cloud and IT components be secure, but the monitoring apparatus must also be intact and compliant. By treating TSW as another component to be continuously verified, stackArmor adds confidence that the compliance monitoring pipeline has no blind spots.

The previously mentioned components are integrated under a top-level FedRAMP 20x KSI benchmark "fedramp20x-ksis" which ties together the controls relevant to each KSI domain. In practice, running this benchmark executes every underlying query across the GCP, Okta, ITSM, Vuln Scanner, and TSW, then compiles the results. The output is both human-readable (viewable in the web dashboard) and machine-readable (JSON files) for traceability. The repository's public dashboard (via a hosted page) shows an overview of how each KSI category is doing, presenting green for compliant (OK), red for issues (alarms), etc., and descriptions of each check.

¹⁵ For the 20x submission, the Nessus plugin and control set were minimal but are expected to grow, and similar integrations for other scanning tools and system telemetry sources will be developed as needed.

Future of Compliance White Paper Continued

Transparency and Collaboration

Because the entire set of controls and their results are open-sourced, 3PAOs, FedRAMP officials, and even peer organizations can inspect and even reuse the code. In fact, once a complete vetting has occurred, stackArmor plans to publish some of the components, like the Okta STIG, to the public, open-source Hub for consumption by other organizations. This community-driven aspect means organizations won't have to reinvent the wheel for each compliance framework, they can leverage and customize pre-built query libraries that represent industry consensus or best practice for meeting standards.

Results and Validation in the Pilot

By the conclusion of the FedRAMP 20x Phase One pilot¹⁵, stackArmor's Armory20x demonstrated a functioning model of continuous, query-based compliance for all required KSIs. The automated checks covered all ten KSI domains defined by FedRAMP, providing a one-stop, real-time view of the system's security posture. The final KSI assessment output consisted of the machine-readable results and a system declaration file, which together showed the system's compliance status without relying on extensive ancillary documentation. This was a significant departure from traditional FedRAMP packages that can consist of literally hundreds of pages of static documentation. Instead, Armory20x's evidence was largely in the form of data, queries and results that validated the status of each KSI.

An accredited Third-Party Assessment Organization (3PAO), Kratos, was engaged to evaluate the Armory20x system and its compliance deliverables. Over a series of collaborative reviews and validation exercises, the 3PAO scrutinized both the automated checks and the live environment. The timeline shows that initial KSI results were delivered by stackArmor on August 1, 2025, with updated results on August 6 after some iterations. By August 15, 2025, a final validation report was issued and was followed up with a formal 3PAO attestation for the FedRAMP 20x package on August 19, 2025. This attestation indicated that Kratos found the automated evidence credible and sufficient to meet the FedRAMP 20x Low requirements.

In other words, the query-based approach passed the test of a real-world audit.

stackArmor will continue to update the repository as we address any findings and progress toward a full authorization. The repository will serve as a collaboration hub with the 3PAO and FedRAMP PMO, and it is publicly available to anyone who wishes to follow along in the process.

¹⁵ August 19th, 2025



The Future is Automated, Continuous, and Data-Driven

One of the most important outcomes of this pilot is the increased confidence in automation. By having a 3PAO validate the results, it set a precedent that automated, continuous controls can be trusted (given proper transparency and review) just like traditional evidence. StackArmor coined the term "total equilibrium" to describe our end goal, a state where:

Automation fully validates all KSIs and benchmark results stand alone without any additional artifacts.

For stackArmor, the future is bright as we look to continue to establish trust in these repeatable, automated benchmarks, akin to how auditors develop trust in a repeatable process or tool. The pilot results suggest that this trust is achievable. Over time, as coverage is expanded and more controls are automated, the need for supplemental manual evidence should diminish further. Indeed, the Armory20x team plans to keep expanding the scope and depth of validations, integrating more cloud services and more controls, such that eventually a complete, fully automated information system assessment is possible.

The current state of the project demonstrates that:

1. A significant portion of security compliance checks can be automated with query-based controls, even across diverse technology stacks;
2. The outputs are understandable and useful to both technical teams and auditors; and
3. An authoritative reviewer (3PAO) was able to rely on this approach to provide a letter of attestation, indicating regulatory acceptance of the methodology.

These are promising signs for the future of compliance. Building on this foundation, we now look at potential future paths to broaden and generalize the query-based compliance methodology beyond this initial pilot.

11

The Compliance Fabric: Weaving Security Data into Actionable Intelligence

While stackArmor has taken a novel approach to implementing open-source technologies in the environment, the tools are publicly available, its ability to gather telemetry data across it into meaningful data points that tie back to the system's security posture.

Every modern system produces a torrent and telemetry. On their own, these sources are inconsistent in format, and inconsistent in quality. Most organizations struggle to reconcile or operations.

Armory20x utilizes the query-based compliance methodology to ingest the system's security posture. It leverages tools and services, custom-built vulnerability findings, security agent alert outputs into a consistent schema. This modules, including the Finding Lifecycle.

FLM plays a critical role as the connected compliance reporting. It ingests results and container scanners, then manages findings is tracked, updated, and remediated against system resources and GitLab issues, reducing administrative overhead. The consistent, and ready for use in compliance.

This woven fabric of normalized data is information is exposed as SQL, stackArmor warehouses that reflect the live state of the system's security posture.

- Analysts can correlate control impact
- Compliance managers can instantly see
- Auditors can query live data directly

When FedRAMP 20x launched its pilot infrastructure in place to ingest the FedRAMP KSIs. As the KSIs continue to evolve as new frameworks such as DoD Zero Trust, Armory20x can trivially extend the existing approach positions us to perfectly address evolving threat landscape.

Our ability to weave security and compliance into a single fabric will enable stackArmor to lead the next generation of compliance tools that enables Armory20x customers to efficiently, and gain visibility at a depth

Future Directions: Expanding Query-Based Compliance

The success of the FedRAMP 20x pilot opens the door to extending the query-based compliance methodology to additional frameworks and deeper levels of assurance. A number of future developments are on the horizon for stackArmor.

- **Full FedRAMP Baseline Coverage:** The 20x pilot focused on a limited set of KSIs (essentially a subset of controls for FedRAMP Low). A logical next step is to expand automated checks to cover the entire FedRAMP baseline. In practice, this means creating queries for hundreds of controls, beyond the "critical indicators" in the pilot. Many baseline controls are procedural or policy-oriented, which has posed a challenge in the past, but stackArmor now has an established a pattern of developing plugins that can be utilized to query information from all running services within a system boundary and is confident its approach can address these challenges. The open-source community is already moving in this direction; for example, there are open-source compliance mods that map AWS configurations to NIST 800-53 Rev-5 and even provide benchmarks for FedRAMP Low and Moderate (90+4) controls; stackArmor's own mod utilized queries from the official GCP compliance mod, as well as custom queries based on the unique environmental configurations. The future path will involve integrating broader benchmarks and tailoring for specific environments, eventually achieving complete coverage of all FedRAMP baseline requirements through code. Reaching full coverage will also involve further development of plugins to expand the ability to query the Information Technology Service Management (ITSM) and other security services running in the environment (e.g., SIEM, FIM, etc.). While in development of full coverage, even partial automation of the baseline will drastically reduce the effort to achieve and maintain FedRAMP authorizations.
- **DoD Zero Trust Architecture Compliance:** The U.S. Department of Defense's Zero Trust Architecture (ZTA) strategy calls for a robust set of capabilities across multiple pillars (Identity, Device, Network, Application, Data, etc.) to eliminate implicit trust. Organizations aiming to comply with DoD Zero Trust guidelines face a broad and complex set of requirements, often outlined as capability roadmaps with numerous activities and checkpoints. A query-based methodology will be able to monitor Zero Trust adherence in real time.
 - For example, a library of checks corresponding to each of the DoD Zero Trust capabilities which will verify things like: all user accounts have MFA enabled and recent credential rotation (Identity pillar), all devices on the network are known and meet security baselines (Device pillar), all network traffic is passing through defined inspection points (Network pillar), sensitive data is encrypted at rest and in transit (Data pillar), and so on.

Many of these checks overlap with existing controls (indeed, Zero Trust is an amalgamation of best practices from various domains). With cloud-centric operations, it's feasible to query identity providers, endpoint management systems, network configurations, and application settings to gather evidence of Zero Trust controls.

Future versions will allow organizations to maintain a Zero Trust compliance dashboard analogous to the KSI dashboard, showing their live status against each pillar's criteria. As DoD starts to require proof of Zero Trust implementations, having a ready-made set of queries to demonstrate compliance will be invaluable. stackArmor's Armory platform¹⁶, which emphasizes zero-trust principles ("in-boundary" security services, per their FedRAMP marketplace listing), will extend its query mod to explicitly cover the DoD Zero Trust reference architecture. This will include mapping existing controls to the DoD's Zero Trust Capability Model and developing new and innovative controls to provide agencies with confidence that all Zero Trust measures are not only designed but continuously verified.

- **Automating DoD STIG Compliance Mapping:** Beyond higher-level frameworks like FedRAMP and Zero Trust, there is also the granular world of DISA Security Technical Implementation Guides (STIGs). STIGs are detailed checklists for securely configuring specific technologies (operating systems, databases, network devices, cloud services, etc.), required in both FedRAMP and DoD environments. Currently, STIG compliance is often checked via manual review or scanning tools like SCAP or Nessus. The query-based approach offers a path to automate STIG checks in a scalable way. Our pilot already took a step in this direction by incorporating the Okta STIG rules into their compliance mod, demonstrating that even SaaS configuration guides can be codified. Moving forward, stackArmor will develop additional plugins and controls for additional STIGs such as:
 - An Active Directory Domain STIG mod that queries settings to ensure password sharing for local admins is disabled, or
 - A Kubernetes STIG mod that checks a cluster's configuration against the STIG requirements.

In cases where direct querying is difficult, integration with scanning tools will fill the gap. stackArmor's use of a scanning tool plugin to retrieve host compliance data (like FIPS 140-3 settings) is a good model from which we will build. Our roadmap includes expanding that to model cover all applicable STIG checks.

The environment's scanner runs periodically, and then the query framework picks up the results and merges them into the compliance dashboard.

Automating STIG compliance would significantly ease the burden on DoD contractors and systems integrators who must harden systems according to these guides. It also ensures consistency, the same script is used to check the control every time, reducing human error. In essence, this approach brings the "security as code" ethos down to the configuration baseline level.

¹⁶ See stackArmor's Zero Trust White Paper for The Armory.

13

Future of Compliance White Paper Continued



In all these future paths, a common theme is standardization and sharing. As organizations build query sets for various frameworks, publishing them (where permissible) as open modules enables a network effect: improvements from one team benefit all, and auditors become familiar with a common set of automated controls. The technology underpinning our approach is flexible enough to adapt to multiple domains, boding well for multi-framework compliance unification.

Implications for Organizations Adopting the Methodology

The move toward query-based, continuous compliance has significant implications for how organizations manage security and audits:

Real-Time Visibility and Control

Perhaps the most immediate benefit and security teams gain near real-time out about compliance drift during a audit. This aligns compliance with the agile For auditors and risk managers, con focus on trend analysis (are things a point-in-time checks.

Improved Consistency and Accuracy

Automation ensures that a control eliminates the variance that can occur different ways. It also virtually elimin For example, if a script is checking automation won't accidentally overle something in a large spreadsheet.

Of course, the accuracy is only as go of peer review and validation of the The open-source nature of the stad one can expect that widely used o recognized by compliance bodies.

Reduced Audit Fatigue and Cost:

By automating evidence collection, organizations can dramatically reduce the manpower spent on preparing audit materials. Manual evidence gathering (screenshots, spreadsheets, lengthy narratives) can be replaced with automated reports and dashboards leading to large reductions in compliance efforts.

	Traditional Approach (Before)	Armory20x Query-Based Approach (After)
Time to Prepare Audit Package	~8-12 weeks of manual evidence gathering, screenshots, and document compilation.	~2-3 weeks to configure automated checks and deliver machine-readable results. Evidence can be regenerated in minutes at any time thereafter.
Engineering Hours Consumed	1,000-1,500 hours annually across multiple teams.	400-600 initial investment to establish the query-based compliance structure. 100-200 annually after initial install with the majority invested in improving and evolving controls rather than gathering artifacts.
Audit Confidence	Moderate Evidence represents a point-in-time snapshot and is vulnerable to drift. Assessors must extrapolate whether findings remain true beyond the collection date.	High Evidence is drawn from live system queries, is source controlled, and repeatable. Auditors can validate the automation itself, reducing ambiguity.
Likelihood of Findings/Delays	High Manual processes introduce errors and gaps; remediation cycles often extend authorization timelines.	Low Automated benchmarks consistently cover 100% of the environment, minimizing overlooked gaps and enabling rapid remediation prior to audit.
Net Impact		
<ul style="list-style-type: none"> ~60-70% reduction in prep time for assessments. ~50-60% fewer engineering hours consumed annually. Higher confidence levels for both system owners and auditors, due to transparent, repeatable queries versus static, curated artifacts. 		

Table 3: Metrics for Implementing Query-Based Approach

Broader Organizational Impact:

Embracing continuous, automated compliance can foster a culture change. Compliance is no longer a "fire drill" event every year but becomes part of daily operations. Developers and engineers can get immediate feedback if a deployment would break a compliance rule, akin to how unit tests flag code issues. This can drive a more proactive security posture, essentially baking compliance into the DevOps pipeline. Additionally, having a live compliance dashboard can improve communication with management and customers.

It's a powerful thing to be able to show a live compliance scorecard to stakeholders, increasing overall system trust.

For the public sector and regulated industries, widespread adoption of these techniques will lead to what stackArmor envisions on their website:

An explosion in the number of authorized cloud services because the cost and time to achieve compliance drop dramatically.

FedRAMP itself hopes to see a jump from a few hundred authorized services to thousands, and stackArmor's automation will be a key enabler of that growth.

Challenges and Considerations:

A middle-of-the-road view must acknowledge that automating all aspects will take time, technology and skilled engineering, and adopting this methodology requires investments. Some considerations are as follows.

- Organizations will need skilled personnel who can translate compliance requirements into queries, a blend of compliance knowledge and scripting/SQL ability. This includes a need to maintain the scripts as environments and regulations change.
- Some controls (especially in areas like personnel security, physical security, or policy) are inherently qualitative and will still require some amount of human judgment.
- The query-based approach will complement auditors, not fully replace them. Auditors will shift to validating the automation itself and focusing on the non-automatable gaps.
- Another consideration is tool integration: ensuring that the query tools are properly configured, secured, and fit into the organization's architecture (especially for on-premises or air-gapped systems, where internet access for plugins might be an issue to solve).

stackArmor's approach of building trust in the automated benchmarks is real-world, instructive example. Organizations adopting this approach should similarly plan to work closely with their internal or external auditors initially to gain buy-in. These challenges are surmountable but

Conclusion

The "future of compliance" is unfolding now in initiatives like FedRAMP 20x, where code and data take center stage over paperwork and spreadsheets. stackArmor's Armory20x pilot has demonstrated that a query-based continuous validation methodology is not only feasible but highly effective for meeting rigorous security requirements. By representing controls as code and leveraging real-time cloud data, organizations can achieve a level of visibility and responsiveness in compliance that was previously out of reach. The technical foundation, using tools to bridge cloud APIs and compliance logic, provides a repeatable pattern that can extend to numerous frameworks, from FedRAMP baselines to DoD's emerging Zero Trust mandates and beyond.

This white paper examines how stackArmor has begun to implement this novel approach, the outcomes of its efforts so far, and the potential to further broaden the methodology to full control coverage and other domains such as STIGs. The analysis shows that moving to automated compliance is not about eliminating humans from the loop, but rather about empowering both engineers and auditors with better tools and real evidence. As the industry and government bodies gain more experience with automated audits, we can expect official standards to evolve in parallel.

stackArmor imagines a world where future compliance regimes will explicitly provide machine-readable control definitions and accept continuous audit leads as evidence, evolving the compliance landscape as we know it. The future of compliance is one where automated checks and live evidence largely supplant static documents, where compliance status is continuously knowable, and where achieving authorization is faster and more transparent.

For IT professionals with audit and compliance duties, the implications are clear. It is time to treat compliance controls with the same discipline as software engineering: version-controlled, tested, and continuously executed. The query-based methodology offers a practical blueprint to do so, with proven success in a FedRAMP context. Adopting these practices can lead to more secure systems (since issues are caught sooner), as well as faster and cheaper audits. Moreover, when many organizations adopt this methodology, it has a cumulative benefit: a community of practice can share control queries and improvements, regulators become more comfortable with automated evidence, and the overall state of security compliance advances.

The journey has begun with the pioneering efforts of stackArmor's Armory20x and will continue to accelerate. Organizations that embrace this shift early will be well positioned to navigate the evolving landscape of security compliance, turning what was once a painful process into a streamlined, engineering-driven advantage.

This is the future, and all stakeholders are welcome to participate. In query, we trust. Come and see¹⁴.

¹⁴ stackArmor/armory-20x-public. Publicly accessible FedRAMP 20x pilot program submission for stackArmor's Armory 20x system



www.stackarmor.com/Armory



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Armory ZTA White Paper

Meeting Zero Trust Controls Natively in stackArmor's Armory on Google Cloud



As cyber threats grow increasingly sophisticated and persistent, federal agencies and their partners must evolve their security postures to align with modern defense paradigms. The Department of Defense (DoD) Zero Trust Reference Architecture (ZTRA) v2.0 outlines a transformational shift away from perimeter-based defenses toward a "never trust, always verify" model that enforces least privilege, continuous validation, and policy-based enforcement across every aspect of the digital enterprise.

stackArmor's *The Armory* is a secure-by-design General Support System (GSS) purpose-built to streamline FedRAMP and DoD Impact Level (IL) authorizations for Independent Software Vendors (ISVs), and Mission workloads. Agencies are seeking accelerated and lower cost pathways to meeting mission needs in a secure and compliant manner. The cloud, security and compliance experts at stackArmor have developed the Armory on Google Cloud to incorporate zero-trust architecture elements that are validated by the implementation of zero-trust control overlays that are directly integrated into the architecture as opposed to being a "bolt-on." Our design is uniquely zero-trust native implementation.

This white paper provides an in-depth overview of The Armory's system architecture, as detailed in its System Security Plan (SSP), against the seven foundational pillars of the DoD's Zero Trust framework. The Armory™ not only meets but often exceeds the "optimal" capability tier envisioned by the DoD ZTRA, providing defense, federal customers and ISV partners with a secure, scalable foundation for mission-critical operations.

7 Pillars of Zero Trust



User Pillar

The Armory's identity and access management principles. It employs high-assurance user authentication (MFA) and single sign-on (SSO) at (AAL3). All administrative and security applications (SAML/ADAPS) federation, ensuring unified identity environment. This meets DoD ZTRA's emphasis (person and non-person) for every access request.

- High-Assurance Identity Management:** provides Cloud (GHC) as a centralized IdP for all user authentication (MFA) and single sign-on (SSO) at (AAL3). All administrative and security applications (SAML/ADAPS) federation, ensuring unified identity environment. This meets DoD ZTRA's emphasis (person and non-person) for every access request.
- Adaptive and Token-Based Authentication:** The Armory uses phishing-resistant factors (per AAL3). Has provided through Okta FastPass or Yubico's YubiKey.
- Privileged Access Controls:** The Armory strictly controls privileged infrastructure users authenticate via Google's Identity-Aware Proxy (IAP). This enforces a secure software-defined perimeter, tying user identity. Additionally, partners/customers can manage their own projects/landing zone with role-based access and Virtual Private Clouds (VPC) are used for flow authorizations. This reflects ZT principles of least privilege and minimal implicit trust.
- Continuous Identity Analytics:** After strong initial authentication, the system monitors real-time user behavior, incorporating User Behavior Analytics (UEBA) to monitor anomalous account activity & actions) to ensure privileged users are performing good rulesets.
- Non-Person Entity (NPE) Identity Management:** The Armory manages all machine-to-machine (M2M) service accounts and application identities (authenticated, least-privilege service identities) and ensuring all machine-to-machine (M2M) service accounts and application identities (authenticated, least-privilege service identities) are auditable use. The Armory manages all machine-to-machine (M2M) service accounts and application identities (authenticated, least-privilege service identities) in accordance with ZTA requirements.

The User pillar is key to controlling who and what has access within the system. The system implements continuous identity monitoring which complements the secure authorization (SA) capabilities implemented via Okta MFA and IAP. The system's adaptive authentication features fully for privileged users to dynamically adjust based on access required. In addition, Integrated identity analytics continuously monitor user session risk and aligns with DoD's goal of continuous validation of user trust.

All service accounts, APIs, and CI/CD pipelines use unique identities with protections and follow strict rotation and least privilege. NPE usage patterns are monitored via the Security Information and Event Manager (SIEM) for any risk review upon detection.

Device Pillar

The Armory's architecture imposes tight control over devices that interact with the system, especially for administrative access, with focus on ensuring a minimal level of control to allowing device access. In addition, strong host-based protections are deployed to control what is allowed to run and on which devices this is allowed through authorization boundary. The system implements:

- Secure Access for Administrator Devices:** The requirement that all privileged access to the system is performed through a controlled ingress (Cloud Load Balancing and NGFW) and must be explicitly allowed, reducing the risk from unauthorized devices.
- Endpoint Posture Checking:** The system performs real-time posture checking if an admin's laptop has up-to-date patches, a secure baseline, etc. The system continuously validates device health (OS patch level, antivirus status, etc.) prior to and during privileged user sessions.

- Endpoint Security on Servers:** Each server and workload instance in The Armory is treated as a hardened device. The system includes host-based security agents such as Trend Micro Deep Security for anti-malware, HIDS/HIPS) and performs regular vulnerability scanning (Tenable Nessus) on VMs. These measures align with ZT device capabilities by ensuring that every compute instance is monitored for threats and kept in a known secure state. The SSP's inventory of update sources (e.g. for Trend Micro, Nessus, etc.) shows that the Armory maintains patch and signature updates for in-boundary software, contributing to continuous device (server) compliance.

- Device Compliance Enforcement:** Although not explicitly a user endpoint control, the Armory enforces that no unmanaged or non-FedRAMP devices can persistently connect to its environment. By disallowing any persistent connections to external systems at lower assurance levels, the architecture implicitly requires that any device or system interfacing with the Armory meets equivalent security standards. This reflects a Zero Trust mindset of not trusting devices by default – only those from known, secure environments are permitted.

By design, The Armory requires the validation of all devices before allowing communication tunnels to be established, regardless of the privilege level of the user. By incorporating device posture checks and requiring that connecting are checked for compliance (patched OS, full disk encryption, FIPS-validated Trusted Platform Module (TPM), screen lock) before tunnel establishment. This aligns with DoD's Continuous Compliance mandate for devices.

Network & Environment Pillar

The Armory's network architecture is designed with strong segmentation, boundary control, and least-privilege connectivity, embodying core zero trust network concepts. Each tenant/application environment is isolated, and all traffic, internal and external, is tightly governed by policy. This pillar shows comprehensive compliance with ZTRA guidance at an optimized level. The system minimizes implicit trust in the network by enforcing micro-segmentation, encryption in transit, and continuous monitoring of network traffic. Key highlights of security design within this pillar include the following:



Armory ZTA White Paper Continued

- Strong Segmentation of Enclaves:** The Armory uses a multi-tenant government-only cloud with VPCs and projects for each customer or application. Network access control and routing policies ensure each landing zone is completely segregated from others. In other words, there is no flat network – every application environment is a distinct segment with logically isolated subnets. This design contains any potential breach and maps to the ZT principle of micro-segmentation (down to the application/tenant level).
- Default-Deny and Least-Privilege Traffic Policies:** All network traffic, both north-south and east-west, is subject to explicit policy whitelisting. The Armory employs Palo Alto Next-Generation Firewalls at the boundary and within a shared network hub to inspect and filter all system traffic. By policy, no traffic is allowed unless explicitly authorized. For example, even inter-service flows between components must be opened by rule, and any external inbound access (for user-facing apps) must traverse approved points. This approach aligns with DoD ZTRA's ideal that no network traffic is implicitly trusted. The system requires that all traffic must explicitly be allowed via traffic flow policies and whitelisting.
- Identity-Aware Network Access:** The use of Google Cloud's Identity-Aware Proxy (IAP) integrated with load balancers means that network access to internal resources (like admin interfaces or SSH to VMs) requires user identity verification at the network layer. This tightly binds the network pillar with the user pillar – only authenticated, authorized requests get through. For privileged access, an admin's connection to a VM is not a direct network path but rather brokered by IAP and the firewall, ensuring the network never exposes listening ports unless the user is verified. This significantly reduces attack and exemplifies Zero Trust "authenticate before connect."
- Encrypted Everywhere:** There is a significant emphasis on encryption throughout the environment. Internal service-to-service communications in Kubernetes clusters the guidance is to use mutual TLS (mTLS) for all communication. All data in transit is encrypted. For external communications, FedRAMP and DoD workloads, inside the cloud environment, it uses TLS. The zero trust tenets that the network is always encrypted.
- Egress Restrictions:** The Armory's environment restricts outbound internet access to only specific update sources and trusted domains. Outbound traffic is limited to known URLs over TLS. By preventing data exfiltration and C2 channels. Any anomalous traffic is flagged as an anomaly. This whitelisting of external end-points where even outgoing traffic is governed by policy.
- Micro-Segmentation & Software-Defined Networking:** Micro-segmentation at the workload or process level is achieved with VPC isolation. Allow lists are used to further reduce the attack surface inside the enclave.

The Armory takes a "trust no workload" stance, where even if an attacker compromises one workload, there is no pathway to freely reach others. Integrated log analysis has been established for key segments to enable better clarity and to support threat hunting. Security Engineers and Analysts are provided the tools needed to monitor and act against threats in near-real time.

The established trust zones are periodically reviewed and updated to ensure they align with real-world threat vectors and evolving threat landscapes. The goal is of the system design is to eliminate any "flat" subnet where numerous services can talk without checkpoints. This aligns with DoD's goal of *segmenting and isolating everything possible* to mitigate intrusions.



Application & Workload Pillar

The Armory's architecture implements a comprehensive Secure Software Development and Deployment Framework, providing security controls for applications and workloads from development through runtime. By delivering pre-hardened environments, integrated vulnerability management, The Armory addresses the following:

- Continuous Vulnerability Management:** The Armory performs continuous scanning of running workloads and dependencies. It leverages tools like Tenable Nessus for vulnerability scanning and scans containers at least every 30 days (with a policy that no image older than 30 days, unscanned, should be in production). Any findings are handled per FedRAMP SI-2 (law remediation) processes in GitLab, which functions as the system's Information Technology Service Management (ITSM) platform. These practices ensure known vulnerabilities are quickly identified and patched, which is key to a Zero Trust workload posture (assuming workloads may be targeted, one must minimize their weaknesses at all times).
- Runtime Threat Protection:** Workloads in The Armory are instrumented with security agents and monitored. The presence of host-based IDS/IPS, anti-malware (Trend Micro Deep Security), and file integrity monitoring on servers ensures that if an application process behaves maliciously, it can be detected or stopped. Moreover, all intra-cluster communications are encrypted (FIPS mode on hosts or via service mesh), preventing attackers from intercepting sensitive data between microservices. These controls embody DoD ZTRA's guidance that workloads should be secure, continuously monitored, and resilient to compromise.
- Isolation and Least Privilege by Design:** Each application or customer workload is not only on a separate network but also deployed in its own GCP project with separate service accounts and access controls. Partners or developers cannot change security controls of the underlying GSS, and their privileges in their landing zones are limited. This is achieved through network isolation.

When an application deployed on The Armory starts in a pre-protected GCP project/VPC with security controls and FedRAMP and DoD Impact Level (IL) 5 baseline controls. These include IAM policies, network settings, logging, and container security. Infrastructure-as-code through Terraform. Providing this inherent strong security from inception (least privilege principle), reducing misconfiguration risk. This maps to the ZT principle of secure configurations by default.

StackArmor has built security into the software lifecycle. Notably, The Armory's ThreatAlert Container with GitLab to scan container images for vulnerabilities detected through a Findings Lifecycle Manager (FLM) in the deployment. Additionally, static and dynamic code analysis, and infrastructure code is tested in a staging environment. This end-to-end integration ensures that no security checks, aligning with DoD's emphasis on secure development.

The Armory embodies the "secure-by-design" mindset. The StackArmor Architects and Engineers support partner applications onboarded to the system and provide them with guidelines to design their application architecture in a zero-trust manner as well. This includes building their app with strict role-based access internally, robust input validation (to prevent trusting any client data), and integrating with The Armory's centralized auth and logging. By propagating ZT principles into the application layer (not just the infrastructure), the overall system moves closer to a holistic zero trust implementation.

The system enforces that applications use cloud-managed identities and keys rather than static credentials. Google Cloud's Workload Identity Federation and KMS are leveraged so that VM instances, containers, and serverless functions each have a distinct, auditable identity and access only the secrets they require ensuring that all parts of The Armory are as secure as the next.

Through use of automated configuration scanning tools, the system ensures all workload configurations stay hardened at all times. Security Engineers work with ISVs to ensure their applications are secure not just during deployment, but throughout the system lifecycle and work with them to address any "drift" from these secure baselines as it is encountered.

Data Pillar

Data within The Armory is well-protected through a combination of strong encryption, access controls, and monitoring. The platform enforces Federal standards (FIPS 140-2/3, FedRAMP High, DoD IL5) for all data at rest and in transit, aligning with DoD's data pillar objectives to encrypt and strictly control data access. The architecture provides a solid foundation for data confidentiality and integrity (via encryption and separation), while also enabling availability through backups. The Armory demonstrates mature data security measures consistent with ZTRA guidance through:

- Universal Encryption (Data-In-Transit & At-Rest):** The Armory implements end-to-end encryption for all data flows. All data in transit is encrypted with FIPS-validated cryptographic modules within the boundary, including internal service communications. For example, internal API calls or database connections use TLS; container orchestration traffic is encrypted via FIPS mode or service mesh. Externally, TLS 1.2+/HTTPS is enforced for user connections. Data at rest in databases and storage is also encrypted using FedRAMP-approved Google Cloud services native services with KMS customer-managed encryption keys (CMKs). This comprehensive encryption strategy meets DoD's mandate to protect data everywhere, both "in motion" and "at rest" are covered, limiting exposure in case of interception or theft.



- Strict Cryptographic Standards:** The Armory adheres to FIPS 140-2/3 compliance for all encryption mechanisms. Only cryptographic modules validated under FIPS 140 are permitted, and verification of module certificates via the NIST CMVP database before deployment is required. Non-compliant modules are prohibited. This ensures that data protection meets DoD and federal standards (no usage of weak or unapproved algorithms), achieving a high level of assurance in data confidentiality and integrity.

- Data Segregation by Tenant:** Each customer's data resides in their dedicated project and storage, segregated from other tenants' data by design. Access to one tenant's data is not possible from another tenant's environment, which is a critical consideration for multi-tenant zero trust, where one should assume no inherent trust even within a shared platform. All partner data and services are enclosed in their own landing zone. This strong data isolation aligns with the zero-trust principle of minimizing data access scope.

- Backups and Resilience:** The Armory includes Contingency Planning and Backup capabilities as a core service. Data is regularly backed up, and services are built with high availability. This means the integrity and availability of data are maintained even in adverse events, an important aspect since zero trust also considers ransomware or destructive attacks. In addition, continuous verification of the integrity of those backups is implemented. With backups in place, encrypted, protected and validated, the system provides assurances that data can be recovered if compromised.

- Monitoring of Data Access:** All access to data stores (e.g., database queries, file access) is logged via Cloud Audit Logs and ingested into the SIEM. The SIEM alert use-cases include data deletion or access events, meaning the security team is alerted on unusual data access patterns.

- Data Loss Prevention at Egress:** By virtue of the egress restrictions mentioned, the platform reduces risk of unauthorized data exfiltration. There are no open channels to send sensitive data out except those explicitly allowed, all of which are monitored. Additionally, the Palo Alto NGFWs at the boundary enable inspection of outgoing traffic (to detect, for example, large data transfers or known sensitive data patterns). These patterns enforce Data Loss Prevention (DLP).

Secure data by design is one of the key pillars of the system. Ensuring data is always encrypted, be it at rest, or in transit, is a hard requirement for ISVs deployed within the GSS. The use of CMKs ensures that data owners always have direct control over their data. This empowers data owners to protect and control their sensitive data to meet their needs and ensures that all data within the system is trusted only to those users that have explicitly been granted privileges to that data.

Armory ZTA White Paper Continued



Automation & Orchestration Pillar

The Armory demonstrates a strong commitment to automation and orchestration, using infrastructure as code, continuous integration pipelines, and automated security responses in several areas. This pillar is well-addressed through the platform's ThreatAlert tooling and DevSecOps practices that automate monitoring, patching, and compliance tasks. The system implements the DoD's Zero Trust automation objectives via:

- Infrastructure as Code (IaC) & Consistency:** The entire Armory environment (and customer landing zones) is deployed and managed via Terraform modules. Changes to configurations are tested in staging and require formal approval before production. This IaC approach ensures standardization and repeatability ensuring security controls are not manually applied ad hoc, but rather embedded in the templates. It also means the platform can rapidly instantiate secure environments or update configurations at scale, a key for orchestrating Zero Trust policies enterprise wide.
- Automated Security Monitoring & Response:** The Armory's ThreatAlert(R) Security Workbench (TSW) provides real-time monitoring, and the platform includes automated alerting and responses to incidents. For example, when a potential security incident is detected, alerts are not only sent to personnel but can trigger automated actions. Additionally, Google Cloud's Monitoring/Alerting is configured as code (policy-as-code for alert definitions) and sends outputs to collaboration tools (GovSlack and GitLab issues) via the ThreatAlert(R) Serverless Relay (TSR). This integration means that the moment an alert fires, it is automatically routed to the Security Analyst team and logged for investigation, reducing response time and ensuring no alert is missed.

- Continuous Compliance & Reporting:** StackArmor has integrated machine readable compliance artifacts using open standards like Markdown and Open Security Controls Assessment Language (OSCAL) tooling and detailed compliance reporting into the Armory's operations. The system's security controls and status are automatically tracked and can generate up-to-date security posture reports in near-real time. Automating compliance evidence collection and reporting is a significant orchestration benefit, aligning with DoD's push for continuous ATO processes. The system also automates key aspects of Continuous Monitoring requirements through scheduled and automated compliance tasks, Plan of Action and Milestones (POA&M) management, and automated vulnerability and compliance scan analysis.
- Integrated DevSecOps Pipeline:** The development pipeline itself is orchestrated for security. With GitLab as the central platform, vulnerability scans, configuration scans, and ticketing are all tied together. For instance, when the ThreatAlert(R) Container Services (TCS) finds a vulnerability, it automatically creates or updates issues in GitLab (via the ThreatAlert(R) Findings Lifecycle Manager) for developers and engineers to address. The use of GitLab for change management and the Change Control Board process is tightly coupled with the automation (tickets, merge requests, etc., drive the promotion to production). This reduces human error and ensures that security steps cannot be skipped in the deployment process, essentially orchestrating security gates into the Continuous Integration/Continuous Delivery (CI/CD) workflow.
- Orchestrated Network and Access Control:** The Armory uses automation in network and access realms too. Cloud configurations for logging, monitoring, and IAP are managed programmatically. Alert baselines are "managed as part of IaC". Service Control Policies and firewall rules are deployed through code templates for each project. This ensures that when a new project (landing zone) is created for a customer, all necessary ZT controls (network segmentation, IAM roles, logging sinks, etc.) are automatically instantiated without lag or omission. It shows a high level of orchestration, such that security is not reliant on manual setup.

Wherever possible, system architects leverage automation to enforce security updates across the environment. If a new baseline configuration is required (due to a discovered vulnerability or new hardening guideline), Terraform and scripts are utilized to push that change to all relevant cloud resources quickly. The revision history shows active updates (e.g., replacing insecure components, updating diagrams, etc.); having an automated method to do these ensures consistency. Integrated config management tools for live state further complement Terraform to maintain a consistent system state.

The culture of stackArmor has adopted the DoD Zero Trust Culture and it mandates its teams to trust and rely on automation to enforce security, rather than trying to bypass it. As technology evolves, the system evolves to further automate and enhance these processes, ensuring The Armory is a step ahead of nefarious actors.



Visibility & Analytics

The Armory excels in providing a comprehensive view of the environment and leveraging analytics to detect anomalies from every layer; cloud infrastructure, applications into a centralized dashboard and alerting. This provides the visibility and alerting that a zero-trust environment expects. "The security posture" is measured in terms of risk and visibility into system components.

- Centralized Logging and SIEM:** The Armory centrally collected using Google Cloud's system SIEM. The Armory fully integrates OS logs, VPC flow logs, firewall logs, vulnerability scanners, and other security tools into a single project. This comprehensive log aggregation across all planes of the cornerstone of Zero Trust, ensuring all events are visible and actionable.
- Real-Time Alerting and Dashboarding:** Monitoring is set up with dashboards (managed via IaC) to detect attempts, DoS patterns, suspicious activity, and changes to critical assets. Alerts are automatically forwarded to the appropriate personnel for immediate triage. This capability, combined with continuous monitoring and alerting, ensures that security incidents are detected and responded to in minutes.
- Continuous Monitoring Operations:** Having dedicated analysts watch the TSM in-boundary for tracking anomalies and responding to incidents, which allows for historical analysis and organizational commitment to security. The DoD ZT model calls for under the Visibility pillar, not just tooling, but people and processes actively engaged in using the telemetry.

- Long-Term Data for Analytics:** The Armory configures log retention to align with federal guidelines – logs are kept for 30 months in object storage. This is important for forensic analysis and spotting slow-developing trends or repeated patterns over time. With extensive log storage, analysts can perform deep dives (e.g., searching if a newly discovered Indicator of Compromise appeared in the past) and machine learning models are trained on a large volume of data to improve anomaly detection. Retaining this volume of data shows the analytical capabilities of the monitoring team.
- Single Pane of Glass – stackArmor:** stackArmor has created a proprietary application of the Workbench (TSW) to provide visualization of system state on an ongoing basis. Each Data Owner also has near-real time visibility into the running system. Having such a dashboard in their Continuous Monitoring requirements. Having such a dashboard in their Continuous Monitoring requirements. Having such a dashboard in their Continuous Monitoring requirements.
- Periodic Red-Team Simulations:** To validate and improve visibility, regular simulation exercises are conducted as part of continuous monitoring. These exercises identify any blind spots exist in logging or if any malicious activity fails to trigger alerts. Utilizing lessons from these exercises to further tune the analytics. Over time, the system automation helps to calibrate monitoring rules where any malicious or policy-violating action is noticed and responded to.

As seasoned security professionals, stackArmor understands that monitoring only provides value if that data is focused and actionable. The Armory was designed to be gathered in the day-to-day operations of the system is consistently being fed to the right teams at the right times to act when action is needed.

Zero Trust Overlays Alignment



The DoD Zero Trust Overlays provide adaptations of the Zero Trust principles, ensuring that the right controls in the right operational context naturally aligns with these overlays by correlating compliant controls with mission-tailored Zero Trust. By leveraging capabilities such as identity, continuous monitoring via tamper-resistant logs through NGFW and VPC Service Controls, the security posture that meets the overlay into critical workloads. This alignment ensures that the baseline ZTA requirements but driven protections expected in high-assurance environments.

Conclusion

The Armory exemplifies a modern, zero-trust native implementation of the DoD Zero Trust Reference Architecture, weaving together secure user and device authentication, network micro-segmentation, encrypted workloads, continuous monitoring, and policy-driven automation into a cohesive and operationalized security fabric. Every element of the system, from its pre-hardened landing zones to its integrated ThreatAlert(R) Security Workbench, reflects the core tenets of "never trust, always verify" and "assume breach."

By unifying Identity-as-a-Service, FedRAMP-compliant cloud-native controls, and automated compliance orchestration under a single secure architecture, The Armory delivers a turn-key Zero Trust environment aligned with both FedRAMP and DoD cybersecurity expectations. Its design enables ISVs to rapidly deploy secure, resilient SaaS offerings within a trusted framework that meets the rigor of national security-grade standards.

With its foundational alignment to the DoD ZTRTA and its commitment to continuous innovation, The Armory not only provides an effective blueprint for Zero Trust implementation, it sets a benchmark for the future of secure cloud service enablement across the federal landscape.

<https://stackarmor.com/armory/>



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Created stack/Tyto Integrated Logo Mocks for GP

Upon being asked, created a number of integrated Tyto/stackArmor logos as original vector illustrations.

- Created logos for both stackArmor and the Armory.
- Provided these to GP.

GP Ask - Concept Logos that Blend Tyto with stackArmor



Designed Multiple Blog Header Graphics

Created multiple blog headers to align with blogs.

- Invested my own money in stock art subscription, showing my commitment.
- Created images using original illustrations combined with creative imagery collage techniques.



Blog Header Images Continued



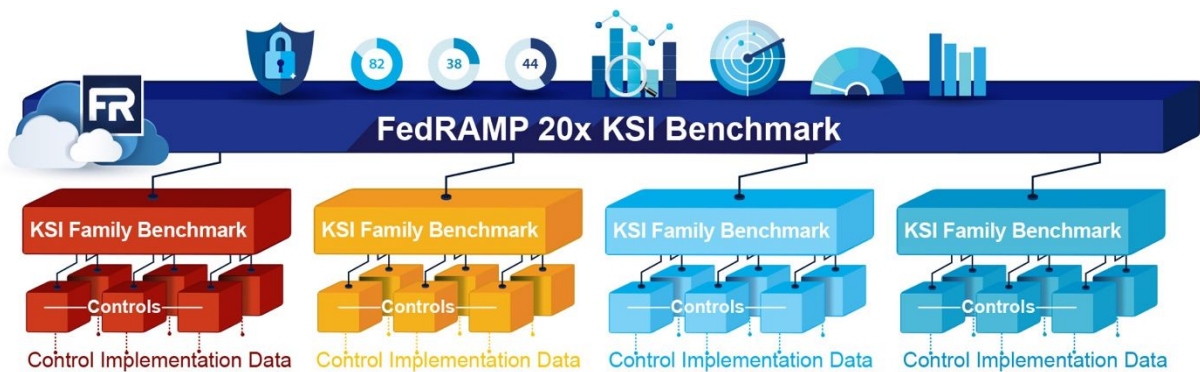
Raised the Professionalism Bar by Creating Many Bespoke, Original Illustrations

Beyond any job description I was hired for, I've provided stackArmor with high quality graphics support without them needing to hire a graphics artist!

▪ Johann provided most of the content for the blogs, while I added, edited, and formatted into publish-ready artifacts.



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Examples of Bespoke Vector Illustrations Continued

Step 1

Start with Secure-by-design deployment

Our security stack is built and deployed as code with security in mind: FIPS-validated crypto, centralized logging and monitoring, vulnerability and configuration management, backup/CP, boundary protection, and zero-trust overlays. All this is pre-baked into the stack and deployed via infrastructure-as-Code (IaC) to ensure secure, compliant configuration.

Step 3

Be FedRAMP Moderate Equivalent by design

ThreatAlert® is purpose-built to meet the DoD memo's requirements. When DIB customers are looking for a tried-and-true MSP that they can trust, you can provide all the necessary authorization and validation information to prove they are in good hands.

Step 5

GovRAMP without any translation

With Moderate-equivalent as your baseline, your evidence pack matches GovRAMP's model. You're not hand-waving reciprocity; you're aligning baselines and reusing testing artifacts.



Step 2

Instrument with ThreatAlert

Our Security Workbench automates the Continuous Monitoring (ConMon) processes and orchestrates the creation of deliverables (e.g., Plan of Action and Milestones (POA&M), system inventory, vulnerability reports, etc.) to ensure you are validation-ready at a moment's notice.

Step 4

Map forward to IL4/IL5

Because the DISA Cloud SRG sits on top of FedRAMP, ThreatAlert also accounts for the SRG deltas (the + in FedRAMP+). This positions your organization to take advantage of the DISA Provisional Authorization (P-ATO) process and become widely available to DoD agency customers.

7 Pillars of Zero Trust



User

Securing, limiting, and enforcing person and non-person entities' system access.

Device

Continuous real-time authentication, inspection, assessment, and patching of devices.

Network/Environment

Segment (both logically and physically), isolate, and control the network/environment (on-premises and off-premises) with granular access and policy restrictions.

Applications & Workloads

Applications and workloads include tasks on systems or services on-premises, as well as applications or services running in a cloud environment.

Data

Clear understanding of an organization's data, applications, assets and services (DaaS) is critical for a successful implementation of a ZT architecture.

Visibility & Analytics

Contextual details provide greater understanding of performance, behavior and activity baseline across other ZT Pillars. We have developed a unique zero-trust controls overlay dashboard to collect and present the continued zero-trust posture of the environment.


Automation & Orchestration

Automate manual security processes to take policy-based actions across the enterprise with speed and at scale.

Visual and Textual Content Development for Blogs

Transformed many instances of raw text into polished blogs, each with multiple custom illustrations.

Johann provided most of the content for the blogs, while I added, edited, and formatted into publish-ready artifacts.



Armory20x: The Shortcut AI ISVs Need for FedRAMP AI Prioritization

Independent Software Vendors (ISVs) building with AI are in a mad dash to reach the top. Every week a new foundation model, a new vector database, a new "copilot for X" drops, and suddenly your investors want it FedRAMP'd yesterday so you can sell into agencies tomorrow.

Problem is, FedRAMP AI Prioritization isn't a "fast pass" for AI systems. It's a "prove you're serious" filter. NIST controls still apply (at least the Key Security Indicators (KSIs) do), FIPS encryption still applies, continuous monitoring is still required. It isn't lowering the bar; they're just asking you to do it faster.

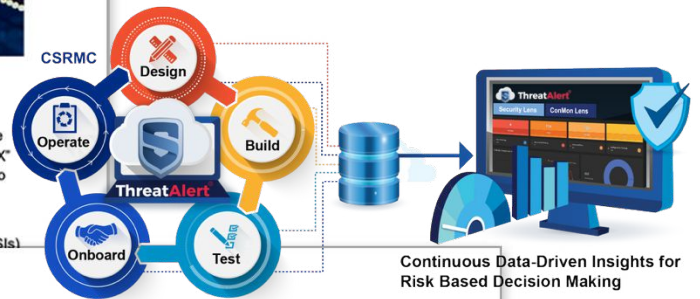
So, the question for AI ISVs becomes:

Do you want to spend your hard-earned money on compliance engineers and writing 700-page policies, or do you want to keep shipping actual AI features to your customers?

That's where Armory20x comes in.

Compliance at Cloud Speed

Traditional compliance is little more than theater. Auditors playing soccer with clipboards. Armory20x kills that deader than a pack of rowdy.



Crushing the 10 Tenets of DoD CSRMC — The Future is ThreatAlert®

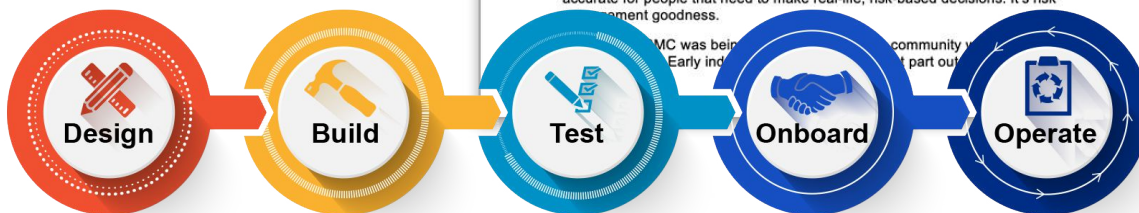
If RMF was the long-running compliance opera, grandiose sets, endless rehearsals, dead-eyed troop members that just want it to end - CSRMC is the punk-rock reboot with a break-stuff attitude, razor-sharp set list, and the Hell's Angels doing crowd control. The Department of Defense (or should I say, Department of War? No, seriously, I'm asking...) formally unveiled the Cybersecurity Risk Management Construct (CSRMC) in late September 2025, positioning it as the successor to the legacy Risk Management Framework (RMF) and centering it on a five-phase lifecycle (Design → Build → Test → Onboard → Operate).

CSRMC | Cybersecurity Risk Management Construct



Why the switch? A decade of RMF inside DoD taught everyone the same lesson: static artifacts age like dead beef in a hot car during a Phoenix summer. CSRMC replaces the long since zombified RMF with something that resembles a living thing capable of breathing fresh air. It's chock-full of talk about continuous signals, automation, and operational accountability. It explicitly aims to be faster, less burdensome, and more accurate for people that need to make real-life, risk-based decisions. It's risk management goodness.

CSRMC was being... community... Early ind... part out...





DoD SRG's Silent Earthquake:

IL5 Moved to NSS-Land. Most of You Are Actually IL4 (And That's Okay).

The Defense Information Systems Agency (DISA) has been pushing a number of Cloud Security Requirements Guide (SRG) updates in recent months. Since July 2025 we've seen:

- SRG V1R3 – dated July 02, 2025
- SRG V1R4 – dated August 13, 2025
- SRG V1R5 – dated September 03, 2025

Hey DISA, friendly request here - maybe gather everyone together and think about a roadmap of quarterly releases or an industry town hall.

While there's been a number of updates, in my opinion, it's been a bit of a mess so far. The version number whispers "minor," but the changes are anything but. You need to understand the following:

Impact Level (IL) 5 is now explicitly a National Security System neighborhood, and that's not a place most of us want to be.

The part hardly anyone is saying

Open the SRG, from version V1R3 through to the latest. Look at the changes to the IL levels, and it's unambiguous: IL5 is for unclassified information (NSI). That's IL5. Full stop.

Beginning July 2, 2025: V1R3 introduced a single

Impact Level	Baseline
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Website Page Title:

Hey MSPs: Why FedRAMP Moderate Equivalency Beats Bare-Minimum CMMC

Meta Description:

With CMMC now in contracts, MSPs in the DIB face a choice: meet minimums or go further. Learn how FedRAMP Moderate Equivalency with ThreatAlert® delivers scalable compliance, faster onboarding, and future-proof security.

Slug:

mssp-fedramp-moderate-equivalency-vs-cmmc

Implementing CMMC? Think FedRAMP Moderate Equivalent Instead.

Hey MSPs... You Should Aim Higher Than Bare-Minimum CMMC. Go Full FedRAMP Moderate Equivalent. Be Brave!

The Pentagon finally dropped the other shoe. With the Defense Federal Acquisition Regulation Supplement (DFARS) amendment now posted for public inspection, CMMC requirements officially land in DoD contracts on November 10, 2025.

Simply put, *the grace period is over! Procurement just turned into a cybersecurity filter. If you don't meet the level specified in the RFP, go home and slap yo' SSP - simple as that.*



Equivalency

1

100% coverage assessment of the FedRAMP Moderate baseline by a FedRAMP-recognized 3PAO.

2

A Body of Evidence (SSP, SAP, SAR, POA&M) available to the contractor and assessors.

3

DFARS 7012 reporting and compliance activities baked in.

Let's Not "Blow up the RMF"

stackArmor's Query-Driven 20x Approach to Modernizing Compliance



IT security people, especially those people in Compliance, love drama. Every few years, somebody trots out a seemingly edgy but ultimately trite battle cry like, I don't know... "Blow up the RMF!"

As if we're all about to light the Risk Management around the ashes (has no one ever heard of the honest, burning things down rarely fixes them. The fossilized way we've been playing the compliance screenshots that are outdated the moment you take them are obsolete the second you zip them up.

Traditional Federal information system assessments

- Write 700 pages of "implementation statements" that are only sometimes accurate.
- Have your highly skilled/paid engineers commission a freshly minted, unskilled intern.
- Ship the whole mess to auditors and pray for the best. The audit is already outdated.



How to do FedRAMP the Wrong Way

A lovingly sarcastic field guide to burning time, money, and morale

Let's start with the myth that refuses to die: **FedRAMP ATOs take 18–24 months and cost \$3–5M.**

If you follow the classic FedRAMP advisory playbook, sure. You'll spend months on a gap assessment, commission a reference architecture that looks gorgeous in PowerPoint, and then sink quarters into R&D trying to interpret every control like it's Renaissance poetry. *Damn it, what the hell is a Prince of Cats?* Cue the consultant parade and the endless gap analyses. Cue roadmaps to hell. Cue the realization that you've made poor career choices. And the absolute worst - *cue the invoices!*



Supported Tyto Sales with an Inscom “White Paper”

Worked with Tyto to create an Armory paper with content that speaks to a specific bulleted list of asks from a Government customer.

- While this looks similar to others, the written content is nearly all completely new, requiring hours of research, analysis, and word smithing to get it right!
- Feedback was that this was VERY helpful!



The Armory™ | ATOs at Mission Velocity for Department of War

The Armory is a purpose-built, general support system (GSS) cloud service offering - leveraging stackArmor's proprietary ThreatAlert™ solution. It empowers organizations to conquer complex regulatory requirements through secure landing zones, fully compliant architectures, engineering, documentation, and audit support, along with continuous monitoring and robust tooling for automation, configuration, and account management, all within an environment managed to CMMC, ITAR, FedRAMP High, and DoD IL4/5 standards.

- Engineered for Mission Readiness** – The Armory is a zero-trust engineered cloud environment with quantum resistant encryption ready to support mission critical DoW workloads including AI and quantum computing, as well as meeting DoW requirements for threat modeling, SBOM, AIBOM and CryptoBOM. We have unique experience defining risk and securing data that moves from edge/IoT devices and field laptops to regulated cloud environments using physical and compensating controls.
- Rapid Accreditation & Shortened ATO Process** – Accelerate with over 70% of FedRAMP/DISA IL-5 controls inherited from existing environments, enabling rapid workload deployment. The overall time and cost of accreditation is significantly reduced.
- Continuous ATO & eMASS Integration** – Reducing the time to ATO through an integrated cATO dashboard and automated continuous machine-readable outputs. With its ability to integrate a wide range of tools, the Armory provides capabilities that meet our customers wherever they are.
- Cyber Assurance for AO Peace of Mind** – The combination of real-time compliance status visibility, machine-readable outputs, and expert security professionals delivering security operations with advanced tooling, ensure customers aren't left questioning their risk posture and are equipped to manage risk.

- Reduces time and cost of regulatory compliance by up to 70%
- Simplifies onboarding and continuous monitoring of a wide range of workloads
- Supports K8s containers, virtual machines and hybrid cloud environments
- Includes scalability to FedRAMP High/IL-5 compliant GSS environments



stackarmor.com/armory

The Armory has key capabilities and proprietary tooling that is purpose-built to not only meet the many requirements of various regulatory compliance standards and frameworks of today, but also positions us for the emerging technology trends and requirements of tomorrow. The Armory 20x, a unique instance of the Armory built to FedRAMP's new 20x standards, has propelled our capabilities even more toward machine-driven operations - leveraging modern technologies to better serve customers.



Key Armory Capabilities | Purpose Built for Mission Success

- OSCAL, Component Definitions & Machine-Readable Content** - Aligned with government directives, the Armory is architected to support machine-driven operations by enabling JSON/OSCAL-ready output formats and component-level definitions. Component definitions are machine-readable reusable components, stored in a registry, that create system control mappings and allow query-based status updates and machine-generated documentation. This paves the way for future rapid SSP and other artifact generation.
- Integrated, Machine-Guided Security Control Implementations** - Security policies and control implementations based on NIST 800-53+ baselines are baked into the solution's automations that govern every stage of the platform's system lifecycle - from infrastructure-as-code (IaC) commits to deployment, built-in dynamic code analysis, vulnerability scanning, and configuration management. The integrated controls management is foundational for future machine verification capabilities.
- Continuous Monitoring & Issue Identification** - Continuous monitoring and auditing capabilities include centralized logging, real-time alerting, and automated compliance reporting. This enables teams to detect, respond to, and remediate issues swiftly, maintaining a constant state of compliance and superior cybersecurity hygiene.
- Automated Security & Vulnerability Management & Reporting** - DevSecOps in an authorized boundary ensures hosted software leverages automation to manage vulnerabilities and security control implementation throughout the operations lifecycle. Continuous ATO capabilities generate real-time Plan of Action & Milestones (POA&M).
- Dashboard Visibility & Transparency for Team Collaboration** - The platform aligns security, development, and operations teams for shared responsibility cultures. Through unified dashboards and integrated toolsets it ensures everyone has visibility into security posture and compliance status, promoting coordinated and proactive risk management.
- People & Processes Make a Difference** - Modern systems are both designed by and for human actors to meet critical mission needs of human customers - requiring mature programmatic operations guided by SMEs in the government cybersecurity compliance space. stackArmor is differentiated by its world-class cybersecurity professionals who are recognized industry leaders that orchestrate the processes and programs surrounding the technologies - and provide 24/7x365 security operations with advanced analytics.

stackArmor's Modernized RMF Approach Aligns to DoW's New CSRMC

On Sept. 24, 2025 the Department of War (DoW) replaced the 20 year old RMF with the CSRMC (Cybersecurity Risk Management Construct). The new straight-forward five-phase construct is designed to ensure a "hardened, verifiable, continuously monitored, and actively defended environment," and signals a huge shift in RMF culture.

This shift to a more modern, integrated data and machine-driven approach better addresses today's technologies, and is something stackArmor embraced long ago. Our tooling ensures continuous monitoring and risk-posture information, real-time system-state documentation, controls verification, and controls compliance are *derived from* risk-mitigated, zero-trust, well-architected systems - *not created outside of those systems.*

stackArmor | A Leader in Regulatory Compliance and Engineering

stackArmor supports over 40 ATOs covering DoW CC SRG, DoW RMF, FedRAMP, FISMA and CMMC frameworks including U-NNPI data classifications. The Armory and Armory 20x can be found in the FedRAMP marketplace.

Created Another New Armory 2 Pager

Created yet another new 2 page glossy for GP to use at trade shows and sales/marketing highlighting the Armory offering. Used many graphics from the Inscom paper.

- Because all illustrations are original and vector based, I can continue to create new versions of these kinds of glossies.
- Leveraged many illustrations from the Inscom "white paper," while much of the verbiage is different.



The Armory™ | ATOs at Mission Velocity for Department of War



Mission-ready for DoW – The Armory is a zero-trust engineered cloud environment with quantum resistant encryption ready to support mission critical DoW workloads including AI and quantum computing.



Rapid Accreditation – Accredited with over 70% of FedRAMP/DISA computing environment for rapid deployment.



Continuous ATO – The platform boards and automated continuous machine-readable artifacts, and



Cyber Assurance – World-class 24/7x365 security operations with requirements including threat monitoring.



- Reduces time and cost of regulatory compliance
- Simplifies onboarding and continuous monitoring
- Supports K8s containers, virtual machines and
- Includes scalability to FedRAMP High/L-5 compliance



stackarmor.com



The Armory™ | Winning the Innovation War

- Purpose-built general support system architected to assure highly regulated systems
- Reduced ATO burden and cyber risk for applications
- Cybersecurity controls tailored for automated risk management
- Faster access to new cyber capabilities to support mission needs



Integrated, Machine-Guided Security Controls - Automated security policies and controls govern every stage of the platform's system lifecycle - from infrastructure-as-code (IaC) commits to deployment, built-in dynamic code analysis, vulnerability scanning, and configuration management.



Continuous Monitoring & Issue Identification - Continuous monitoring and auditing capabilities include centralized logging, real-time alerting, and automated compliance reporting. This enables teams to detect, respond to, and remediate issues swiftly, maintaining a constant state of compliance and superior cybersecurity hygiene.



Automated Security & Vulnerability Management - DevSecOps in an authorized boundary ensures hosted software leverages automation to manage vulnerabilities and security control implementation throughout the operations lifecycle. Continuous ATO capabilities generate real-time Plan of Action & Milestones (POA&M).



Visibility & Transparency for Cross-Team Collaboration - The platform aligns security, development, and operations teams for shared responsibility cultures. Through unified dashboards and integrated toolsets it ensures everyone has visibility into security posture and compliance status, promoting coordinated and proactive risk management.



Enhanced Incident Response - With its built-in audit trails and continuous monitoring, the platform supports rapid incident detection and response. This is critical for meeting FedRAMP's stringent incident management and reporting requirements while ensuring minimal disruption to service.

About stackArmor

stackArmor supports over 40 ATOs covering DoW CC SRG, DoW RMF, FedRAMP, FISMA and CMMC frameworks including U-NNPI data classifications. The Armory is a purpose-built, general support system (GSS) designed to empower organizations to conquer complex regulatory requirements leveraging world-class engineering, machine intelligence, and machine automation as force multiplication enabling mission-centric teams.

- ✓ GovRAMP
- ✓ C.JIS
- ✓ HIPAA
- ✓ FedRAMP
- ✓ CMMC
- ✓ FISMA

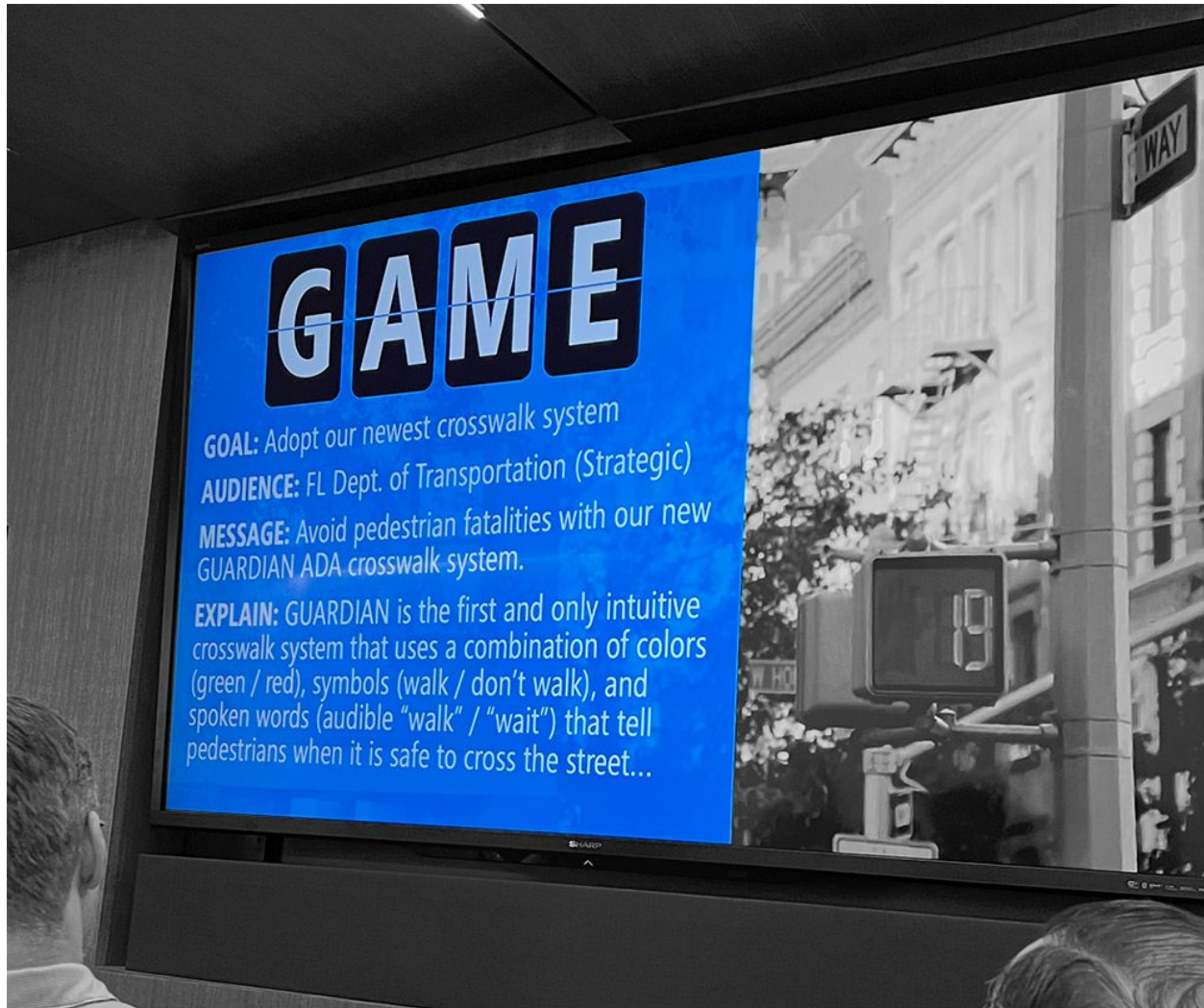
stackarmor.com/armory

Professional Growth

Attended Visual Storytelling Workshop

Thanks to Tyto, was able to attend a 2-day visual storytelling workshop in November where I learned some invaluable skills to deepen what I already know.

- *Material and approach was focused on proposal graphics, but the lessons were applicable to any/all graphics!*
- *Lots of focus on cognition, which was awesome (elephant vs rider)*



2025

AUG - DEC

Thank You!

Sarah Hensley

Annual Performance Report