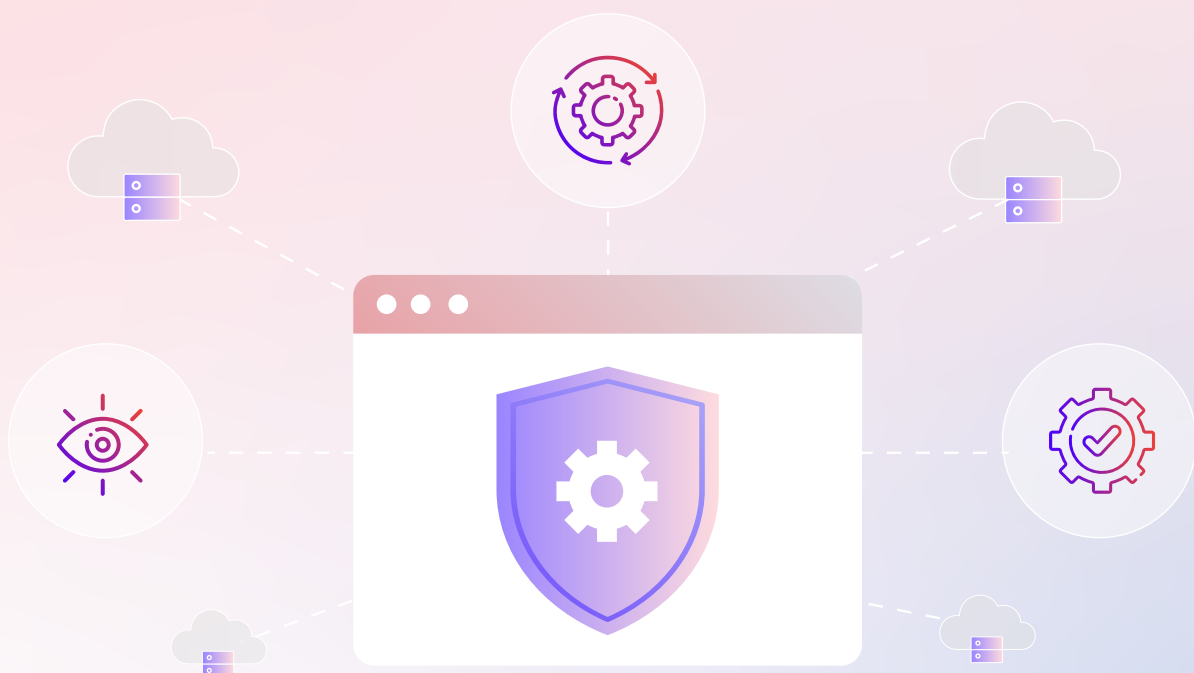


Solution Brief

Moving the Needle on Crypto-Agility

Respond to Cryptographic Threats and Industry Shifts with Speed and Confidence



Overview

The world of PKI is transforming rapidly, driven by an unprecedented growth of machine (non-human) identities and disruptions like the shift towards shorter TLS certificate validity, Certificate Authority Browser (CA/B) Forum rulings, post-quantum cryptography, and new compliance mandates. As disruptions intensify and become more common, crypto-agility has become critical to adapt, stay the course, ensure security, and preserve digital trust.

Why Crypto-Agility?

- *Proactive threat detection and remediation*
- *Adaptability to rapid shifts like shorter validity certificates*
- *PQC-readiness*
- *Keeping up with evolving industry standards and regulations*

Think of crypto-agility as a superpower. It empowers you to build an adaptive cryptographic infrastructure that is prepared for rapid changes and resilient to emerging threats. With crypto-agility, your organization can seamlessly replace cryptographic standards, switch between CAs, and manage thousands of certificates across complex hybrid multi-cloud environments without a hitch.

Build Crypto-Agility with AppViewX AVX ONE CLM

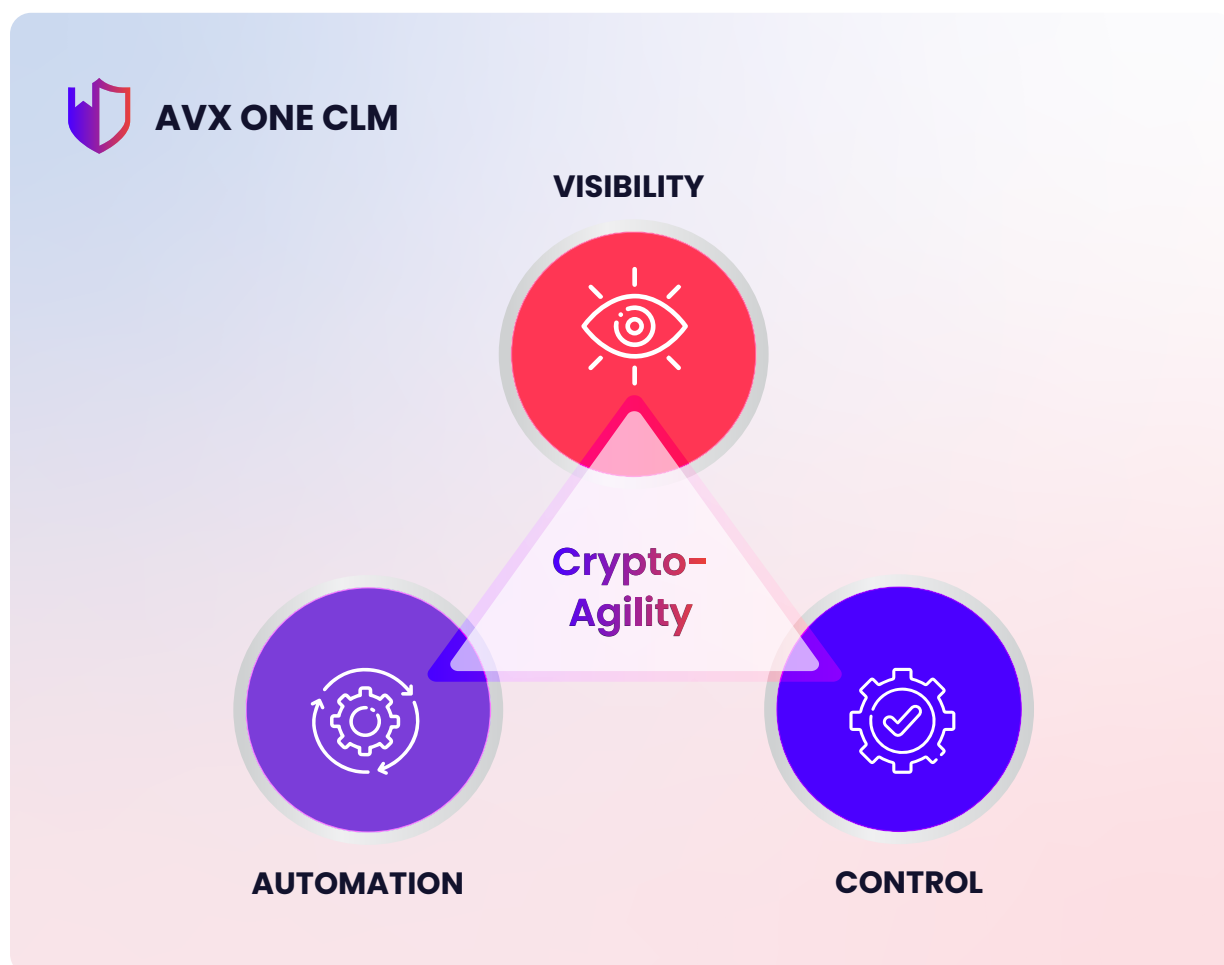
Visibility to Start. Automation to Drive. Policy to Perfect.

Achieving crypto-agility is a journey, and with the right Certificate Lifecycle Management (CLM) solution, the journey becomes smooth and sustainable, ensuring your defenses are always one step ahead. AppViewX AVX ONE CLM is engineered to propel you on your journey towards crypto-agility.

AVX ONE CLM is built on the principle that true crypto-agility hinges on three core capabilities: **Visibility, Automation, and Control**.

Each plays a vital role, and lacking even one creates gaps in your CLM strategy, exposing your organization to certificate-related outages, security breaches, and compliance violations.

For instance, if you are using a certificate discovery tool, you would have clear visibility of your certificate landscape, allowing you to track and monitor certificates effectively. But without automation, you're still vulnerable to outages from expired certificates because renewals might not happen on time. And even with both visibility and automation, if you lack policy control, you'll likely face inconsistencies and security weaknesses in certificates issuance and usage due to human error.

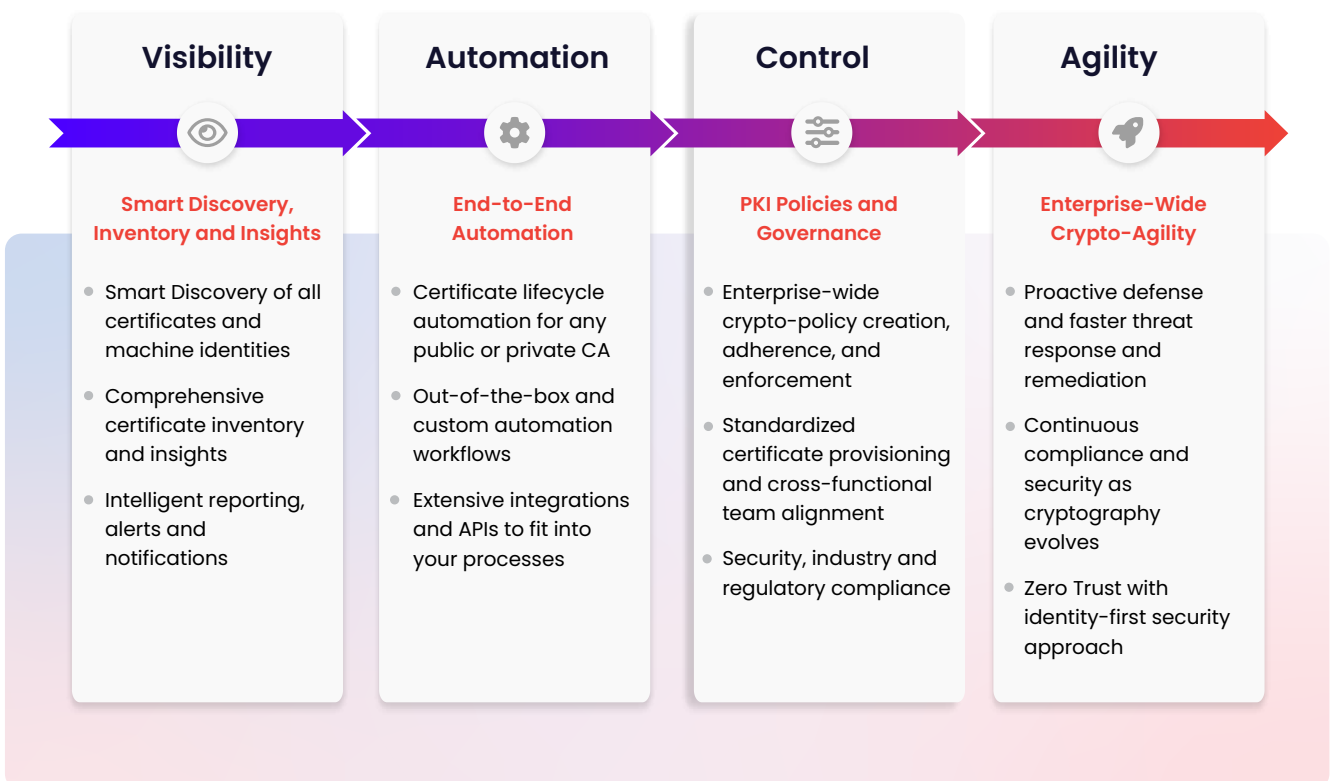


That's why AVX ONE CLM brings together these three interconnected capabilities—complete certificate visibility, end-to-end CLM automation, and continuous policy control—all in one powerful solution. It simplifies and modernizes certificate lifecycle management, embedding crypto-agility into the core of your enterprise PKI strategy.

Whether you are tackling today's certificate-related risks or preparing for tomorrow's challenges—like managing shorter-lived certificates or transitioning to post-quantum cryptography—crypto-agility is key and with AVX ONE CLM, you are covered.

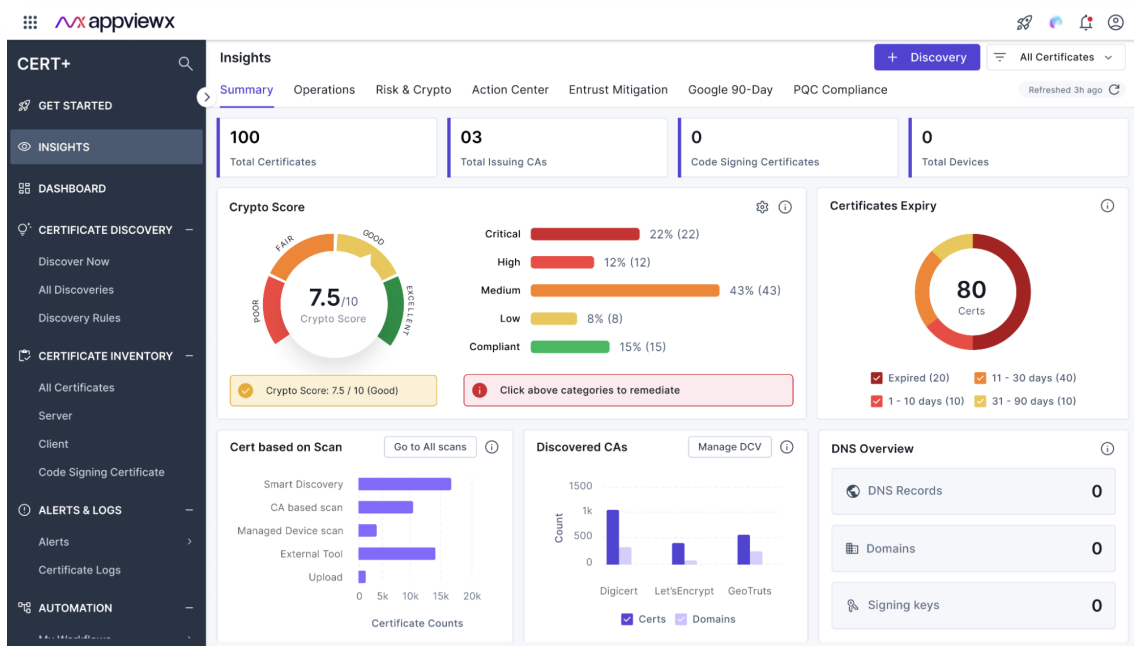
The AppViewX Path to Crypto-Agility

The AppViewX path to crypto-agility is a robust framework built to help you understand what true crypto-agility looks like and how AVX ONE CLM can help you get there step by step.



Stage 1: Complete Certificate Visibility

Visibility is the starting point for crypto-agility. AVX ONE CLM discovers all of your crypto assets, builds a consolidated inventory, and generates actionable dashboards for you - so you know what you have, where they are located, and what devices, applications, services and endpoints they are tied to. Its industry-first Crypto-Score dashboard does the heavy lifting for assessing your overall cryptographic health, highlighting areas for improvement. With all of this insight at your fingertips, you're at the jumping off point for crypto-agility, equipping your organization to tackle shorter certificate validity periods and the transition to post-quantum cryptography (PQC).

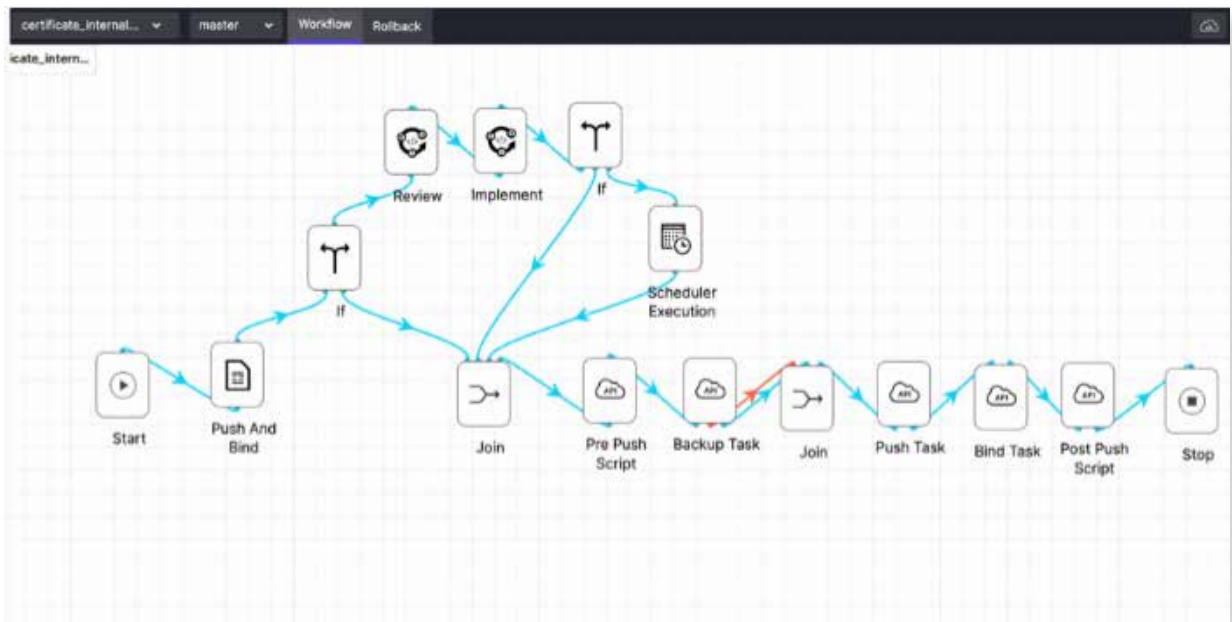


AVX ONE CLM Crypto Score Dashboard

Stage 2: End-to-End CLM Automation

Automation is the core driver for crypto-agility. Once you have a baseline with visibility and a complete certificate inventory, you can put certificate lifecycle management operations on auto-pilot and enable crypto-agility.

AVX ONE CLM automates all CLM operations, from provisioning and renewal to the last mile of binding certificates to the correct endpoints, closing the whole loop. With a built-in catalog of hundreds of ready-to-use automation workflows and an intuitive visual workflow builder, you can tailor CLM automation to fit your unique needs. Plus, AVX ONE CLM is CLM-agnostic, allowing you to manage certificates from both public and private CAs in one centralized location, supporting a multi-CA strategy. With this full spectrum CLM automation, you can achieve and sustain a state of optimal crypto-agility, making changes to your crypto infrastructure easily, quickly, and at scale.

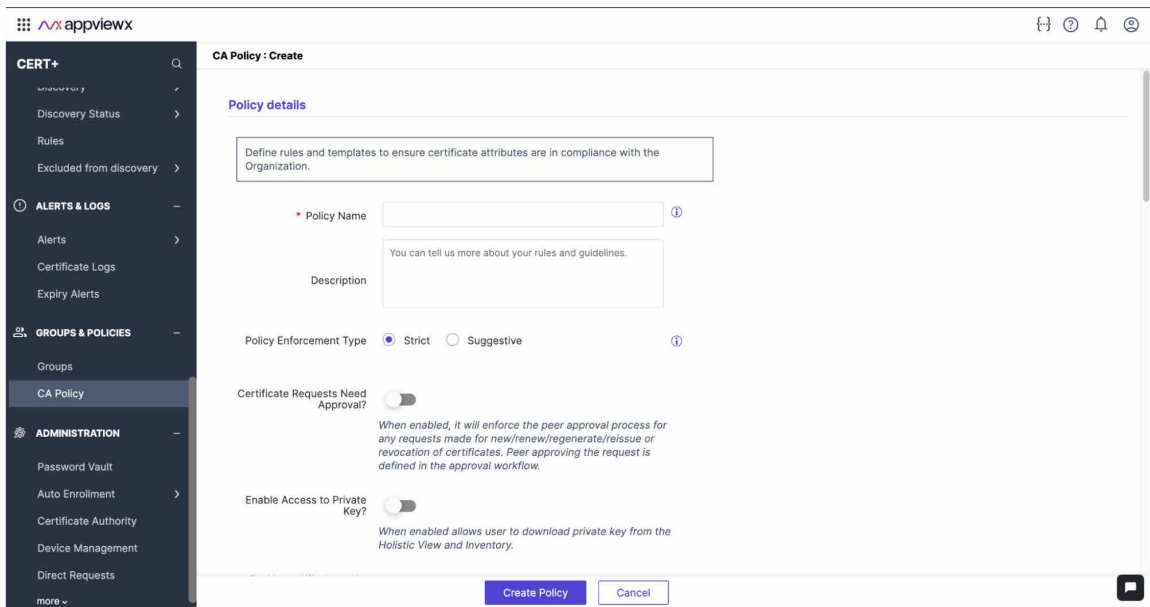


AVX ONE CLM Automation

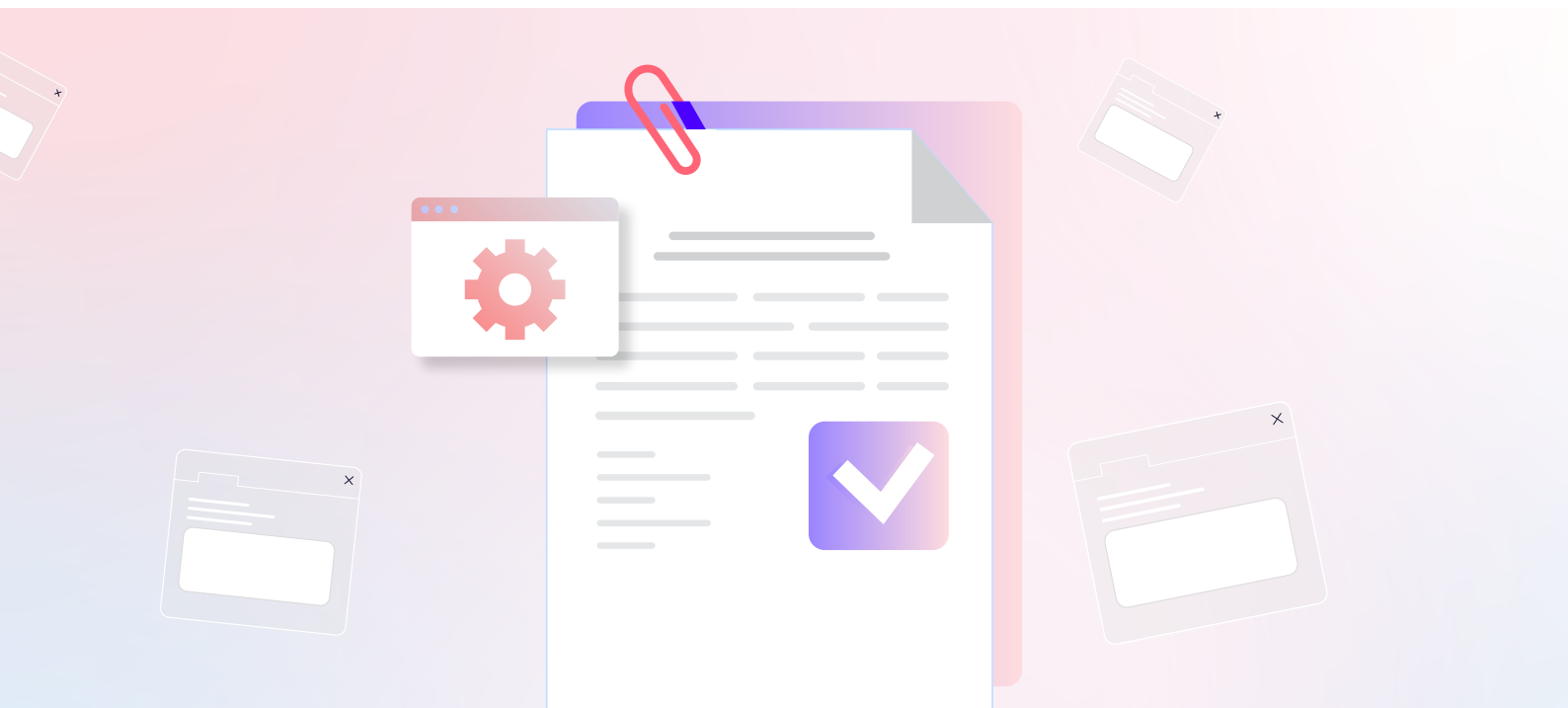
Stage 3: Continuous Policy Control

Control keeps crypto-agility in motion, and in the right direction. The policy engine of AVX ONE CLM allows you to create and enforce strong policies around approved CAs, algorithms, validity periods, and upgrades. Automated policy enforcement standardizes CLM operations, keeping you in compliance with industry best practices, security standards, and regulatory mandates.

You can implement role-based access control (RBAC) to regulate permissions and provide the right level of access to certificates and keys to the right roles. You can also create audit trails to log every certificate and key-related activity and generate periodic reports to detect anomalies, eliminate non-compliant certificates, and simplify auditing.



AVX ONE CLM Policy Control



End Result: Optimal Enterprise-Wide Crypto-Agility

Reaching the state of optimal enterprise-wide crypto-agility is the ultimate goal—a true game-changer for any organization. It means you've successfully implemented a full-fledged CLM solution that not only meets today's security demands but is also built to evolve with tomorrow's challenges. A scalable, efficient, and compliant system like this gives your security teams a powerful tool to stay ahead of threats.

At this stage, the benefits go far beyond just keeping your organization secure. With continuous crypto-agility in place, security teams are empowered to manage machine (non-human) identities with precision and speed, turning digital security from a necessary safeguard into a proactive driver of business growth. You can rest assured to stay flexible, responsive, and ready for the future.

Benefits of Being Crypto-Agile

- Better visibility and insights of the certificate infrastructure help spot potential issues before they lead to outages or cryptographic failures, keeping your systems running smoothly and securely.
- With all certificates managed from a centralized platform, you can proactively detect and remediate threats faster. It's all about efficiency—no scrambling when a certificate expires or a vulnerability pops up.
- Closed loop, end-to-end automation simplifies the complex process of managing certificate lifecycles at scale, helping boost productivity and mitigate security weaknesses and outages.
- Effective certificate governance ensures your organization is continuously compliant and always up to date with the latest standards as cryptography evolves.

- Helps you plan, prepare, and execute the transition to post-quantum cryptography (PQC) efficiently without any operational chaos.
- CA-agnostic certificate management enables multi-CA strategy and CA agility. This flexibility allows you to switch between CAs or diversify your CA strategy, enhancing your overall agility.
- Strengthens the foundation for Zero Trust security that relies on continuous identity verification.

Begin Your Crypto-Agility Journey Today with AppViewX

Cryptography is foundational to internet security and crypto-agility is crucial to staying ahead of evolving threats and preserving digital trust. With AppViewX AVX CLM, you get a modern and adaptable CLM solution designed to build crypto-agility seamlessly. It provides complete visibility, end-to-end automation, continuous policy-control, so you can make necessary cryptographic changes quickly and securely, when needed. AVX ONE CLM helps you modernize your CLM processes step by step, build crypto-agility in a sustainable way, and strengthen your digital security fabric across on-premises, multi-cloud, hybrid cloud, IoT, and containerized environments.

If you would like to know how AppViewX can help your organization become crypto-agile, visit [Crypto-Agility and Post-Quantum Cryptography Readiness](#)

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