

SOLUTION BRIEF

Integrated MDM and Zero Touch PKI Solution

Unleashing the Potential of PKI to Empower Mobile Device Security

Enterprises looking to prevent access from unauthorized users, applications and devices often use a “Zero Trust” model where trust is never granted implicitly and must be continually evaluated. Mobile Device Management (MDM) solutions are designed to help organizations move the needle on their Zero Trust initiatives by managing and securing their mobile devices, such as smartphones, tablets and laptops.

By leveraging digital certificates for authentication, encryption and secure communication, PKI enables MDM platforms to centrally manage and secure a diverse fleet of mobile devices thereby ensuring they are configured correctly, compliant with policies and safeguarded against potential security threats.

Solution Overview

The integrated MDM and Venafi Zero Touch PKI Solution enhances security, control and compliance for managing mobile devices in enterprise environments—all using the MDM system of your choice. With ready-made issuing profiles, Zero Touch PKI enables MDM solutions to authenticate mobile devices securely using digital certificates. Each device is issued a unique digital certificate during enrollment, which serves as a credential for certificate-based authentication when accessing corporate resources such as VPNs or Wi-Fi networks.

Solution Highlights

Seamless MDM integration with Zero Touch PKI supports the primary goals of MDM in the following areas:

- **Device Configuration and Deployment** to consistently configure and deploy settings, apps and policies to multiple devices.
- **Security Management** of mobile devices such as enforcing passcodes, encrypting data and remotely wiping lost or stolen devices.
- **Application Management** to distribute applications to devices, including installing, updating or removing applications on a large scale.
- **Data Protection** for encrypting data, setting up secure containers for corporate information and implementing policies to control data access and sharing on devices.
- **Remote Monitoring and Support** to troubleshoot issues and provide support without needing physical access to the devices.
- **Compliance and Reporting** ensures that devices comply with organizational policies and standards.
- **Cost Management** includes tracking usage, managing data plans and implementing policies to optimize spending on mobile services.
- **User Productivity** streamlines device management and ensures devices are properly configured and secure.

Solution Benefits

The Integrated MDM and Zero Touch PKI Solution improves productivity and boosts overall organizational security and compliance while drastically reducing access problems and management costs.

- **Enhanced security** for mobile device communication channels and authentication to corporate resources such as the corporate WLAN.
- **User experience** by removing the need for username/ password-based device authentication and all the hassle that comes with it.

- **Compliance** with regulatory and data protection requirements such as GDPR, PCI and more.
- **Improved productivity** so organizations can support their workforce to access corporate resources on-the-go.
- **Centralized management** of mobile device fleets and their digital certificates with zero downtime otherwise caused by expired certificates.

Solution components

Venafi Zero Touch PKI uses a modern architecture meticulously crafted for optimal performance, scalability and seamless adoption. With a robust SLA of 99.9% uptime for issuance and validation, coupled with round-the-clock escalation support, Zero Touch PKI stands as a cornerstone solution for mission-critical MDM and security needs.

Venafi Zero Touch PKI

Zero Touch PKI is the modern, cloud-based solution that helps you break free from the infrastructure costs and hassles of creating, issuing and maintaining privately trusted X.509 digital certificates for network systems, as well as devices and users managed through an MDM.

Zero Touch PKI issues certificates for secure email communications and document sharing on mobile devices. These certificates are also used to establish secure communication and SSL/TLS connections between devices and MDM servers, preventing unauthorized access and data interception.

Leveraging both Public Cloud and Private Cloud infrastructures across paired data centers in North America and Europe, the service ensures unparalleled reliability and flexibility. Each region hosts its own databases and Hardware Security Modules (HSMs), securely housed within respective colocation facilities. Each region is fully equipped to support users worldwide, ensuring seamless global accessibility while

maintaining the following certifications and security measures:

- SOC 2 Type II audited
- Common Criteria and NIST 800-131A certified
- FIPS 140-2 Level 3 certified Hardware Security Modules
- Certificate validation via Certificate Revocation Lists (CRL) and highly available Online Certificate Status Protocol (OCSP) service

Supported MDM platforms

The Integrated MDM and Zero Touch PKI Solution supports numerous MDM solutions across a wide range of industries, tailoring their services to meet specific sector needs, including compliance, security and management requirements. The integrated solution works with notable MDM vendors and the broad industry sectors they typically serve.



The best way to integrate your PKI and MDM

The Integrated MDM and Zero Touch PKI Solution is based on a modern, scalable and effortless cloud-based alternative PKI that will free up your PKI and IT teams to focus on higher value MDM goals. The solution provides well-defined interfaces that integrate with leading MDM technology partners. Learn more about our **Integrated MDM and Zero Touch PKI Solution** today. [Talk to our experts.](#)

Venafi is the cybersecurity market leader in machine identity management, securing the cryptographic keys and digital certificates on which every business and government depends to deliver safe machine-to-machine communication. Organizations use Venafi key and certificate security to protect communications, commerce, critical systems and data, and mobile and user access. **To learn more, visit venafi.com**