



CERTInext: Managed PKI and KMS Interface for Seamless Trust Management & Automation

CertiNext is a comprehensive, managed Public Key Infrastructure (PKI) and Key Management Service (KMS) solution designed to meet the growing demands of organizations for secure trust management. Whether you're managing certificates for public trust or private use, CertiNext provides a one-stop platform and single pane of glass for certificate lifecycle management (CLM). Whether generating keys and services, CertiNext enables policy based security controls. From discovery and management to automation and integration, CertiNext powers trust management with ease and efficiency, minimizing manual intervention and maximizing security.

Capabilities Overview

CertiNext offers a unified interface for managing every aspect of your PKI and cryptographic key assets, simplifying processes and enhancing security. Whether it's discovering, managing, or automating certificate workflows, CertiNext's suite of tools ensures an efficient, secure, and compliant experience.

Functionalities: Discovery & Scanning

CertiNext ensures complete visibility of all your certificates, keys, and related logs across your IT environment, ensuring no gap in security.

- **Certificate Discovery:** Identify certificates across systems, including cloud, on-premise, and hybrid environments.
- **Deep Discovery:** Gain in-depth insights into the certificate attributes, expiration dates, algorithms, and chain of trust, and in many cases a security evaluation of implementation parameters.
- **Key Discovery:** Locate generate and manage cryptographic keys for audit and management purposes.
- **CT Logs Discovery:** Ensure compliance and secure brand by monitoring and discovering SSL/TLS certificates in public Certificate Transparency logs.
- **Agent-Based Discovery:** With agent-based scanning, CertiNext provides deep insights into certificates on remote or hard-to-reach servers.

Management

CertiNext simplifies the entire certificate management process by offering seamless control over certificate and key issuance, renewal, and revocation.



Reporting: Comprehensive reporting tools help you monitor the health, expiry, and compliance of your certificates. Generate custom reports for security audits or operational analysis.



Provisioning: CertiNext supports both automatic and manual certificate and key provisioning.



Automatic Provisioning: Seamlessly renew or revoke certificates and keys without manual intervention.



Agent-Based Provisioning: Control certificates on remote systems through deployed agents.



CA Connectors: CertiNext supports integration with various local Certificate Authorities (CAs) such as Microsoft CA, Entrust, EJBCA and emCA: plus a broad range of public trust CAs eg. Let's Encrypt, DigiCert, emSign etc.



Protocols Supported: CertiNext supports a wide range of PKI protocols, including SCEP, ACME, and EST. Ensuring smooth seamless communication and integration with your existing infrastructure.

Automation

CertiNext drives efficiency by automating complex workflows, from certificate provisioning to renewals. Proposed certificate validity in the web PKI may mean any entity without automation capabilities may be at a severe disadvantage.



Workflow Management: Automate certificate requests, approvals, renewals, and revocations through highly customizable workflows.



Certificate Support: Manage a diverse range of certificates, including SSL/TLS, S/MIME, Code Signing, and IoT certificates.



Lifecycle Management: CertiNext automates certificate lifecycle management (CLM), ensuring timely issuance, renewal, and revocation without human intervention, reducing the risk of certificate-related outages.

Integration

CertiNext integrates seamlessly with a broad range of applications and tools, enhancing its flexibility and deployment capabilities.

- **Microsoft CA, emCA, Let's Encrypt:** Integrates with leading Certificate Authorities for streamlined certificate issuance.
- **ITSM Solutions:** Support for popular IT Service Management (ITSM) platforms such as:
 - ServiceNow
 - ZohoDesk
 - Freshdesk
- **HSM Integration:** CertiNext supports Hardware Security Modules (HSMs) for enhanced key management and security, including:
 - Thales
 - nShield (Entrust)
 - Utimaco
 - FutureX

Technical Specifications

CertiNext offers robust, scalable infrastructure to support enterprises of all sizes.

- **Supported Platforms:** Windows, Linux, MacOS
- **Cloud Support:** AWS, Microsoft Azure, Google Cloud
- **Network Protocols:** TCP/IP, SCEP, ACME, EST, OCSP
- **Security Standards:** FIPS 140-2, TLS 1.2 and 1.3, SHA-256
- **API Integration:** RESTful API for custom integrations and automation
- **Agent Support:** Windows, Linux, and Unix-based agents for certificate and key management
- **Monitoring:** Real-time monitoring and alerting for expiring certificates and key anomalies
- **Storage:** Secure certificate and key storage with role-based access control

Compliance & Certifications

CertiNext ensures that your PKI environment meets the highest standards for security and operational compliance, giving you peace of mind. The proposed reduction in WebPKI certificate validity periods may only be possible with some element of automation for most entities.



WebTrust: Compliance with WebTrust for Certificate Authorities.



EAL4+: Certified to meet Evaluation Assurance Level (EAL4+) for PKI solutions.



SOC 2 Type 2: CertiNext adheres to SOC 2 Type 2, ensuring high standards for data security, availability, and confidentiality.



ISO 27001: Certified for ISO 27001 compliance, ensuring that CertiNext meets rigorous information security management requirements.

CertiNext brings trust, security, and automation into one powerful platform, empowering your organization to manage its digital identities with ease. With end-to-end PKI and KMIP capabilities, seamless integration, and comprehensive automation features, CertiNext is your gateway to effortless trust management.

eMudhra offers digital certificates, PKI-based solutions, authentication, and identity governance services. As a leading provider, eMudhra focuses on future proofing cybersecurity with Post Quantum Ready Cryptography and a Zero-Trust Identity Governance model.

For more information or a demo,
visit certinext.us or reach out to our team at contact@certinext.us