



emCA: End-to-end PKI Management Suite

Today, companies are deploying billions of Internet-connected devices into mission-critical systems. Such kind of mass deployments are resulting in security risks with implications that grow with the number of deployed devices.

PKI is the leading choice for providing information and communication security in such a challenging environment. Hence why not make PKI a part of your IT infrastructure by utilizing emCA — eMudhra's PKI powered digital certificate issuance and management solution. Built exclusively to provide trust and control, emCA is a robust, standards compliant, fully scalable, policy driven PKI solution designed to provide unparalleled security services, which include authentication of user and device, data security, integrity and verification.

12+ Years as a Public Certifying Authority

eMudhra has been a Public Certifying Authority under the Indian root for more than 12 years. The company is also a CA under the Mauritian root and a certified Cross Certification Service Provider under the UAE root. In addition, we are powering local TSPs across the globe through our globally accredited emSign root. That's a lot of audits, documentation, and compliance, which we manage on a regular basis.

A Pioneer, Not a Follower

We take pride in being a thought leader in our space. From National ID based one-time-use eSign, to Cloud PKI for mobility, we are constantly thinking what's next. We ensure that we focus equally on convenience of PKI as we do on security to ensure quick adoption and effective Digital Transformation

50 million trusted public signatures issued, WebTrust accredited, EAL 4+ CC compliant, ISO/CMMI certified. Experience you can trust.

End-to-end Consulting

PKI is our bread and butter. Having done it every day for 12+ years at a retail level and a B2B level, we're quite aware of how it works, what the typical issues are, and how best the processes can be streamlined. Leveraging the same expertise and experience, we offer end-to-end consulting services—from deploying PKI infrastructure to enabling successful WebTrust audits, planning Data Centers, determining levels of Assurance and sometimes, even working closely with you to create bespoke scenarios and implementing custom built solutions.

Superior Product Capability

emCA has been built keeping in mind our needs as a public CA, and our learning from venturing out into the Enterprise, IoT, and Blockchain world. As a result, our CA system is robust, scalable, and works in IoT, Blockchain, and network security ecosystems quite effectively in addition to conventional use cases.

Support for a Wide Variety of Use Cases

Out of the box emCA supports issuance of Digital Signature Certificates to user, server, network device, mobile phone, TPM (Trusted Platform Module), Trusted Execution Environment (Strong Box), IoT device, etc.

Other Key Highlights

- Ability to issue certificates to smart devices in IoT ecosystem
- Support for Mobile PKI – Secure generation of key-pair, certificate attestation, signing, encryption/decryption
- Cross-certification to establish trust relationships between multiple CAs
- Encryption of sensitive data using AES key that can be securely stored on HSM
- Tool to detect modification of Certificate Manager Binaries
- Provision to define automatic and manual backup of entire application within the application
- Provision to restore application through backup files done using application itself
- Comprehensive enrolment system to manage approval of certificate requests including video verification, token inventory management, etc.

Benefits

- Cost effective solution
- Faster deployment
- Better management of RA's
- Superior support
- Easy migration
- Ability to provide managed services
- Used in Webtrust compliant deployments