CASE STUDY

EMCA NATIONAL PKI · GOVERNMENT & REGULATORS · AFRICA

A national communications regulator in Africa builds the root of trust for its country's digital economy

eMudhra's emCA certificate authority platform underpins national PKI and the digital trust services built on it.

SECTOR	REGION	SOLUTION	
National communications regulator	Africa	emCA	LIVE

IMPACT AT A GLANCE

1 national
root of trust for the digital economy

4
certificate types supported: individuals, organisations, devices and servers

Scales
with adoption on user-based licensing

CA-grade
technology from a licensed CA operator

THE CUSTOMER

The customer is the national regulator for communications in its African market. Its mandate includes enabling secure electronic transactions, which depends on a trusted national public key infrastructure. It selected eMudhra's emCA platform to provide the certificate authority technology behind that national PKI.

THE CHALLENGE

Digital signatures, secure e-government and trusted online commerce all depend on a national root of trust that citizens and businesses can rely on.

1

A national root of trust

The country needed its own trusted CA hierarchy to issue certificates for people, organisations and systems.

2

Scale for a whole country

The platform had to grow from early adoption to national use without re-architecture.

3

Licensed trust services

Certificate services had to meet the standards expected of a national trust framework.

THE GOAL A national root of trust that can scale from launch to nationwide adoption.

THE SOLUTION

eMudhra licensed its emCA certificate authority platform to the regulator on a user-based model, as the foundation for national PKI.

emCA platform

Enterprise-grade CA software for root and issuing CA hierarchies, built by a licensed CA operator.

National PKI foundation

Supports certificates for individuals, organisations, devices and servers.

User-based licensing

Licensing grows with the number of certificate holders, matching national adoption.

Standards-based

Built to recognised PKI standards so certificates are trusted across systems.

WHAT THE CUSTOMER NEEDED	HOW EMUDHRA DELIVERED
Establish a national root of trust	emCA root and issuing CA hierarchy
Serve every type of certificate holder	Certificates for people, organisations, devices and servers
Scale with the country	User-based licensing
Meet trust-service expectations	Standards-based CA platform from a licensed CA

RESULTS

What changed for the customer

- The country has CA technology for its own national root of trust.
- The regulator can issue and manage certificates for citizens, organisations and systems.
- Licensing scales with adoption, from launch to national use.
- National PKI can now underpin secure electronic transactions and digital services.

WHY EMUDHRA

Built by a licensed CA

eMudhra runs its own CA operations and builds the software it uses.

National PKI experience

emCA powers national and sector PKIs in several countries.

Scalable licensing

User-based model that grows with adoption.

About eMudhra. eMudhra is a globally trusted provider of digital trust services, offering eSignatures, PKI, Certificate Lifecycle Management, Multi-Factor Authentication and Identity & Access Management solutions. Licensed by the Controller of Certifying Authorities (CCA), India, eMudhra serves 1,000+ enterprises across 40+ countries, helping organisations build secure, compliant and paperless digital ecosystems.

Customer name withheld for confidentiality.