(n)Code Solutions
e-Safe . e-Secure . e-Sure . Licensed Certifying Authority

PARTNER PROFILE — (N)CODE SOLUTIONS

Based in Gujarat, India, Entrust Datacard partner (n)Code Solutions – a division of Gujarat Narmada Valley Fertilizers and Chemicals Ltd (GNFC) – offers digital certificates that can integrate with applications such as email, workflow, enterprise-wide applications or secure VPNs. The digital certificates are used by individuals, corporations and government to secure online business-to-business (B2B)/business-to-consumer (B2C) and other online transactions.

CHALLENGE: In order to set up a Certifying Authority for the Ministry of Information Technology in India, (n)Code Solutions needed a technology partner for digital signature certificates.

SOLUTION: (n)Code Solutions worked with Entrust Datacard to set up a certificate authority infrastructure comprised of Entrust Authority PKI that issues digital certificates and integrates with various applications and certificate profiles for individuals and corporations with various validity periods of one, two or three years based on individual customer needs.

RESULTS: Since 2003, (n)Code Solutions has relied on Entrust Datacard solutions to issue over 6.25 million digital certificates in India.

Entrust Datacard™

A Growing Digital World

In 2000, the government of India passed its Information Technology Act to strengthen its Digital India Program and contend with growing e-commerce and potential for cybercrime. At the heart of the act was the ability to issue digital signature certificates.

(n)Code Solutions formed a short time later with the express purpose of setting up the (n)Code Solutions Certifying Authority, which would be licensed by the Controller of Certifying Authorities under India's Ministry of IT. But to establish a Certifying Authority infrastructure for its primary site in Ahmedabad and secondary location in Bharuch, (n)Code Solutions needed to find the right PKI partner and provide strong support services including customization for various platforms.

The digital signature certificates would be used in Federal Information Processing Standard (FIPS)-certified cryptographic token modules for various applications, government departments and corporate authorization, authentication and security purposes. They would be issued to users all across India, totaling one million web certificates and 20 million enterprise IDs per year.

"We needed strong PKI technology with good support and a technically sound team to use the solution on a sustainable basis," said Girdhar Varliani, the general manager of (n)Code Solutions.

The Search for Strong PKI

As (n)Code Solutions searched for a technology partner, one provider stood out as the trusted expert in PKI — Entrust Datacard. The Entrust Authority PKI solution manages the full lifecycles of digital certificate-based identities, enabling encryption, digital signatures and certificate authentication.

(n)Code Solutions also chose to integrate Entrust Code Signing and SSL into their PKI solution. This optional feature indicates when the code was signed and can extend the trust period for the code if needed. They also issue Document Signing Certificates to enable trusted e-signatures when sharing information electronically. To simplify issuing large volumes of digital certificates, (n)Code Solutions uses HSM to automatically log certificates and create policy parameters. The included RA admin module makes future profile changes easy while ensuring compatibility with previously issued certificates.

As (n)Code Solutions' in-house Certifying Authority, Entrust Authority Security Manager enables the use of digital signatures, digital receipts, certificate validation, encryption, revocation and permissions management services across a wide variety of enterprise applications and solutions. With this technology, (n)Code Solutions can securely store the Certifying Authority's private key, issue digital certificates for users, applications and devices, verify the identity of a device or user, publish certificate revocation lists and maintain an auditable database of private key histories for recovery purposes which includes a hot disaster recovery site.

More Than a Decade of Partnership

In the 14 years since implementing Entrust Authority PKI technology, (n)Code Solutions has relied on Entrust Datacard support services for customization and extensive assistance from time to time using various platform changes and covering various security threats. Entrust Datacard's support services have been especially critical in helping to maintain compliance with the India's IT Act.

"When ever we have required changes or patches to remain compliant, Entrust Datacard has been very supportive."

Mr. Girdhar Varliani
General Manager
(n)Code Solutions
Gujarat, India

Featured Products

• **Entrust Authority PKI** enables encryption, digital signature and certificate authentication capabilities to be consistently and transparently applied across a broad range of applications and platforms.

• **Entrust Code Signing** allows time stamping that indicates when code was signed or a transaction was created and extends the trust period for the code if needed.

• **Entrust Certificate Support Services** provides assistance for purchasing, deploying, renewal and expiry of digital certificates as well as certificate management services and tools through a 24-hour online portal.

Entrust Datacard™

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