

Large Bank uses emSecure to secure Corporate-to-Bank data transfer

eMudhra helps secure data transfer, host-to-host connectivity to enhance confidentiality and authentication for a large Bank and its corporate clients

Industry

Banking

Business Matters

Corporates today seldom rely on a single banking institution, maintaining relationships with several banking partners, which can require a myriad of different communications methods, based on a variety of protocols, proprietary standards and processes, further adding to existing complexities. Secure communication between corporates and Banks becomes the key focus area.

Business Matters

To offer secure Host to Host Connectivity with Bank's clients' ERP Systems for seamless transfer of instruction to Bank's host systems and online status update in the clients' systems.

Approach

Deploy a secure data-in-transit solution for secure host-to-host data exchange using encryption/decryption, digital signature certificates and components of digital signing and validation.

**Background**

Many organizations transmit data with their banks and other financial counterparties using separate, one-to-one direct connections. There are many different direct connectivity options such as online web portals, dedicated host-to-host connectivity, leased communications lines, EDI networks or fax.

But as the number of dedicated, one-to-one interfaces increases, the challenges of corporate to bank connectivity multiply:

- Significant operational cost
- Inflexible file format options and lack of ERP integration
- Operational Constraints including performance and capacity constraints
- Disparate interfaces per bank product line (Cash, FX, Trade Finance, Securities Services)

Business Requirement

Secure Host-to-host (H2H) is an automated solution for high volume data transfer between banks and their corporate clients. Sophisticated H2H connectivity solutions give banks the flexibility to exchange information in their corporate clients' preferred file formats, network protocols, and security standards. Key components of H2H connectivity are:

- Message and File Delivery
- Translation and Transformation
- Data Aggregation, Enrichment and Validation
- Client Onboarding
- Program Management
- Technical Support

Technologies Used

The technology works on the Public Key Infrastructure framework which uses hybrid approach of symmetric and asymmetric keys for encryption/decryption of data and digital signature for authentication of hosts.



Benefits

The Bank reaped significant benefits by implementing Secure Host to Host solution for secure file transfer between corporates and Bank.

This includes

- Improve straight-through-processing — Eliminate web portal downloads and manual intervention with centralized bank connectivity
- Reduce banking costs and complexity — Fewer banking relationships simplifies fee structures, eliminates redundant services and reduces complexity
- Reduce operational risk — Rationalization of bank accounts improves reconciliation, increases control of bank relationships and enables standardized payment initiation processes
- Better transactional transparency and improved security – No interim files transmission files written to disk
- Enhance regulatory compliance — Reduced manual reconciliation and data aggregation improves audit compliance

Solution

emSecure Host-to-Host is the solution of choice for establishing secure corporate-to-bank connectivity. This quick and flexible integration option allows the organisation to securely send instruction files directly to bank’s backend systems for processing and to receive reports. emSecure Host-to-Host is a highly customised solution that supports a wide variety of standard and proprietary formats, encryption standards, and connectivity mechanisms.

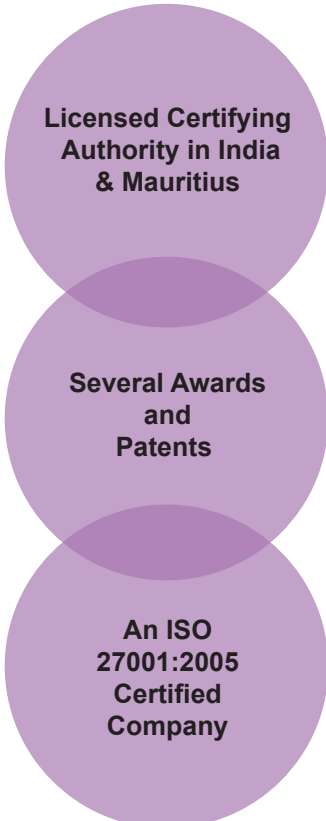
emSecure suite includes more sophisticated connectivity solutions that integrate corporate’s Enterprise Resource Planning (ERP) system seamlessly and securely with the bank. Using ERP native capabilities, eMudhra’s direct integration solutions enable generation of banking instructions from ERP and two-way communication to send files to the bank and receive confirmations from the bank.

The solution uses following broad modules:

- **emSecure:** Encryption and Decryption of data-in-transit.
- **emAS:** To authenticate, verify digital signature certificates on a real time basis.
- **Configuration Module:** Signature, Encryption & HSM.
- **Hardware Security Module:** FIPS-140-2 level 3 certified physical computing device that safeguards and manages digital keys for strong authentication and provides crypto processing.

Secure Host-to-Host File Transfer





**Licensed Certifying
Authority in India
& Mauritius**

**Several Awards
and
Patents**

**An ISO
27001:2005
Certified
Company**

About eMudhra

eMudhra is a technology and digital identity and transaction management company providing solutions which ease financial and statutory needs of consumers. eMudhra was established in 2008 and is a Certifying Authority in India and Mauritius to issue Digital Signature Certificates.

eMudhra's current enterprise and consumer solutions include Digital Signature Certificates, emSigner – Paperless Office Solution, emAS – secure multifactor authentication for banks, emCA for Digital Signature issuance and management and Prism – Voice of Customer Analytics using Semantics.

eMudhra is a market leader in India and has worked with large Banks, Financial Services companies and several Government agencies in India to implement Digital Signature based solutions which include secure access and paperless workflows.

eMudhra won the e-Asia award, an award given by AFACT (A United Nations body) for implementing Digital Signatures based on India's National ID – AAD-HAAR to bridge Digital Divide.