

e-payments:
PKI for Banking Transactions –
Opportunities and Challenges

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IDRBT

IDRBT a Unique Organisation

- IDRBT CA – exclusive signature certificate issuer to banks and financial institutions for Payment System Application of the Reserve Bank of India
- IDRBT –SFMS messaging platform for RBI's payment system applications (RTGS, NEFT, PDO-NDS, e-Kuber – RBI's CBS, etc.), works closely with RBI for payment system applications that are managed by RBI itself.
- Unique position to look at PKI users – service provider, actual PKI user, implementer, partner in payment application

Opportunities – for use of PKI in banking

- Banks' CBS
- Intra Bank transactions – customer initiated
- Banks' work flow applications including e-mails and MIS reporting
- Audit automation with authentication, audit trail, time logs, process flow

Challenges — for use of PKI in banking

- Ease of use
- Crypto token issues
- User education and sensitization
- Legal awareness of signature
- Consequences of key compromise
- Cost of certificate life cycle management
- The cost of certificate is only a small part of it

Issue of Certificates to Customers

- KYC cost is already factored in and is incrementally near zero
- For CAs major cost is towards verification of customer credentials
- Use of Certificate less signatures in a Hub – Spoke relationship , as in Bank – Customers, is possible in terms of trust and acceptance, without compromise in security
- Its legal acceptance can be a future goal towards spreading low cost signature solutions



Thank You