Sharing the Experience of Managing a CA for Financial Sector

Chamara Disanayake

Chathurange Gunatillake

Sri Lanka

APTLD 71 – HCMC, Vietnam
Background

- Lanka Clear Private Limited (LCPL)
  http://lankaclear.com
  - Owned by the Central Bank of Sri Lanka (CBSL) and all Licensed Commercial Banks operating in Sri Lanka
  - Incorporated in February 2002 as the "National Cheque Clearing House"
  - Expanded its service offering to be the "National Payment Infrastructure Provider" for the country.
LANKASIGN

• LCPL launched Sri Lanka's first Certification Authority under the brand name LANKASIGN in 22nd May 2009
  - Legal Provision - In accordance with the Electronic Transaction Act, No.19 of 2006 on May-22-2009
  - The implementation and maintenance were granted to TechCERT
Overview of LankaSign

- **Main CA**
  - Implemented on Fedora Dogtag
- **System Architecture**
Service Improvement

• 1st Phase - 2009
  – Started providing digital certificates to Banks to be used in financial transaction clearing systems
    • SLIPS and CITS (Cheque Imaging and Truncation System)
    • Through a Bank VPN

• 2nd Phase in February 2011
  – Providing digital certificates for all financial sector enterprise applications, SSL Certificates and end Users (E-mail/Document signing Certificates) on the public network
LankaCertify Product

- Products
  - Secure Server Certificates
  - Digital Signature Certificates
  - Public Key Encryption Certificates
  - Secure E-mail Certificates

- These Certificates are available for use in both the LCPL private networks and public domain
Clients Base

• Client Sectors of certificates
  – All the banks and financial institutes operating in Sri Lanka.
    • An approximate figure of 44 financial institutes including the 26 commercial banks operating in SL
  – Central depository system for settlement signing.
  – Ceylon Chamber of commerce and National Chamber of exporters to digitally sign the certificate
  – 80 + exporting companies who sends Certificate of origins for digital signatures
Best Practices

- Standards
  - Follow ISO 27001:2013 standards
  - LankaSign systems are ISO 27001:2013 certified.
- Periodic audits apart from ISO audits (minimum 3 per year) and each quarter a VAPT
- Client Validation Process
  - Stringent process to ensure the customer gives real KYC info
  - Sign an agreement with LankaClear
- Very active DR Plan
  - DR Drill
Proposed Improvements

• Develop an automated certificate issuance process to provide 24x7 operations to its customers

• Upgrade the system to Windows based CA
  – To cater the increasing demand
Thank You!!!

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