Thailand NRCA activities in 2018 -2019

• To maintain the Root CA system and compliance with WebTrust Principles and Criteria for Certification Authorities and SSL Baseline with Network Security.

• Preparation for support information to a company that interesting in the CA business, such as Law (Electronic Transaction Act) and Other Regulation (CAB Forum, Microsoft, Adobe etc.)

• Thailand NRCA collaboration with Subordinate CA to improve services.

• Thailand NRCA certified the New Subordinate CA under Thailand NRCA in Mar 2019.

• Thailand NRCA Root certificate Stored in Adobe Approved Trust List

• 4 Companies interested to be a Subordinate CA under Thailand NRCA for support e-Tax invoice project and other digital service based on PKI.
Digital Service based on PKI in Thailand

- Thai Digital ID Company Limited (TDID) used the PKI to support Business in Thailand.
  - To Support user for Digital Signing to e-Tax invoice.
  - To Support user for authentication to Bank of Thailand : BOT.
  - To Support EMV chip card/Smart Card for The Thai Banker’s Association.
  - To Support Secure-Email for Company in Thailand.
  - To Support XML signed in National Single Windows project.
  - To Service SSL/TLS Certificates.

- Internet Thailand Public Company Limited used the PKI for support e-Tax invoice, Digital Signing service and Implement Mobile PKI.

- Other CA in Thailand Support Digital Signing and National Single window project.
• In 2019 has service more than 248 companies.
• VAT Filing Report to Revenue Department.
• Tax Invoice bill to Buyer.
• Trusted & Legally binding.

<table>
<thead>
<tr>
<th>Year</th>
<th>Companies</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>175</td>
</tr>
<tr>
<td>2018</td>
<td>196</td>
</tr>
<tr>
<td>2019</td>
<td>248</td>
</tr>
</tbody>
</table>
Applicable to VAT companies with annual revenue not greater than 30 million THB
PKI Time-stamping has been applied
Seller does NOT need to own any certificate for digital signature
PDF/A-3 and UN/CEFACT XML invoice format
Invoices are delivered from seller to RD and buyer via email

The usage for e-Tax invoice has over 600,000 transactions in last 7 months.
Over 3,000 Companies submitted an application to use this service.
Thailand’s Critical Infrastructure to be achieved ...

Digital ID or Digital identity is the unique representation of a subject engaged in an online transaction.

1. **Digital ID**
   - Upgrade citizen ID smart cards to PKI tokens, as the primary ID for online transactions.
   - Set a Level of Assurance standard, so that ID issued by public and private organizations can be applied to identity services with the same credibility.

2. **Digital Authentication Services**
   - Develop a central authentication system for government services, so that citizens and businesses can conveniently access to the services.

3. **Identity Service Providers**
   - Provide an ecosystem that facilitates the business of ID service providers, apart from a few number of certificate authorities (CA).

4. **Digital Identity Proofing Services**
   - Upgrade the government’s public information services/systems, so that citizens are allowed to use their personal information stored in the public domain for identity proofing purposes.
   - The private sector has a central platform for exchanging information for the identity proofing process.
ETDA’s Roles in National Digital ID Project

- Serves as a secretary of National e-ID committee (co-chair in legal and government pilot working groups)
- Publishes National e-ID standards and framework
- ETDA Connect Platform pilots with more than 5 government e-services in 2018
THANK YOU

Q&A