THAILAND – CURRENT STATUS

- Population: 69M
- Citizen ID smartcards have been used since 2004
- Moved up six places to 21st out of 190 countries in the World Bank’s 2020 ease of doing business rankings
PKI FRAMEWORK – HIERARCHICAL MODEL

Licensed CAs under Thailand NRCA:
- Thai Digital ID *(Private Sector CA)*
- INET CA *(Private Sector CA)*
- National Telecom Public Company Limited *(CAT CA & TOT CA)*
  - Planning to set up government CA
PKI APPLICATIONS

1. National Single Window
2. E-Tax Invoice
3. Digital Transcripts
PKI APPLICATIONS – NATIONAL SINGLE WINDOW

National Single Window is the centralized data linkage between agencies involving in the import, export and logistics to strengthen the competitiveness on international trade.

32 agencies integrated for the paperless customs procedures and the related logistics process.

95M transactions (import, export, and logistics transactions) through National Single Window in 2020.

7.8M electronic Licenses and certificates issued in 2020.
PKI APPLICATIONS – E-TAX INVOICE

• Invoices are delivered from sellers to Revenue department via emails
• Timestamping to prove the existence of invoices *(do not require a certificate for digital signature)*
• Only Companies with annual revenue less than 30 million THB

• Invoices are delivered to Revenue department via:
  1) Host to Host via ebMS (ebXML format)
  2) Service providers
  3) Web browser
• PKI digital signature is applied (require a certificate issued by licensed CA)
• Applicable to every company
PKI APPLICATIONS – E-TAX INVOICE

Utility Bill

Receipt from 7Eleven
PKI APPLICATIONS – E-TAX INVOICE

An accounting software can extract information from XML embedded into an invoice/receipt, without re-entering by human.
Electronic Transactions Development Agency (ETDA), Digital Government Development Agency (DGA), and Ministry of Higher Education, Science, Research and Innovation signed MOU on cooperation to encourage universities and higher education institutes in Thailand to issue digital transcripts (December 1, 2020).

- Over 100 universities and higher educations institutes are interested in joining the program.
- 2 Universities have already issued digital transcripts on the pilot phase.
PKI APPLICATIONS – DIGITAL TRANSCRIPT

- Student Details
- University/Institute Details
- Courses of study attempted or completed each year
- Qualification(s) completed, including date completed/conferred
- Course weighting and grades attained
- Other information (if any)

Information containing in a digital transcript (in XML format)

XML Schema follows ETDA Recommendation on ICT Standard for Electronic Transactions on “MESSAGE STANDARD FOR ACADEMIC TRANSCRIPT”
Thank You