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ETDA Thailand

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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.

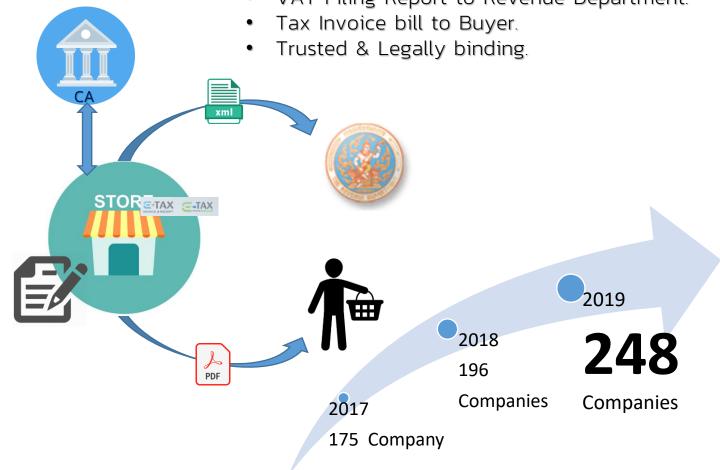




- Applicable to ANY VAT companies.
- PKI digital signature has been applied
- Seller must own certificate that issued under NRCA for digital signature
- UN/CEFACT XML invoice format
- Invoices are delivered to RD via either
 - Host-to-Host over ebXML
 - Web file upload
 - Service provider



- In 2019 has service more than 248 companies.
- VAT Filing Report to Revenue Department.





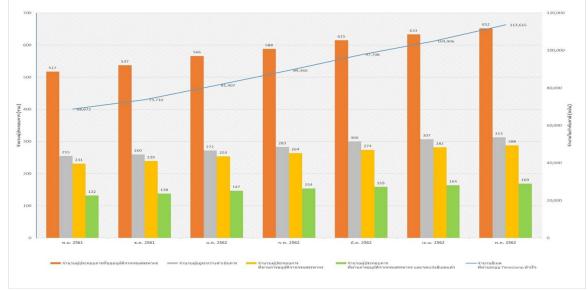


- Applicable to VAT companies with annual revenue not greater than 30 million THB
- PKI Time-stamping has been applied
- Seller does NOT need to own any certificate for digital signature
- PDF/A-3 and UN/CEFACT XML invoice format
- Invoices are delivered from seller to RD and buyer via email





- 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.



Digital ID



Digital Authentication Services



- 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.



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).



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

