



PUBLICKEY
INFRASTRUCTURE
SERVICE



Outline

- TDID Background
- CA Service
- CA Hosting Service
- Digital Signing Solution
- e-Insurance Policy

TDID Background



Established in December 2000, as the first CA Service Provider.

Objectives : To deliver the world-class standard certification service.



Certified
Thailand National Root CA

Certified
ISO 27001 / WebTrust for CA

Certified
FIPS 140-2 Level 3



TDID's History

TDID was born

2000

2001-2004

2005-2008

2008-2011

2012-2015


2016- Present




PCC CA
20-03-2001



NITMX CA
14-06-2007



BOT CA
18-03-2011



TBCC RCA
07-03-2016




Certified
ISO 27001
2007



TDID CA
12-05-2011



Certified
WebTrust
2013



Certified
WebTrust
SSL Baseline
2016

CA Service

Certification Authority (CA)

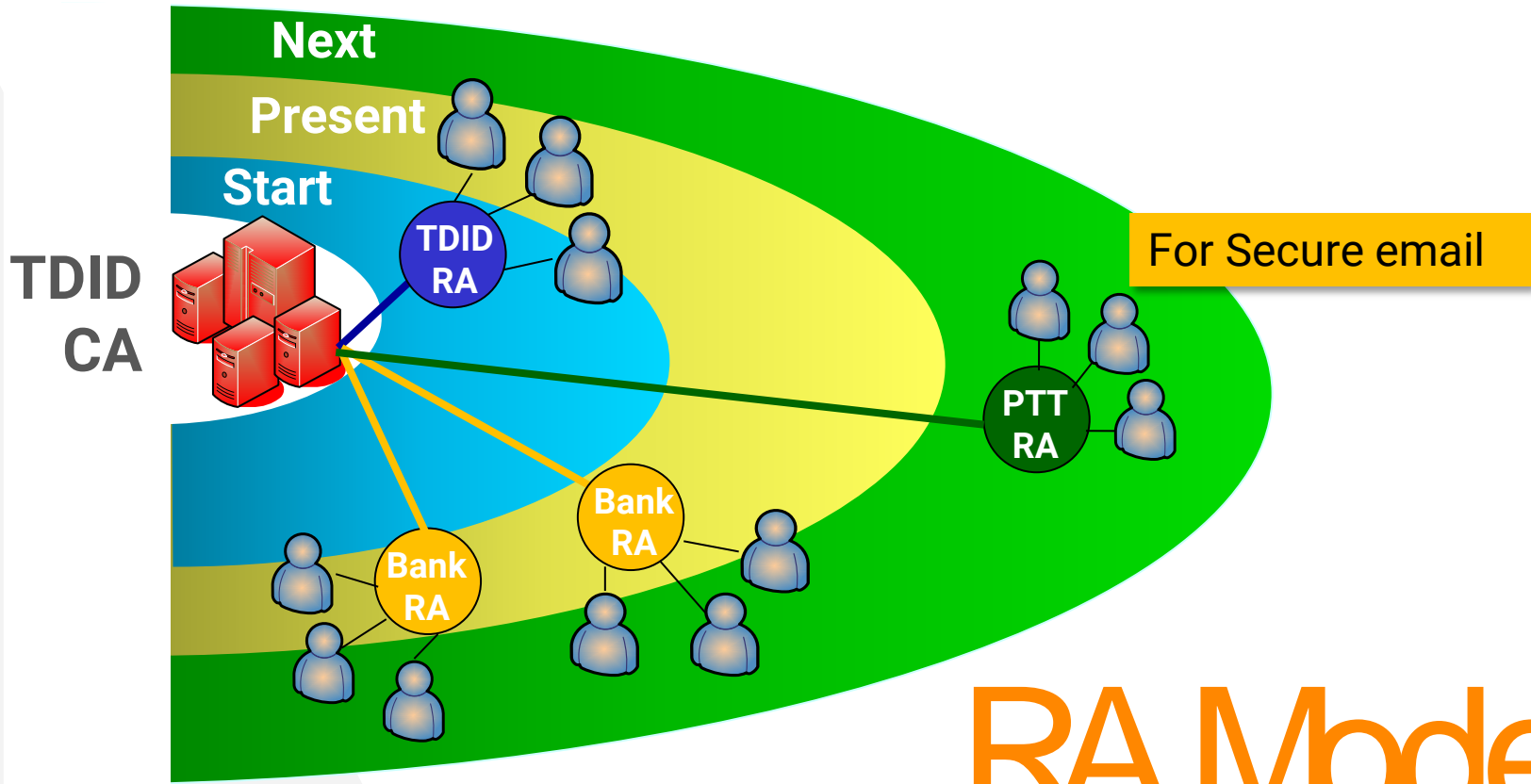
- Personal
- Enterprise
- SSL
- Server/NW equipments



Registration Authority (RA)

- Interface between CA and end entities
- Identifies end entities
- Keep records of end entities





RA Model

To deliver the world-class standard CA service



ความปลอดภัยของ
กุญแจส่วนตัว



บริการเป็นไปตาม
มาตรฐาน CA
สากล



ระบบพร้อม
ให้บริการ
ตลอดเวลา



Browser
Recognition



การบริการสะดวก
รวดเร็ว



ระบบแจ้งเตือน
ก่อน
ใบรับรองฯ
หมดอายุ



บริการ Online
Certificate
Renewal



บริการ Call
Center

Our Customers

Application



ระบบโอนเงิน Electronic Financial Services (EFS)



บริการหนังสือรับรองนิติบุคคล
อิเล็กทรอนิกส์ผ่านธนาคาร



บริการรับ-ส่งข้อมูลรายผู้ฝากกับ
สถาบันคุ้มครองเงินฝาก



โครงการใบกำกับภาษี
อิเล็กทรอนิกส์



ระบบรักษาความมั่นคงปลอดภัยด้วย
ใบรับรองสำหรับเซิร์ฟเวอร์และเร้าเตอร์



ระบบนำส่งข้อมูลอิเล็กทรอนิกส์แบบ
ออนไลน์ของสำนักงาน กสท.

User



Standard Chartered



TMB



BNP PARIBAS



LH BANK

JPMorgan



HSBC



CIMB THAI

ซีไอเอ็มบี ไทย

citibank



Bank of America

RBS

The Royal Bank of Scotland



Deutsche Bank



TISCO Bank



UOB

CA Hosting Service

CA Hosting Service

CA Hosting is a solution that TDID aims to serve the full CA implementation and operation management based on the standard security system infrastructure.

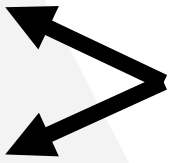


CA Hosting Service

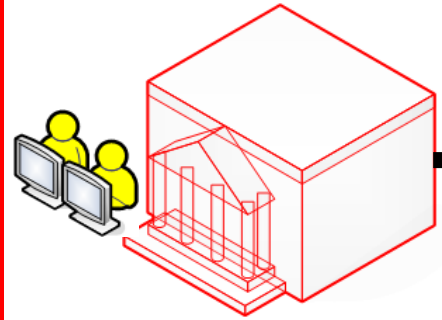
Enterprise User



Personal User



Recognized CA



TDID PKI Backend

Data Center

ISO 27001 BUREAU VERITAS Certification No. 227114 B		
Certification Authorities Baseline	Certification Authorities 	

Backup Center

Our Customers



Digital Signing Solution

Digital Signing Solution

- In-house Digital Signing with TDID PKI Product
- Outsourced Digital Signing to TDID



In-house Digital Signing with TDID PKI Product

PKI Hardware



PKI Software








PKI Hardware

Safenet is a global leader in information security, providing complete security utilizing its encryption technologies, and offers a full spectrum of products including hardware, software and chips.



SafeNet HSM

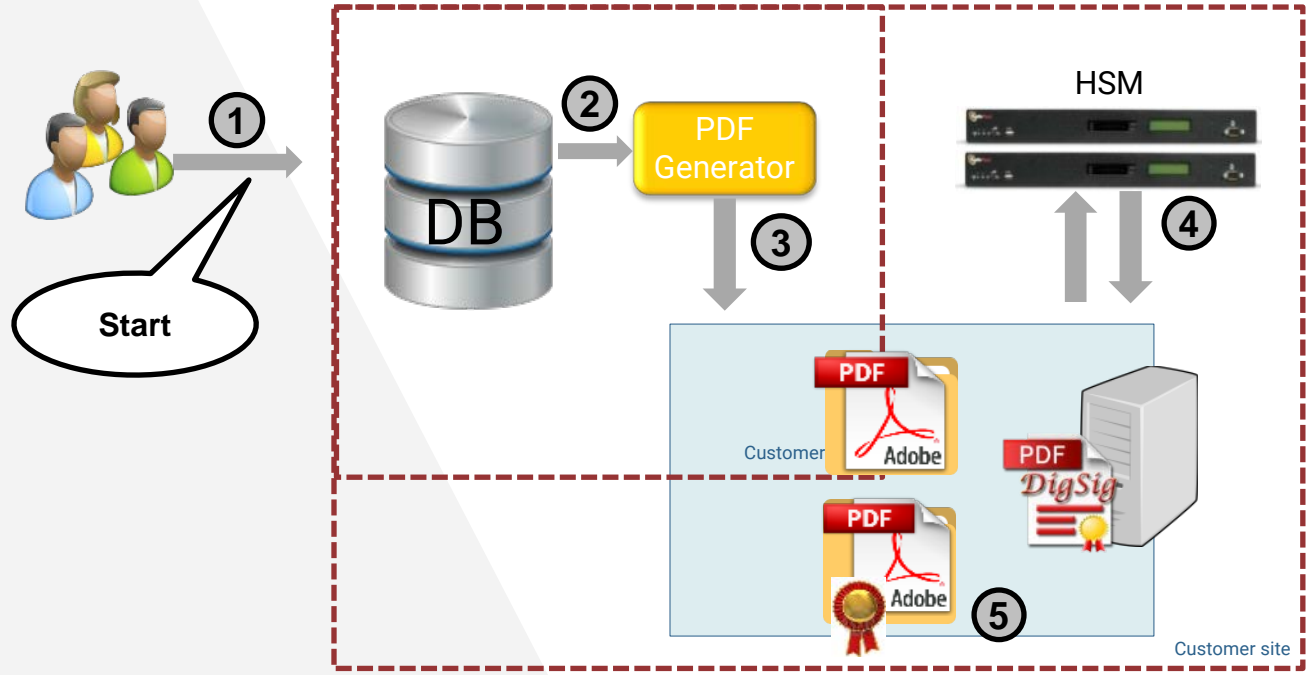
- Keys always in Hardware
- High-Performance Cryptographic Processor
- Security Validated FIPS 140-1 Level 2 FIPS 140-2 Level 3
- Strong Encryption
- Easy Deployment
- Ease of Integration

General Purpose		Payment HSM	Authentication Token	
Network Attached	PCI Card			
 <p>Luna SA</p>	 <p>Protect Server External (PSE)</p>	 <p>Luna PCI-e</p>	 <p>Luna EFT2</p>	 <p>iKey 5110</p>

Thai Digital ID Company is the PKI security specialist, offering services that secure critical data and providing PKI application for signing the digital signature on e-Document.



PKI Software



1. Start
2. Generate file
3. Get PDF files in input folder
4. Sign data with a key in HSM
5. Send signed PDF files to output folder

Features

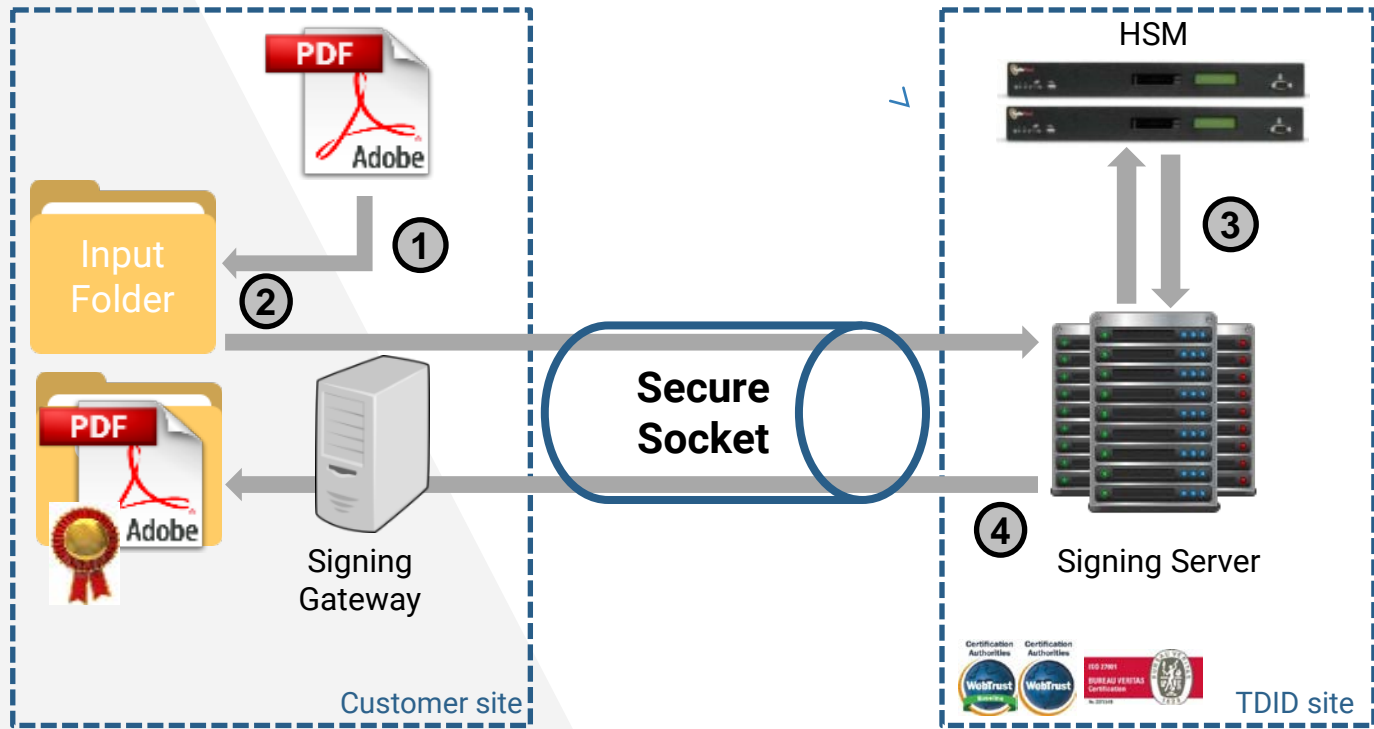
- Sign Digital Signature to PDF file
- Flexibility and Efficiency in dealing with multiple folders (various forms) and multiple keys (various signature)
- Customization for Fields Caption/Position arrangement
- High availability Support
- Strong Authentication by Two factors
- PKI-enabled GUI & Interactive Guided Menu/Message
- High integrity and validity with Time Stamp Server Connection Support
- Real-time Audit Logs

Outsourced Digital Signing to TDID

Thai Digital ID Company has launched digital transaction signing service to facilitate low-cost, flexible, and secure PDF document signing to the client.



Outsourced Digital Signing to TDID



1. Place file to input folder
2. Transfer data to Signing Server
3. Sign data with a key in HSM
4. Transfer data to Signing Gateway and write file to output folder

Features

Flexible operation processing

- Batch Signing
- Online Signing

Integrated supporting features

- Report consolidation
 - Transaction report
 - Service Fee report



Highlights and Benefits

High Scalability

- Limitless number of transaction to be run under high performance computing and standard NW infrastructure.

High Availability and reliability

- 24*7*365 Service operation
- Tireless vigilance sharing between DC and DR (Tier 4)

High security of communication and transactions

- Hash transactions sent and received are always encrypted and secure under SSL communication.
- Customer's private key is securely protected in the FIPS 140-2 Certified HSM
- Transactions are signed in the FIPS 140-2 HSM
- The service is run under ISO 27001 and WebTrust for CA environment

Benefit

- Substantial decrease in operational workload and let the clients focus their core activities/service efficiently
- Drastic reduction in cost of investment
- Long term burden free
- Professional execution and customer support



ISO/IEC 27001:2013

e-Insurance Policy

Current (paper) Insurance Policy System



Create Insurance Policy



Print



Send to customer

e-Insurance Policy System



1

2 (A)

3



Create Insurance Policy



In-house Signing

2 (B)



Outsource Signing



Send to customer

Digital Signature

Signed and all signatures are valid.

Insurance Policy

[Redacted text]

[Redacted text]

[Redacted text]

[Redacted text]

[Redacted text]	[Redacted text]	[Redacted text]
[Redacted text]	[Redacted text]	[Redacted text]
[Redacted text]	[Redacted text]	[Redacted text]

[Redacted text]

Digitally signed by THAI DIGITAL ID
DN: cn=THAI DIGITAL ID, c=TH, o=3030196149
Date: 2011.07.04 09:21:17 +07'00

THANK YOU

Please visit us

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