



BỘ THÔNG TIN VÀ TRUYỀN THÔNG

TRUNG TÂM CHỨNG THỰC ĐIỆN TỬ QUỐC GIA

NATIONAL ELECTRONIC AUTHENTICATION CENTRE

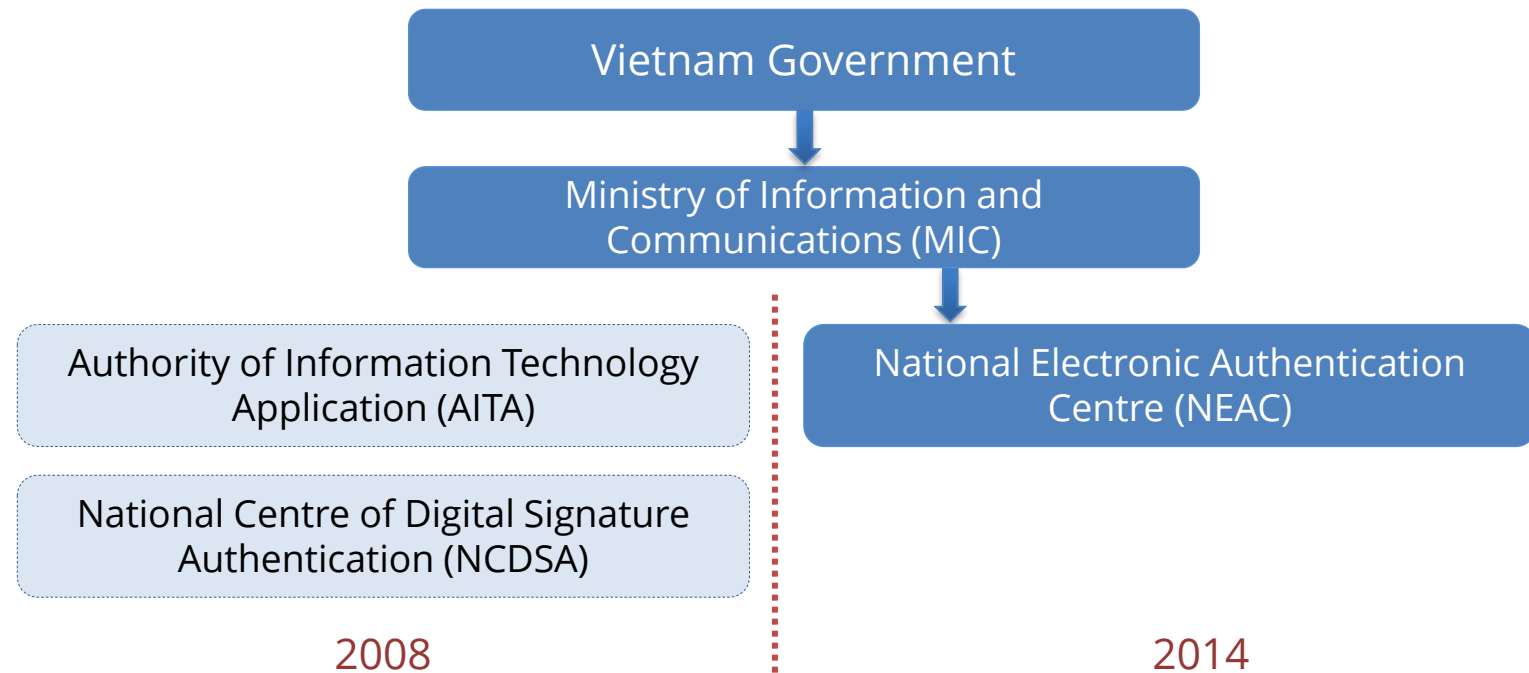
National Electronic Authentication Centre PKI System

Malaysia, 2023

I. Introduction of NEAC

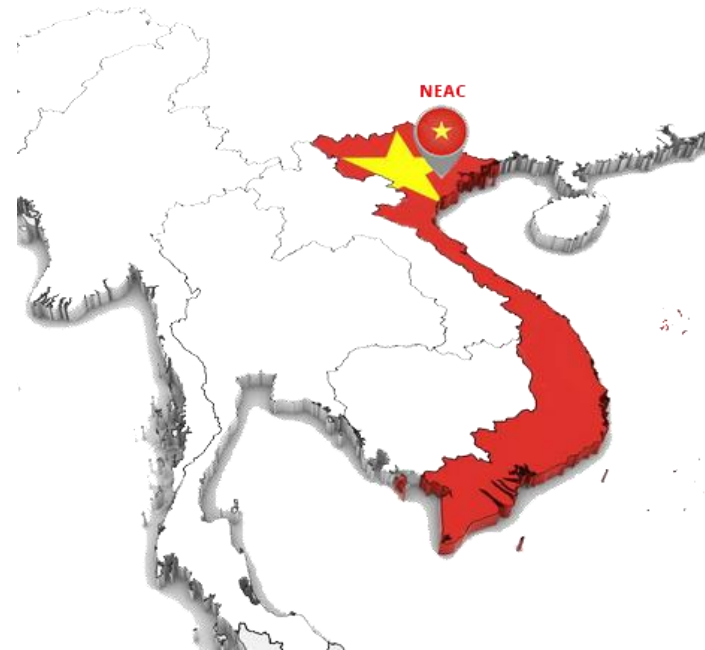
History

- ❖ Established on 09 September 2014, on the basis of the National Centre of Digital Signature Authentication (NCDSA) under the Authority of Information Technology Application under the Ministry of Information and Communications (MIC).



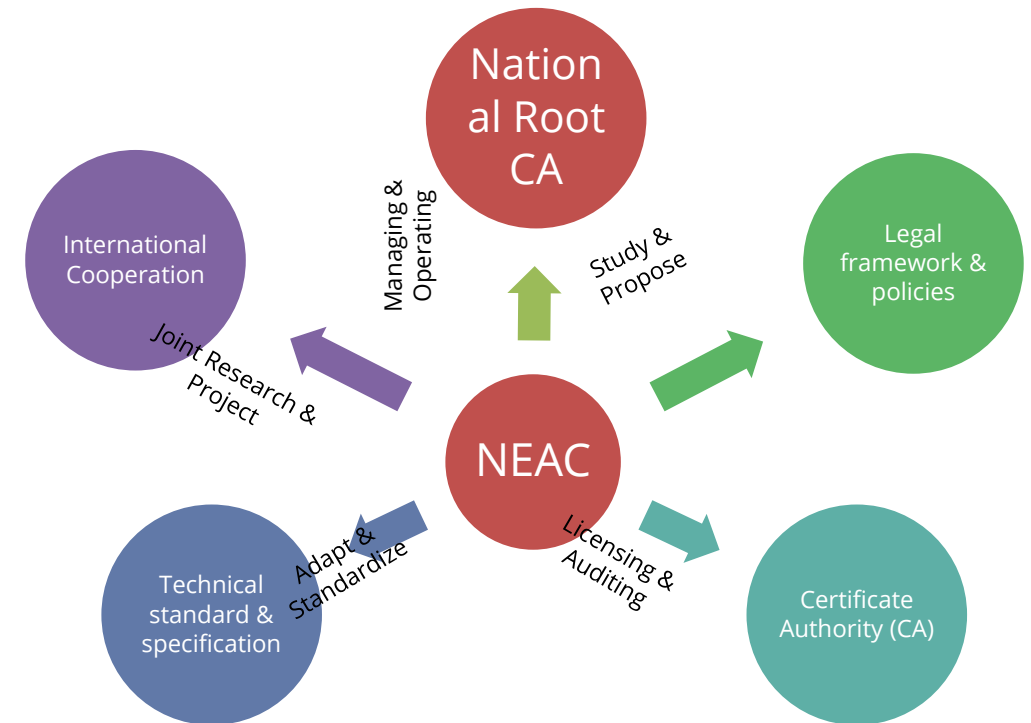
Overview

- ❖ Position: NEAC is a public service entity in Vietnam.
- ❖ Function: State management in digital signature and e-authentication field.
- ❖ Office: 7th floor, 115 Tran Duy Hung str, Cau Giay distr, Hanoi city, Vietnam.

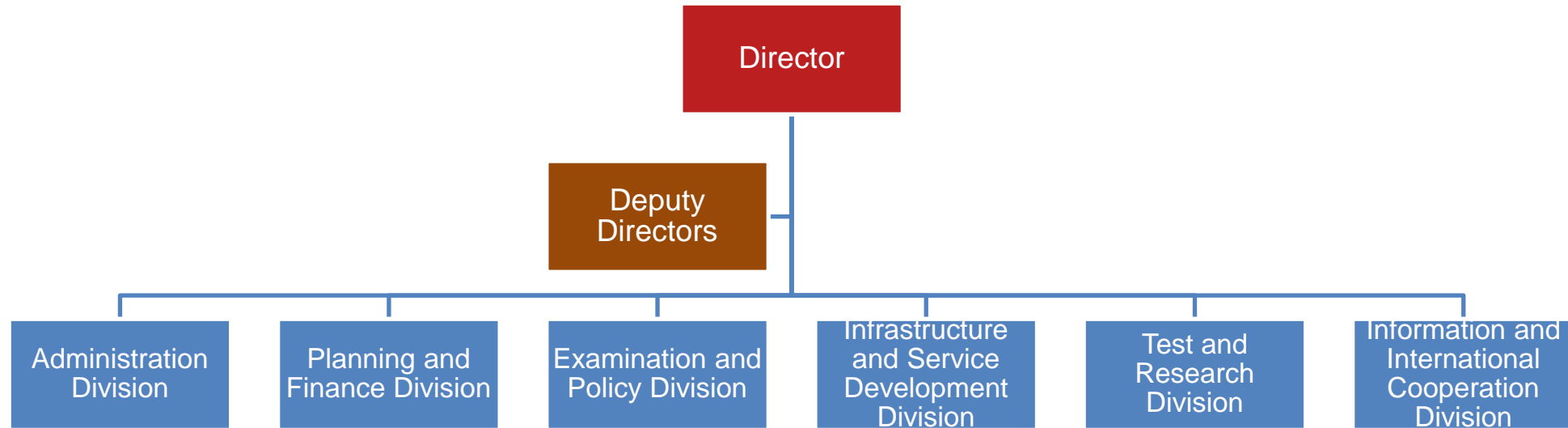


Main function

- ❖ Issue, revoke certificates.
- ❖ CA management.
- ❖ Law on electronic transactions.
- ❖ Granting license and regular audit.
- ❖ International cooperation to develop legal framework, technical standards, mutual recognition of digital signature.



Organization structure



II. Vietnam PKI System

PKI related organizations

❖ RootCA:

- Managed by NEAC, RootCA performs role of operation information security infrastructure that includes electronic authentication and PKI based services.

❖ Public SubCAs:

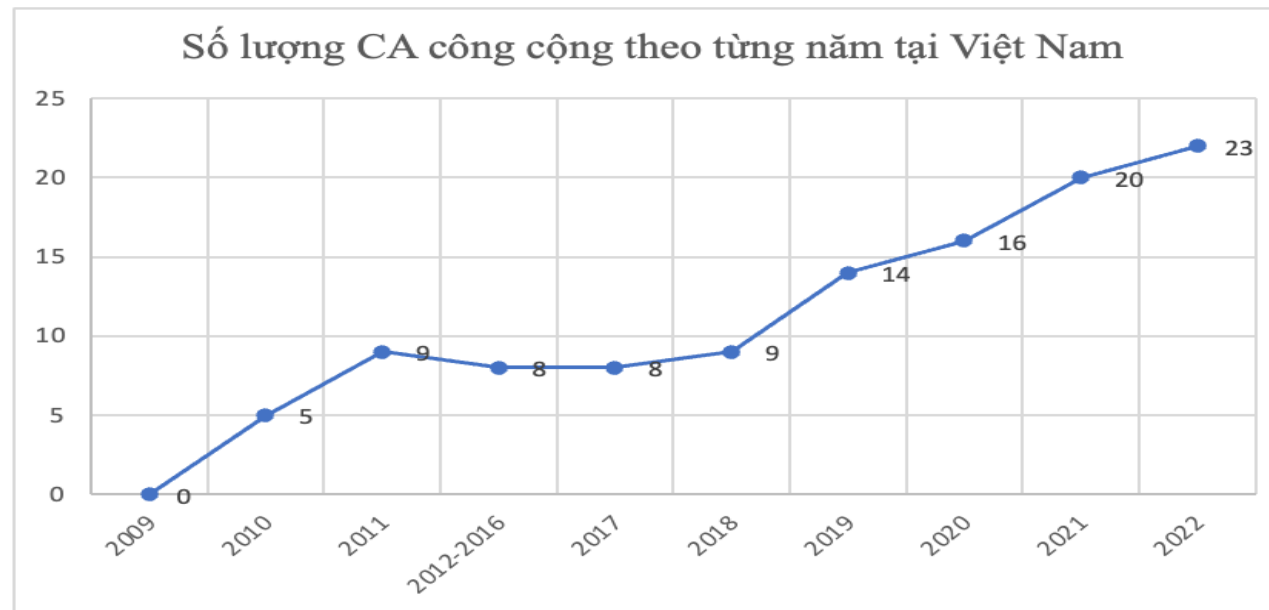
- Providing digital certificate service in Vietnam.
- License issued by NEAC is required.
- Currently 23 public SubCAs received the license to provide digital certificate issuance services.

❖ Vietnam Government RootCA (VGCA):

- For government agencies and officials.

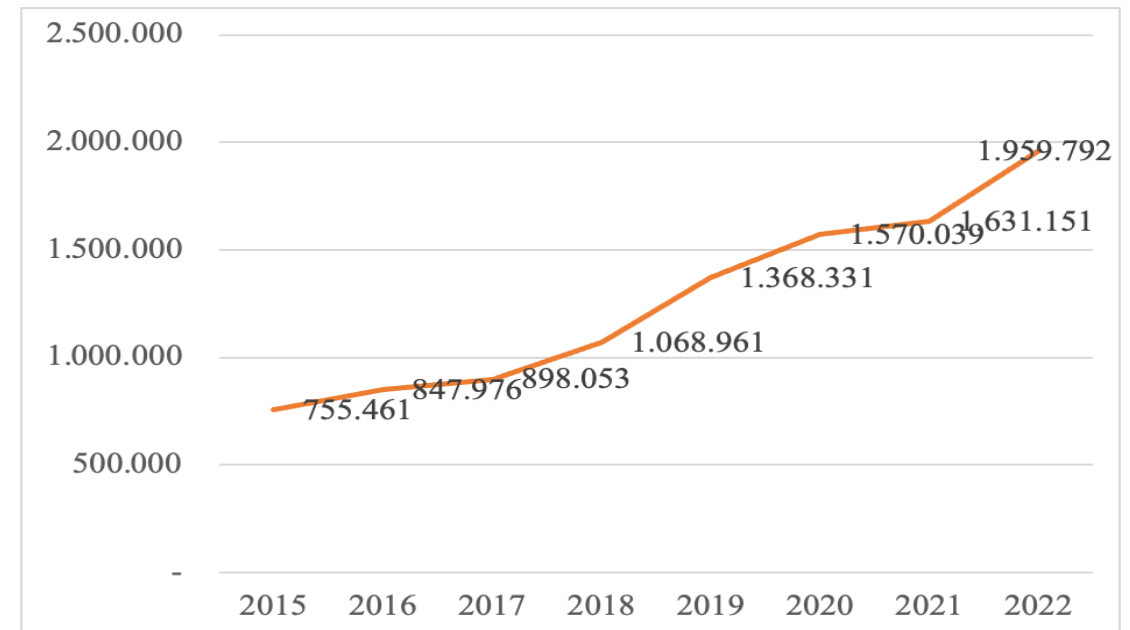
Public digital signatures

- ❖ Public digital signatures in Viet Nam: 23 CAs.
- ❖ CA that has remote signing service: 7 CAs.



Public digital signatures

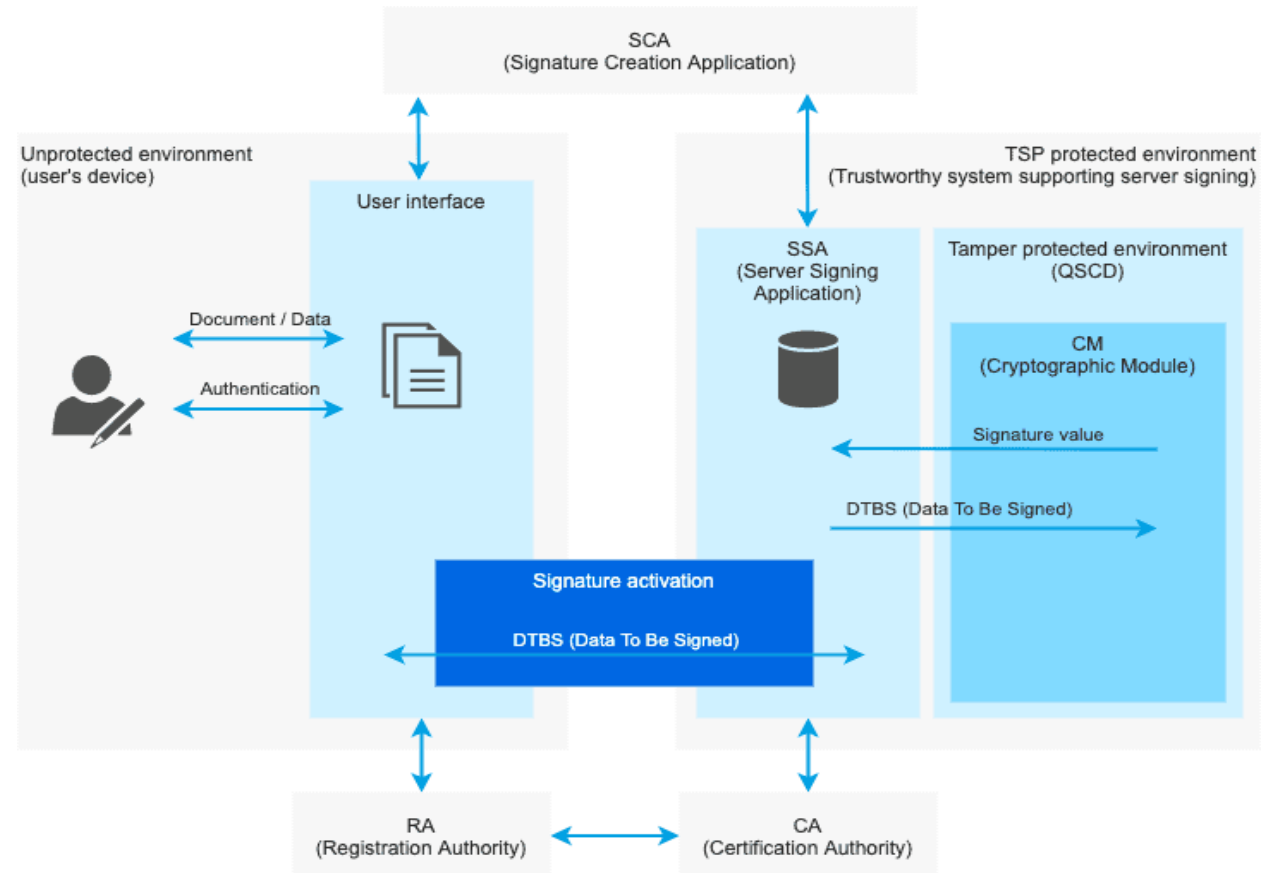
- ❖ Approximately 4.6 million public certificates already issued.
- ❖ 1.9 million public certificates have been activated.
- ❖ Customers set: legal entities, end-entities (individual customers).
- ❖ Main purposes of digital signatures:
 - Tax declaration.
 - Social insurance claiming.
 - Customs declaration.
 - ...



Number of active public certificates in the period of 2015 - 2022

Forms of digital signature in Vietnam

- ❖ USB token.
- ❖ Remote signing: eIDAS compliance.
- ❖ SIM PKI.



Amendment of Electronic Transactions Law

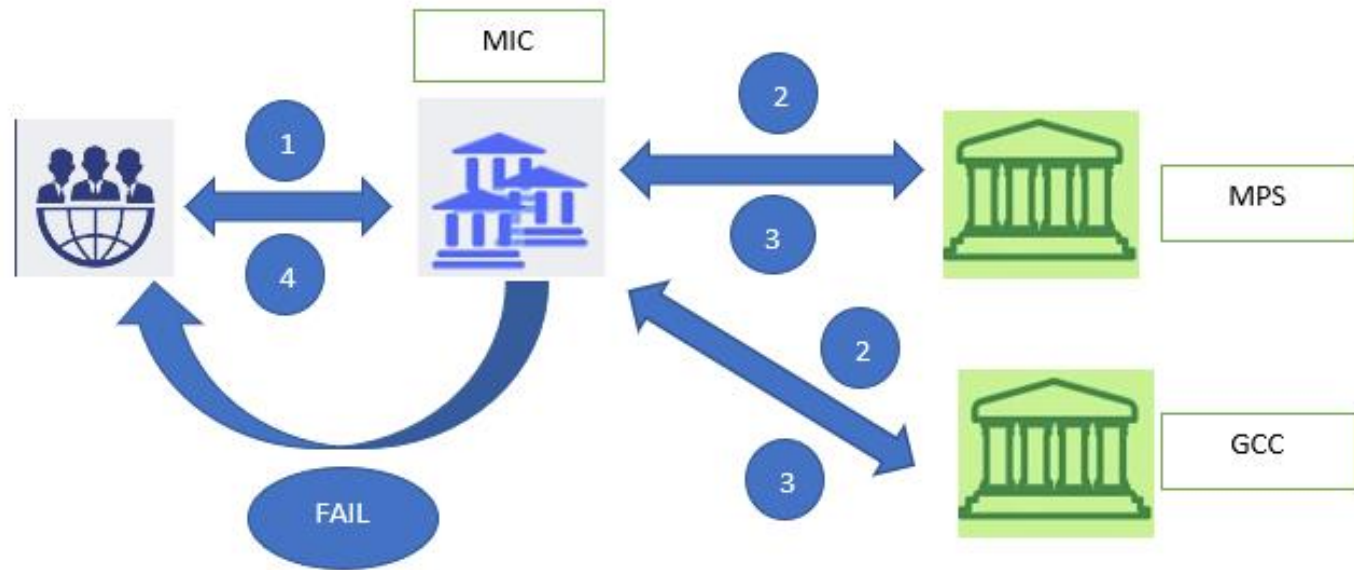
- ❖ Electronic Transaction Law first endorsed in 2005.
- ❖ Many contents are outdated and obsolete by the current situation of Vietnam's e-commerce.
- ❖ New services are introduced in Amended Electronic Transaction Law.



III. Topics of interest

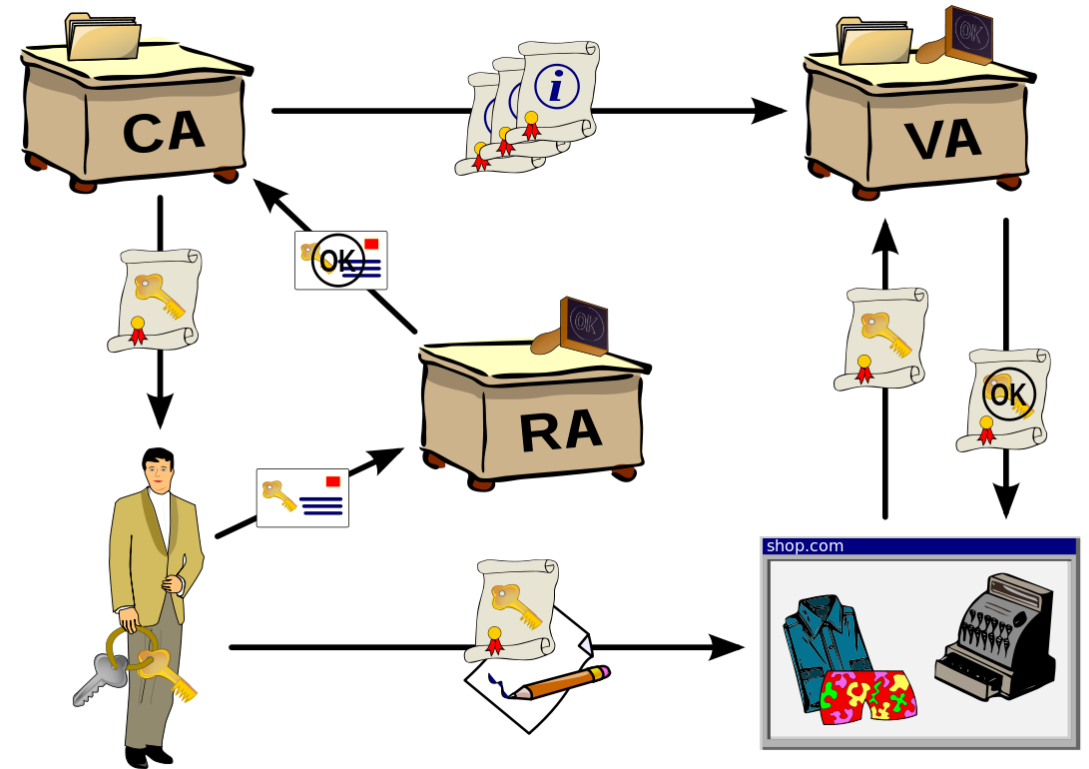
Legal framework

- ❖ Methods/approaches of working and applying Amended Law for domestic uses.
- ❖ Experience on building examination policies.
- ❖ What to pay attention on reworking licensing process?



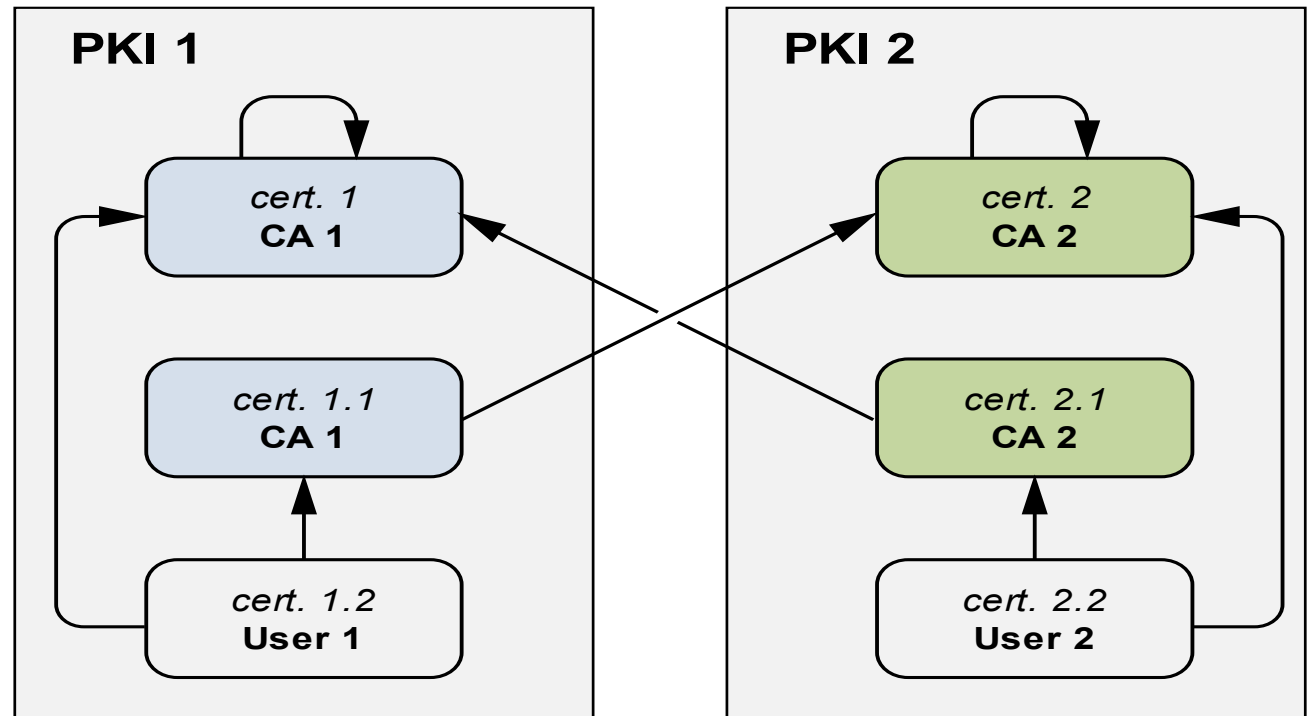
Standard and regulations

- ❖ Experience on choosing international audit company.
- ❖ International standards and protocols.
- ❖ Experience on establishing VA.



Cross-certification to cross-border

- ❖ Trust relationship between CAs on Root/national level.
- ❖ Mutual-recognition between countries.
- ❖ Mutual audit or International audit.



Thanks for your attention!