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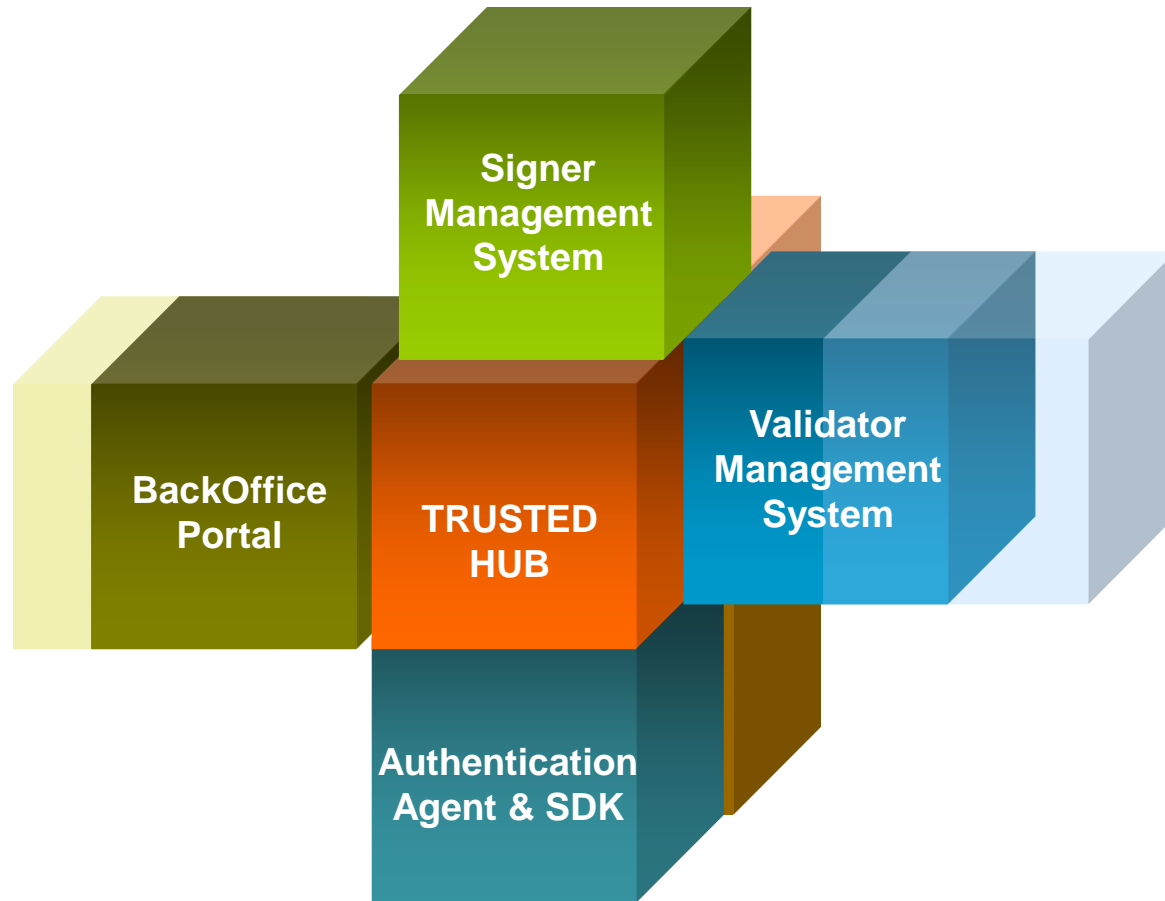
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TRUSTED HUB INTRODUCTION

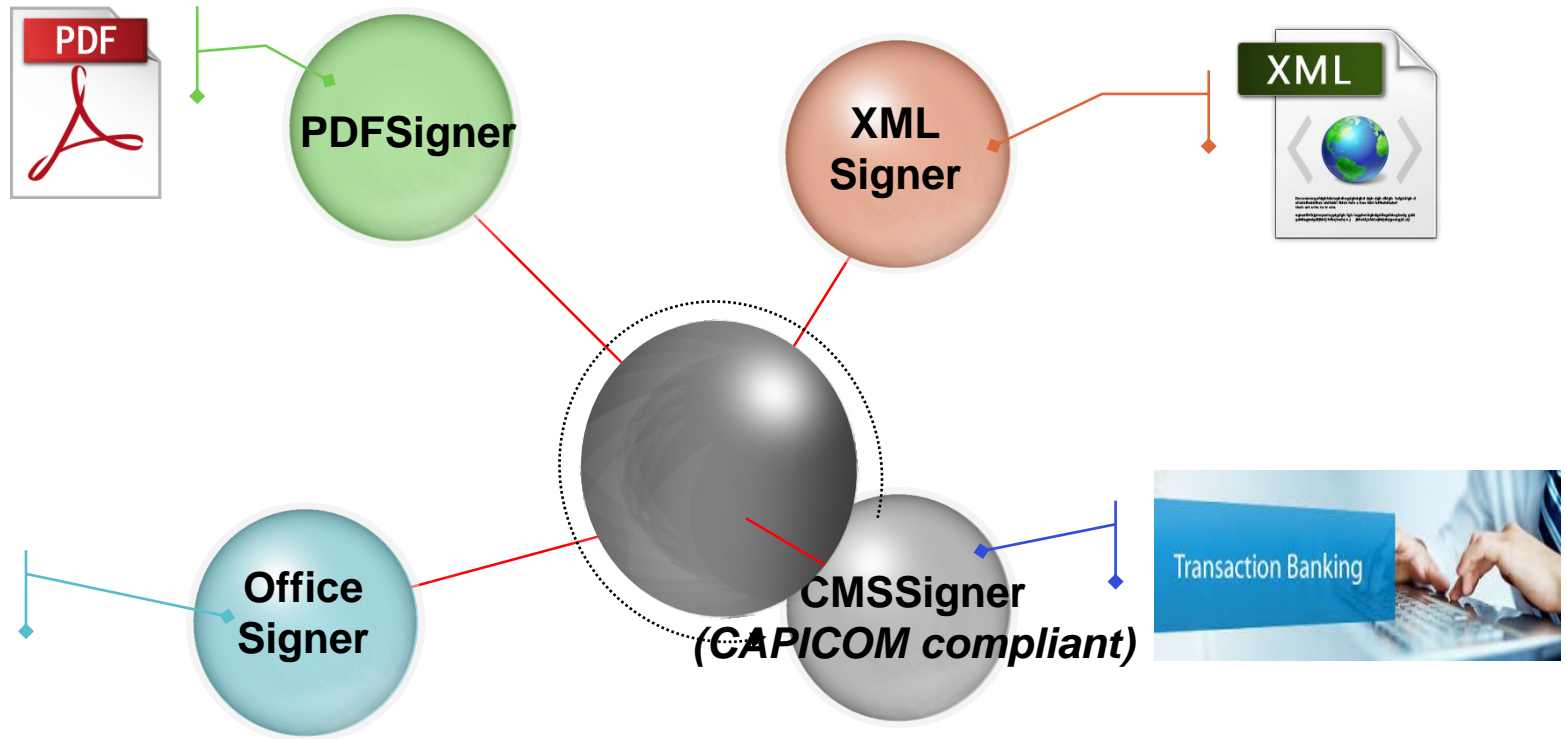


***TOTAL PKI/OTP/FIDO SOLUTION
FOR BANKING AND SECURITIES***

Functional Structure



Signer Management System



Signer Management System



Connect to FIPS PUB 140-2 Level 3 certified HSM

Signer Management System

Supports Wireless PKI (wPKI) and 2nd token

(wPKI)



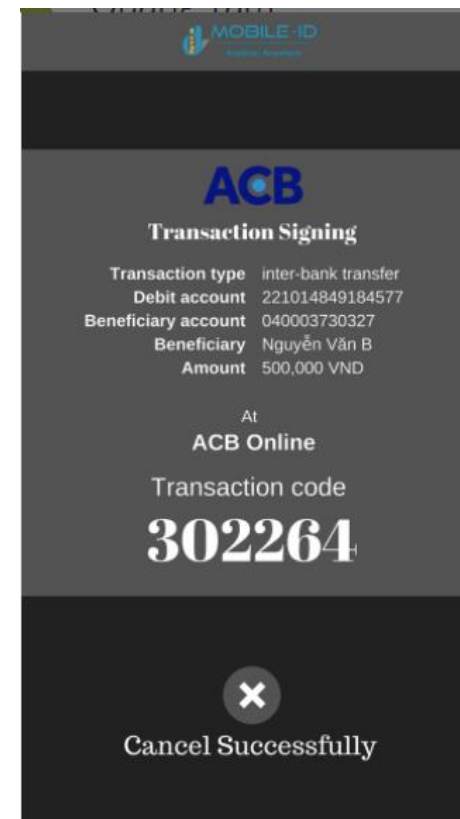
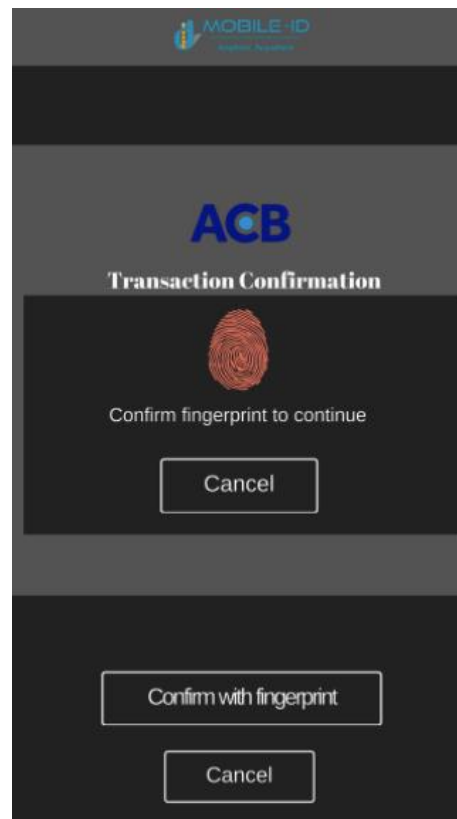
(2nd token)



2nd Token is supported for both Android and iOS devices. Bring the best flexibility to customers with the highest security

Signer Management System

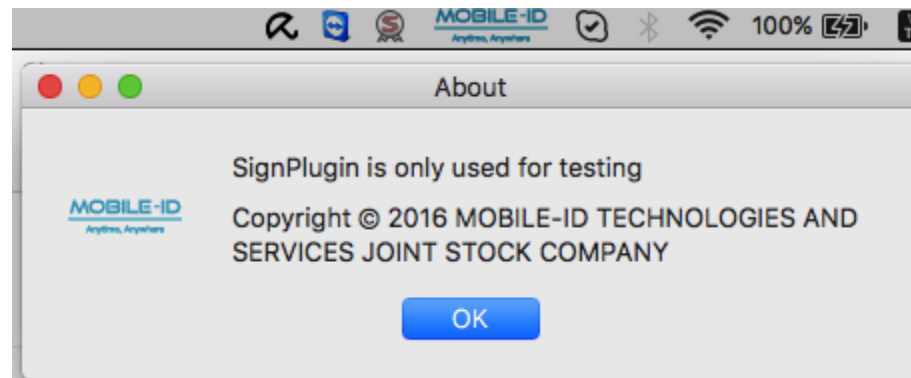
Support the UAF Client that integrated the UAF Authenticator/KeyChain/KeyStore on Trusted Client



Signer Management System

SignPlugin is provided by Mobile-ID, it works fine in Windows (IE, Edge, Chrome, Firefox, Opera, Safari) in MACOSX (Safari, Chrome, Opera)

The workers natively supported are listed OfficeSigner, PDFSigner, XMLSigner, CAPICOMSigner and the most important also support DCSigner (Distributed Cryptography Signer)



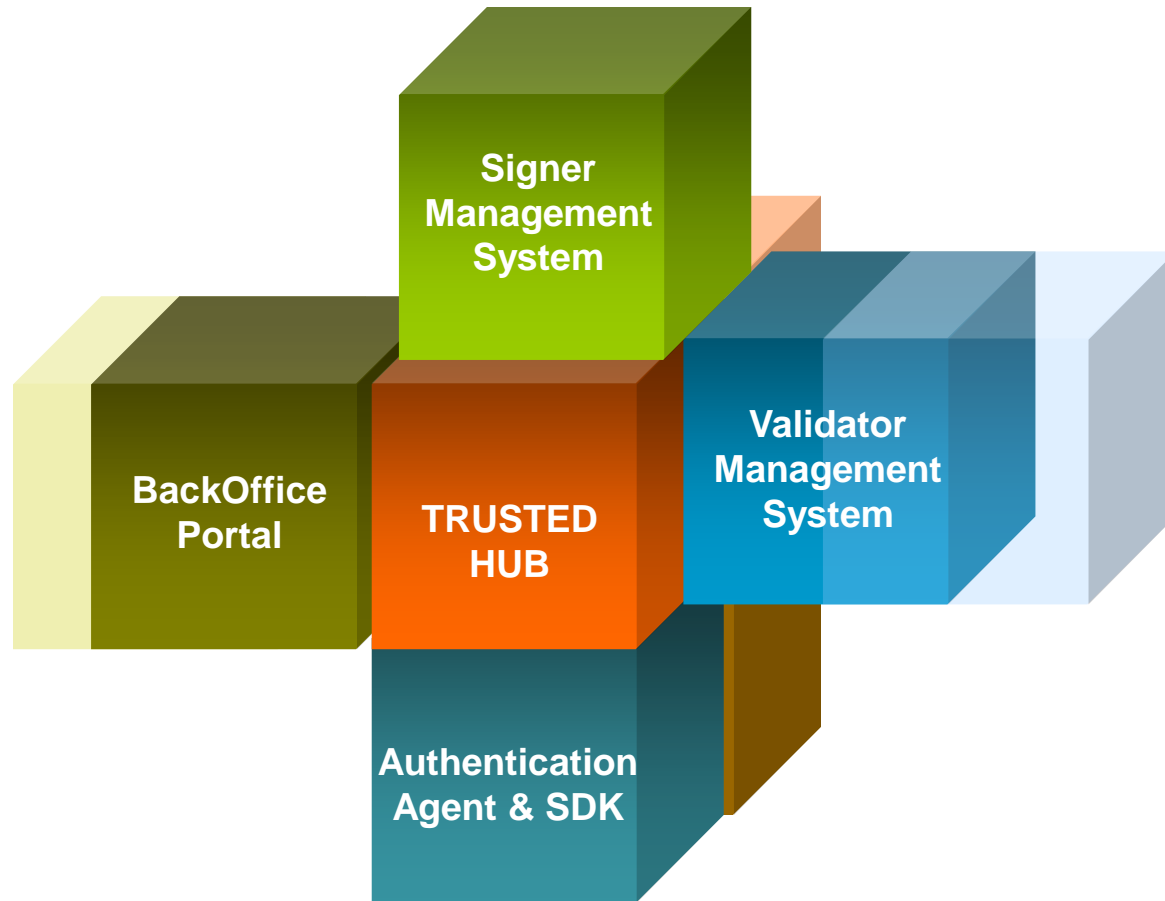
Signer Management System

SOAP
Web
Services

HTTP
Post
(Webpage)

Supports two methods for signing

Functional Structure



Validator Management System



PDFValidator



OfficeValidator



XMLValidator



CapicomValidator



OTP
(Hardware/SMS/Email)



Fido

Validator Security Devices



STANDARD
PKI TOKEN



FIDO TOKEN



BIO FIDO



CHIP
EMBEDDED CARD



OTP
DISPLAY CARD



OTP TOKEN



E-SIGNATURE
OTP TOKEN



LCD PKI TOKEN

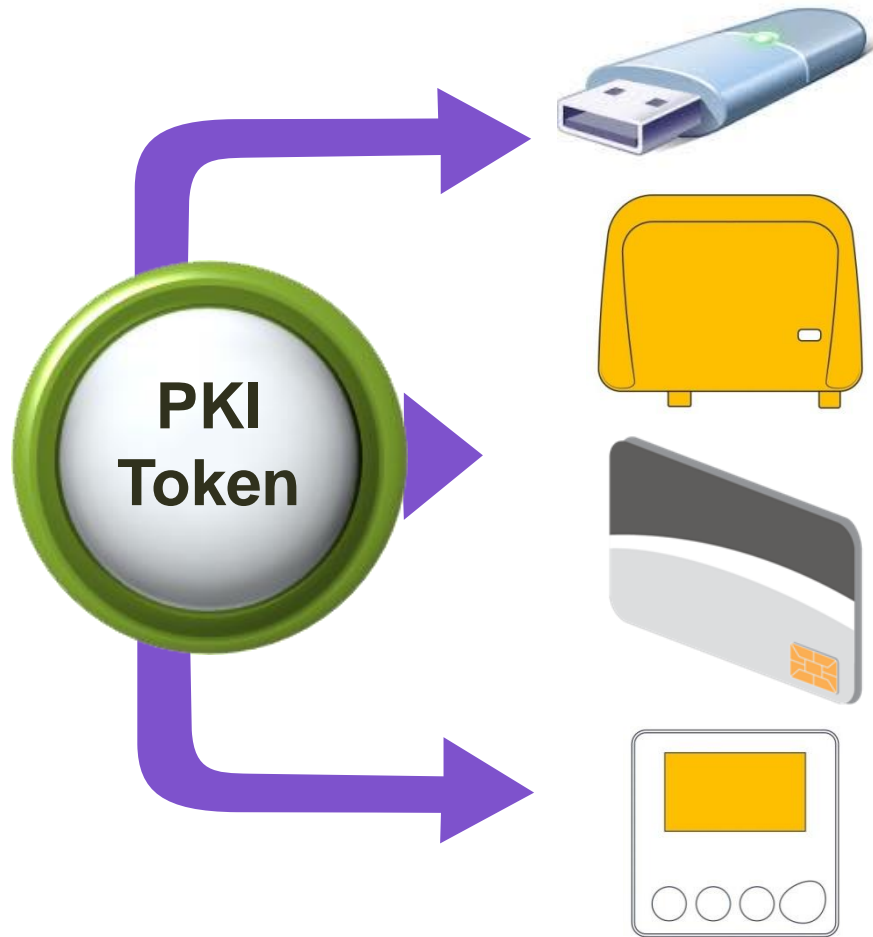


WPKI USIM



UAF FIDO

PKI Token



Multiple algorithms supported
Security with a harden shell

Compact and portable
Flexible customize

Cryptographic APIs

Create your own PKI services.

- Microsoft Crypto API (CAPI)
- PKCS #11
- PC/SC

Advantages



Hardware OTP Token

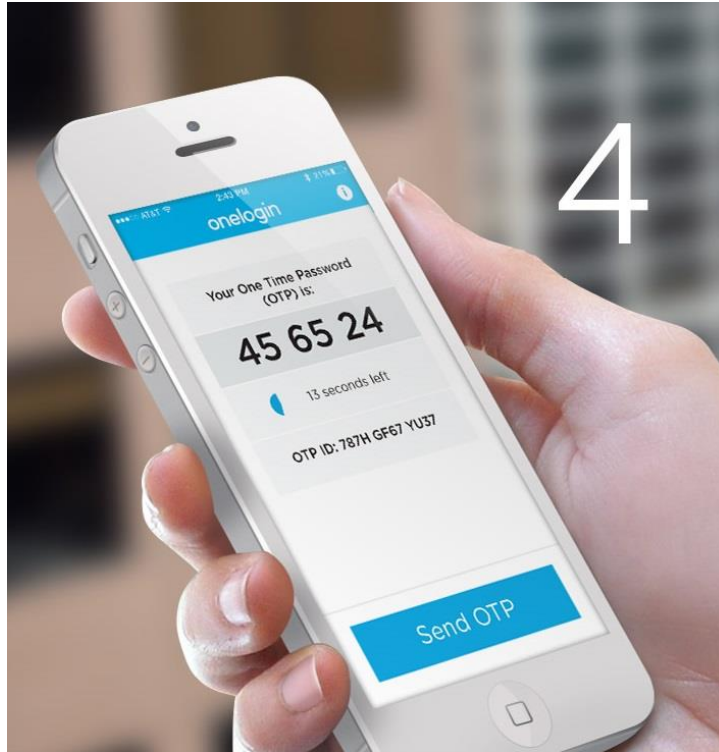


The classic OTP Token which has been trusted for a decade

Trusted and tested by countless bank, enterprises and individuals. Firm and reliable physical OTP token is always the best for your second factor authentication

Mobile OTP Token

Fast remote logon

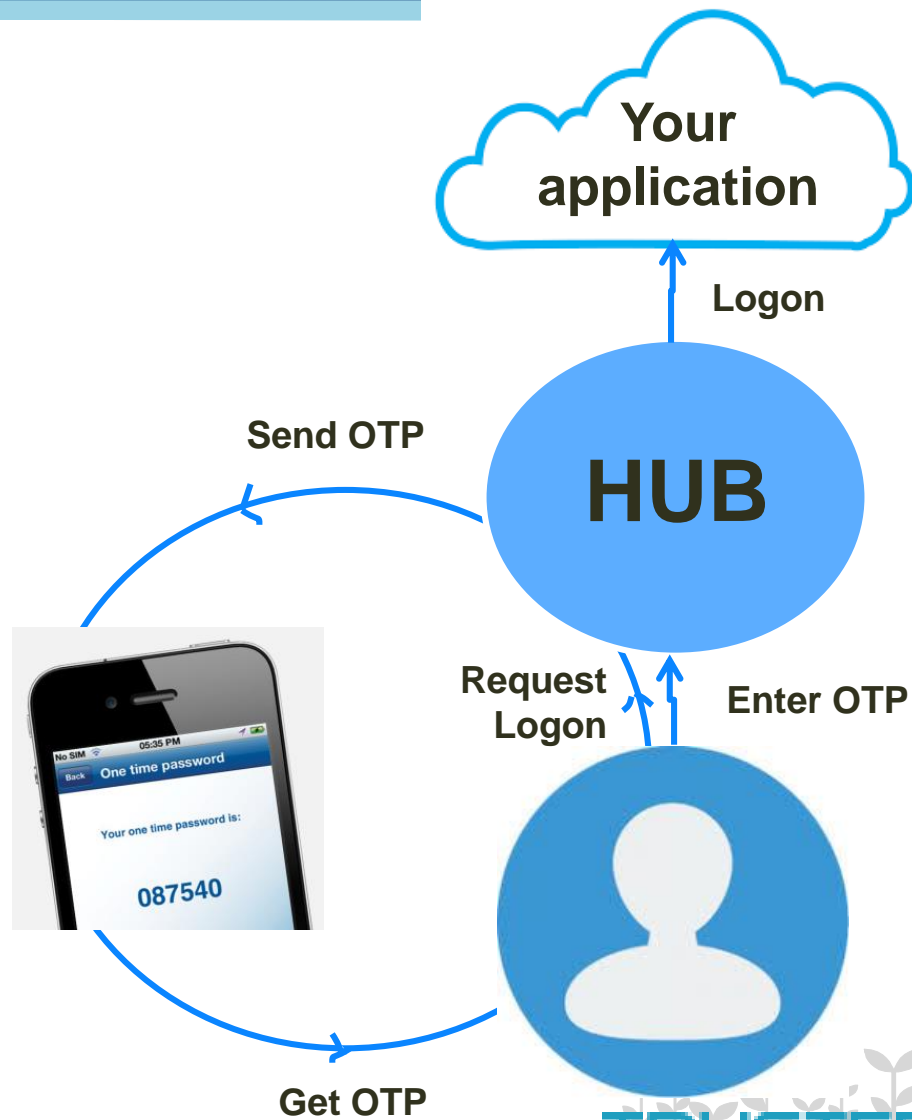


1.Mobile OTP frees your pocket and keychain from bringing real physical OTP tokens by simply installing an application in your smart phone

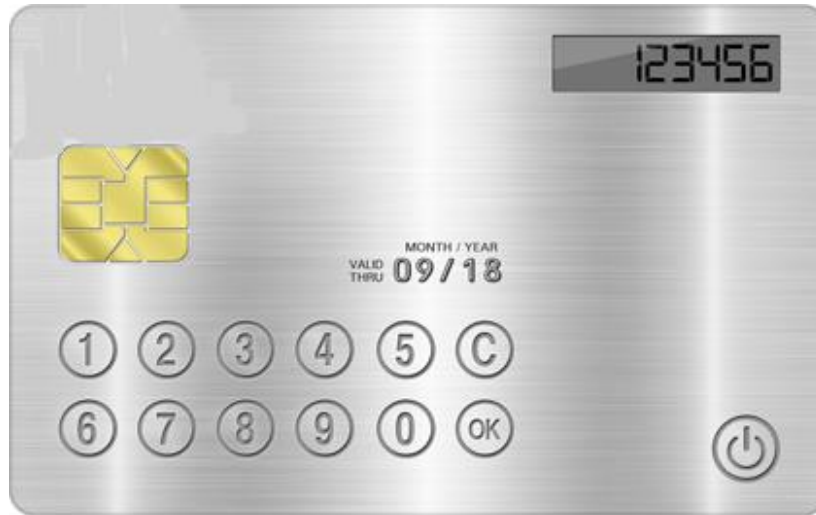
2.With fast remove logon, you do not even need to enter the OTP code manually. The only thing you need to do on your mobile application is click “logon” when the request comes. All of the OTP exchanges with authentication server will be conducted invisibly.

SMS OTP

**No
application
needed on
your smart
phone**



OTP Card



OTP Card can be considered as any regular one-time-password (OTP) token shaped in a card

Enabling NFC also makes it possible to simply read the OTP by an application in your mobile phone. Users have no need to manually insert the OTP code anymore.

OTP card eliminates the risk of seed exposing by supporting self seed programming over NFC or private contactless protocol.

Bio Fido

BIO FIDO uses biometric finger print sensor to protect the key.

The finger print module prevents any misuses of the token from people other than the token owner. Losing this token will cause no security risk on any of the account bound with this token.

There is no limit on the number of registered accounts in your Bio Fido

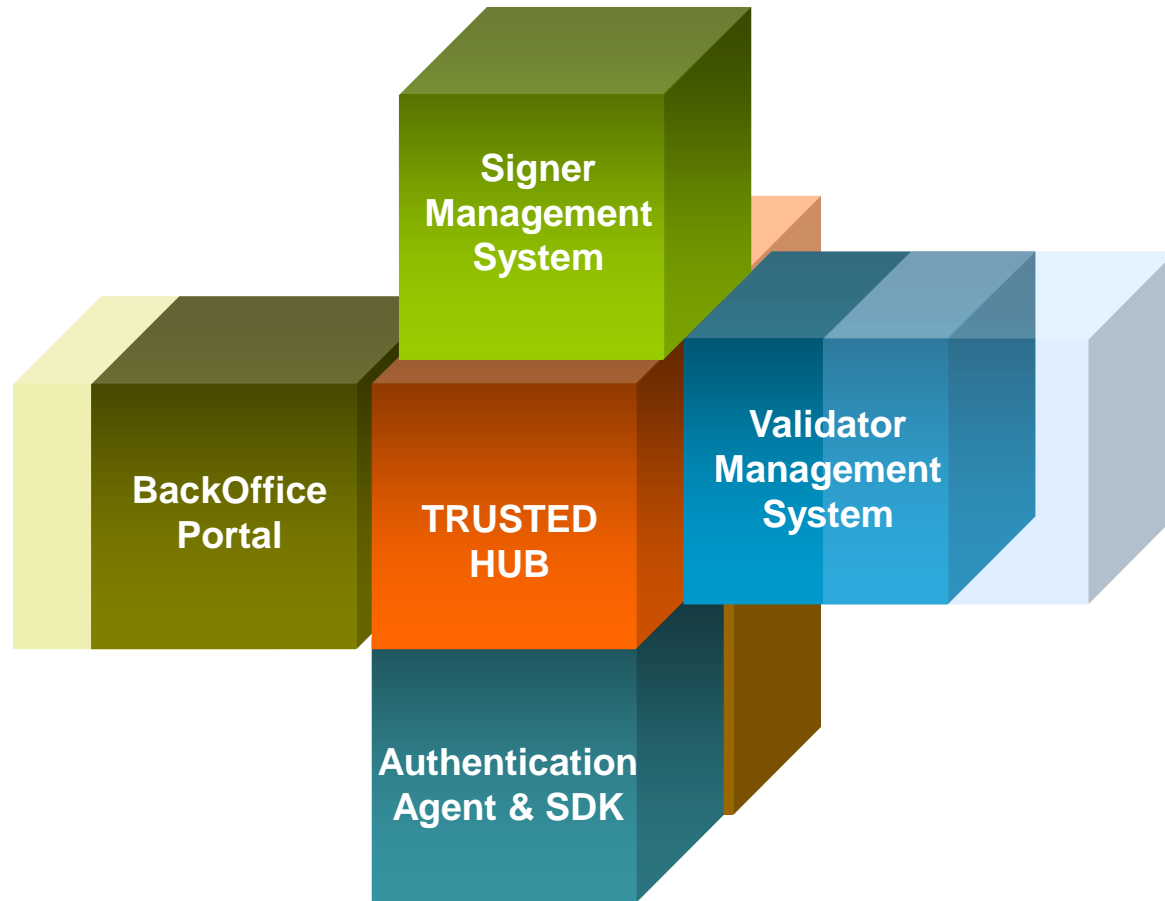
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BIO FIDO has a convenient design with a comfy cobblestone in your palm.

A cobblestone – like design with metal rim. The USB cable and port are hidden properly in the rounded casing. No sharp corner hurts your hand.

Functional Structure

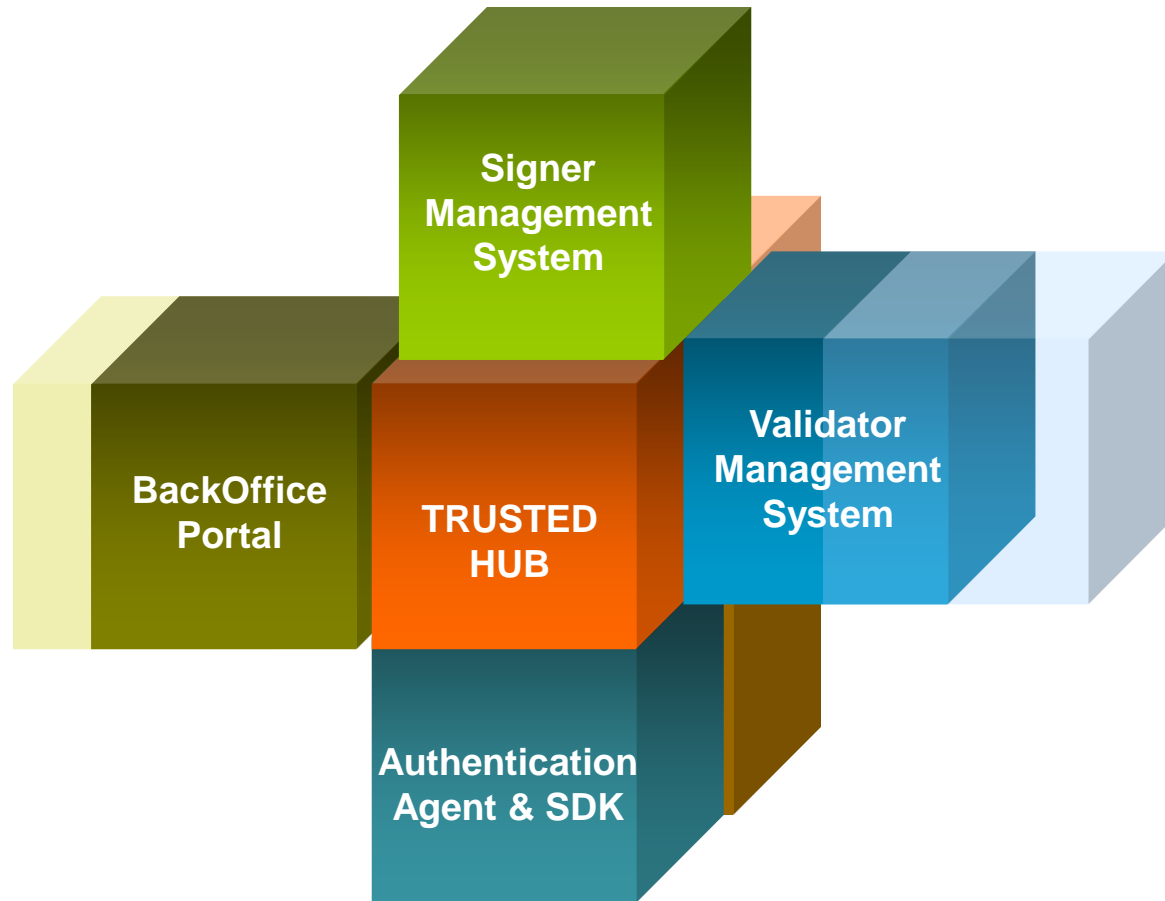


Authentication Agent & SDK



Sample client is available in Java & C#

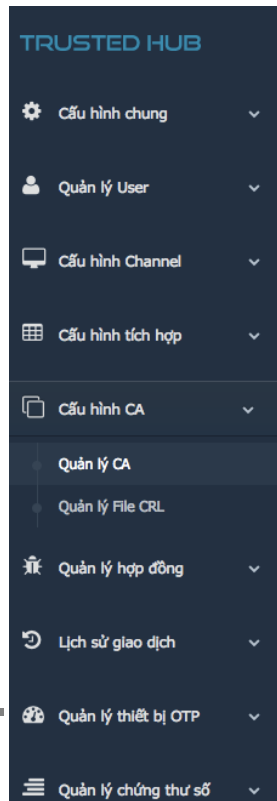
Functional Structure



BackOffice Portal

It also provides token operations such as initializing, blocking, unblocking.

..



| Quản lý CA | | | |
|--------------|------------------------------|--|---|
| Danh sách CA | | | |
| STT | Mã CA | CRL Uri | OCSP |
| 1 | ab | djskd | 120384rtf |
| 2 | ADFDSA | gfsd | gfds |
| 3 | ABC | sdkfjsdklfjkl | riweuriowe |
| 4 | TomiCA | http://192.168.2.233:8080/ejbca/publicweb/webdist/certdist?cmd=crl&issuer=CN=TomiCA,O=TOMICALAB,C=VN | http://192.168.2.233:8080/ejbca/publicweb/status/ocsp |
| 5 | NEWTEL-CA | http://crl.newca.vn/NewCA.crl | http://ocsp.newca.vn/responder |
| 6 | SAFE-CA | http://crl.safecert.com.vn | http://ocsp.safecert.com.vn |
| 7 | BkavCA | http://crl.bkavca.vn/BkavCA.crl | http://ocsp.bkavca.vn |
| 8 | SmartSign | http://crl.smartsign.com.vn | http://ocsp.smartsign.com.vn |
| 9 | VNPT Certification Authority | http://crl.vnpt-ca.vn/vnptca.crl | http://ocsp.vnpt-ca.vn/responder |
| 10 | CKCA | http://crl.ckca.vn/crls/ckca.crl | http://ocsp.ckca.vn/status |

EJBCA As Private CA For Banks

Integrated EJBCA into TRUSTED HUB and supported:

✚ OCSP
✚ CRL
✚ LDAP

EJBCA Administration - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blogger: ejbcainstall - Edit post EJBCA Administration

https://rootca.yourcompany.net/ejbcadminweb/

EJBCA
PKI BY PRIMEKEY

Administration

CA Structure & CRLs

Basic Functions for CA : defaultca [View Certificate](#) [View Information](#)

Root CA : CN=defaultca,O=,C=US

[Download binary/to IE](#) [Download to Firefox](#) [Download PEM file](#) [Download JKS file](#)

Latest CRL: Created 2014-05-09 09:33:22-08:00, Expires 2014-05-10 09:33:22-08:00, number 8 [Get CRL](#)

Delta CRLs are not enabled.

Create a new updated CRL :

Basic Functions for CA : mgmtca [View Certificate](#) [View Information](#)

Root CA : CN=mgmtca,O=,C=US

[Download binary/to IE](#) [Download to Firefox](#) [Download PEM file](#) [Download JKS file](#)

Latest CRL: Created 2014-05-09 09:33:21-08:00, Expires 2014-05-10 09:33:21-08:00, number 15 [Get CRL](#)

Delta CRLs are not enabled.

Create a new updated CRL :

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- [Crypto Tokens](#)
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Public Web

120%

TRUSTED HUB

CUSTOMERS



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