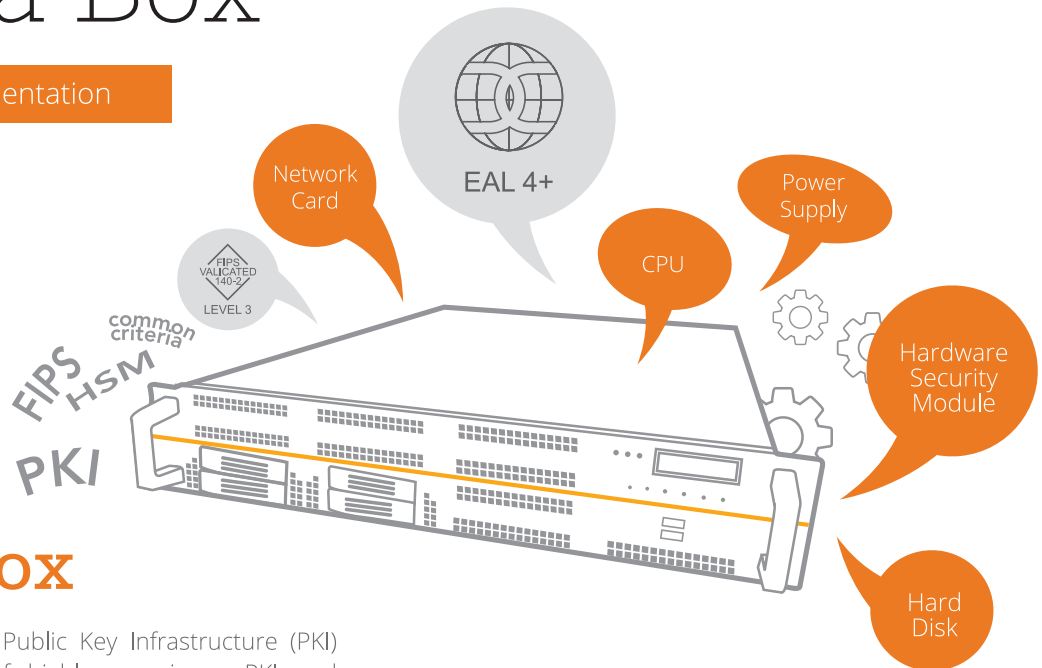


SecureMetric Technology

PKI in a Box

Simplify the PKI Implementation



PKI in a Box

PKI in a Box is an innovative Public Key Infrastructure (PKI) appliance built by a team of highly experience PKI and Cryptography experts with the objective to simplify PKI implementation with complete feature set needed to operate a full-blown PKI out of the box. It includes a complete Certificate and Hardware Token Lifecycle Management System, can support unlimited number of Certificate Authorities (CAs) and/or subordinate CAs; Registration Authority (RA) either via centralized or distributed RA model; and a Validation Authority (VA) that supports both Certificate Revocation List (CRL) and Online Certificate Status Protocol; SignServer to support XML and PDF signing with common Time-stamping functionalities with integrated Hardware Security Module (HSM) onboard.

New Way to Deploy PKI

If you never thought of utilizing PKI due to expensive investment, now you can start with a new thought via our PKI in a Box offer.

- Maximizing your ICT security via PKI security mechanism.
- Cost saving in the long run by setting up your own internal CA.
- Fully in control for the internal CA hosted in your own premises.
- Outsource implementation and support work to qualified PKI experts.
- Common Criteria EAL 4+ Certified core with hundreds of mission critical implementation worldwide.

Case Study

"We were looking for a long term solution to save cost without jeopardizing the security of our network where SecureMetric came to propose PKI in a Box and we thought that the solution fulfills our requirements. We are happy to discover that PKI Appliance also supports future PKI related projects that we have in store for Ambank."

Ismail Bin Hussin,

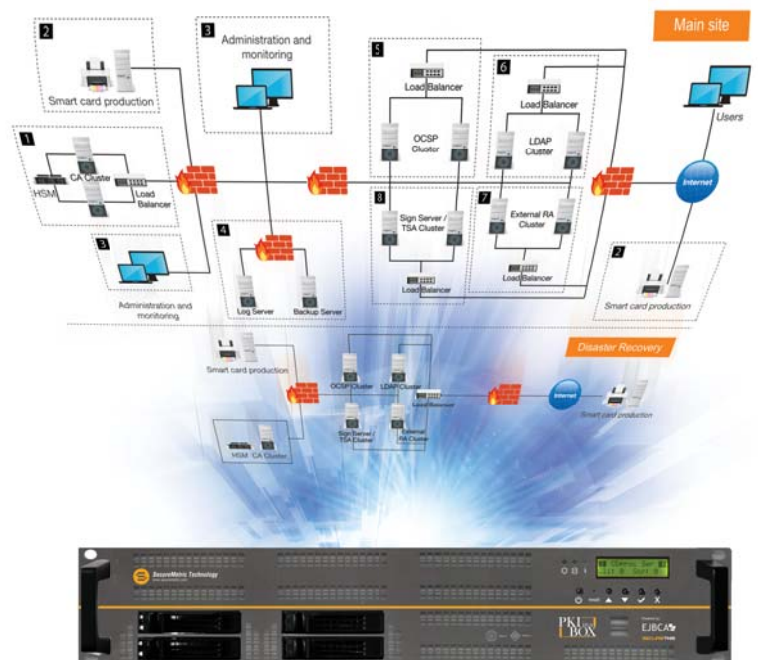
Head, IT Security Operations and
Disaster Recovery Ambank Financial Group

Why PKI in a Box

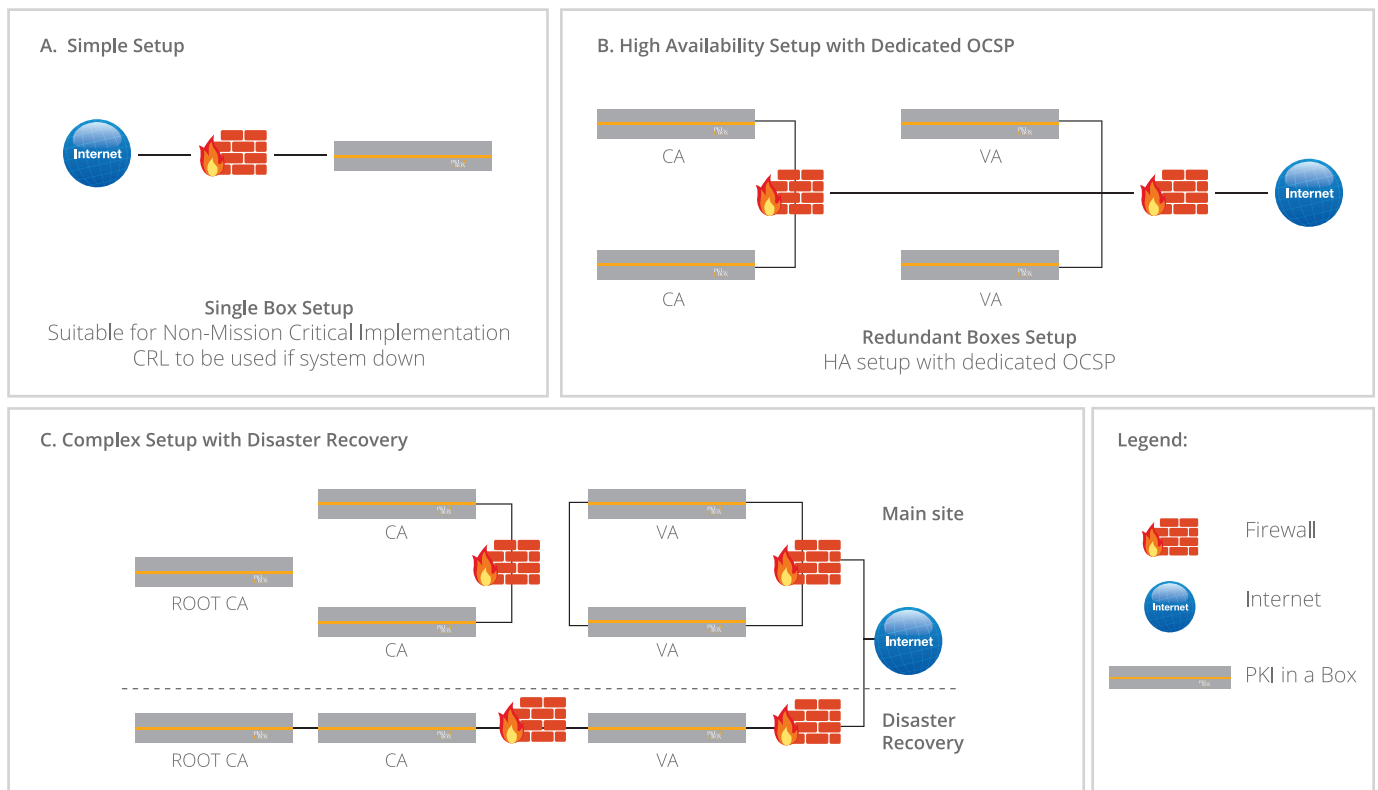
In the past, traditional way to implement a full-blown enterprise class PKI system require extensive PKI expert resources with an average of 3 to 9 months overall project lifecycle depend on the complexity of the project. The complexity of the overall projects not only relate to the PKI software but also all the interrelated components such as operating system, databases, network configuration, administration, security control mechanisms, and more.

The diagram shows elaborate a typical full-blown PKI implementation, the actual no. of server server can be multiplied accordingly to the expected system performance capacity and workload.

Now with PKI in a Box, it will be able to simplify the PKI implementation by reducing the overall project lifecycle from months to weeks, and eventually lower down tremendously on the total ownership cost. The appliance with complete feature set which will also eliminate the hassle for separate hardware acquisition (Server, HSM, etc.) and 3rd party software component installation (Operating Systems, Databases, etc.). As now everything are in a box by one single vendor, it will offer the end customer a single point of contact for all support calls.



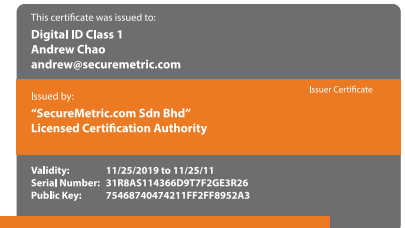
Typical Full Blown PKI Solution



Elaborate few possible PKI in a Box implementation scenario

SIMPLIFY.

The PKI Implementation



Let You Manage Your Own PKI

- ✓ Control over who gets certificates
- ✓ Control over end user interactions
- ✓ Control over certificate content and policy
- ✓ Control over your PKI

Benefits



Faster and Easier Deployment



Much Lower Total Ownership Cost



Scale Up or Scale Down Options



Simplified Support & Maintenance and Efforts



Single Point of Supply for Both Hardware and Software



CC EAL 4+ Certified CA Core & FIPS 140-2 Level 3 Validated HSM

SecureMetric's Role

01

The only PrimeKey's certified trainer and exclusive partner for Asia

02

Joint development experience with PrimeKey's R&D

03

Lower project costs by leveraging on SecureMetric cost advantage

04

Dedicated local technical support

05

Compliment PrimeKey's offer with Token Management System, Distributed RA System, HSM, PKI devices and digital signature solutions.

Full Blown PKI Implementation

VS.

PKI in a BOX

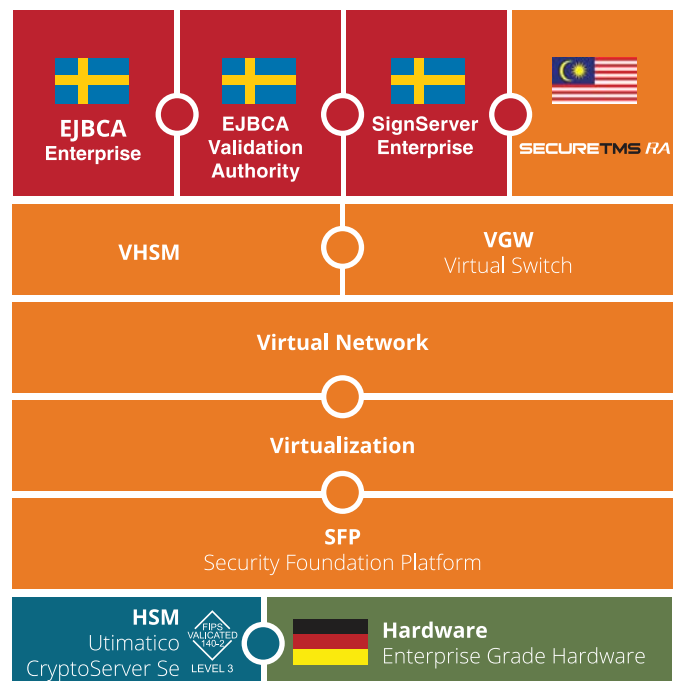
5 to 20	Total No. of Server	1 box up
Average 3 months up to 9 months	Project Timeline	Average 4 to 7 weeks
Yes	Installation and Configuration of Operating System, Database	Hardened
2 weeks to 6 weeks	Testing and QA effort	1 week
Yes	Acquisition of HSM	Included
Months	Learning Time	Weeks
Complex, deal with multiple vendors	System Maintenance & Support	Simplified, single vendor

What is inside PKI in a Box

PKI in a Box comes with an modularized and flexible software stack. Based on Security Foundation Platform (SFP), all application components are operated as virtual machines bringing the maximum flexibility to the system, simplifying procedures like updates or backups, and making your PrimeKey Appliances re-usable.

Centrally controlled by an Virtual Gateway (VGW), separation of virtual networks maximizes the security by tight control of the data flow between the involved software components. Whether Windows or Linux based applications, with the flexible and efficient virtualization layer, all Third-Party systems can be easily integrated and managed.

An HSM abstraction layer (VHSM) hides the complexity of the underlying technology simplifying the integration of software components that require access to the secure hardware.



What is inside PKI in a Box

Item	Specifications
Dimensions	Height: 88.4mm (2 HU) Width: 430mm (19") Depth: 633mm Weight: 12.5kg (27,5 lb)
Interfaces	4 x USB 2.0 (2 on the front panel, 2 on the rear side) 2 x 1 GBit Ethernet (RJ45) 1 x VGA (DB15) 2 x PS2 Mouse & Keyboard Serial Port (DB9)
Power Supply	Redundant 2 x 500W, Typical Efficiency > 80% 110/240V, 50/60Hz
Power Consumption	Typical 80W Maximum 135W
Environmental Temperature	Operation +10°C to +50°C (+50°F to 122°F) Storage -10°C to +55°C (+14°F to 131°F)
Conformity	CE, RoHS, FCC
Shipping Dimensions	Height: 247mm (9.73") Width: 582mm (22.91") Depth: 766mm (30.16") Shipping Weight: 17 kg (37.5lb)
Supplied Accessories	Rack Mounting Rails, US and EU Power Cords, Smart Card Reader, 10 Smart Cards
OCSP Response	80 per second
Certifications	FIPS 140-2 Level 3 (HSM), Common Criterial EAL 4+ CA Core
Additional Features	Integrated Token + Certificate lifecycle management. Capable of distributed RA architecture
Network	Dual Ethernet Interface



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