Technical Paper 4
Security – Principle

Version 01

20th October, 2018

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Security design based on the Common Criteria

- International Organization for Standardization has explained the way how to deal with the security in Information Technologies under ISO/IEC15408, called Common Criteria
- EXC Platform is designed based on ISO/IEC15408
- Our basic philosophy - to have the strongest security while expanding with existing operators - is as follows;
  1. The security design for connectivity with other platforms would become public, and
  2. The new core security feature which has various intellectual properties embedded would only be communicated with one or more of the 17 certificate authorized expert organisations.
- EXC Platform is designed to have the highest level of security by combining (1) Encryption algorithm and (2) Encryption key、and (3) Hardware security module(HSM) which aims to obtain EAL6+ under Common Criteria. Once this is complete, EXC Platform should be able to operate with purchasers of tokens able to enjoy the system with the highest level of security.

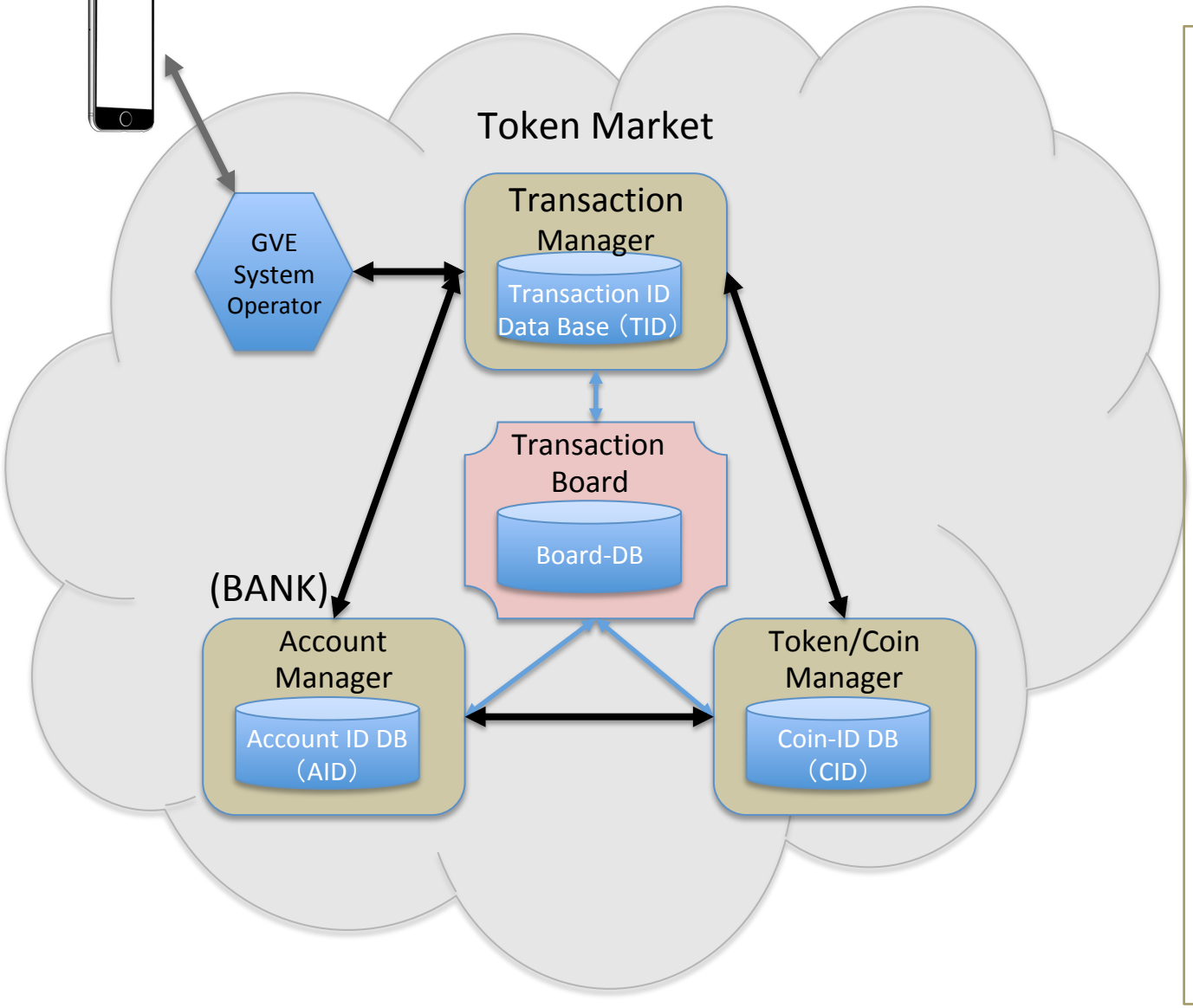
Details of ISO/IEC15408 can be found in the link below

- http://standards.iso.org/ittf/PubliclyAvailableStandards/index.html

Standard	Edition	Title	Committee
ISO/IEC 15408-1:2009	3rd	nformation technology -- Security techniques -- Evaluation criteria for IT security -- Part 1: Introduction and general model	JTC1/SC27
ISO/IEC 15408-2:2008	3rd	Information technology -- Security techniques -- Evaluation criteria for IT security -- Part 2: Security functional components	JTC1/SC27
ISO/IEC 15408-3:2008	3rd	Information technology -- Security techniques -- Evaluation criteria for IT security -- Part 3: Security assurance components	JTC1/SC27

Smartphone or PC
as client interface of system

EXC Cashless Eco-System



1. Transaction Manager keeps a record of all transactions chronologically.
2. Account Manager and Coin Manager record the same transactions in their respective databases in a different way.
3. Three databases keep the same data in a different way. In this way, each database is able to check the two other databases.
4. There will be a digital signature to confirm the authenticity of transaction
5. The current balance of Account ID DB would be checked by historical transactions
6. These enable the traceability of transactions by the system
7. Transactions not in sync with the terms of conditions, e.g., illegal transactions, could be reversed
8. When HSM is developed, all transactions take place with digital signature incorporating authenticity function
9. We aim to have each transaction settled within 0.2 second when the system development is complete
10. By coordinating with governmental authorities, it would be possible to spot suspected money laundering or other illegal activities