

Introduction of new ID number in Japan

- Basic security policy of the link system -

Imaging Science and Engineering Laboratory

Tokyo Institute of Technology

Prof. Nagaaki OHYAMA

Social background in Japan

- Japan is rapidly facing so called aging society
 - Expense is increasing in social security area such as welfare, medical insurance and aging insurance
- Needs to balance revenue and expenditure at national level
 - Expenditure in social security is more than 40B US\$/year and still increasing
 - Revenue may be increased, if more effective scheme to collect tax is introduced
- Japanese government once tried to introduce personal ID number in taxation area, but failed in 1983

New personal ID number

- In order to balance revenue and social security expenditure, new ID number exclusively used in taxation and social security areas was proposed to introduce in 2012
- The new regulation (My number act) was approved by the parliament on 24th of May, 2013
- Based on this act, every resident in Japan will receive his/her personal ID number on 1st of Oct., 2015 by mail
- It is prohibited to use the new ID number in health, medical and aging care fields, where information directly referring to body condition (most sensitive privacy data) is dealt with
- New ID card (smart card) will be issued from 1st of Jan., 2016

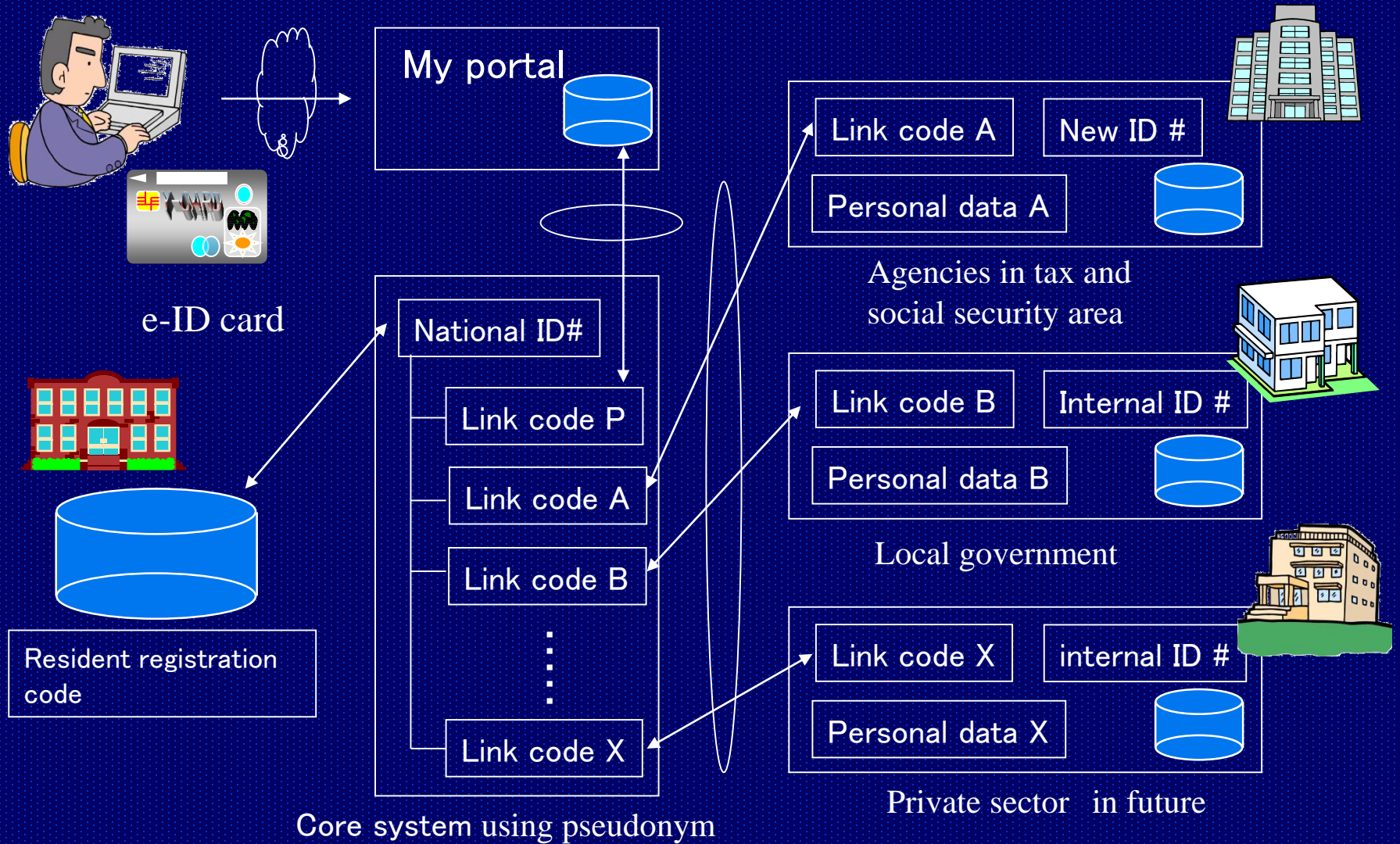
Enforcement of privacy protection

- Because “the new ID number” will be widely used in Japan, additional risks to invade the privacy are defined, and the following actions will be taken as counter measures
 - ① Privacy data together with ID number or link code is defined as specific privacy data (SPD) in the new act
 - ② Every SPD is protected by the regulation more strongly than the other privacy data that does not include ID number, because of much respect for social acceptance

Enforcement of privacy protection

- ③ Use of new ID number is strictly regulated : it can be used only in Taxation and Social security areas
- ④ Personal data could be received from other organization in only cases explicitly stated in the new regulation → 116 administrative works are listed up in the regulation
- ⑤ Third party committee will be officially established for stronger reinforcement of privacy protection, especially specific privacy data (SPD)

Schematic diagram of link system : personal basis



Link system

- Because of much respect to the social acceptance, link system is designed so as to meet the following system requirements;
 - Use of link codes; go-between system → No additional matching key after providing specific private data from one to the other
 - My portal for visualization of every access log of the privacy data
 - All administrative processes referred by the regulation will be listed in white → keep the transparency about every personal data exchange among organizations networked to the link system
 - New e-ID card will be issued for a secure access to the my portal and to avoid falsification of printed information such as my number, facial photo, etc.

Core system

- Three major functions supported by the core system
 1. Conversion of the link codes; bi-directional transformation function
 2. Access control through the link system
 - Compliance with the new regulation → evidence of the permission to receive personal data from other organizations and agencies
 - 116 administrative work flows; white list
 3. Storage of access log
 - People could check all accesses to their own personal data through my portal with the new e-ID card
 - Access log includes why, when, which information, which organizations to and from
- It only deals with unrecognizable personal number → Prevention of internal crime and damages caused by leakage of privacy data

New e-ID card

- New e-ID card (my number card) will be issued from 1st of Jan., 2016
- Together with my number act, resident registration and JPKI acts have been revised and authorized
- JPKI act will come into reality on 1st of Jan., 2016
- New e-ID card will support both digital signature (non-repudiation) and personal authentication services
- New e-ID card will have facial photo
- My number is printed on the backside of e-ID card with copy protection

Summary

- New ID number for taxation and social security areas will be introduced from 1st of Oct.,2015
- The link system is so designed that it has a very high security function
- Link code and unidentifiable personal number realize an effective measure against internal crime, hardly done by the conventional access control scheme; ID/PW, Smart card, PKI
- My number card will be issued from 1st of Jan., 2016
- Applications of my number card in both public and private sectors are based on card holder's consent