

Designing ST of Passport Application Examination System

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NTT Communications Corporation

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What is “ST Confirmation”?

Security check at a level of design principles

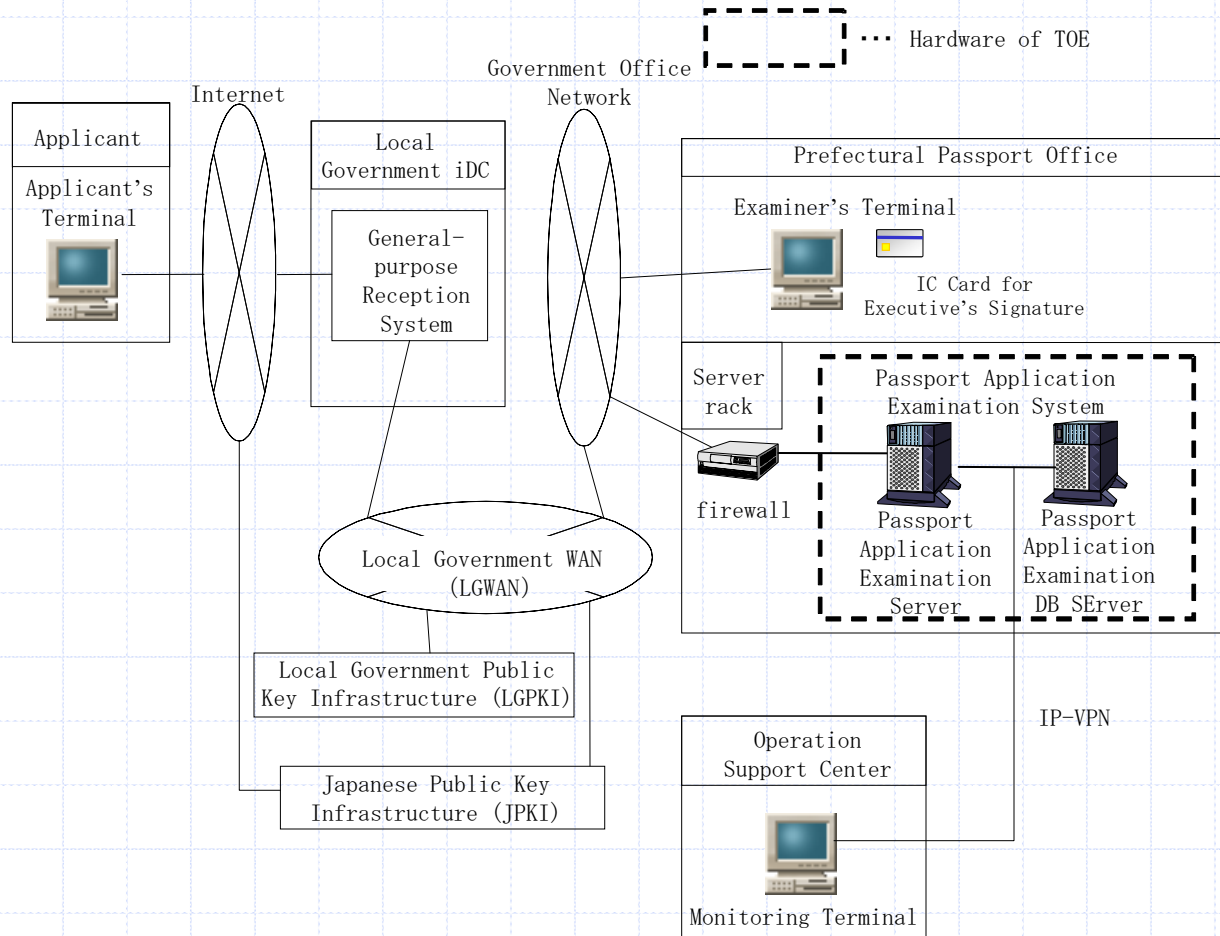
- Threats to be considered
- How to counter threats
- Basic policy of security design, etc.

The procedures to ensure that evaluation target has been developed and produced rightly according to the ST, such as real system implementation test or operation test, are not contained in the ST Confirmation.

Outline of Passport Application Examination System

- Adopted by local government passport office
- Provides the function to examine passport electronic application
(such as examining application, concluding the examination, issuing the document)
- Utilized, connected to prefectures' IT infrastructure

Outline of Passport Application Examination System



Staff operates examination service from examiner's terminal.

TOE communicates with other systems on the network, such as general reception system, organization certification platform.

Background (Purpose) of ST Confirmation Approach

Passport application examination system has been based on the premise that it would be used, being connected to the existing infrastructure, such as prefecture network or general government network.

From the viewpoint of prefecture, the passport application examination system is an “external system” arranged by the third party (the ministry of foreign affairs), so that the security of the system should be ensured explicitly.

Background

(Purpose) of ST Confirmation Approach

Ministry of Foreign Affairs explained to prefectures about the policy that Passport Application Examination System should be evaluated and confirmed according to ISO/IEC 15408, at a guidance meeting of online application, to provide a clear understanding for the system introduction.

The plan that ISO/IEC 15408 would be brought into the developing process of developing passport application examination system and that the security target would be evaluated and confirmed has been fixed, and the ST publication has been arranged in order to ensure the system security.

Effect of ST Confirmation

It has already been introduced and started in Okayama, Miyagi, Tochigi, Ibaragi, Saitama, Nagasaki, and Kumamoto Prefecture, and would be expanded into other prefectures.(Network connection or data cooperative processing with such as prefectures general reception system are going on smoothly)

Learning from experience, Ministry of Foreign Affairs is making an effort to activate ISO 15408 positively to introduce IC passport (March, 2006(est.)), for example, by including certification of IC chip on the passport in the requirements.

Designing ST

- ST designers of disinterested position
 - 2 staff (not full-time in charge)
 - designing time : about 3.5 months
- Developers of Passport application examination system
 - keeping always busy with system initialization
 - collaborated with ST designers in such as providing information

Designing ST

Field of development and ST designers

- To communicate with developers
Need to collect information, while adding no extra strain on developers.
- Providing CC interpretation to the field
Presenting the developers the function that CC expects from the ST designers in the way that the developers can understand easily (e.g. embodying access control or flow control) to recognize the gap with the specification discussed on the developers' side.

Significance of this ST Confirmation Arrangement

The first case for government system

➤ This is the first case as ST of the system for government network, and expected to become widespread as a model.

➤ In the movement of acceleration of IT system certification from the viewpoint of personal information security, promotion of adopting to other government system, local government system, and in addition, non-government systems, is expected.

Significance of this ST Confirmation Arrangement

Effort to save time

- Less than 3 months for evaluation phase, less than 2 months for certification phase
- Skilled TOE description(helping TOE comprehension), active communication with evaluation body and certification body, etc.

Applicants (ST designers) seem to expect shorter term.

Significance of this ST Confirmation Arrangement

Great effect on adequacy verification of
security implementation function

- Feedback on the developing field
CC-specific security viewpoint, which is hard to be reflected on designing information in usual developing process, could be reflected on the implementation function.
- Achieved essential adequacy verification of security implementation function
Although assurance set is not evaluated, it has enough effect on implementation verification of security functions (effect verification, error correction, or complement of function shortage).

What we expect from Evaluation and Certification Scheme

effort to save more time

- Especially, to save the time to provide the first certification action
- Applicants' themselves need to make an effort (e.g. making request to certification body actively)
- To shorten the term, what kind of action does the evaluation/certification body expect from the applicants?

If the timescale from starting evaluation to issuing confirmation is saved as short as about 3 months, it can be much more fascinating business.

About us

Information Security Evaluation Center (FISEC),
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<http://jp.fujitsu.com/fjh/>

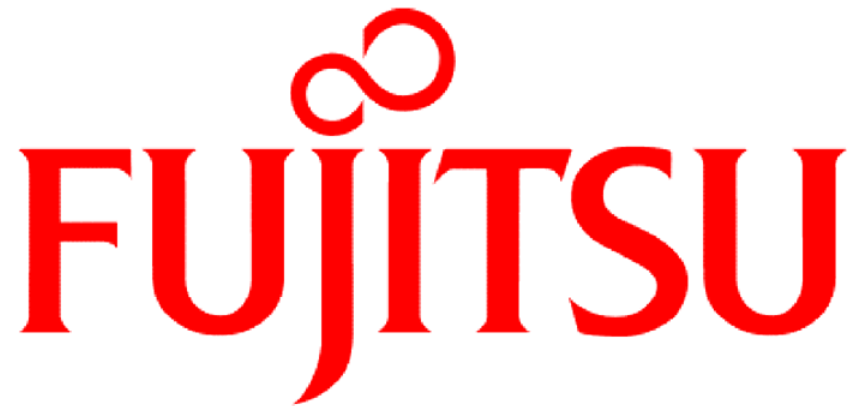
Experienced consulting staff provides various security services (e.g. supported the first certification of Japanese domestic product)

- Security Target Evaluation Body
- Consultation to support ISO/IEC 15408 certification
- ISO/IEC 15408 Education Services
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