



INFORMATION-TECHNOLOGY PROMOTION AGENCY, JAPAN



Japan Information Technology Security Evaluation and Certification Scheme

# Introduction of Japanese Scheme

September 28, 2005

6<sup>th</sup> International Common Criteria Conference 2005

**SUZUKI Hideji**

**Information Security Certification Office**

**IT Security Center (ISEC)**

**Information-technology Promotion Agency, Japan (IPA)**

# Overview of IT Security Center (IPA/ISEC)

## IPA/ISEC (Information-technology SEcurity Center)

Mission: IT Security Enhancement in Japan

Establishment: January, 1997 6 Groups

- **Virus & Unauthorized Access Countermeasures Group**  
Countermeasures Against Computer Viruses and Unauthorized Computer Access
- **Information Security Engineering Laboratory**  
Vulnerability Information Handling and Vulnerability Analysis
- **Information Security Certification Office**  
IT Security Evaluation and Certification (Certification Body in Japan)
- **Cryptography Research Group**  
Cryptography Research and Evaluation Activity (CRYPTREC Project)
- **Planning and Research Group**  
Study, Research, Analysis and Development for Information Security
- **Global Alliance Group**  
Promote information security awareness  
Promote relationship with domestic and international security organizations

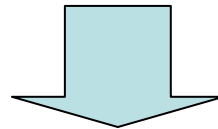
## The agreement made within government

The ministries agreed to make use of the CC scheme for **government procurement** in March, 2001.

In this agreement, it is **recommended** to use this scheme according to the level of importance in the system which each ministry will procure.

### **Agreement**

- The ministries should procure IT products and systems which were evaluated and certified under this scheme.
- The ministries should let vendors have ST of IT products and systems that they will procure evaluated under this scheme.



- JISEC was established in April, 2001.
- Japan became a member of CCRA in October 2003.

# IT Security Evaluation and Certification Scheme (JISEC) **IPA**

(As of August, 2005)

**Certification body**  
**IPA**  
 Information-technology Promotion Agency, Japan

**Accreditation body**  
 National Institute of Technology and Evaluation (NITE)  
**Accreditation**

**Evaluation Facilities**  
 JEITA, ECSEC, MHIR<sup>\*1</sup>

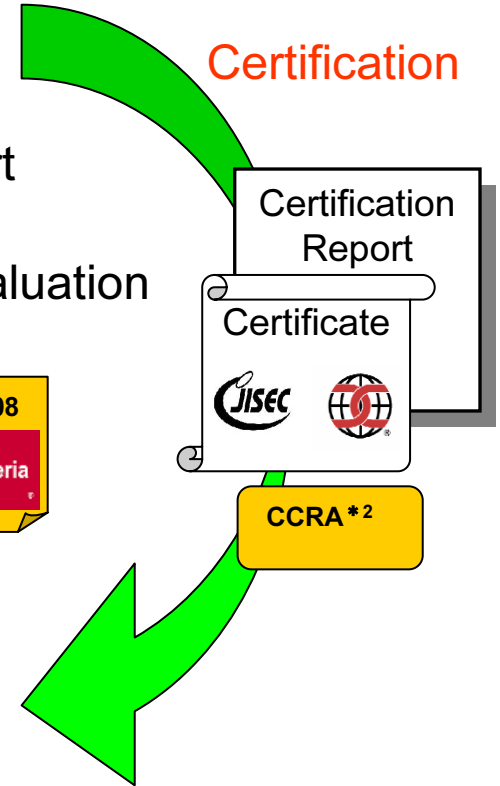
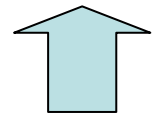
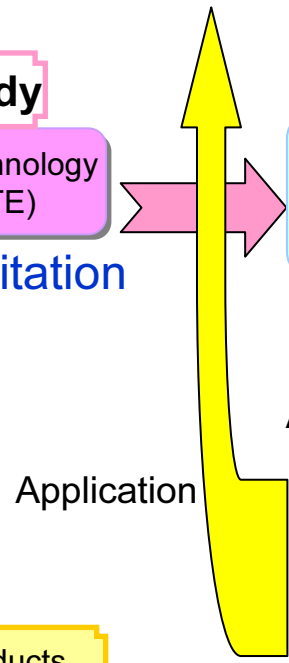
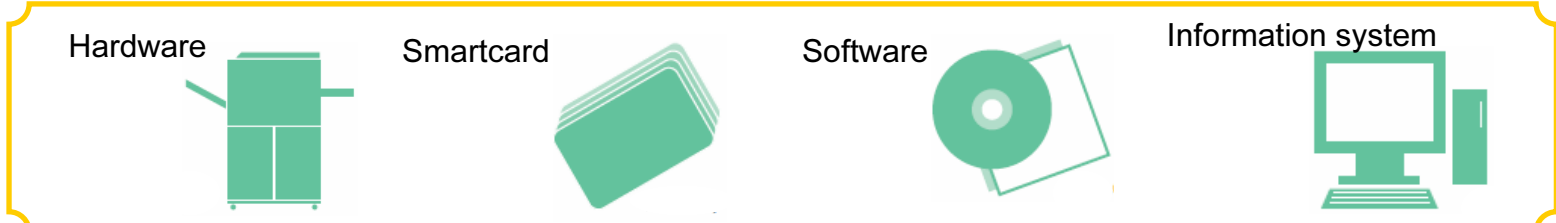
ISO/IEC 15408  
**Common Criteria**

**Certification**  
 Certification Report  
 Certificate  


CCRA<sup>\*2</sup>

**Sponsors**  
 (Vendors, Slers)

**Target products**

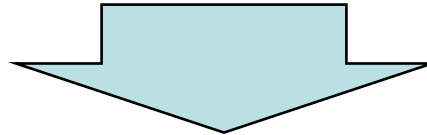


<sup>\*1</sup> Japan Electronics and Information Technology Industries Association (JEITA), Electronic Commerce Security Technology Research Association (ECSEC), Mizuho Information & Research Institute, Inc.(MHIR)

<sup>\*2</sup> Common Criteria Recognition Arrangement

## ST Evaluation/Confirmation scheme

- It takes long time and much cost to evaluate products even for EAL2 or 3 and more for systems.
- Even evaluating of ST enables us to verify a lot of security issues in products and systems.

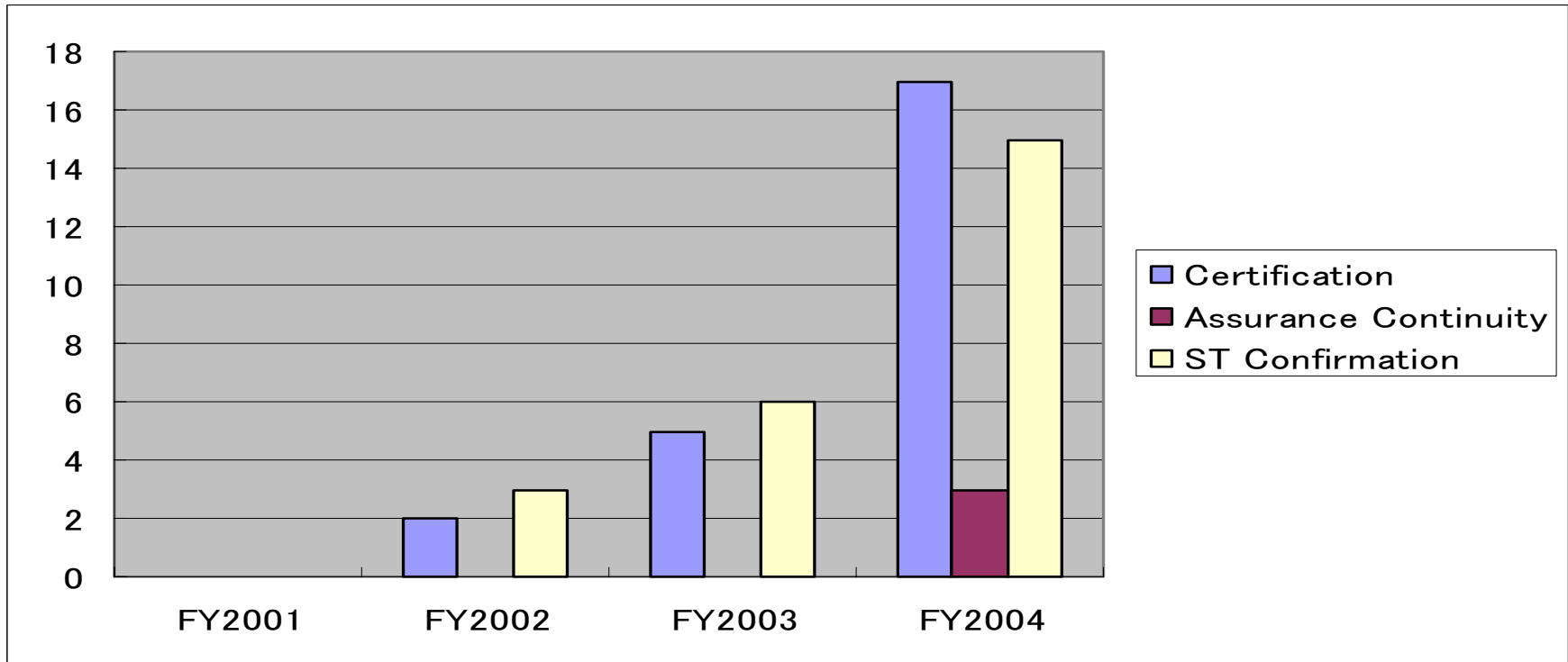


Japan establishes a original scheme.

### ST Evaluation /Confirmation scheme

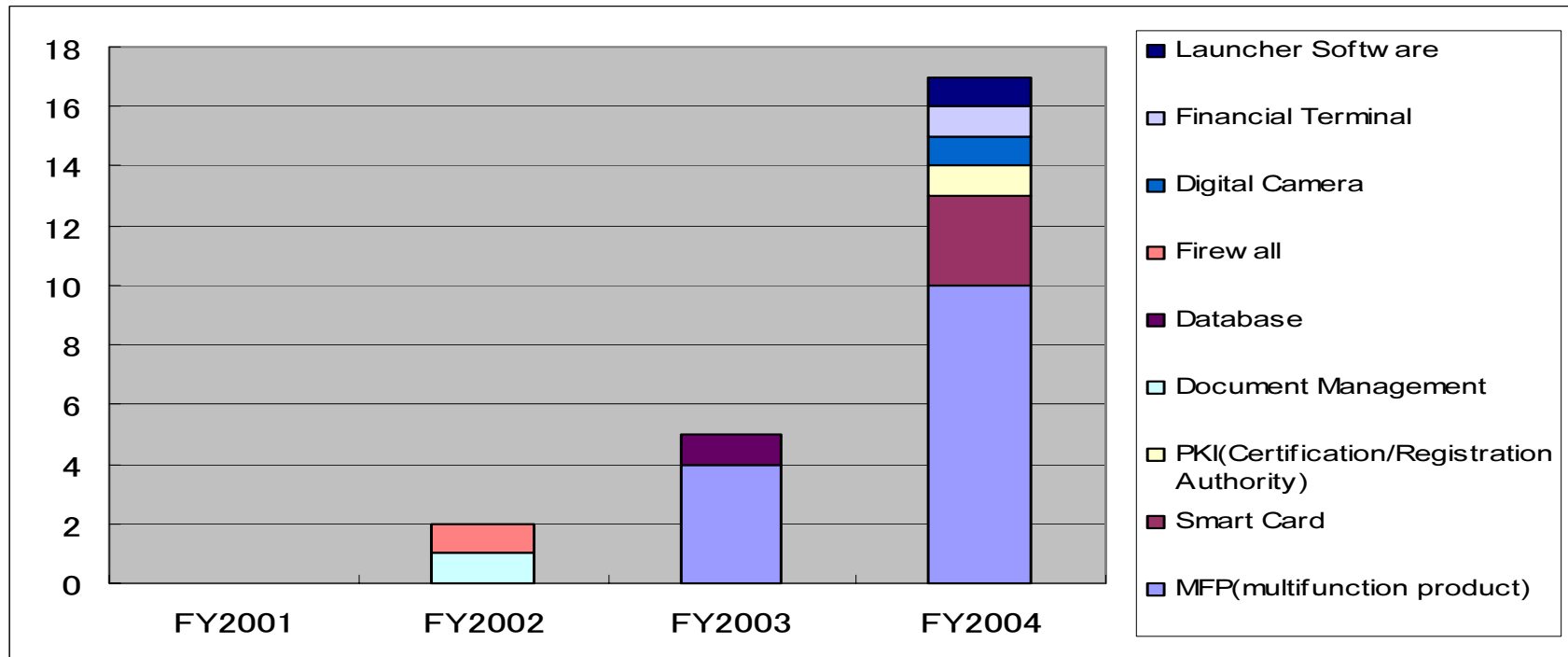
- This scheme is effective, especially in case of systems and low priced products.
- 1st step to the successful evaluation and certification (past records : 4 STs)

# Status of Certification and ST Confirmation



Category	FY2001	FY2002	FY2003	FY2004	Total
Certification	0	2	5	17	24
Assurance Continuity				3	3
ST Confirmation	0	3	6	15	24
<b>Total</b>	<b>0</b>	<b>5</b>	<b>11</b>	<b>35</b>	<b>51</b>

# Number of Certificates per TOE type

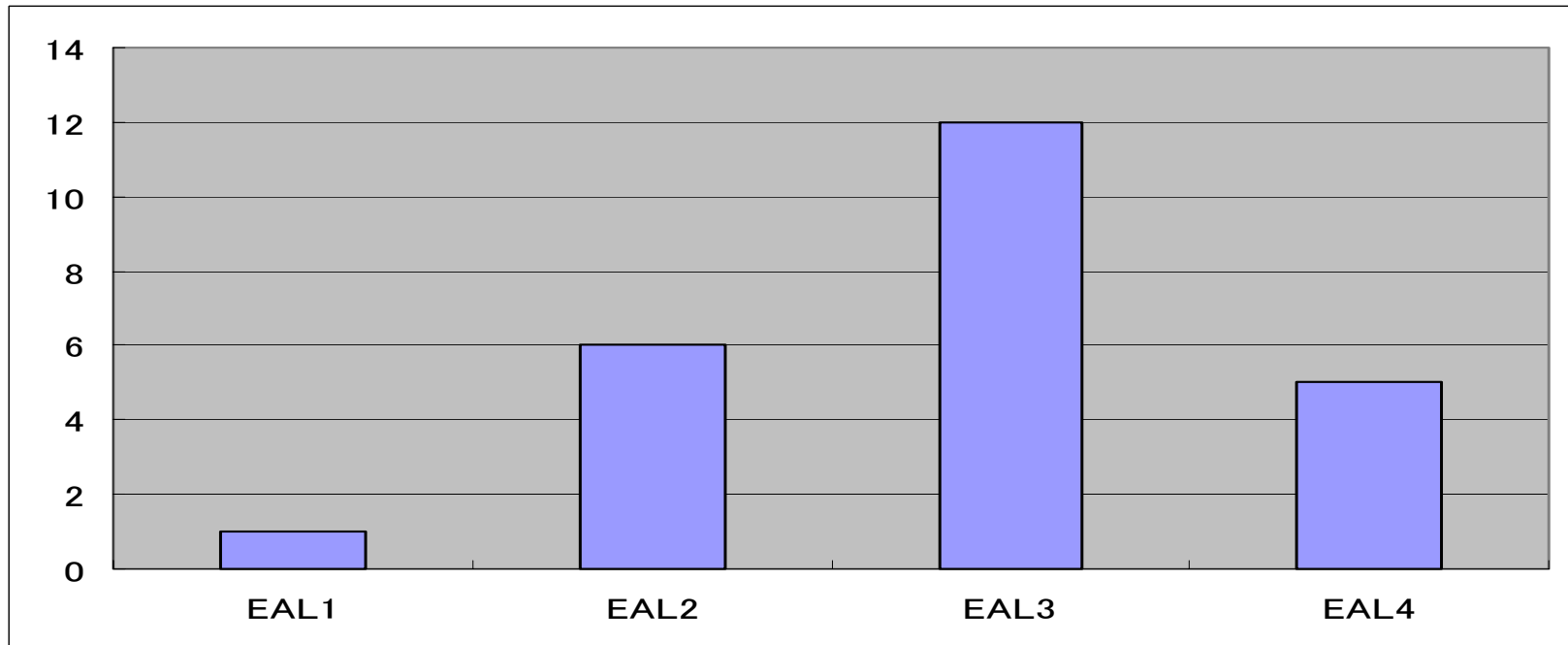


TOE type	FY2001	FY2002	FY2003	FY2004	Total
MFP(multifunction product)	0	0	4	10	14
Smart Card	0	0	0	3	3
PKI(Certification/Registration Authority)	0	0	0	1	1
Document Management	0	1	0	0	1
Database	0	0	1	0	1
Firewall	0	1	0	0	1
Digital Camera	0	0	0	1	1
Financial Terminal	0	0	0	1	1
Launcher Software	0	0	0	1	1
<b>Total</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>17</b>	<b>24</b>

# Evaluation Assurance Level (EAL) of Certification Products

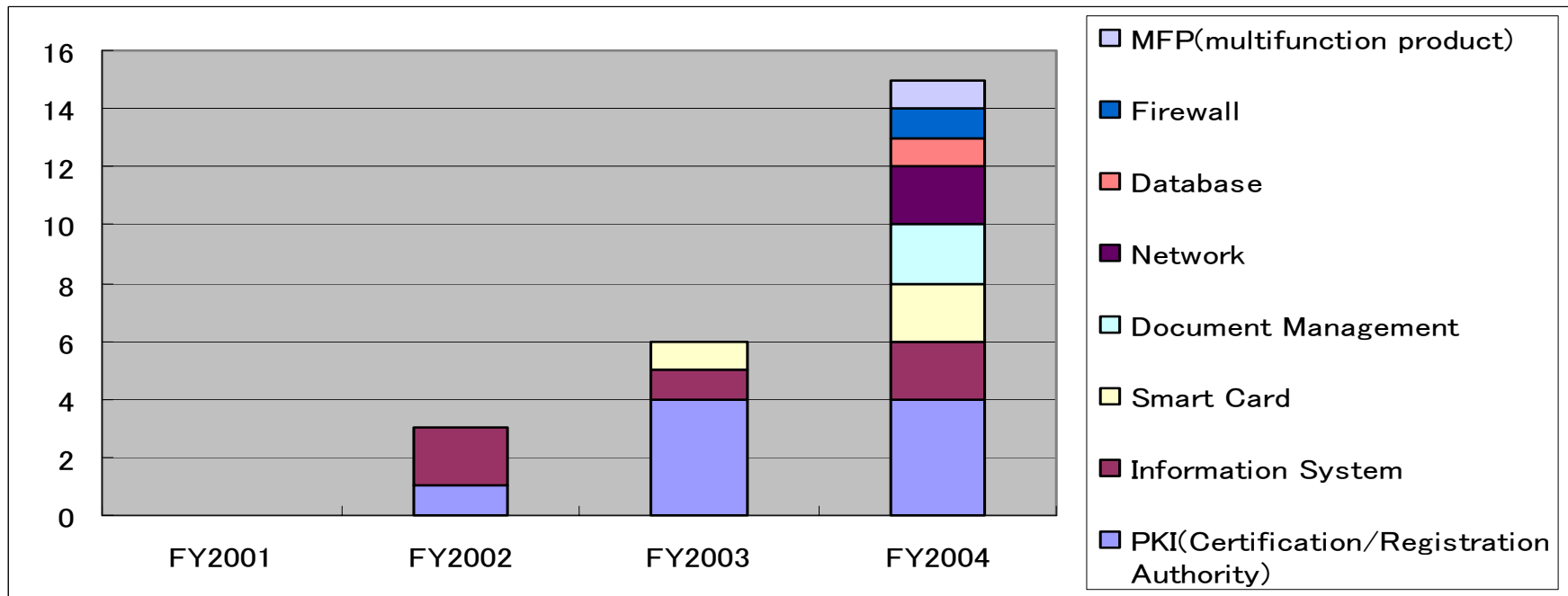
(As of March, 2005)

	Principal evaluation evidences
<b>EAL1</b>	Functional specification, Guidance documents
<b>EAL2</b>	High-level design, Functional tests, Vulnerability analysis
<b>EAL3</b>	Development security
<b>EAL4</b>	Low-level design (a part of source code), Development tools





# Number of ST Confirmations per TOE type



TOE type	FY2001	FY2002	FY2003	FY2004	Total
PKI(Certification/Registration Authority)	0	1	4	4	9
Information System	0	2	1	2	5
Smart Card	0	0	1	2	3
Document Management	0	0	0	2	2
Network	0	0	0	2	2
Database	0	0	0	1	1
Firewall	0	0	0	1	1
MFP(multifunction product)	0	0	0	1	1
<b>Total</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>15</b>	<b>24</b>

# Promotion (1)

## ➤ Education course

The following courses was held a total of 10 times, and attendants totaled 420 In FY2004.

- CC introduction
- Production of ST
- Production of evaluation evidence
- JISEC Scheme

## ➤ Information service

### ◆ Technical document

- Guide for production of ST
- Investigation report of security evaluation in connection with hardware
- Case study in IT security evaluation and certification, and so on

### ◆ Sample ST

- JISEC smartcard ST
- ST for the operational information system (in developing)

## Promotion (2)

### ➤ New Market

Promotion of the CC evaluation to ministries, self-governing bodies, venders, users, etc.

#### ■ Smartcard

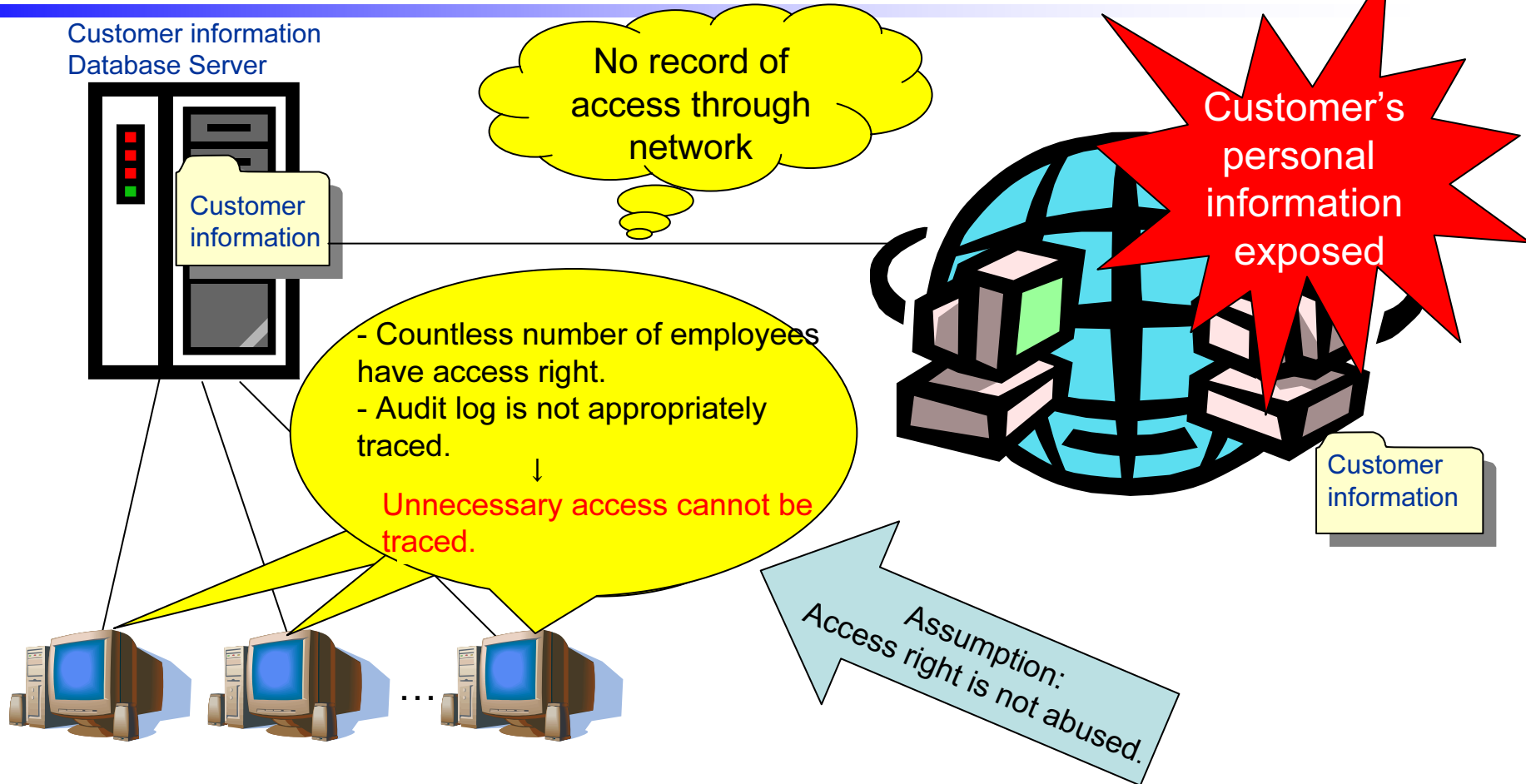
- ID card, ATM card, Credit card, e-passport, Mobile phone, etc.

#### ■ Operational information system

- ✓ **“The Act for Protection of Computer Processed Personal Data”** was enforced in April, 2005.
- Awareness for products users

# Incident example of A company:

## Exposed Customer information (Analysis of the incident)

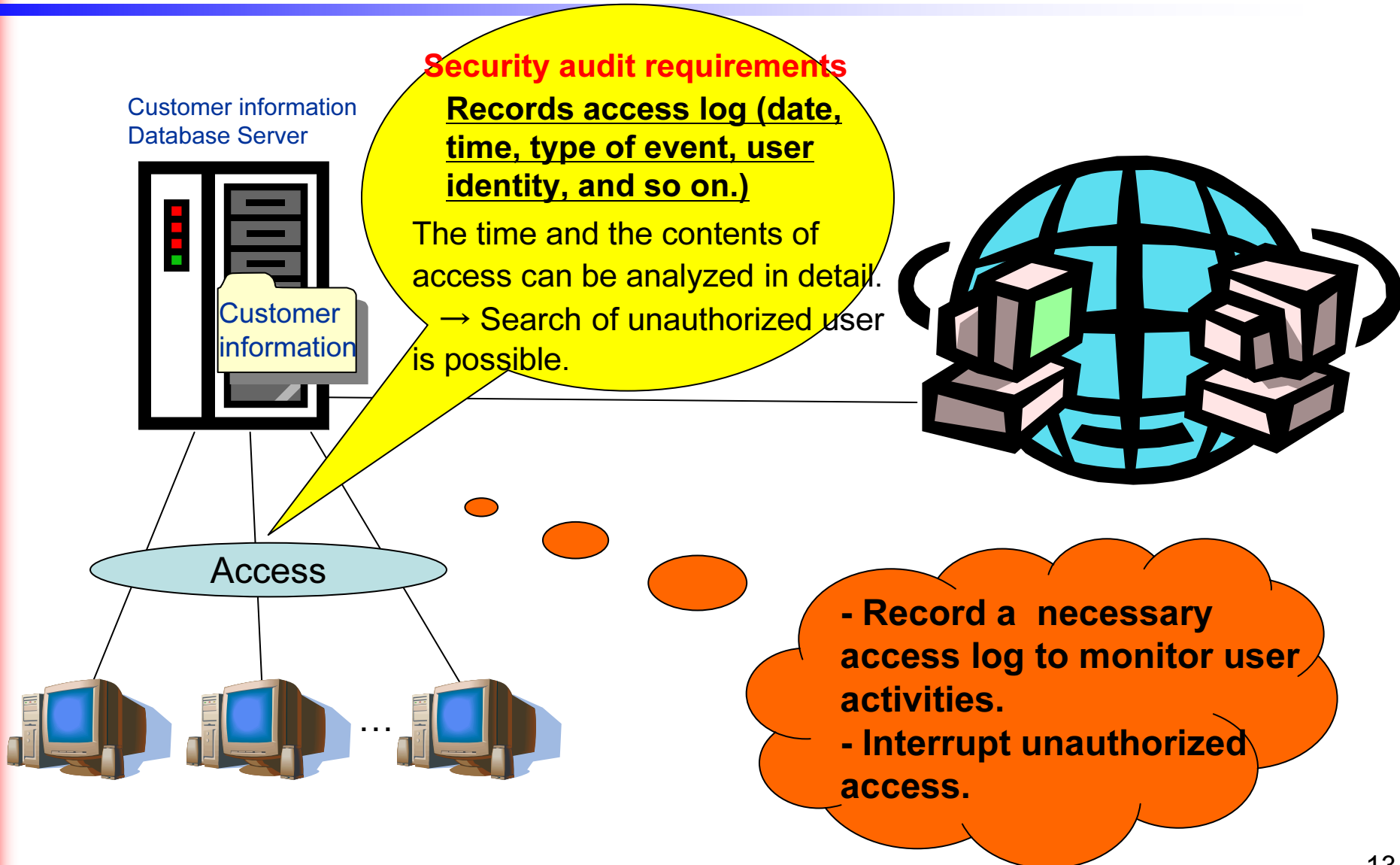


300,000 or more personal information exposed. (The company has noticed this incident by the inquiry from the police.)

Since there is no trace of access from the network, this incident is considered to be a internal crime, but a perpetrator cannot identified.

## If CC security evaluation is conducted!

Evaluated ST of the system can define necessary minimum audit log data.



## Thank you!

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### JISEC Information

URL:

Japanese: <http://www.ipa.go.jp/security/jisec/>

English: [http://www.ipa.go.jp/security/jisec/jisec\\_e/](http://www.ipa.go.jp/security/jisec/jisec_e/)

E-mail: [jisec@ipa.go.jp](mailto:jisec@ipa.go.jp)