



INFORMATION-TECHNOLOGY PROMOTION AGENCY, JAPAN



Japan Information Technology Security Evaluation and Certification Scheme

# *Japanese CC Evaluation & Certification Activity Update*

**September 23, 2009**

**Hidehiro YAJIMA**

**Managing Director, IT Security Center (ISEC)  
Information-technology Promotion Agency (IPA)**

1. Introduction of the Japanese scheme
2. CC Statistics in Japan
3. Recent and planned activities

# Summary of IPA



Information-technology Promotion Agency (IPA) is a government affiliated agency (specially-approved corporation), established on October 1, 1970 by the Japanese statute "Law on Facilitation of Information Processing (Law No.90, May 22, 1970)".

## Four pillars of IPA's operations

**IT Security**

**Software Engineering**

**IT Human Resource  
Development**

**Open Software**

For more information, see <http://www.ipa.go.jp/english/pdf/OrganizationProfile2009.pdf>

# Overview of IT Security Center (IPA/ISEC)



Chair: Mr. Nishigaki

*established 1970. 10 departments & centers.*

IT Security Center

*started 1990. Center established 1997.  
103 researchers and staffs.*

Virus & Unauthorized Access Countermeasures Group

Security Engineering Laboratory (Vulnerability Handling)

**Information Security Certification Office (=JISEC)**

*organized 1998.  
JISEC scheme transferred from NITE 2004.  
10 certifiers.*

Cryptographic Module Validation Programme Office

Cryptography Research Group

Open Software Center

Software Engineering Center

# 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.

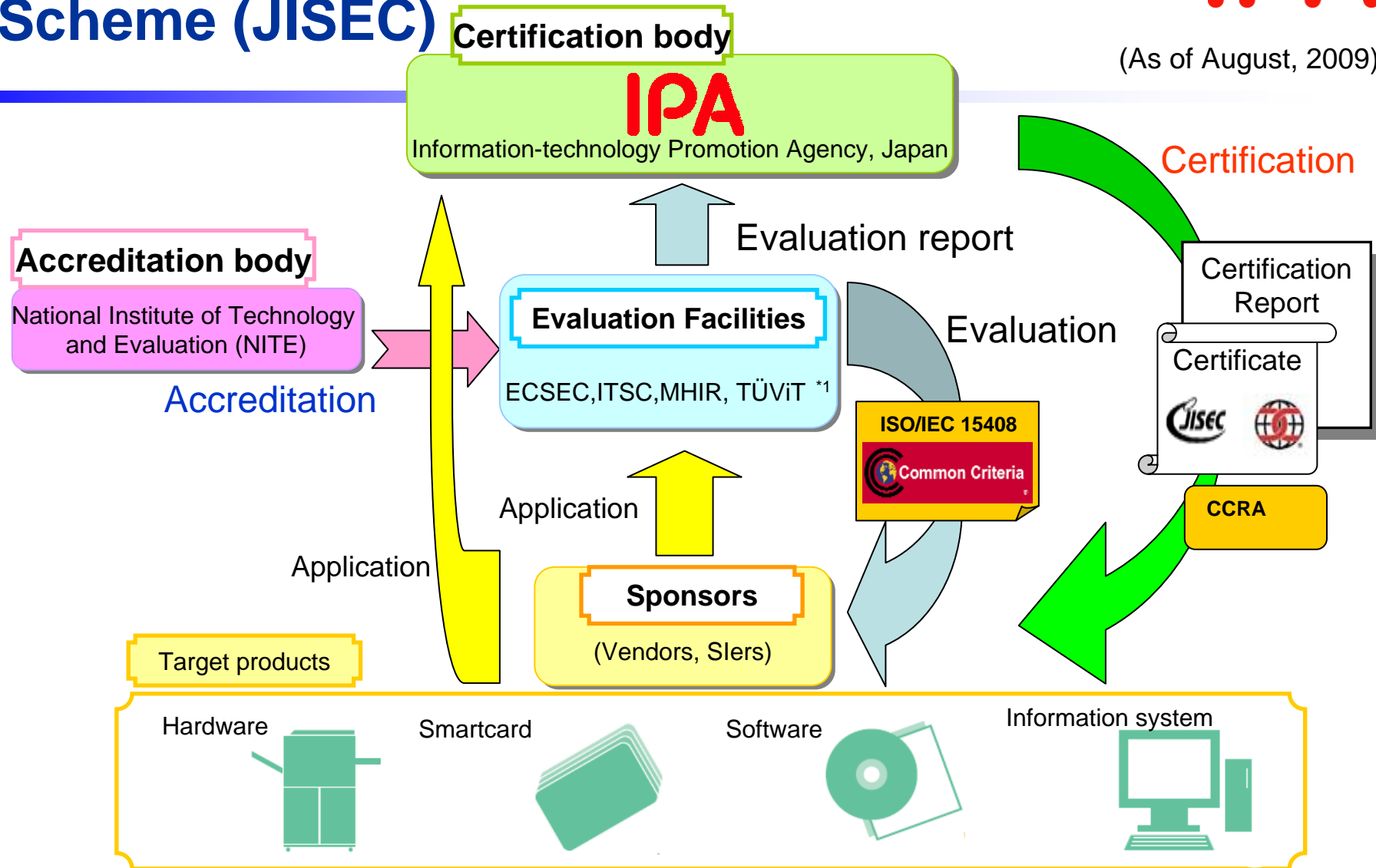


- JISEC was established in April, 2001.
- Japan became a member of CCRA in October 2003.
- Issued 234 CC certificates ever since (As of August 2009)

# IT Security Evaluation and Certification Scheme (JISEC)



(As of August, 2009)

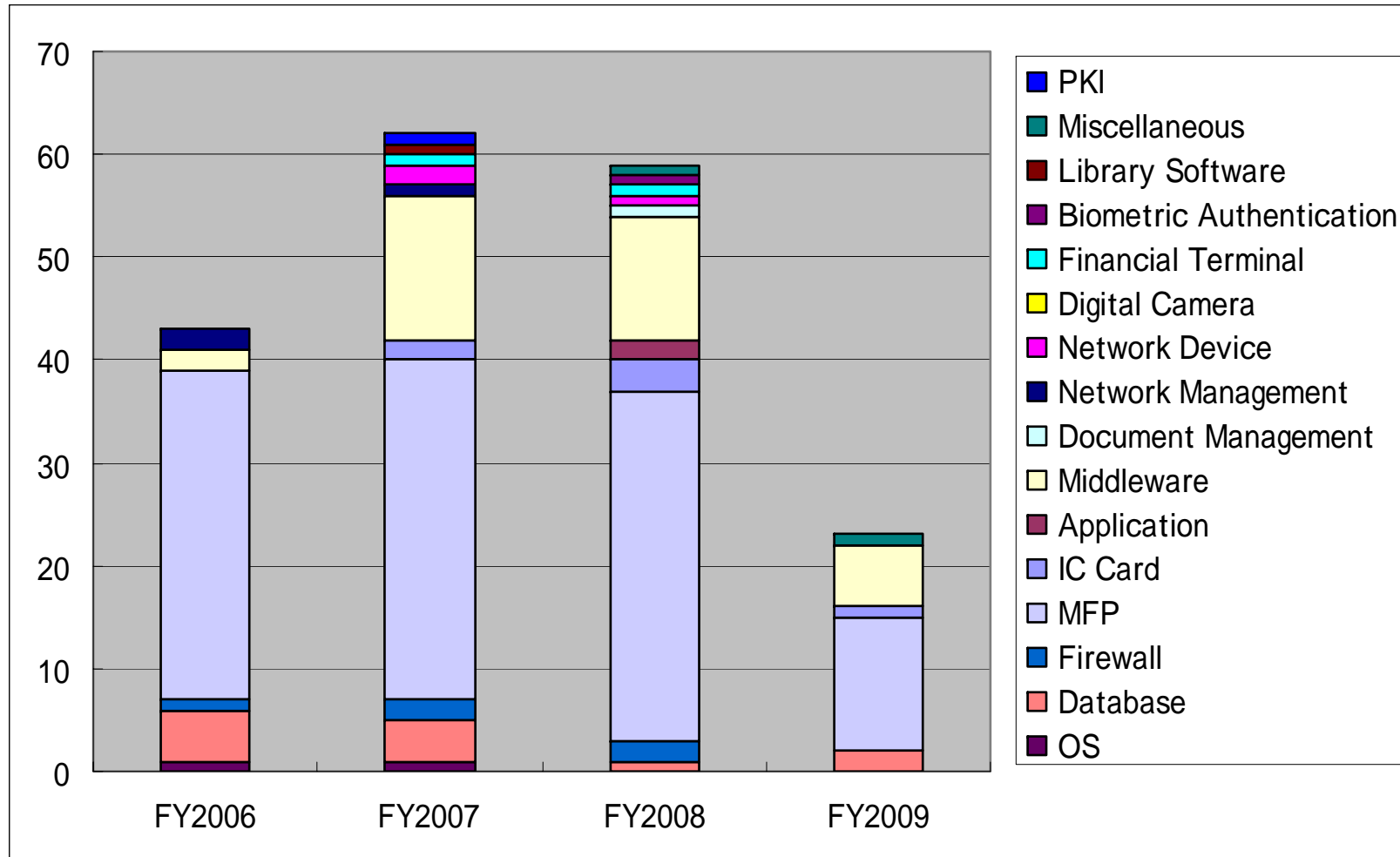


\*1 Electronic Commerce Security Technology Research Association (ECSEC),  
 Information Technology Security Center (ITSC),  
 Mizuho Information & Research Institute, Inc.(MHIR)  
 TÜV Informationstechnik GmbH Evaluation Body for IT-Security (TÜViT)

# Number of Certificates per TOE type



(As of August, 2009)



# Number of Certificates per TOE type



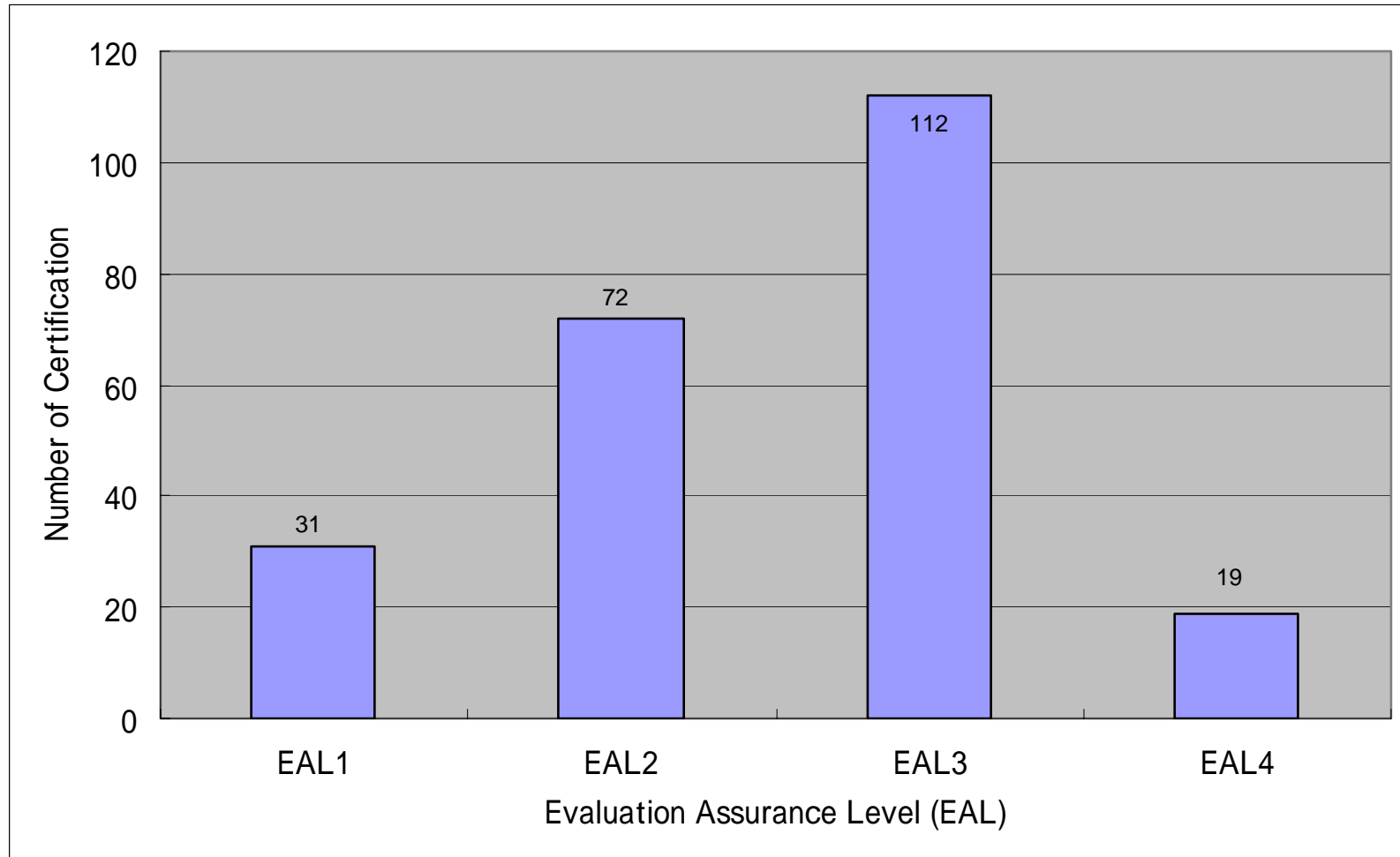
(As of August, 2009)

TOE type	FY2006	FY2007	FY2008	FY2009	Total (since FY2002)
OS	1	1	0	0	2
Database	5	4	1	2	13
Firewall	1	2	2	0	6
MFP	32	33	34	13	145
IC Card	0	2	3	1	10
Application	0	0	2	0	3
Middleware	2	14	12	6	34
Document Management	0	0	1	0	2
Network Management	2	1	0	0	3
Network Device	0	2	1	0	3
Digital Camera	0	0	0	0	1
Financial Terminal	0	1	1	0	3
Biometric Authentication	0	0	1	0	1
Library Software	0	1	0	0	1
Miscellaneous	0	0	1	1	3
PKI	0	1	0	0	4
Total	43	62	59	23	234

# Evaluation Assurance Level (EAL)



(As of August, 2009)



(All certificates issued until now are counted in this chart)

# Recent Certificates Examples (1)

(Certificates issued since October 2008)

## MFP Related Products

- ✓ Konica Minolta Business Technologies, Inc.  
*bizhub C253/bizhub C203 PKI Card System Control Software*
- ✓ Sharp Corporation  
*MX-FR11*
- ✓ Fuji Xerox Co., Ltd.  
*Xerox WorkCentre 7425/7428/7435*
- ✓ TOSHIBA TEC CORPORATION  
*System Software for e-STUDIO555/655/755/855*
- ✓ Canon Inc.  
✓ *Canon MFP Security Chip*



## Smart Card Related Products

- ✓ SC Square LTD  
*Apollo OS e-Passport*
- ✓ FeliCa Networks, Inc.  
*Mobile FeliCa IC chip firmware*
- ✓ NTT Communications Corporation  
*Adapter Compatible High-Speed Juki Card Software*



## Recent Certificates Examples (2)

(Certificates issued since October 2008)

### Data Base Management System Products

✓ Hitachi, Ltd.

*HiRDB / Parallel Server Version 8*



### Data Breach Prevention Software

✓ Humming Heads, Inc.

*Security Platform evolution /SV CC*



### Groupware products

✓ NEC Corporation

*StarOffice X V1.5*

**StarOffice**

### Data Duplicator

✓ SEIKO EPSON CORPORATION

*PP-100N Security control unit*

### Digital Recording

✓ FUJIFILM Corporation

*FVR-100*

### Authentication Control

✓ FUJITSU LIMITED

*SafetyDomain*



# Smart chip evaluation



No security evaluation scheme for LSI H/W exists in JISEC

This causes the following issues.

- 1) Decrease in price competitiveness
- 2) Product launch timing delay
- 3) Decrease in security technology competitiveness

## Action Plan

Establish security evaluation scheme that is consistent with JHAS scheme.

Try to establish new security LSI application market that Japan has technology advantage such as IT related consumer products in the near future.

## Planned Activities in 2009



- **Clarify Government procurement Policy for CC certified products**
  - ✓ What kind products have to be certified for governmental use and under what condition?
  - ✓ More guidance is needed for government procurement officers
- **Existing evidence based approach**
  - ✓ Many vendors develop artificial evidences just for CC evaluations
  - ✓ Seek alternative approach (e.g. utilize source code) or more cost-effective evidence development
- **Current state of evaluations in foreign countries**
  - ✓ How third parties (e.g. researchers or non-CC testing labs) are involved to incorporate the latest information technology into CC evaluations?
  - ✓ Cooperate with them in the future if possible

# Thank you for your attention

*Hidehiro YAJIMA*

Managing Director  
IPA Security Center

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

## **JISEC Information**

URL:

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

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

