

# Japanese Scheme Update

## IT Security Evaluation and Certification Scheme(JISEC)

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# Agenda

- Introduction to IPA and JISEC
- JISEC Achievement
- MFP Evaluation Status
- Issues in Japan
- Progress in FY2013
- Challenges

# Introduction to IPA

- **IPA: Information-technology *P*romotion *A*gency, Japan**
  - Established in 1970 by “*Act on Facilitation of Information Processing*”
- **Three Missions**
  - Assuring the security and reliability of social IT services and systems
  - Strengthening international competitiveness
  - Cultivating highly skilled world-class IT human resources



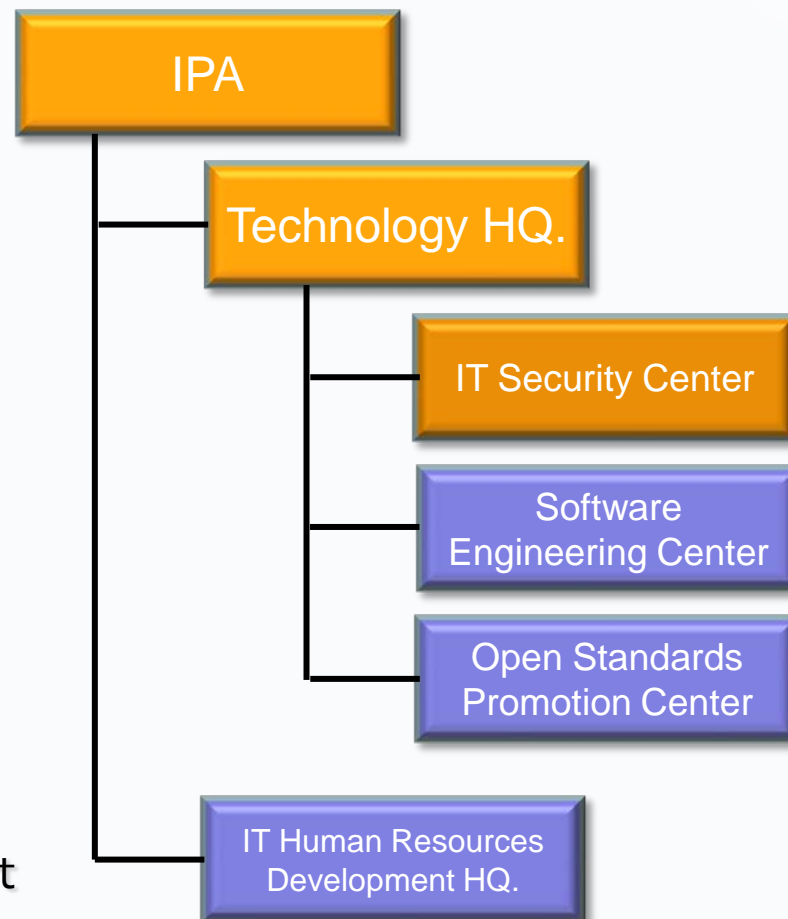
# Introduction to IPA

## ■ Three Principal Fields

- *Creating a Secure and Reliable IT-based Society*  
**IT Security / Software Engineering**
- *Creating a Better IT Future*  
**IT Human Resources Development**
- *Connecting Japanese IT with the World*  
**International Cooperation / Promoting Open Standards / Strengthening competitiveness**

## ■ IT Security Center

- JISEC CB / JCMVP CB
- PoC for Virus & unauthorized access incidents / PoC for Vulnerability Report
- Crypto Research





## ■ JISEC

### Japan IT Security Evaluation and Certification Scheme

- JISEC was established in order to realize the Secure e-Government Infrastructure led by METI.
- Japan joined the CCRA as a Certificate Authorizing Participant on October 31, 2003.
- IPA administrates CC Scheme as Certification Body since April 2004.
- JISEC was approved as a CAP after undergoing VPA by the CCRA of 2009.
- Japan started to require the CC certification for Government Procurement of IT Security Products in April 2011.

# Introduction to JISEC

## ■ Governing Ministry

- Commerce and Information Policy Bureau, METI

## ■ Certification Body

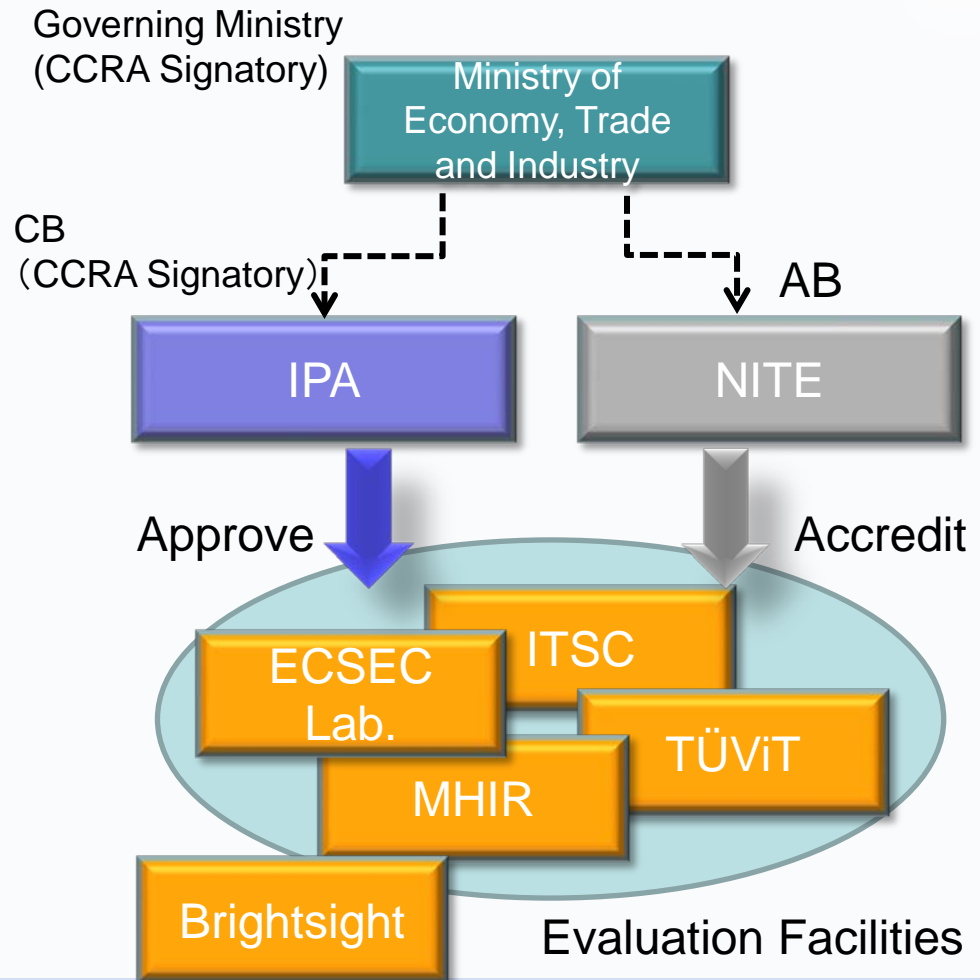
- IT Security Center, Technology HQ, IPA

## ■ Accreditation Body

- IAJapan NITE

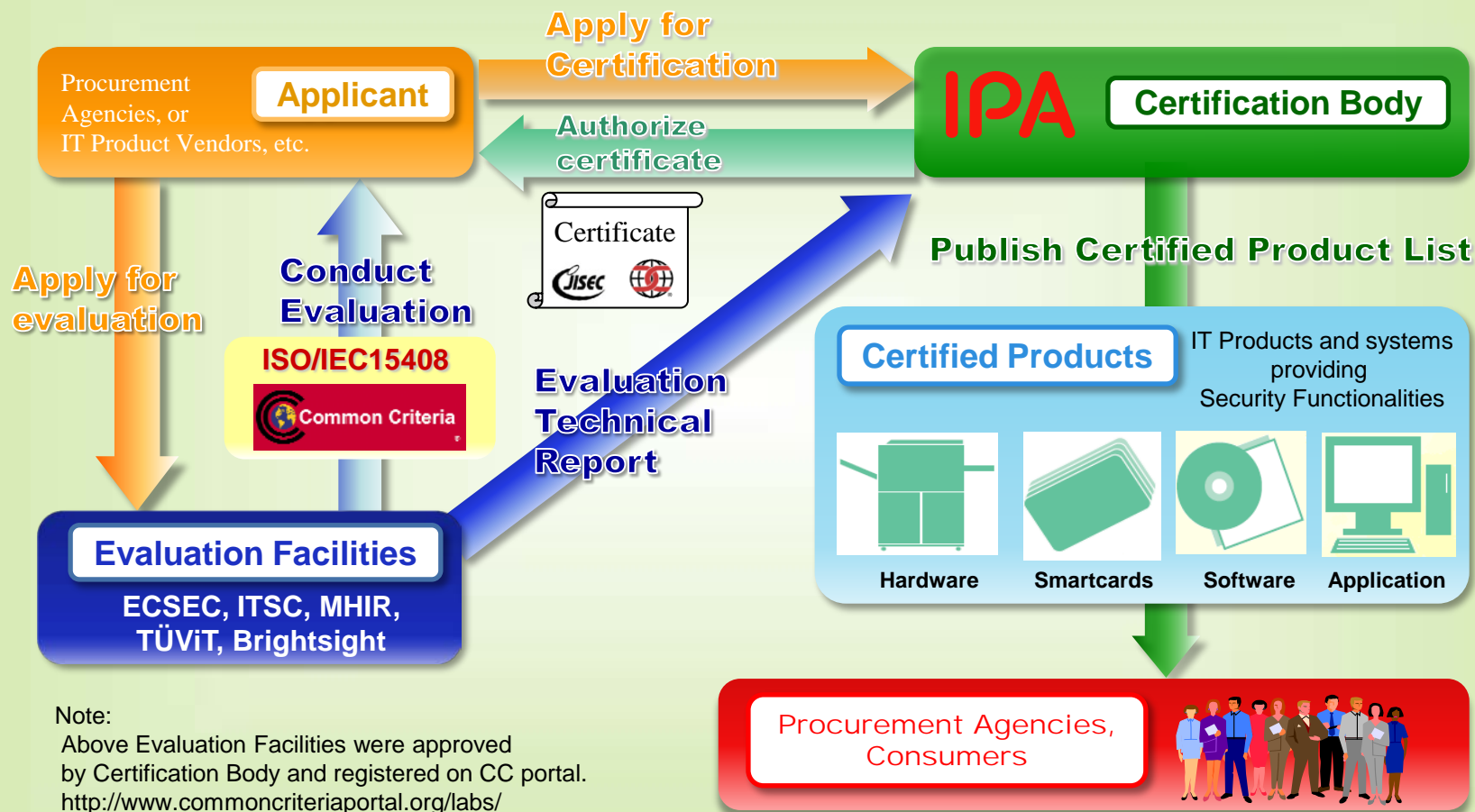
## ■ Evaluation Facilities

- IT Security Center
- ECSEC Laboratory
- Mizuho IR
- TÜViT
- Brightsight



# Introduction to JISEC

## Framework for JISEC



## ■ Certificates authorized

- FY2012 (Apr. 2012 to Mar. 2013): 40 certificates
- MFP related products: 35 (including 20 evals. of PP compliant),  
DBMS: 2 products, Application SW: 2 products,  
IC Chip: 1 product

## ■ Certificate Maintenances

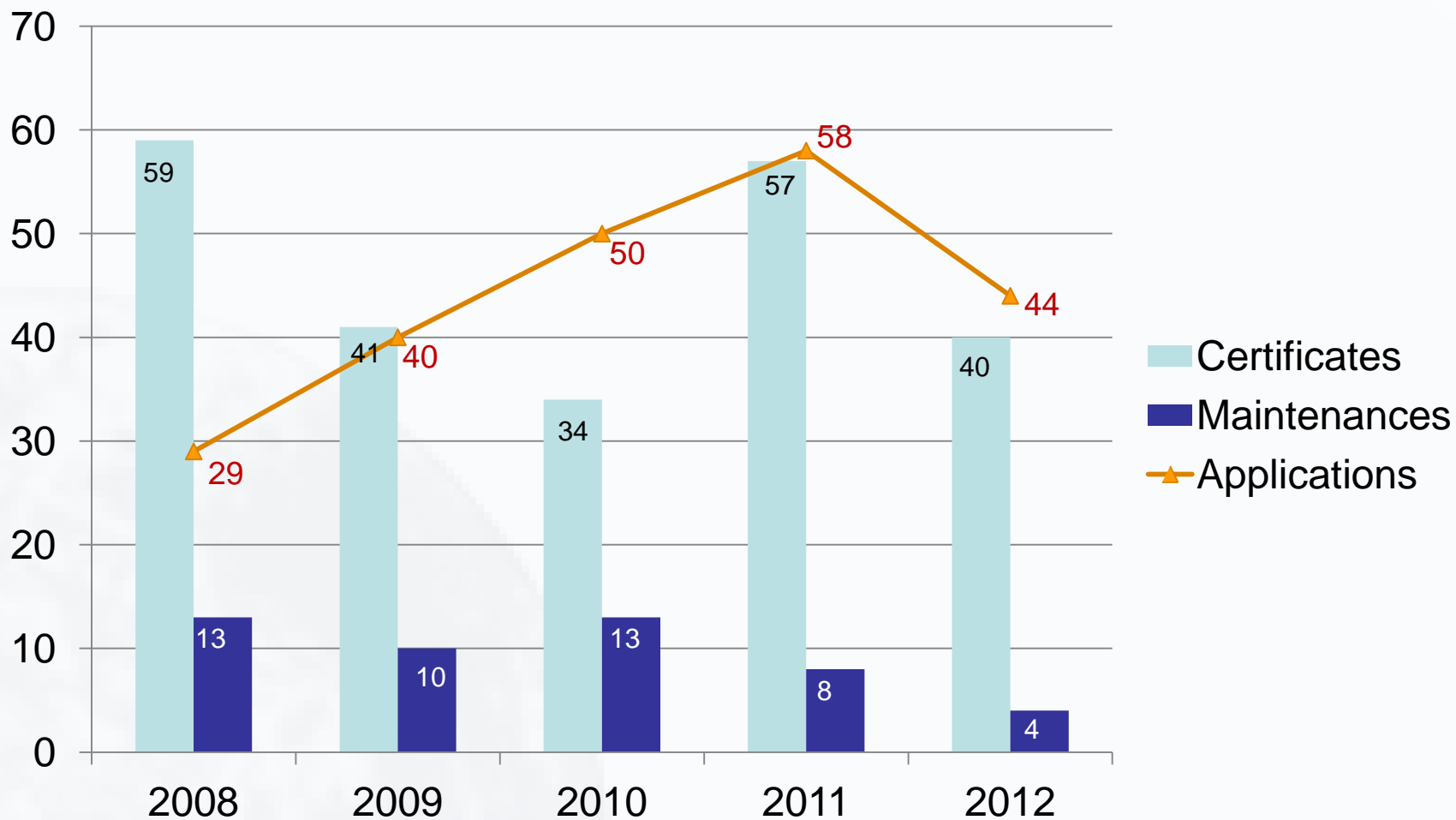
- FY2012: 4 maintenances (FY2011:8) 50% of FY2011

## ■ Applications for certification

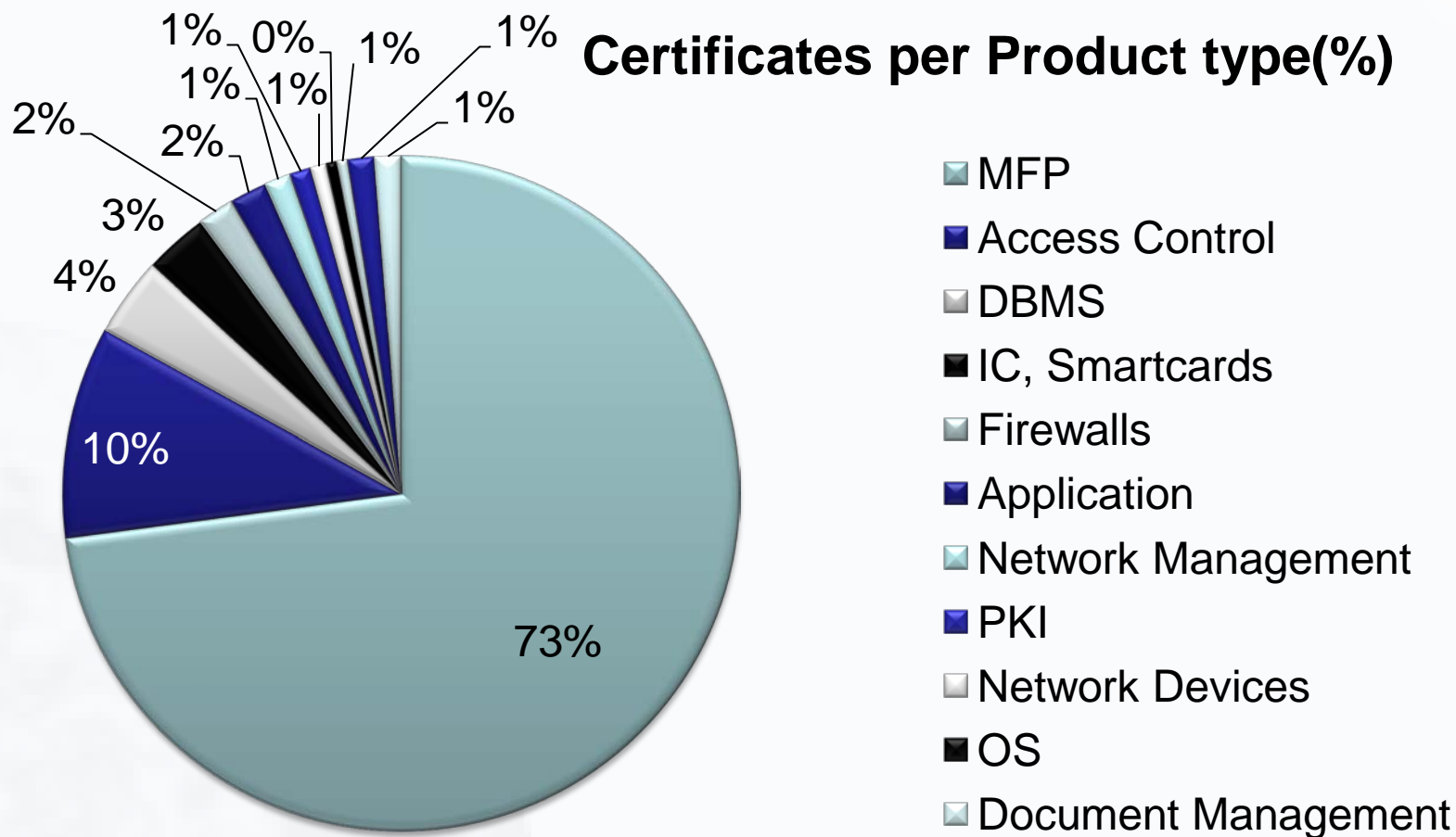
- FY2012: 44 (FY2011: 58) 76% of FY2011
- Ongoing evaluations: 55 products (as of August 2013) 180%  
of FY2011



# JISEC Achievement



# JISEC Achievement

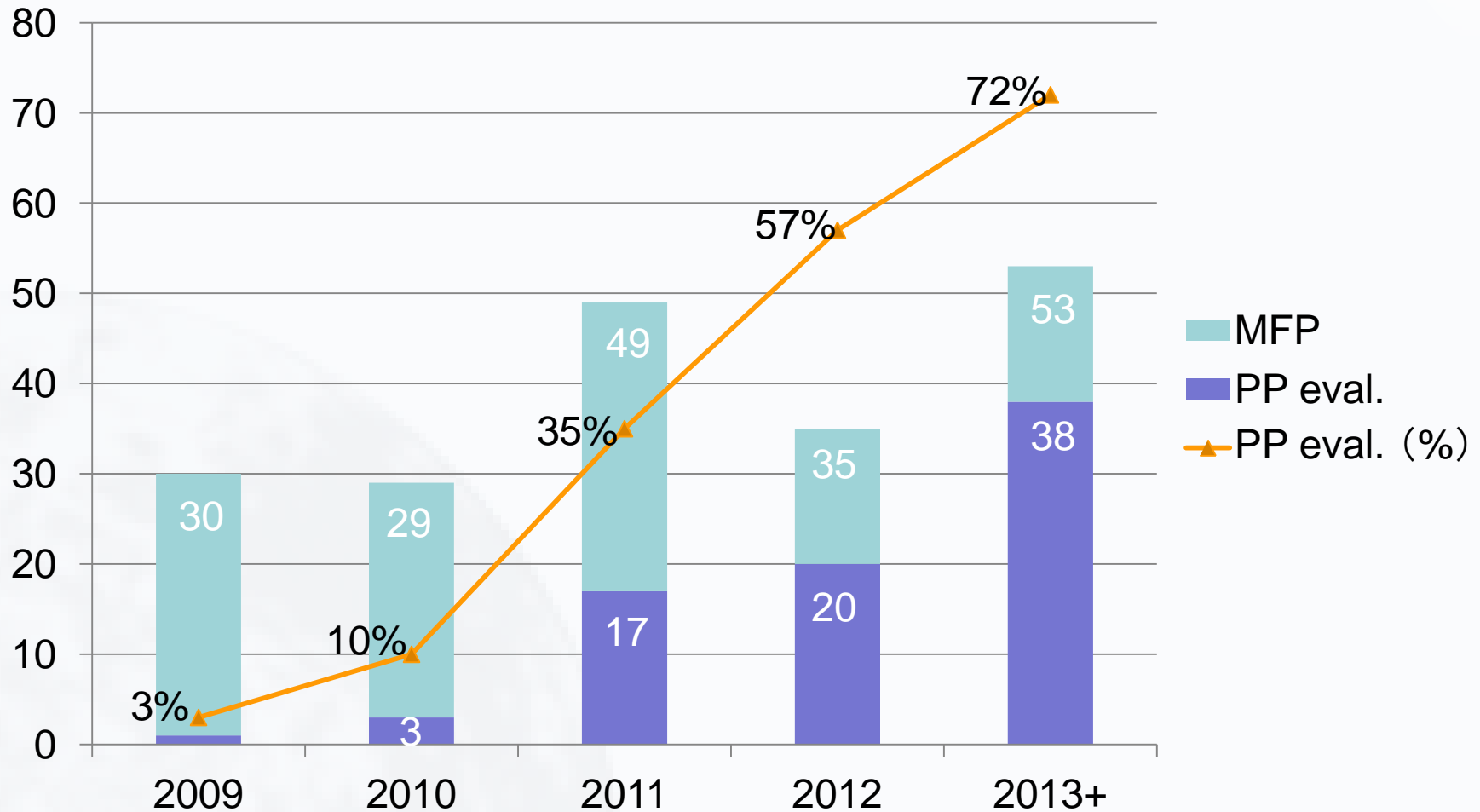


## ■ **FY2013** (since April 2013)

- Applications for Certification: 20 products (as of 2013Q1)
- Ongoing evaluations were increased under the influence of Economic Recovery
- Evaluations other than MFP are not so much involved yet
- Evaluation of IC Chip completed in two products
- 5 ongoing evaluation on hardware product area
- Reacting new “Assurance Continuity requirements v2.1”
- Reacting for the requirements of ISO/IEC 17065

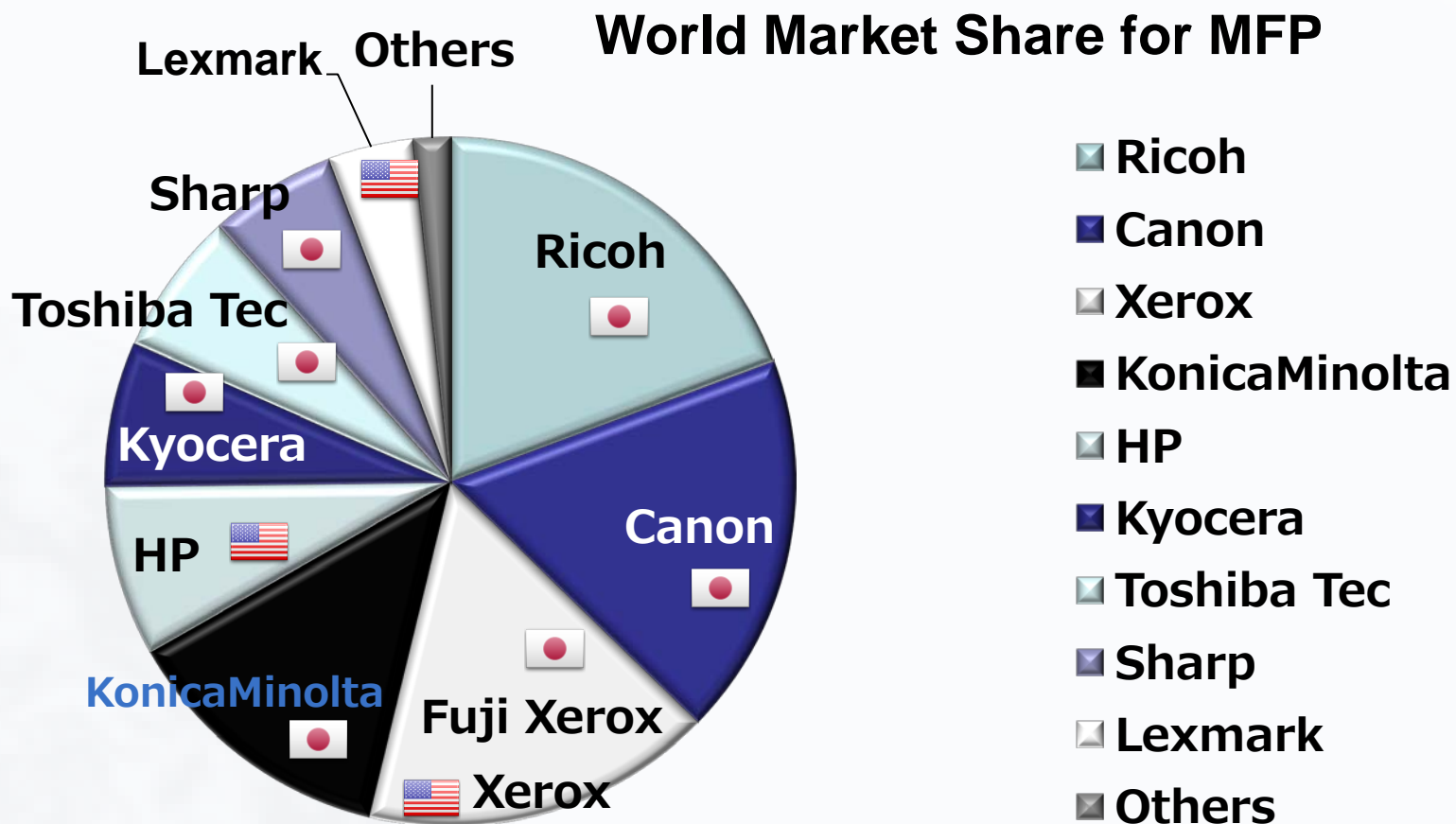
# MFP Evaluation Status

Evaluation of MFP against PP and original ST



# MFP Market Share

MFP vendors in Japan dominate with a 75% world market share



Source: IDC 2012 Report

## ■ PP compliant evaluation becoming common

- 35% in FY2011 → 57% in FY2012
- In FY2013, PP eval. will be 72% (incl. ongoing)
- US procurements require PP evaluation (CNSSP-11)
- US Gov't approved PP IEEE 2600.2(EAL2+) is expected to be common

## ■ Development of new MFP PP

- IPA and NIAP lead development of new MFP PP
- IPA published the research report on security of MFPs (English version is available)

## ■ New MFP PP Status

- MFP Technical Community was established within the CC Users Forum in September 2012.
- More than 70 members from vendors, labs and CBs.
- Created the MFP TC Charter v1.1 as ToR for MFP TC.
- Closed group "*MFP TC Core*" was created and TC Core members lead development of MFP PP draft.
- MFP TC is now discussing MFP PP draft v0.6 and its successors, including SFRs and related assurance activities.
- New MFP PP draft will resolve the copyright problem of current PP.

## ■ Research Report on the security of MFPs v2.0

- IPA published the English version of research report v2.0, focusing vulnerability analysis of MFPs.
- Outline of the report is as follows:
  - ◆ Methodology for analysis of MFP vulnerability on this report
  - ◆ Use cases and functionalities of MFP
  - ◆ Data flow at use of MFP
  - ◆ Assets of MFP to be protected
  - ◆ Vulnerabilities derived from threats
  - ◆ Detailed discussions on potential vulnerabilities
  - ◆ Other security measures
  - ◆ Considerations on vulnerability of new functions

URL: [http://www.ipa.go.jp/security/jisec/apdx/documents/20130312report\\_E.pdf](http://www.ipa.go.jp/security/jisec/apdx/documents/20130312report_E.pdf)



## ■ Use of CC evaluation for gov't procurement

- Not mandated to procure the CC certified products, but only recommended
- Almost no PPs were created for gov't procurement except IC chips
- A part of necessary security function might not be evaluated based on vendor-specific STs

## ■ PP compliant and availability for procurement

- A few PP compliant certified products in Japan  
→ Difficult to procure PP compliant products
- Need for a *transit plan* to make it available to procure PP compliant certified products in Japanese market

- **Revision of Government Procurement Policy for IT products**
  - Original ST to PP compliant evaluation:  
Procurement requirements with only EAL to requirements with Protection Profile for conformance
- **Participating CCDB WG and TCs toward the cPP based procurement**
  - MFP TC
  - USB cPP WG
  - (DBMS TC, ...)
- **Focusing the Vulnerability-centric assurance activities**

## ■ Policy for the development and use of cPPs

- Establishment of national framework for cPP development involving gov't and industry
- Establishment of national framework for discussion and approval of cPPs
- Introduction of "*Evaluation Validity*" for procurement policy
- Providing periodical surveillance and maintenance of certified products
- Improvement on language issues
  - ◆ Providing information in English (Regulations, Forms, etc.)
  - ◆ Accepting applications in English
- Revising web site of CB
  - ◆ Providing the certified product list for procurement

# Thank you

## ■ Takeshi Ito

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