



INFORMATION-TECHNOLOGY PROMOTION AGENCY, JAPAN



Japan Information Technology Security Evaluation and Certification Scheme

Japanese CC Evaluation & Certification Activity Update

September 23, 2008

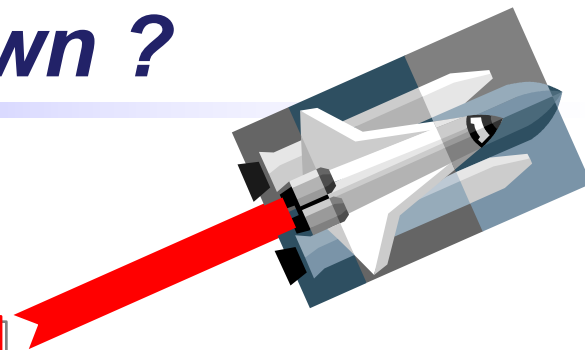
Yasuhide YAMADA

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

Agenda

1. How has the JISEC grown ?
2. Where is the JISEC today ?
3. Where will the JISEC go tomorrow ?

1. How has the JISEC grown ?

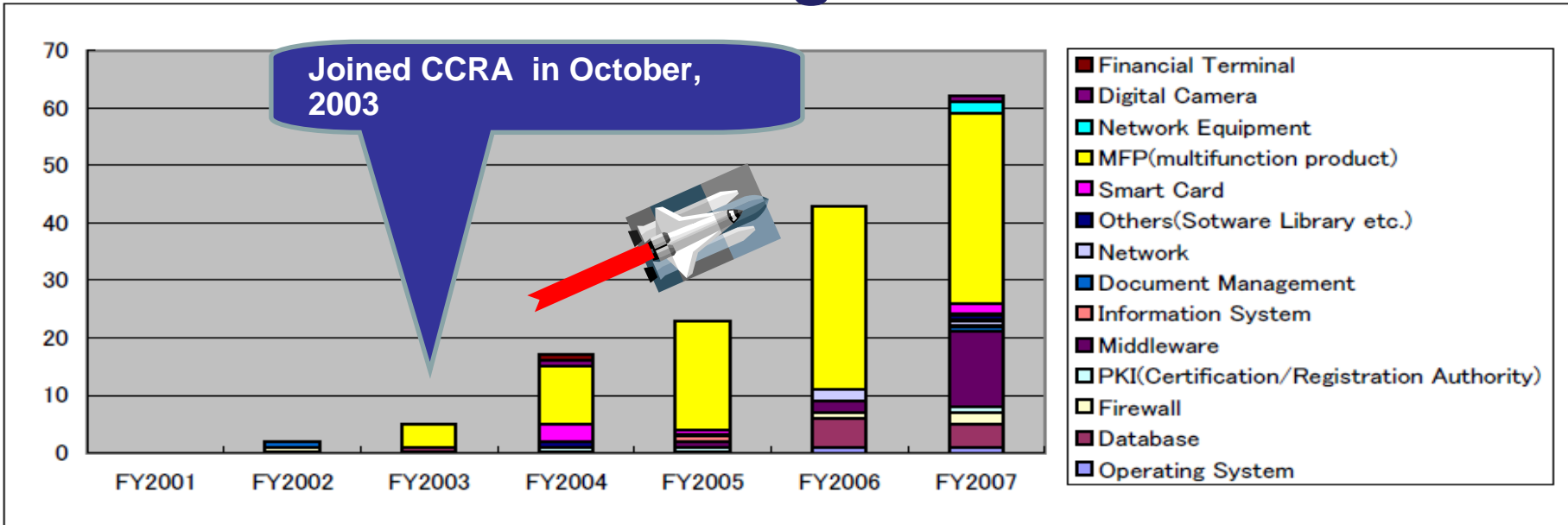


MFP	98	64%
Middleware	16	11%
Database	10	7%
Smartcard	6	4%
Firewall	4	3%
PKI	3	2%
Network	3	2%
OS	2	1%
Document Management	2	1%
Software Library	2	1%
Network Equipment	2	1%
Digital Camera	2	1%
Information System	1	1%
Financial System	1	1%
TOTAL	152	

MFP (Multi Function Product/Printer/ Peripheral) has been a single main engine !

1. How has the JISEC grown ?

(As of March, 2008)



TOE Type	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	Total
Operating System	0	0	0	0	0	1	1	2
Database	0	0	1	0	0	5	4	10
Firewall	0	1	0	0	0	1	2	4
PKI(Certification/Registration Authority)	0	0	0	1	1	0	1	3
Middleware	0	0	0	0	1	2	13	16
Information System	0	0	0	0	1	0	0	1
Document Management	0	1	0	0	0	0	1	2
Network	0	0	0	0	0	2	1	3
Others(Software Library etc.)	0	0	0	1	0	0	1	2
Smart Card	0	0	0	3	1	0	2	6
MFP(multifunction product)	0	0	4	10	19	32	33	98
Network Equipment	0	0	0	0	0	0	2	2
Digital Camera	0	0	0	1	0	0	1	2
Financial Terminal	0	0	0	1	0	0	0	1
Total	0	2	5	17	23	43	62	152

1. How has the JISEC grown ?

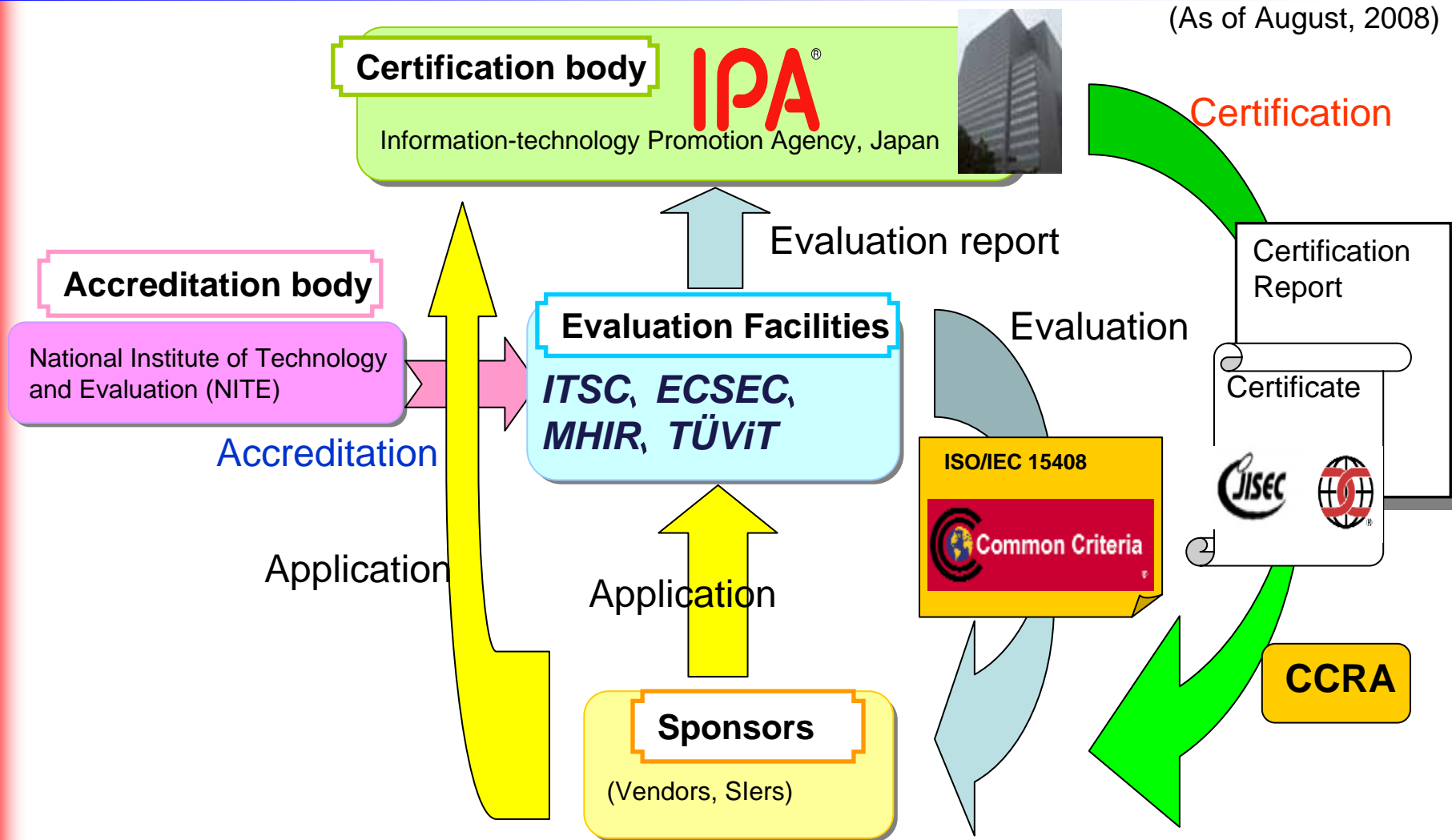
	USA	UK	Canada	France	German	Australia	Japan	Netherland	Norway	Korea	Spain	
1997	0	0	1	0	0	0	0					1
1998	1	6	0	0	1	0	0					8
1999	1	5	2	4	1	0	0					13
2000	2	7	2	11	0	1	0					23
2001	4	4	2	16	1	1	0					28
2002	26	7	2	12	8	2	2					59
2003	18	13	7	5	13	5	5					66
2004	31	6	6	22	49	3	17					134
2005	62	6	7	23	46	2	23					169
2006	39	4	4	21	44	1	43	1	2	53	4	216
2007	45	10	18	22	32	5	43	0	0	13	4	192
2008	7	1	2	0	14	-1	19	0	1	2	1	46
合計	236	69	53	136	209	19	152	1	3	68	9	955

Australia includes NZ

(March 28, 2008)

2. Where is the JISEC today ?

(As of August, 2008)



2. Where is the JISEC today ?

IPA: Information Security Certification Office

- Responsible for operation of CC scheme in Japan
- 10 certifiers, having more than ten years experience of IT dev.
- Each certifier handles about 5 or 6 evaluations per year.
- Certifier's tasks are;
 - Validation of ETRs
 - Check evaluator's evaluation process
 - Check conformance to the CC/CEM
 - Validation as a whole takes about 2 months on average.
It depends on various factors like EAL or scope of TOE.
 - Develop certification or validation reports
 - CC education for developers
 - Develop CC guidance documentations for developers

2. Where is the JISEC today ?

Evaluation Labs in Japan

□ 4 evaluation labs in Japan

- **ITSC**: IT Security Center *

* ITSC separated from JEITA (Japan Electronics and Information Technology Industries Association) last year.

- **ECSEC**: Electronic Commerce Security Technology Laboratory Inc.,

- **MHIR** : Mizuho Information & Research Institute Inc.

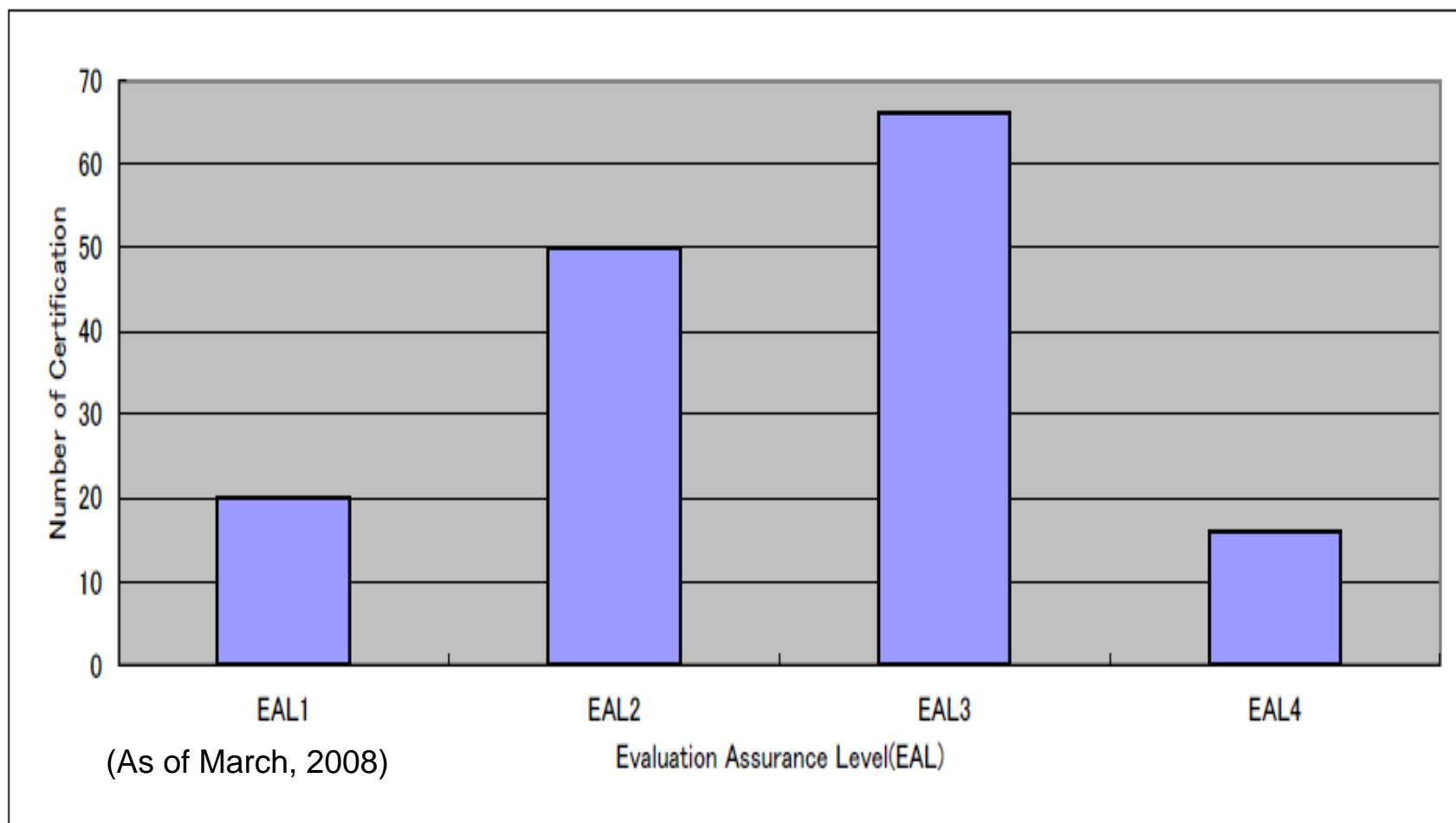
- **TUViT** : TÜV Informationstechnik GmbH Evaluation Body for IT-Security

□ Evaluation takes from 3 months to more than 1 year

- Depending on various factors ;
EAL, Scope of TOE, Delay of development schedule etc.

2. Where is the JISEC today ?

Evaluation Assurance Level (EAL)

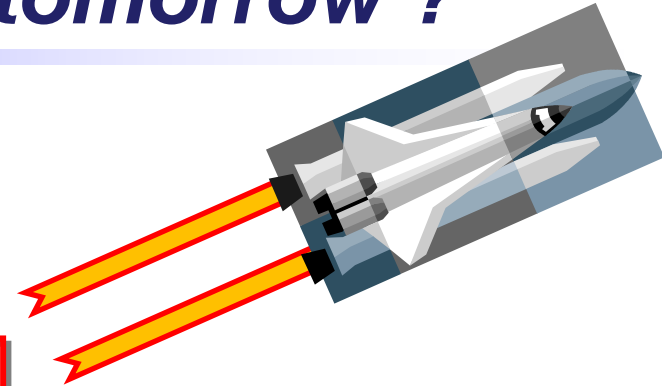


2. Where is the JISEC today ?

Japanese Government Procurement Policy

- Japan issued standards for improving e-government security, December 2005 :
Standards for Information Security Measures for the Central Government Computer Systems
- Require ST Confirmation (ASE and ADV_FSP for CC V3) for important e-government information systems and software developments (Mandatory requirement)
- Also require to consider CC certification during IT products procurement (Enhanced requirement)

3. Where will the JISEC go tomorrow ?



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Middleware, database, and smartcard are not good enough to help the main engine.

3. Where will the JISEC go tomorrow ?

Survey to JP vender's and IT user's

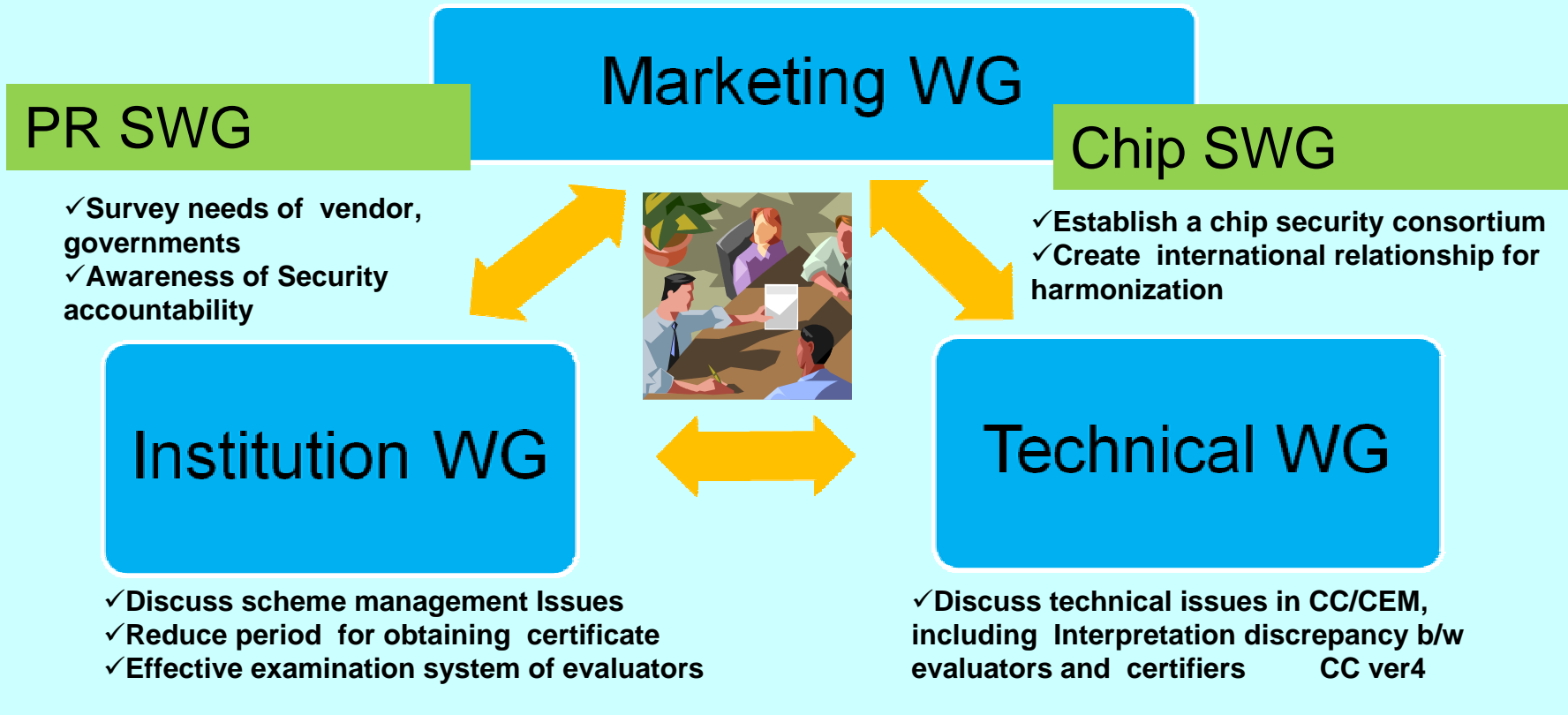


- 68% of IT users don't know CC. It's not good for JP venders because their main motivation for getting CC certificates are appealing to their customers.
- CC evaluations takes too long and do not fit vender's product life-cycle. For example, they can not get CC certificates at the timing of the product (TOE) announcement.
- CC evaluations cost too much. JP vender / users are not sure CC evaluations have good cost-effectiveness.
(including IC card H/W)

3. Where will the JISEC go tomorrow ?

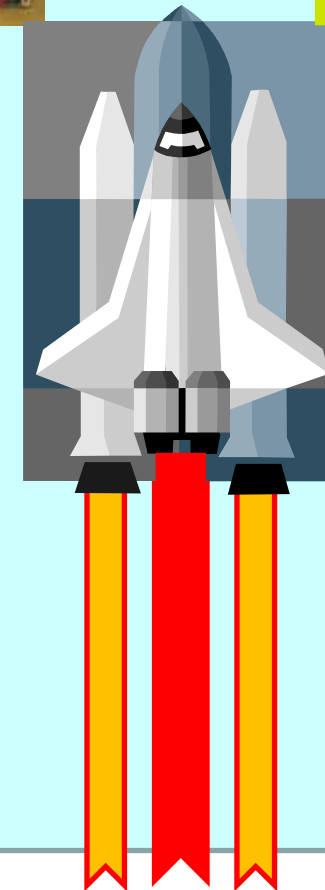
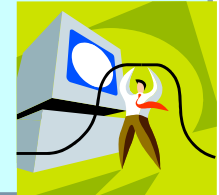
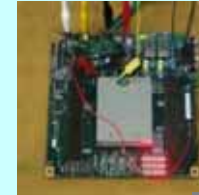
Common Criteria Task Force (CCTF)

- ✓ Established in December , 2007
- ✓ Consists of IPA, Evaluation Facilities, Vendors, NITE, METI, etc..
- ✓ Chair: Mr. Haruki Tabuchi (Research Fellow of ISEC)
- ✓ Decision scheme direction of Japan
- ✓ Coordination of 3 WGs
- ✓ Interpretation of CC ver 3.1



3. Where will the JISEC go tomorrow ?

- **Promote “security accountability” in Japan, by introducing CC**
 - PR to government +
- **Respond needs & requests of vendors and users of commercial products**
 - Institutional flexibility +
- **Increase main certified product engines**
 - Chip H/W booster +
- **Much Contribution to CCRA**
 - Existing evidence-based Approach +



Organizational Chart of IPA

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

Thank you for your attention

Yasuhide YAMADA

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IPA Security Center

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JISEC Information

URL:

English: http://www.ipa.go.jp/security/jisec/jisec_e/

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