

## FRAM embedded microcontroller for FeliCa receives ISO/IEC 15408 security certification

The FRAM embedded microcontroller for FeliCa received ISO/IEC 15408 EAL4+ certification by the security evaluation system of France. A certification ceremony was held at the Central Information Systems Security Directorate (DCSSI) of the French Prime Minister on December 20, 2006. It was the first time for FUJITSU to receive EAL4+ certification, which conforms to the internationally recognized IC card PP\*<sup>1</sup>.

At the certification ceremony, the talks covered current security status and security market strategies and there was discussion that the major IC card manufacturers including NXP Semiconductors and Infineon Technology are beginning to promote EAL5+\*<sup>2</sup> and that the security standard for IC cards is shifting from EAL4+ to EAL5+. Amane Inoue, Vice General Manager of Fujitsu's System Micro Division said, "Security is beginning to be used as a tool in market strategies in Europe. Anti-tamper features are equivalent between EAL4+ and EAL5+. The future issue is the description languages used in the specification document—the software division is ahead in this field. We would like to get some advice and reinforce this point." Security, anti-tamper features, and the skill of attackers are evolving fast, and the device that received EAL4+ certification in this ceremony has proven that it is strong enough to resist the latest attacks.

### NOTES

#### \*1: PP

Protection Profile

A document that summarizes the security requirements for each IT product or system field. It conforms to the PP creation requirement of ISO/IEC 15408 and is mutually certified by different countries.

This certified product conforms to the IC card PP, which is certified by the German government (BSI-PP-0002 Smartcard IC Platform Protection Profile Version 1.0 July 2001).

#### \*2: EAL5+

EAL5 indicates a higher evaluation assurance level from EAL4. EAL5+ refers to several additional items added to the EAL5 evaluation menu. While the required anti-tamper level in EAL5+ promoted in IC cards is equivalent to that of EAL4+, it requires the use of program languages (such as HDL: hardware description language) in the description of the specification and thus the detailed design specification document will be more accurately evaluated.

#### \*3: SGDN

Secrétariat général de la défense nationale.

The information system security division of the French Prime Minister that supervises DCSSI.

#### \*4: TSS

Thales Security Systems

DCSSI-accredited security evaluation facility (France)

A scene from the ceremony



(Center in photograph)  
Amane Inoue, Vice General Manager  
System Micro Division  
Electronic Device Division,  
FUJITSU LIMITED

(Left end)  
DCSSI Director Mr. Pascal Chour

(2nd from left)  
DCSSI Sub Director Dr. Pascal Chauve

(2nd from right)  
SGDN<sup>3</sup> Director Mr. Patrick Pailloux

(Right end)  
TSS<sup>4</sup> Manager  
Mr. Jean-Christophe Courrege

Security certification document

