

# Sm@rtCafé® Expert 2.x

The Java™-based smart card



Giesecke & Devrient's (G&D) market-proven Sm@rtCafé® Expert 2.x product line is the prime choice for secure and hardware-independent Java Card™ solutions. It offers powerful multi-application smart cards for your customers.

Sm@rtCafé® Expert 2.x products meet all current standards (Java Card™ 2.1.1, Open Platform 2.0.1') and are available on a whole family of chips between 16 KB and 72 KB EEPROM, featuring an optional crypto co-processor.

Supporting all kinds of solutions for the markets of payment, security solutions, health care, government applications, and multimedia, this product line will greatly improve your smart card business.



Giesecke & Devrient



## Benefits of Sm@rtCafé® Expert 2.x



The Sm@rtCafé® Expert 2.x product line is designed to fulfill all the requirements of modern Java Card™-based single- or multi-application smart card solutions. Optionally, several applets can be preloaded into the ROM mask: for debit or credit applications, for token-based access (one-time password generation), for loyalty and for Public Key Infrastructures (PKI). The ample space thus remaining in the card's EEPROM will support you best when adding your tailor-made Java™ applets, regardless of whether they are part of your earlier investments in Java™ applet technology, or whether G&D supplies an applet designed according to your present requirements.

The Sm@rtCafé® Expert 2.x products are highly secure and still the most flexible platforms for your applet solutions due to their support of very advanced security features especially for applets, such as DAP (Data Authentication Pattern) verification and multiple security domains.

With its optimized and sophisticated memory management and its very high communication speed, Sm@rtCafé® Expert 2.x is one of the world's leading JavaCard™ implementations for your competitive business solution.

### Preloaded applications\*

- EMV Debit/Credit
- Token-based access (OTP)
- Loyalty
- Data Storage
- PKI

### Sm@rtCafé® Professional Toolkit 2.0 SP2

- Java™ applet development
- Simulation and debugging environment
- Contains Sm@rtCafé® Customizer, a G&D tool for sample card configuration and applet loading
- Contains smart card reader and test cards

Visit our website to directly order your own toolkit, or download our Free Personal Edition (with limited functionality) for a trial!

## G&D professional services

G&D—with its wide experience in the smart card business—offers the whole service range for Java™ cards:

- Applet development
- Card manufacturing
- Module embedding
- Personalization
- Bureau services
- Support, consulting, and integration services

### Key features\*

#### Specifications

- Java Card™ 2.1.1
- Open Platform 2.0.1'
- EMV 2000 v4.0

#### Advanced specification features

- Multiple security domains

#### Security

- DES, 3-DES
- RSA support up to 2048 Bit\*
- DAP verification 3-DES/RSA\*
- Enhanced high security memory management

#### Interfaces

- T=0, T=1\*
- Up to 72 KB EEPROM\*
- Up to 115 kBaud communication speed

\*depending on the specific product version

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