



Giesecke+Devrient

# StarSign® Sm@rtCafé Expert: Open platform authentication management made simple



Interoperable, secure, and reliable authorization management platform.

Part of Giesecke+Devrient (G+D)'s StarSign® authentication product suite, Sm@rtCafé Expert is a Java-based open platform that supports smart card integrated circuits (ICs) from multiple vendors—so you can manage your various security accesses on a single card.

Sm@rtCafé Expert is fully compliant with GlobalPlatform specifications for seamless security authentication. In addition, it's fully public key infrastructure (PKI)-enabled, and also supports the Personal Identity Verification (PIV) smart card application standard—used to authorize access to US federal government facilities and information systems.

With over 25 years of experience in developing Java-based smart cards—and tens of millions of Sm@rtCafé Expert cards in use every day—G+D is the only security and authentication partner your business needs.



## Why Sm@rtCafé Expert?

### Easy integration and interoperability

Support for open standards with all GlobalPlatform specifications, Sun-approved Java Card, and ISO communication standards.

### Increased efficiency

Get all the benefits of Write Once Run Anywhere (WORA) capabilities with Java.

### Easy updates, low issuance costs

Boost your cards' functionality with a range of applets.

### Time-saving

Efficient and flexible architecture for ease of use.

### Risk minimization

Prohibit unwanted access with state-of-the-art security features.

### Flexibility

Easily add applets to your card—whether developed by a customer or a third-party vendor.

## How does it work?

### Hardware

Sm@rtCafé Expert controls your access to multiple different security domains through its compliance with GlobalPlatform specifications. For instance, Europay, Visa, and Mastercard (EMV) and PKI applications can coexist in their respective security domains in the same card, each enclosed within its own security system. And with a delegated management structure, each application is managed by its provider.

### Your trusted partner for unrivaled security

With G+D as a partner, enterprises and service providers can concentrate on their core business – without having to constantly worry about how to safeguard their physical and digital assets.

Our industry-leading Access Management and Authentication services are the vital building blocks for the enterprise to build a secure and seamless verification of identities and authorizing transactions.

Find out more about our range of [Enterprise security solutions](#).

If you would like further, more specific detail around the specifications – please get in touch – [here](#).

### StarSign® Sm@rtCafé Expert specifications

	Sm@rtCafé Expert 7.0	Sm@rtCafé Expert 8.0
<b>Hardware:</b>		
<b>Chip:</b>	SLE78CLFX4000P	SLC37GDA512 /448
<b>Space for Application:</b>	80 / 144 KB	80 / 157 KB
<b>Interfaces:</b>	Dual Interface (T=CL Type A) Contact-based (T=0 / T=1)	Dual Interface (T=CL Type A/B) Contact-based (T=0 / T=1)
<b>Packages:</b>	T-M8.4-8-1; P-M8.4-8-3; VQFN 32	GlobeTop/Transfer Mold
<b>Cryptography:</b>	4096 bit RSA, AES 512 bit, DSA up to 1024 bit, Triple-DES 3-key, ECDSA up to 256 bit, ECDH up to 256 bit, SHA-224, SHA-256, SHA-384, SHA-512, RNG: according to NIST SP 800-90	4096 bit RSA, AES 512 bit, DSA up to 1024 bit, Triple-DES 3-key, ECDSA up to 256 bit, ECDH up to 256 bit, SHA-224, SHA-256, SHA-384, SHA-512, RNG: according to NIST SP 800-90
<b>Certifications:</b>		
<b>Chip:</b>	Common Criteria EAL 5+ FIPS 140-2 Level 3	Common Criteria EAL 6+
<b>Operating System:</b>	Common Criteria EAL 6+ (EAL6+ production environments) FIPS 140-2 Level 3	Common Criteria EAL 6+ (EAL6+ production environments)
<b>Standards:</b>	<ul style="list-style-type: none"> <li>Java Card 3.0.4 Classic</li> <li>GlobalPlatform 2.2.1 + Amendment D (SCP03)</li> <li>ISO 7816, ISO 14443A</li> </ul>	<ul style="list-style-type: none"> <li>Java Card 3.1</li> <li>GlobalPlatform 2.3.1 + Amendment D (SCP03)</li> <li>ISO 7816, ISO 14443A</li> </ul>
<b>Available Applets / applications:</b>	<ul style="list-style-type: none"> <li>PIV and different PKI applet and middleware</li> <li>StarSign® Security Domain Applet</li> </ul>	<ul style="list-style-type: none"> <li>PIV and different PKI applet and middleware</li> <li>StarSign® Security Domain Applet</li> </ul>
<b>Feature Overview:</b>	<ul style="list-style-type: none"> <li>Multiple security domains</li> <li>Multiple DAP (DES, AES and RSA)</li> <li>Delegated management</li> <li>RMI</li> </ul>	<ul style="list-style-type: none"> <li>Multiple security domains</li> <li>Multiple DAP (DES, AES and RSA)</li> <li>Delegated management</li> <li>RMI</li> </ul>
<b>Standards support:</b>	PKCS11, Base CSP, X.509 certificates	PKCS11, Base CSP, X.509 certificates

### About Giesecke+Devrient

Giesecke+Devrient (G+D) is a global SecurityTech company headquartered in Munich, Germany. G+D makes the lives of billions of people more secure. The company shapes trust in the digital age, with built-in security technology in three segments: Digital Security, Financial Platforms and Currency Technology.

G+D was founded in 1852 and today has a workforce of more than 14,000 employees. In the fiscal year 2022, the company generated a turnover of 2.53 billion euros. G+D is represented by 123 subsidiaries and joint ventures in 40 countries. Further information: [www.gi-de.com](http://www.gi-de.com).



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