



SAFETY & SECURITY ASIA 2011 / MERLION AWARDS

**DIGITAL SMART HANDLE - DUAL CREDENTIAL
(SMART CARD & TRANSPONDER)**

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SimonsVoss Technologies is the market and technology leader for secure wireless and digital access control technologies including advanced standalone, networked and virtually networked (multi-networked) solutions. SimonsVoss offers unique solutions for sporting hubs, banking, educational institutes, healthcare and residential projects by combining the latest in technology and security. SimonsVoss is one of the fastest growing companies of its kind and market leader in cylinder locks and active transponder technology. **SimonsVoss Security Technologies (Asia) Pte. Ltd.**, headquartered in Singapore, is the Asian subsidiary of SimonsVoss Technologies AG responsible for channel development, technical support and partner development in Asia.

History of SimonsVoss Technologies AG

Founded in the 1995 by **Mr. Ludger Voss (CTO & Software Development)** and **Mr. Herbert Meyerle (Hardware Development)**, with the objective to increase comfort and improve user-friendliness in the application of locking systems. In 1997, the company's focus was the development of an extremely low-energy electronic for use in system components, innovative mechanical functions and the active transponder technology as the core for operating all system components. In the same year, an electronic lock with no external cabling was introduced as the company's first major breakthrough.

In 1998, SimonsVoss introduced to the World the first digital locking cylinder without external cabling during the Security Fair '98. Later that same year, the digital locking cylinder went into mass production. In 1999, the SimonsVoss product platform range was expanded and important extensions added to the well-received groundbreaking technology.

In 2000, the company's headquarters was moved from Munich to Unterföhring. Deutsche Venture Capital Gesellschaft (DVCG), a subsidiary of the Deutsche Bank, and Temasek Holdings joined as shareholders. Later that same year foreign offices were opened in Paris and the Republic of Singapore.

Today, SimonsVoss continues to expand upon its leading technology platform. Recent technology introductions include SimonsVoss TCP/IP-Ethernet WaveNet Wireless Networking, NFC iPhone application, SmartHandle and SC Cylinder technologies.

As of 2010, SimonsVoss employs more than 230 staff worldwide with the headquarters in Unterföhring, Germany, manufacturing location in Petersberg, Germany and foreign offices located in France, United Kingdom, USA, Netherlands, Austria, UAE, Malaysia and the Republic of Singapore.

A. Product Innovation:

The SimonsVoss Digital SmartHandle - SC open up countless opportunities. The new smart handle is a combination of a handle escutcheon and proven SimonsVoss Digital Cylinder electronics and technology. The SimonsVoss Digital SmartHandle - SC is the world's **only** dual reader digital locking smart handle. This innovation allows both secure active 25kHz activation as well as SmartCards based on all MIFARE Classic and MIFARE DESFire Standard media variants. Integrated button cells provide the power for up to 120,000 activations and up to 150,000 activations for transponders Smarthandle variant. Be it direct or virtual networking, active transponders or passive cards, global wireless networking in SimonsVoss WaveNet or a combination with existing SimonsVoss systems: the possibilities are limitless!

B. Design:

B.1. Advantages

The SimonsVoss Digital SmartHandle – SC with integrated RFID reader is a combination of a handle escutcheon and proven SimonsVoss Digital Cylinder electronics and technology. The design is streamline without protruding readers and is the most stylish design in the marketplace. SimonsVoss SmartHandle provides maximum technology, installation adaptability and application flexibility.

Security in design: The “brain” and communication components of the Smarthande are located at the secure side of the door. The advantages to this is it protects the electronics from being tampered with and minimizes vandalism as only limited passive reader is located on the exposed exterior face plate.

Enhanced Features: The new design includes the following feature enhancements:

- Snap-in (single screw assembly) (NO DRILLING REQUIRED)
- Easy and productive installation as there is no drilling required to install the SmartHandle
- Can be installed as a retrofit solution or new installation
- Hybrid & multiple credential technology: combination of active and passive
- Direct or virtual networking
- Weatherproof version available
- Wireless direct networking as part of a SimonsVoss WaveNet Network
- Can be utilized as virtual network/ multi-networking gateway
- Smallest dimensions and stylish design in the marketplace
- Available as a version, dimensions and handles types.
- Very wide range of applications (compatible with a lot of European standards for locks/doors)

C. Benefits to consumers:

C.1. Batteries

Ten (10) year stand-by and up to 120,000 activations for Smart Handles SC and up to 150,000 for Smart Handle active version. Eco-friendly with longest battery life in the market place. Additionally, as the SmartHandle is battery powered, users do not have to worry about system security during power outages.

The SmartHandle also has an intelligent built-in 3 tiers of battery management system including a back-up internal battery which provides sufficient audible warnings.

C.2. Flexibility in Implementation

The ultimate in flexibility, the SimonsVoss Digital SmartHandle can be installed in replacement of any European, Scandinavian, Swiss Round, British Oval profile mechanical key cylinder and handles while reusing existing mortise lockcases.

Typical installation is quick and efficient as there is only a single installation screw which utilize the typical mechanical key-way thus no drill or door modification is required. Typical installation can be completed within a few minutes while old and less sophisticated products could take 10, 15 or more minutes to install. Thus SimonsVoss delivers enhance installation productivity by upwards of 300%+!

C.3. No worries for lost keys

In the case of lost transponders, an overlay mode allows a replacement card or transponder to overwrite the original. The first use of a replacement transponder will automatically overwrite and block the lost (original) transponder.

The SimonsVoss Digital SmartHandle - SC can manage up to 64,000 media per cylinder and can be access via several options including Transponder, Mifare card, Pincode Keypad, Biometric Reader, Biometric Transponder and even by using an NFC iPhone application.

D. User-friendliness of product:

The SimonsVoss access system requires only three components to work;

1. digital SmartHandle,
2. transponder (active variant) or smart card (passive variant)
3. and programming via SimonsVoss software

A user just needs to activate their authorized transponder or tap their authorized card at the SmartHandle and push the handle down to unlock the door. (Refer to Annex A)

E. Significant of Unique feature:

- Eco-friendly – Longest battery life in the market place.
- Only dual reader technology in the world place, i.e. active and passive variant
- Stylish design
- Only system worldwide to be deployed as a standalone, multi-networking or direct networking (gateway) solution
- Easy and productive installation as there is no drilling required to install the SmartHandle
- Can be installed as a retrofit solution or new installation

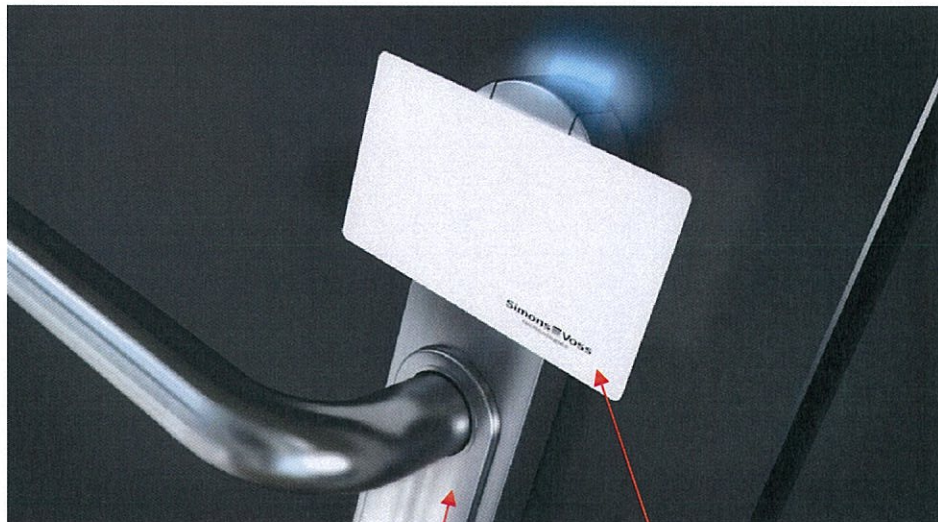
Annex A



SmartHandle

Transponder

Position the transponder within 40cm from the SmartHandle and press the button once. Two beeps indicating activation by pushing down the handle to unlock the door.



SmartHandle

Card

Tap the card on the top of the SmartHandle and hold. A blue light indicates activation by pushing down the handle to unlock the door.