

# small device

# BIG POSSIBILITIES



**SMUFS Biometric Solutions (SBS) is an Israeli startup, developing and manufacturing unique hardware and software biometric solutions, primarily in the mobile domain. When identification task is needed anytime anywhere.**

#### **SMUFS fingerprint scanner**

Our vision is to bring the world the social, economic and environmental benefits of digital authentication by making it easier for organizations to adopt biometric authentication. We're making this a reality by developing a new generation of ultra-reliable, ultra-secure and cost-effective mobile biometric fingerprint solutions.

#### **NBBS unique server - an authentication plug & play server.**

NBBS exposes the strength of each plugged in algorithm while compensating for its weakness by using alternate algorithms. It exposes an easy to use API and hides the complications of learning different algorithm interfaces. It is capable of extracting and matching finger, face and iris scans.

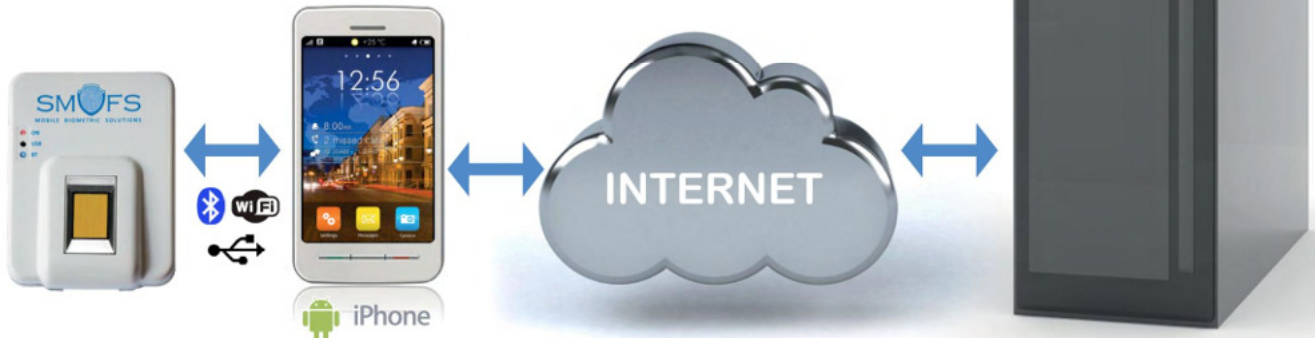
#### **SBS solutions are suitable for the following application areas:**

- Mobile law enforcement
- Hospitals and health Centers
- Paperless ID
- Remote workforce attendance
- Access Control
- Forensics
- Governmental & UN food and healthcare distribution
- Disaster scene management
- Border Control
- Insurance and finance

# We can customize our products to your needs, from stand-alone identity to large scale AFIS requirements.

## Default options:

- Working off-line, when no internet or GSM service are available
- Durable shell constructed of ABS Plastic
- Lightweight – weighs in at just 250g/5lbs
- 256 bit grayscale, 508 dpi image
- Built-in 1200 mAh Lithium Ion rechargeable battery
- USB cable provided for recharging on the fly
- FBI standard compliant fingerprint sensor
- Suitable for demanding 1:N verification challenges
- USB OTG interface
- Works as a regular USB scanner
- Lightweight – weighs in at just 90g/2lbs
- Size – 6.5x8.5x2.5 cm



## Communication options:

### SMUFS BT

- Class 2 Bluetooth 2.1
- Compatible to most phones having Bluetooth 1.1+
- Range of about 10m

### SMUFS Wi-Fi

- Wi-Fi 802.11b/g/n
- On the field WLAN communication
- Compatible with all phones having wireless capability
- Supports IEEE 802.11b/g/n compatible networks
- WEP64; WEP128; WPA-PSK; WPA2-PSK; WPA-TLS; WPA2-TLS;

## Image data options:

### SMUFS BT/Wi-Fi RAW

- RAW(Grayscale) image format
- Image processing that improves quality

### SMUFS BT/Wi-Fi WSQ

- WSQ compression (FBI's Wavelet Scalar Quantization)

### SMUFS BT/Wi-Fi PRO

- Conversion to a template format
- ISO/IEC 19794-2:2005 or ANSI/INCITS 378-2004

## NBBS - Network based Multi algorithm biometric Server

- Each 1:N identification reconfirm with 1:1 identification
- Reduces the over-all FAR (false acceptance rate) to practically 0
- Tremendously improves biometric matching speed
- Compatible ISO templates or WSQ images
- Adjust to the changing impressions of the users over time
- May be used as de-duplicated server for any existing database

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