

# VeinID SCANNERS FOR DIGITAL SIGNING

**Hitachi's VeinID Solution** for signing digital transactions enables new levels of security and user convenience.



A POWERFUL COMBINATION OF FIXED AND WIRELESS BIOMETRIC SCANNER, PUBLIC KEY INFRASTRUCTURE (PKI) COMPONENTS AND A HARDENED, SIGN-WHAT-YOU-SEE (SWYS) BROWSER PLUG-IN, PROVIDES UNRIVALLED SECURITY FOR THE AUTHENTICATION AND CREATION OF DIGITAL SIGNATURES.

THE VeinID SOFTWARE IS STRAIGHTFORWARD TO INTEGRATE WITH EITHER THE WIRELESS SCANNER OR USB SCANNER, THIS ACCURATE, SECURE AND EASY TO USE SOLUTION IS A POWERFUL OPTION FOR USER LOGIN AND FOR THE SIGNING OF ALL TYPES OF DIGITAL TRANSACTIONS.







#### ORGANISATIONS CAN USE THIS SOLUTION TO TRANSACT AND AUTHENTICATE SOLVING THE FOLLOWING SECURITY CHALLENGES:

- **1. Links the individual clearly to the transaction** Replaces the PIN with authentication of identity via a high-performance biometric.
- **2.** Achieves individual non-repudiation Eliminating card-sharing. Eliminates data and PIN sharing with 3rd parties.
- **3.** Delivers Customer Self Service Generate keys and certificates on-site, at user enrolment.

#### 4. Simplified card management and lower costs

Takes the Card Company away from the centre of the process and allows cards to be procured from multiple vendors.

#### 5. Low impact

Build on standard authentication platforms and protocols such as PKCS#11 with minimal footprint on endpoints.

### SOLUTION



POWERFUL BIOMETRIC

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CRYPTOGRAPHIC SIM



SIGN WHAT YOU SEE



## **OPERATIONAL BENEFITS**

#### TWO OPTIONS FOR PRE-PERSONALISATION OF THE CARD APPLET (CREATION AND LOADING OF THE PUBLIC/PRIVATE RSA KEY PAIR:)

Pre-personalisation by a preferred card issuer who loads the CAP, generates a private key, loads the certificate, sets up the initial PIN for transmission to the user who then "self-personalises" the card during the registration process.



Loading is done by the user via web applications. It controls the user registration process and manages the user interface and data elements during the signing process. In line with the industry move away from browser plug-ins, Hitachi intends to update this component.

#### THIS APPROACH OFFERS:



Improved cost efficiency of smart card procurement and simplified card management process.



Transaction approval and signing process is fast - leading to improved productivity for end-users, also large numbers of transactions can be processed in a single authentication step.



# SYSTEM ARCHITECTURE



# HITACHI Inspire the Next

# **SECURITY BENEFITS**

VeinID Scanners Brochure



For corporate banking applications and financial transaction processing, it enables a blend of PKI and biometric authentication, providing a high level of assurance for the control of user access to online systems and services.



In addition, individual non repudiation is a key element in combating the impact of potentially fraudulent transactions.



Users cannot share passwords, PINs or smart cards preventing identity theft for the purpose of fraudulent access.



Single or multiple transactions can be approved and digitally signed in a fast and effective manner.



Digital signatures can be validated in back office systems to ensure that no tampering occurs with transaction data.



The web-browser plug-in includes security features to prevent overlays, detect loss of window focus and ensure integrity of the presented data.



# **TECHNICAL DATA**

ITEM	FVID SIGN DESKTOP	FVID SIGN CONNECT
Model Number	PC - KCB110	PC-KCM50
Use Case	Desktop	Portable
Connectivity	USB 2.0/USB 1.1	USB 1.1 + <b>Bluetooth</b> <sup>®</sup> low energy technology (Class 2 (10m))
Data Transfer Speed	High Speed Mode: 480 Mbps Full Speed Mode: 12 Mbps	Full Speed Mode: 12 Mbps
Lighting Conditions	Avoid direct sunlight (under 4,000 Lx)	Avoid direct sunlight (under 4,000 Lx)
Image Capture/Processing	CMOS/in device	CMOS/in device
PKI Support and Biometric Matching	on-SIM	on-SIM
Verification Time (Approx)	Less than 2 seconds	Less than 2 seconds
Operating Conditions: Temperature	5 - 35 °C	5 - 35 °C
Operating Conditions: Humidity	20 - 80% (Non Condensing)	20 - 80% (Non Condensing)
Power DC 5.0V +/- 5% <500 mA	Via USB	Via USB or rechargeable Li-Ion battery (750mAh)
Cable	1.8m USB Type A/mini-B	1.0m USB Type A/micro-B
Size mm (H x W x D)	74 x 59 x 82	18 x 55 x 91
Weight (g)	102	75
User Interface Features	LED, Buzzer, SIM Slot	LED, Buzzer, SIM Slot, OLED Display (192 x 64 pixels)
Standards	FCC Part 15B, ICES, CE, RoHS, Reach	FCC Part 15B/C, ICES, CE, RoHS, Reach
Physical Security	Kensington Slot	N/A

# CLIENT O/S SUPPORT

PLATFORM	BROWSER/OTHER	FVID SIGN DESKTOP	FVID SIGN CONNECT
Windows O/S details as follows:	Internet Explorer & Firefox J	V	V
SP/Update:			
Windows 7: SP1 Windows 8: Update Windows 10: Anniversary Update (Ver.1607)			
Mac OS X 10.9, 10.10, 10.11	Safari	<b>v</b>	<b>v</b>
Citrix Receiver Windows		<b>v</b>	<b>v</b>
Citrix Receiver Mac		<b>v</b>	<b>v</b>
Visit our website for a list of supported smartphones/tablets	Library for APP Integration		$\checkmark$
For other O/S please contact us			

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)



#### FURTHER INFORMATION

Please contact Hitachi Europe Limited for further information about Hitachi's finger vein technology, applications and devices.

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