

White paper

FUJITSU PalmSecure™ ID Login DEVICE

Fujitsu PalmSecure™ ID Login family contains all biometric logical access control solutions. The solution ID Login DEVICE uses the Fujitsu PalmSecure™ palm vein recognition technology and provides secure, simple to use and convenient Windows or Linux login and remote desktop access. By using ID Login DEVICE, the maximum level of security can be provided with the wave of the hand.

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Fujitsu PalmSecure™ ID Login DEVICE

Login with the wave of a hand

Fujitsu PalmSecure™ - Your security is in your hand

Personal authentication became a significant part of corporate life, from computer login to cash withdrawal, access control and online transactions just to mention a few. For this reason, a secure, fast, easy to use and reliable solution is essential to provide the adequate security level. ID Login DEVICE is exactly offering this as it is based on Fujitsu PalmSecure™ palm vein recognition technology, one of the most unique physical biometric characteristics

Important aspects for choosing the most suitable biometric system

■ Universality

Everybody should be able to be identified: Most users have at least one hand.

■ Uniqueness

The biometric pattern should be as unique as possible to ensure the maximum level of security: The palm vein recognition based system identifies the vein pattern under the skin of the palm, which is one of the most unique biometric IDs.

■ Stability

The biometric ID should be stable: Palm veins remain stable statistically from the age of 16, therefore a person needs to be registered in one system in general only once in a lifetime.

■ Convenience

The biometric system should be easy to use: Fujitsu PalmSecure™ palm vein recognition is an intuitive and hygienic system.

ID Login DEVICE – introduction

Besides minimising security risks, ID Login DEVICE can be also deployed to protect intellectual property and prevent unauthorised access to data, ensuring an ideal solution for a wide range of markets. From corporate environments to the pharmaceutical and chemical industry, critical infrastructures, state sector, healthcare, justice and financial institutions, ID Login DEVICE can be used in many fields of life. By using this solution, the administrative burden of the IT department can be decreased, ensuring increased efficiency for the IT staff and the users. As ID Login DEVICE is Active Directory compatible, access and rights management can be managed with one user platform as well as domain management. For a corporate security solution package, ID Login solutions can be additionally combined with ID LifePass and ID Access.

ID Login DEVICE – computer login into Fat Clients

Based on the Fujitsu PalmSecure™ ID Login family, ID Login DEVICE ensures secure, fast, easy to use and convenient Windows login into Fat Clients. ID Login DEVICE provides two login methods to access the computer:

1. user name and palm vein template (no password) or the
2. traditional user name with password or palm vein recognition.

By using the first method, the maximum password length of Active Directory (127 characters) will be changed after each login with a randomly generated password from the user's biometric template,

thus every AD password is a onetime key. Using the second login method, biometric authentication is a convenient solution because the user does not have to type in the password each time (more difficult to steal).

ID Login DEVICE – biometric remote desktop access via Thin Clients

ID Login DEVICE also provides biometric remote desktop access via Thin Clients. Based on the Fujitsu PalmSecure™ palm vein recognition technology, the user only needs his/her hand for authentication, ensuring an outstanding level of security, ease of use and convenience. In case of Thin Clients, Remote Desktop Protocol (RDP) is provided via Citrix and VMware systems. For further information about thin client compatibility, please contact us.



Following operation systems are compatible with ID Login DEVICE

- Windows 8, 8.1, Windows 10 (both 32 or 64 bit supported)
- Ubuntu 16
- IGEL OS11

Main benefits of using ID Login DEVICE

- FRR 0,01%, FAR 0,00001%
- Vein ID cannot be stolen, copied, reproduced
- ~1 second biometric authentication time
- No need for passwords (can be combined)
- Can be integrated with other IT security systems
- Active Directory compatible. Access and rights management can be managed on one platform as well as domain management
- Password related security risks are eliminated
- Ideal solution for large number of users
- Can be combined with other solutions based on PalmSecure™

Main fields of use of ID Login DEVICE:

- Office buildings
- IT data centres
- Healthcare, hospitals
- Schools, universities, R&D centres
- Justice buildings, correctional facilities
- Sport venues
- State sector/critical infrastructure, airports
- Factories, oil refineries, construction sites
- Financial institutions
- Pharmaceutical and chemical industry
- Military

Features and benefits

ID Login DEVICE in a nutshell

Highly secure



Based on the Fujitsu PalmSecure™ technology, ID Login DEVICE ensures the maximum level of security in personal authentication with the wave of the hand.

User-friendly



ID Login DEVICE is just as convenient as using a card or token, but the client does not have to worry about lost or stolen credentials.

Active Directory compatible



ID Login DEVICE is Active Directory compatible, thus access and right management can be performed via single user interface together with domain management.

Simple to use



ID Login DEVICE can be easily used by anyone who is positioning his hand above the sensor.

Easy to integrate



ID Login DEVICE can be integrated into other IT security systems.

Fast authentication



ID Login DEVICE ensures ~1 second biometric authentication time, which is faster than almost any other solutions.

Main features

- Online, offline operation
- Unlimited numbers of users
- 1:1 or 1:n authentication
- 1:1 multifactor authentication is also possible
- ~1 second biometric authentication time

Benefits

- Highest security in biometrics, FAR 0.00001%, FRR 0.01%
- No need to remember complicated passwords, therefore a convenient solution
- Can be easily used by anyone, regardless of age (above 5) or abilities
- Compatible with most Windows systems, easy to integrate
- Users need to be registered in one system in general only once in a lifetime
- Multifactor authentication system can be created (e.g. combining password, token and palm vein recognition)
- Active Directory compatible
- Can be combined with ID LifePass and ID Access as a corporate security solution package

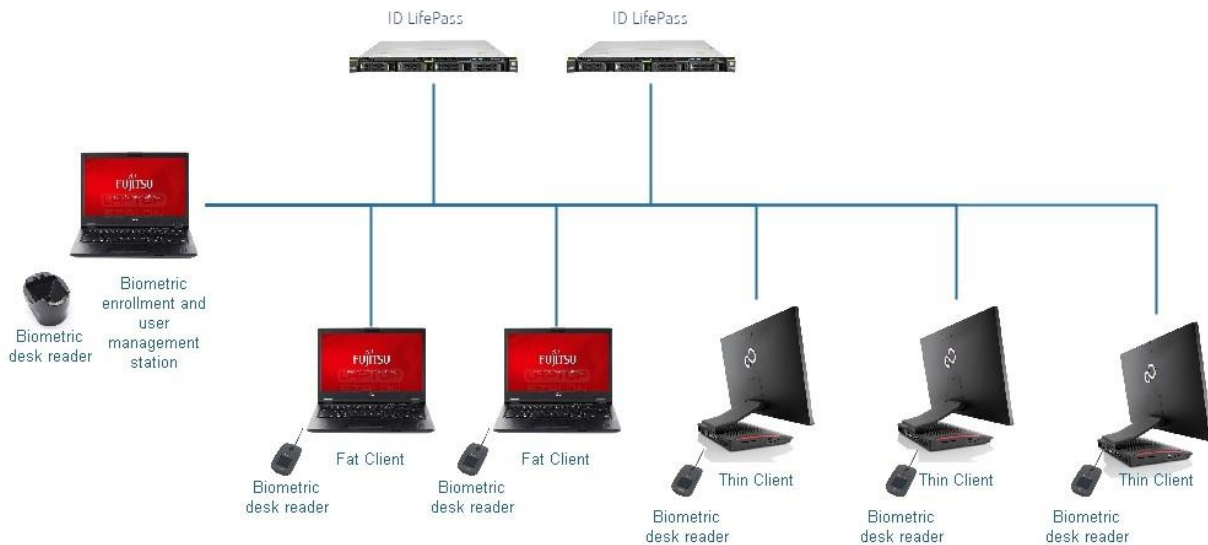
Security features

All components of ID Login DEVICE are protected by state of the art technology security mechanisms. It uses a three-level encryption (biometric template, communication, database). The system management software does not use passwords, it can be accessed only via palm vein recognition.

Technical Details

	Fat Clients	Thin Clients
Supported operating system	Windows 8, Windows 10 (32 or 64 bit supported)	IGEL OS11, Ubuntu 16
Rights management	Via Active Directory. On request, it can be supplied without AD connection/right management.	Via Active Directory. On request, it can be supplied without AD connection/right management.
Database	MS-SQL 2012 or higher, PostgreSQL 9.6	MS-SQL 2012 or higher, PostgreSQL 9.6
Active Directory	Completely compatible	Completely compatible
Stand alone	Only one person can have access in case of offline mode	Only online access
Necessary hardware	Mouse with palm vein sensor or desk terminal + 1 USB port	Mouse with palm vein sensor or desk terminal + 1 USB port
Possible authentication procedure	Verification (1:1)	Identification (1:n)

System architecture



Main elements

U Guide	Registration desk terminal.
Foldable hand guide	Biometric authentication device.
Mouse	Biometric authentication device.
Server	Any virtual or physical server operating on Microsoft Server platform.
ID LifePass Login	Central server software for system administration, central identification and logging on the server.
Active Directory server	Palm vein templates can be assigned to users from Active Directory.
Working station	User's access to Windows. The owner of the working station can identify himself/herself even in offline mode. When using Active Directory only online identification is possible
ID Login DEVICE Client	Client software for each working station.
ID Login DEVICE AdminSuite	System/user management, registration interface.

Optional hardware

U Guide - biometric registration device

The U Guide is a biometric reader device, specialized in user enrolment processes. An additional F Pro OEM sensor is required for functionality. The intuitive design allows users to optimally position their hands for capturing. U Guide is perfect for high traffic locations, since hundreds of users have designed it for daily utilization and it is easy to install and maintain.



- 1) Place for additional Fujitsu PalmSecure™ F Pro OEM sensor
- 2) Finger rest (for optimal distance from sensor)
- 3) Hand rest (for the optimal hand positioning)

Foldable hand guide - biometric authentication device

The foldable hand guide provides simple, secure and fast biometric capturing. The excluded F Pro Standard sensor can be connected to the computing device via USB cable. The hand guide supports ideal hand positioning with finger and wrist guides, ensuring ease of use from the very first time. As it is small and easy portable, the hand guide provides an ideal solution for secure biometric authentication, computer login, access management or data protection in any place, where a maximum level of security solution is required.



- 1) Additional Fujitsu PalmSecure™ F Pro Standard sensor
- 2) Hand rest (for optimal distance from sensor)
- 3) Finger guide (for optimal distance from sensor)
- 4) USB cable

Mouse - biometric authentication device

The mouse is a biometric authentication device for IT security solutions. It ensures simple, secure and fast authentication by hovering one's hand above the vein sensor within the mouse. The mouse is an ideal solution for secure biometric authentication, computer login, access management or data protection just to name a few.



- 1) Fujitsu PalmSecure™ F Pro OEM sensor

Fujitsu Accessory Keyboard KB951 PalmM2

The KB951 keyboard is a modern USB keyboard with an integrated Fujitsu PalmSecure™ palm vein sensor for secure and reliable computer login. By using the KB951 keyboard, users can simply unlock their device by positioning their hands above the contactless scanner. The extremely slim, spill-resistant keyboard includes 12 additional multimedia keys, such as an on/off button and a palm rest for better ergonomics. The KB951 palm vein keyboard is an ideal solution for customers, who do not have a PC or notebook with an integrated palm vein sensor.



1) Fujitsu PalmSecure™ MP2 sensor

Fujitsu Client Computing Devices

Fujitsu offers a range of client computing devices featuring an embedded Fujitsu PalmSecure™ palm vein sensor (as an option) for outstanding security. The built-in biometric sensor protects the device from unauthorized access, as the device can be unlocked by the owner's unique palm vein template, which cannot be copied, reproduced or stolen.



1) Fujitsu PalmSecure™ sensor