Biometric Fingerprint for Windows Credential Provider

Contents

Overview

With Biometric for WCP, you can enrol the user's fingerprint or palm, use it as a 2FA, or just to identify the username.

Prerequisites

AuthControl Sentry v4.0.5 onwards

AuthControl Credential Provider v5.4.5 onwards

Windows 10

Nitgen biometric reader, Fujitsu PalmSecure-F Pro biometric reader or Laptop supporting biometric authentication (Windows Hello) with integrated fingerprint reader

Supported models

Nitgen Fingkey Hamster

Fujitsu PalmSecure-F Pro

Dell, HP and Lenovo Laptops with Windows 10 using Windows Biometric Framework

The following have been tested successfully:

- Dell Vostro 15 5568

- HP Probook 6550b

- Lenovo Thinkpad 13 Gen 2

- Lenovo Thinkpad T520

Nitgen Reader vs Laptop Reader

There are some relevant differences with both types of readers that need to be considered.

1) Enrolment

- Nitgen Reader: enrolment is done during the first login

- Laptop Reader: the user cannot be enrolled during login, so enrolment is done inside AuthControl Credential Provider Configuration

2) Authentication in multiple devices

- Nitgen Reader: allows to authenticate in several devices with only one enrolment

- Laptop Reader: enrolment in each one of the devices is necessary

Configuration for Nitgen Biometric Reader

Configure Third Party Authentication Nitgen

In AuthControl Sentry Management Console, add the following Third Party to Server > Third Party Authentication

Identifier: FingerprintNitgen

Class: com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen

Enabled: yes

Server>Third Party Authentication ⓘ

Please enter the details of any third party authentication methods to be used. Third party authentication all
place on top of the standard Sentry traffic.

Third parties:

⊞ WindowsGINA

⊟

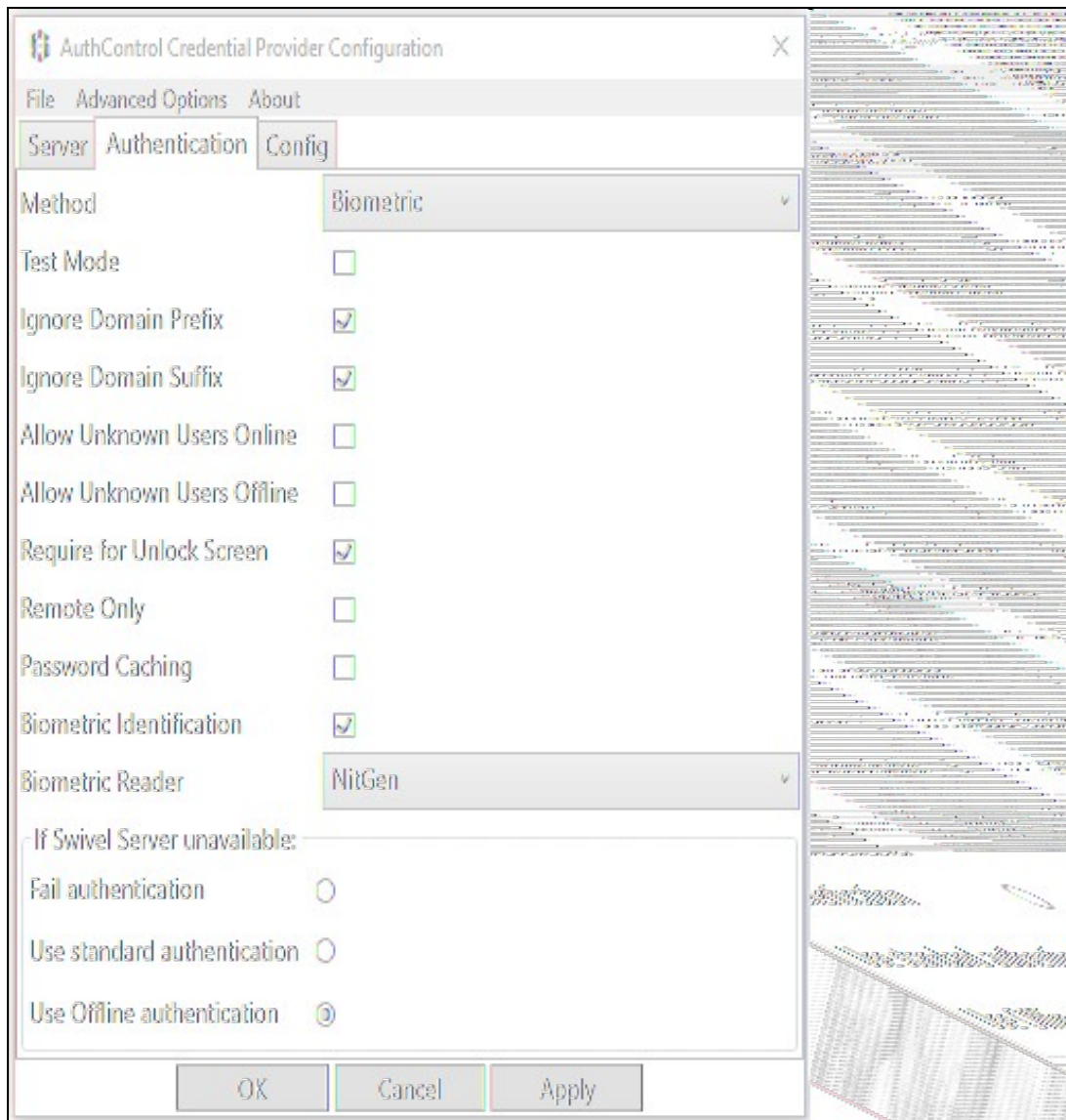|	
Identifier:	FingerprintNitgen
Class:	com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen
Enabled:	Yes ▾
Group:	---ANY--- ▾
License key:	

Configure Credential Provider

Select in Authentication -> Method the option "Biometric".

Select in Authentication -> Biometric Reader the option "Nitgen".

Enrol the user with Nitgen

When the user is not enrolled, the user is requested, after login with username and password, to enrol the fingerprint.

1) Select the finger to enrol

2) Place the finger on the sensor the necessary times untill the enrolment is successfull

Fingerprint Registration STEP1

Select the finger you wish to enroll by clicking once on the corresponding fingertip.

BACK   CANCEL

NITGEN
biometric solutions

Fingerprint Registration STEP2

◄ 1st Scan ►

◄ 2nd Scan ►

Place your finger on the sensor

► If your fingerprint appears too bright or dark, click "ADJUST".

ADJUST   BACK   CANCEL

NITGEN
biometric solutions

Authenticating with Nitgen

After authenticationg with username and password, when requested, place the finger on the sensor

Configuration for Laptop Biometric Reader

Configure Third Party Authentication

In AuthControl Sentry Management Console, add the following Third Party to Server > Third Party Authentication

Identifier: WinBioFingerprint

Class: com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen

Enabled: yes

Server>Third Party Authentication ⓘ

Please enter the details of any third party authentication methods to be used. Third party authentication all
place on top of the standard Sentry traffic.

Third parties:

⊞ WindowsGINA

⊞ FingerprintNitgen

⊟

|	
Identifier:	WinBioFingerprint
Class:	com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen
Enabled:	Yes ▾
Group:	---ANY--- ▾
License key:	

Disable Windows Hello

Windows Hello Biometric usage must be disabled in Local Group Policy:

- Access the Windows Local Group Policy Editor.

- Go to: Computer Configuration > Administrative Templates > Windows Components > Biometrics and disable the setting "Allow users to log on user biometrics".
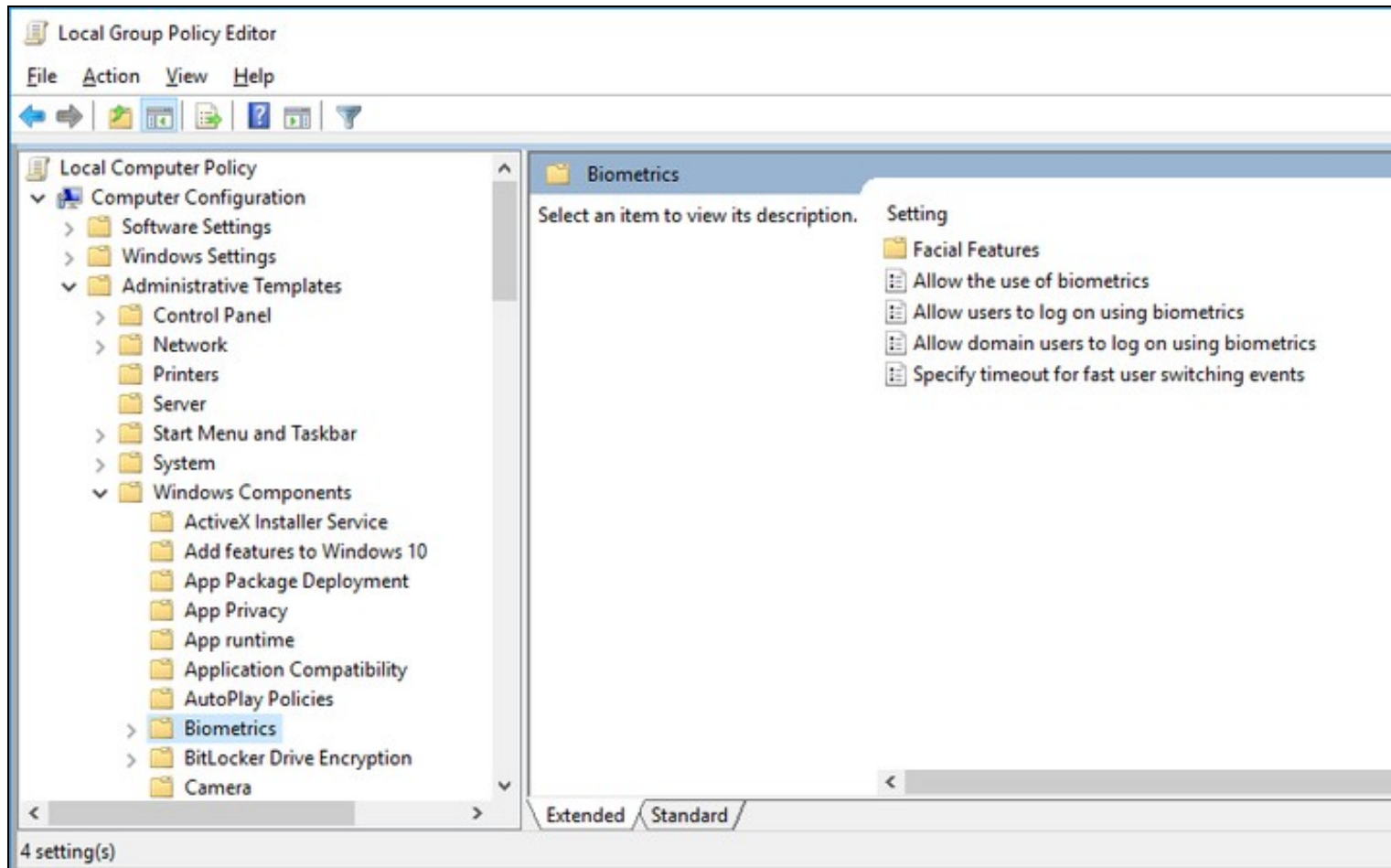
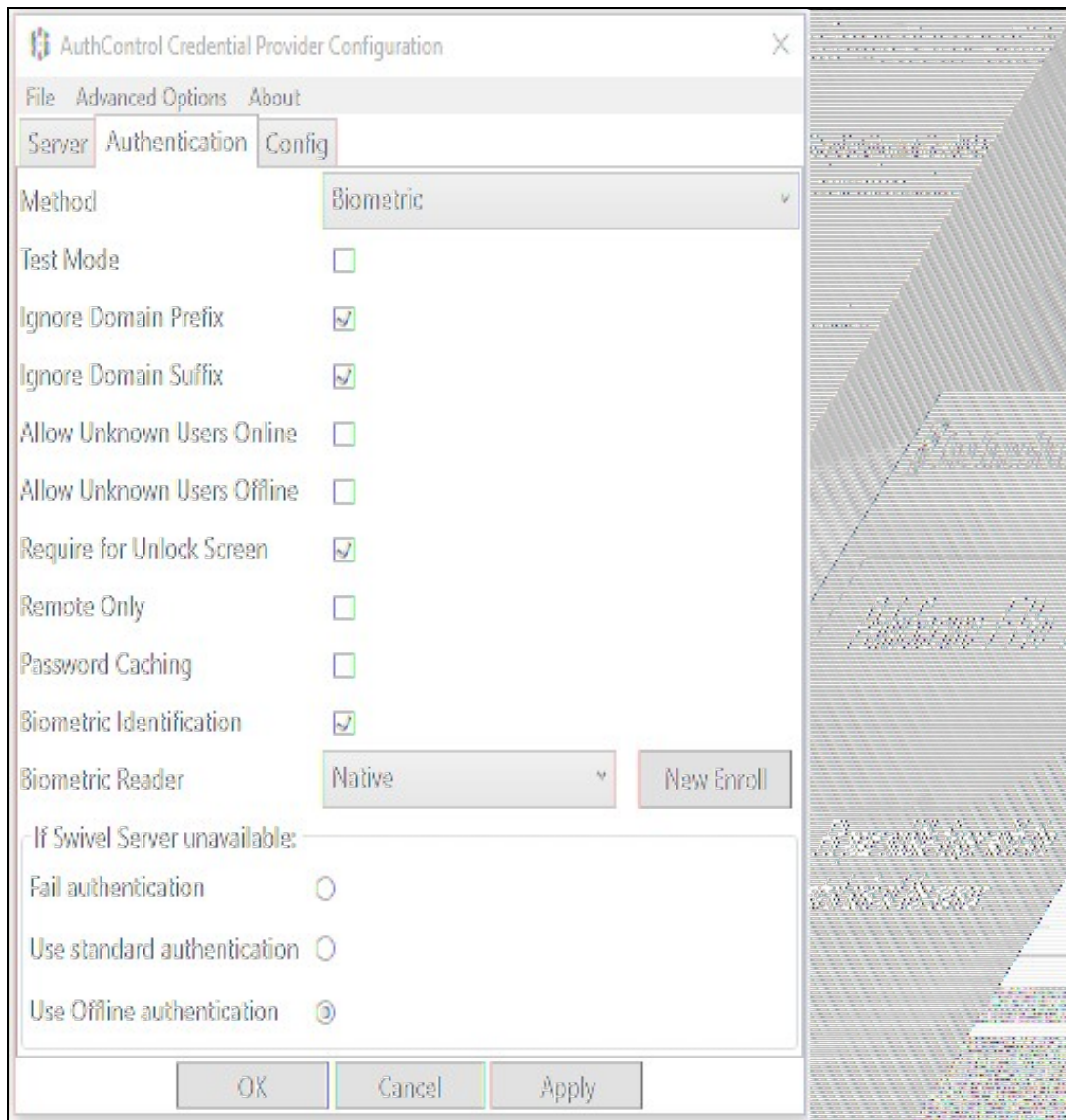**Install Credential Provider with Fingerprint Enrolment**
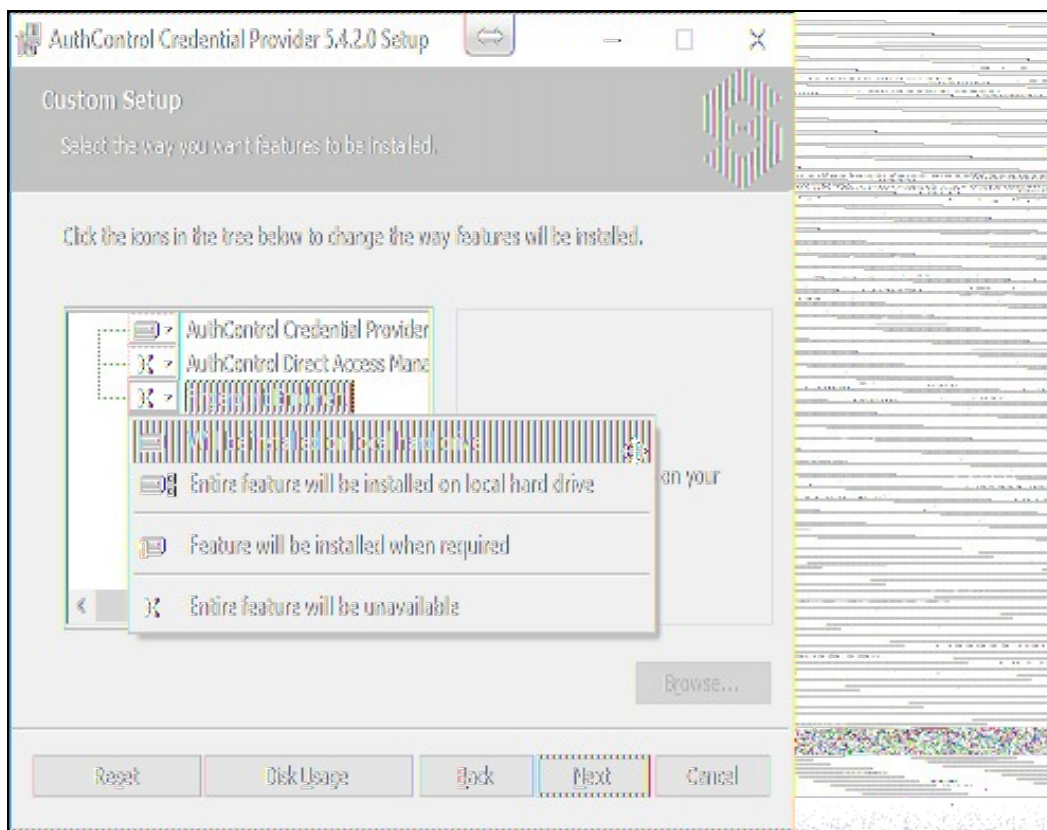
Configure Credential Provider

Select in Authentication -> Method the option "Biometric".

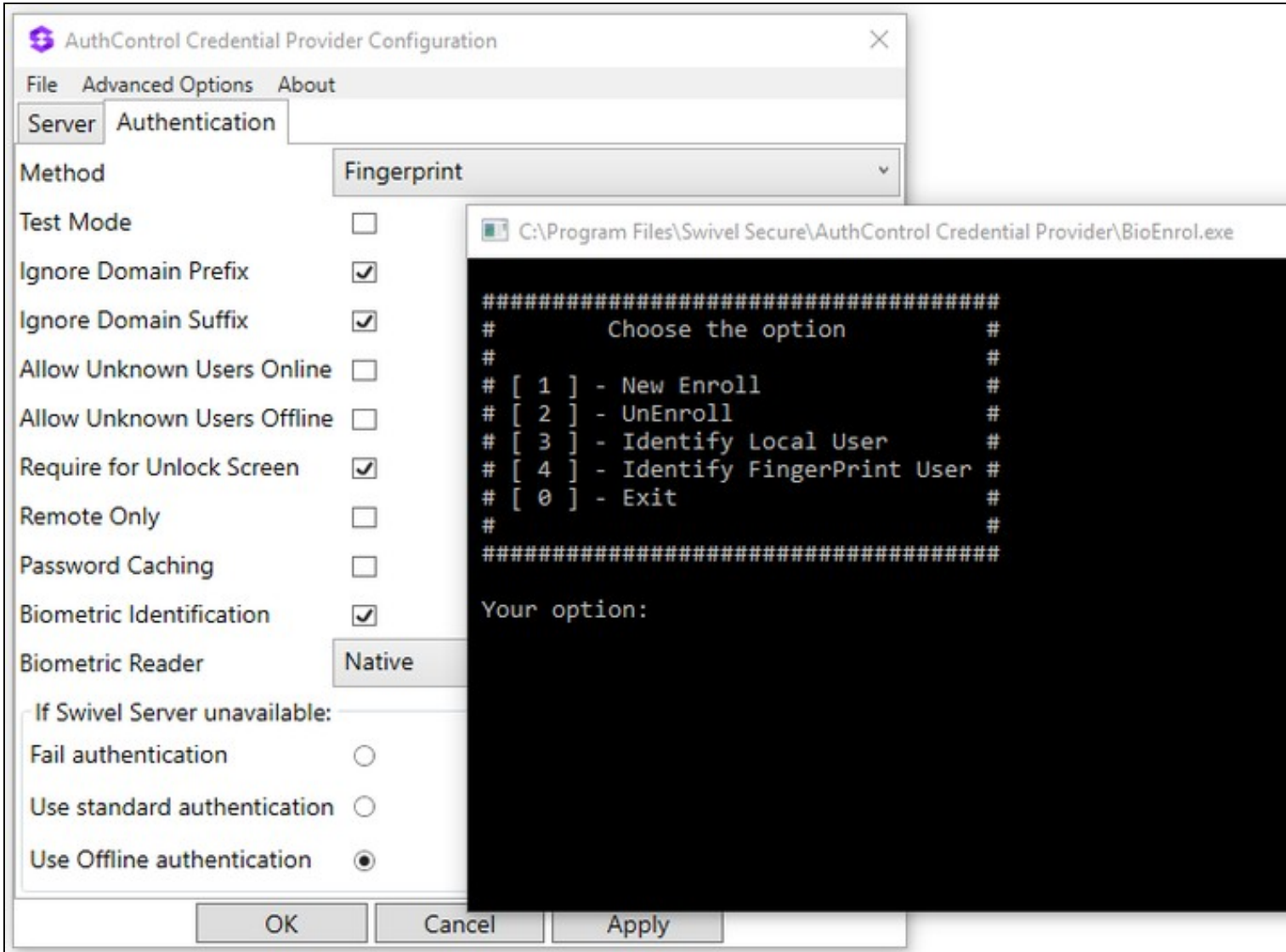Select in Authentication -> Biometric Reader the option "Native".

Click Apply.

Enrol the user

After selecting "Native" **and clicking Apply**, click in the button ?New Enroll? to open the "BioEnrol" executable.

Select option 1 to start a new enrol to current user and follow the steps presented.

Authenticating

With all configurations done, go to the Windows login page and access using your registered fingerprint when prompted.

Biometric Native

Swipe your finger

cccc →

Sign-in options

Configuration for Fujitsu PalmSecure-F Pro Biometric Reader

(This section is under construction / The Fujitsu PalmSecure-F Pro Biometric Reader is in Beta testing)

Configure Third Party Authentication PalmSecure

In AuthControl Sentry Management Console, add the following Third Party to Server > Third Party Authentication

Identifier: PalmSecureReader

Class: com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen
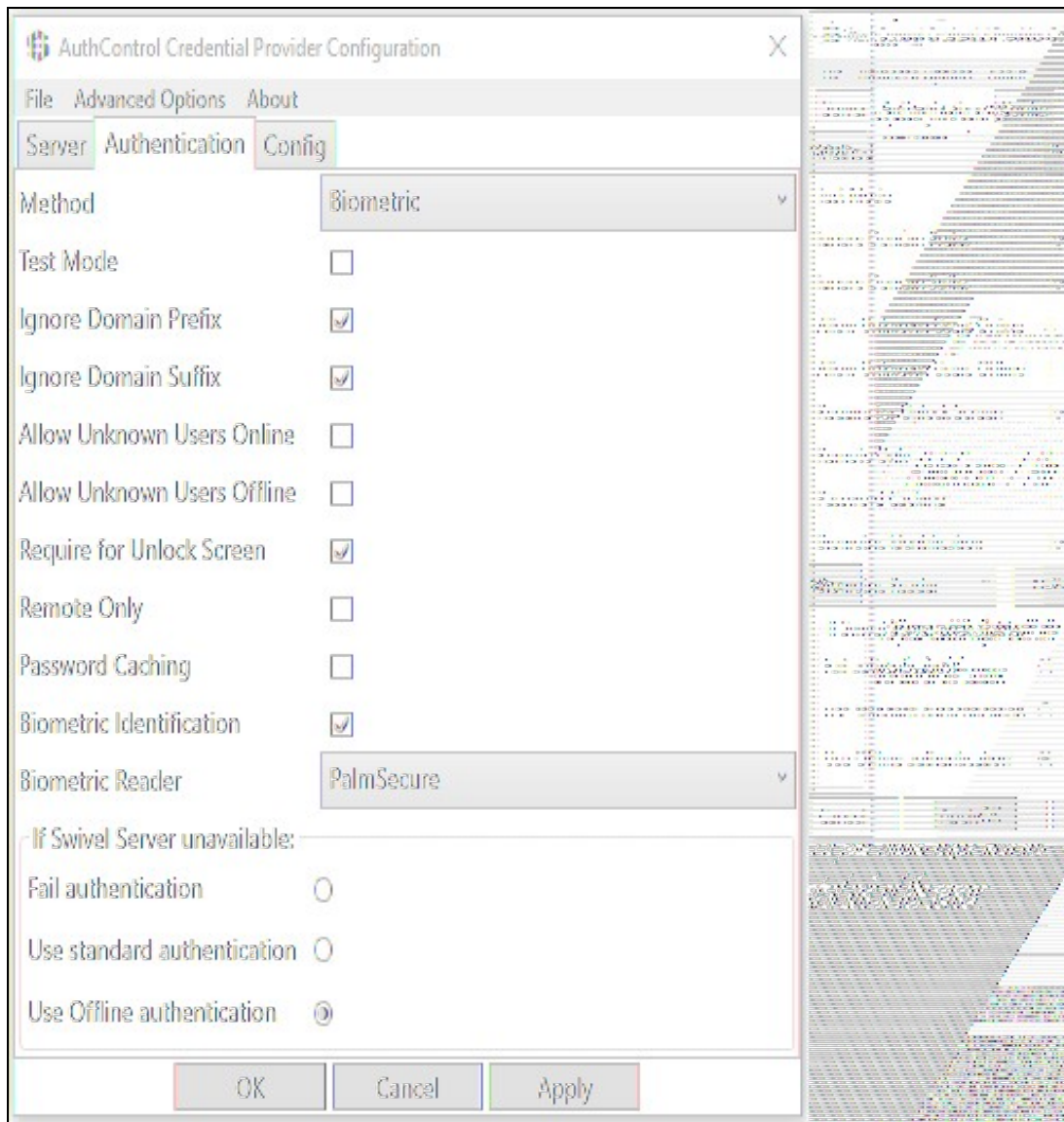
Enabled: yes

Configure Credential Provider PalmSecure

Select in Authentication -> Method the option "Biometric".

Select in Authentication -> Biometric Reader the option "PalmSecure".

Click Apply.

Enrolment with PalmSecure

Swivel Secure PalmSecure Application

PalmSecure-F Pro without Guide mode (B3)
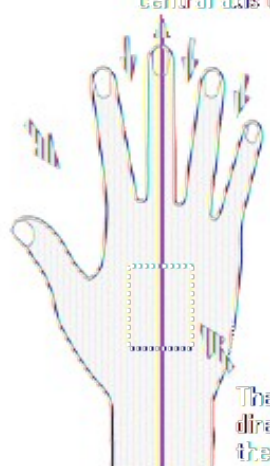

Place your hand

Cancel

veira

erprint

→

Sign-in options

Authenticating with PalmSecure

Swivel Secure PalmSecure Application

PalmSecure-F Pro without Guide mode (133)

Fit your middle finger with the central axis of the sensor.

The sensor should be directly under the palm center.

PalmAuthentication

Cancel

r.oliveira

Fingerprint

Sign-in options

Identification with PalmSecure

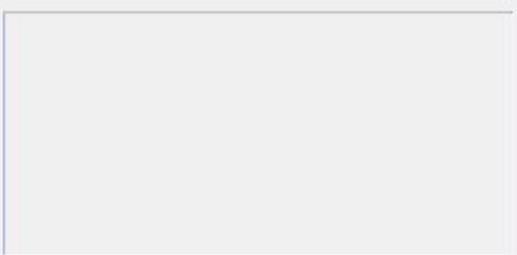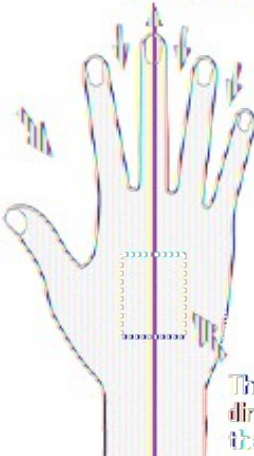## Swivel Secure PalmSecure Application

PalmSecure-F Pro without Guide mode (I33)

Fit your middle finger with the central axis of the sensor.

The sensor should be directly under the palm center.
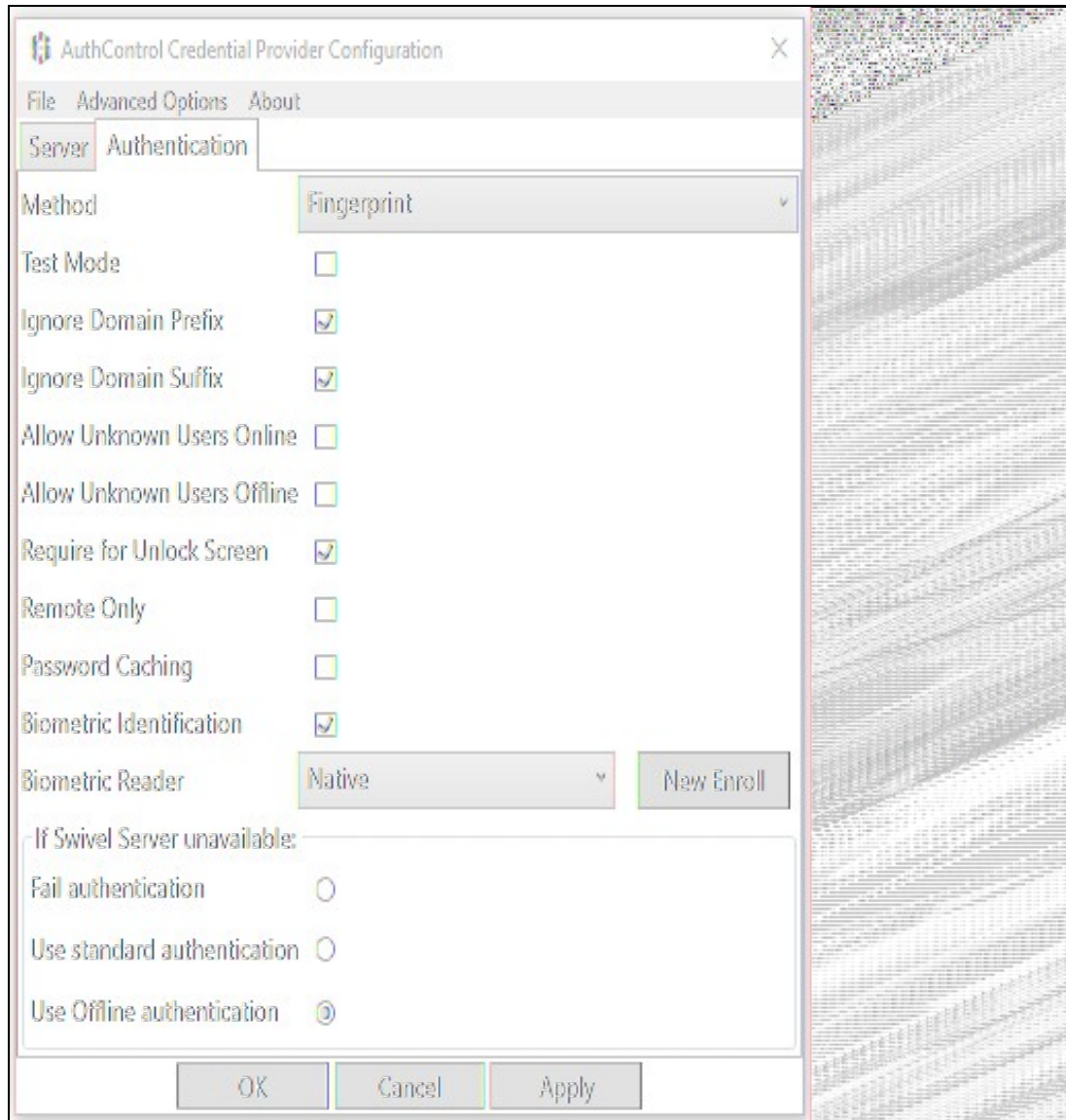
PalmPattern

Cancel

Other user

er name

sword →

Sign-in options

Biometric Identification

It's possible to use Biometric Identification instead of entering the username. First enable "Biometric Identification" under "Authentication" inside the Configuration.

When authenticating, select option "Read Fingerprint" and place your finger on the sensor when requested. If the fingerprint is enrolled, the username is automatically filled.

Removing user fingerprint

To remove a user fingerprint from the appliance, the administrator can go to User Administration, Select View -> Attributes, click the user and select "Remove fingerprint".

Sentry User Administration

Max No. Users:	200	(121 users in this repository)
Users per page:	100	
Repository:	Local XML	
State:	All	
username	Contains	user
Members of group:	---ANY---	
View:	Attributes	

Search

Username	SAPUsername	altusername	email	familyname	fingerprint	give...
user					01 05 00 00 00 00 00 05 15 00 00 00 a0 3kl 7kl 1f 19...	

Edit | Policy | Reset PIN | Reset Password | Remove fingerprint | View St...

Troubleshoot

If you have issues with enrolment on the Integrated Laptop Reader, you might need to stop "Windows Biometric Service" or "WbioSrvc" under your Windows Services and then delete the files located at "WinBioDatabase" in C:\Windows\System32\WinBioDatabase.