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

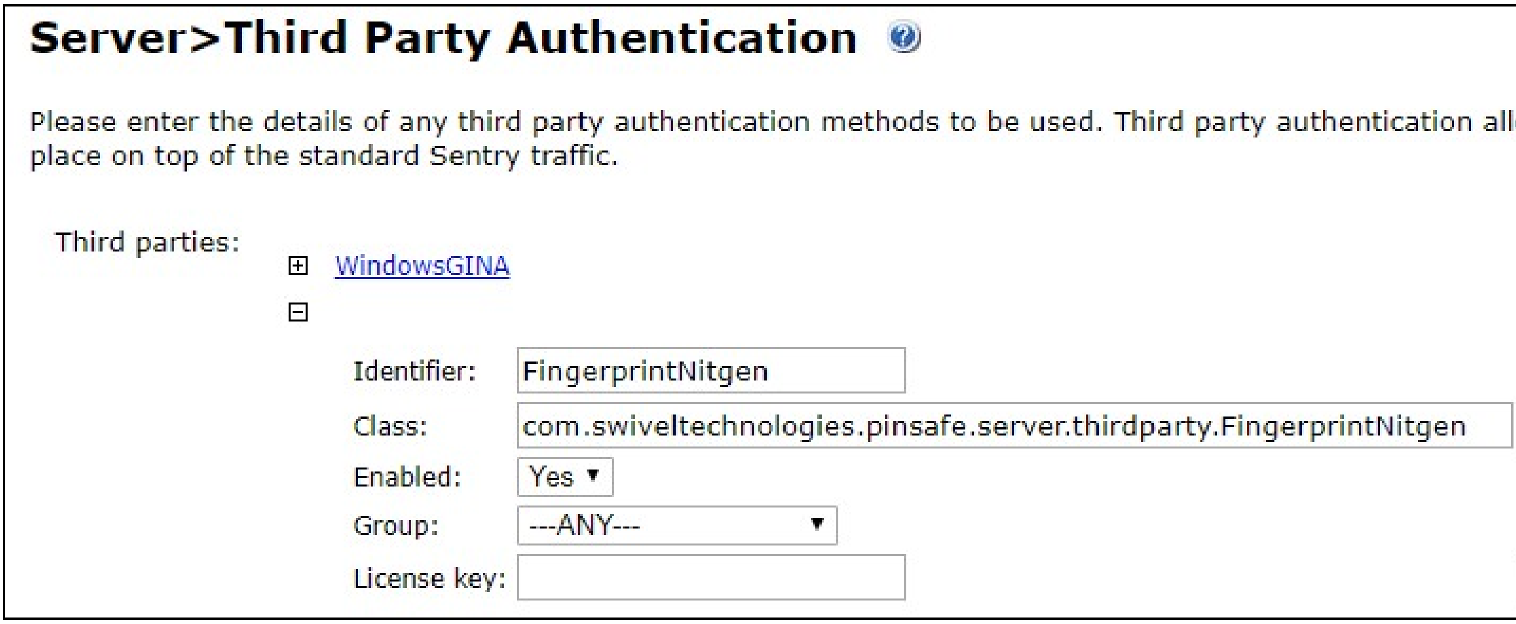
Configure Third Party Authentication Nitgen

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 ▾

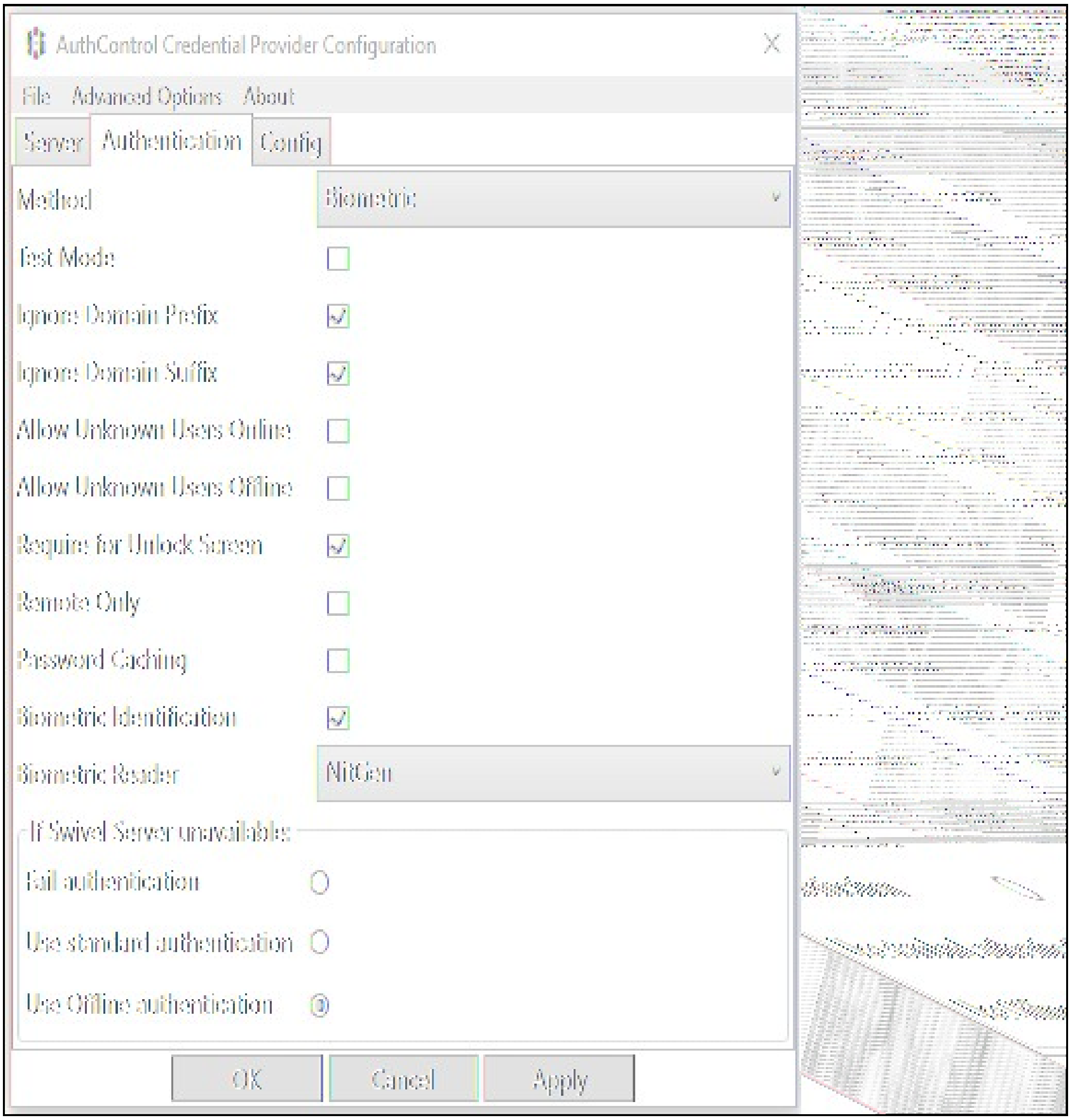
Group: ---ANY--- ▾

License key:

Configure Credential Provider

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

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



Method: Biometric

Test Mode □

Ignore Domain Prefix ☑

Ignore Domain Suffix ☑

Allow Unknown Users Online □

Allow Unknown Users Offline □

Require for Unlock Screen ☑

Remote Only □

Password Caching □

Biometric Identification ☑

Biometric Reader: NitGen

If Swivel Server unavailable:

Fail authentication ○

Use standard authentication ○

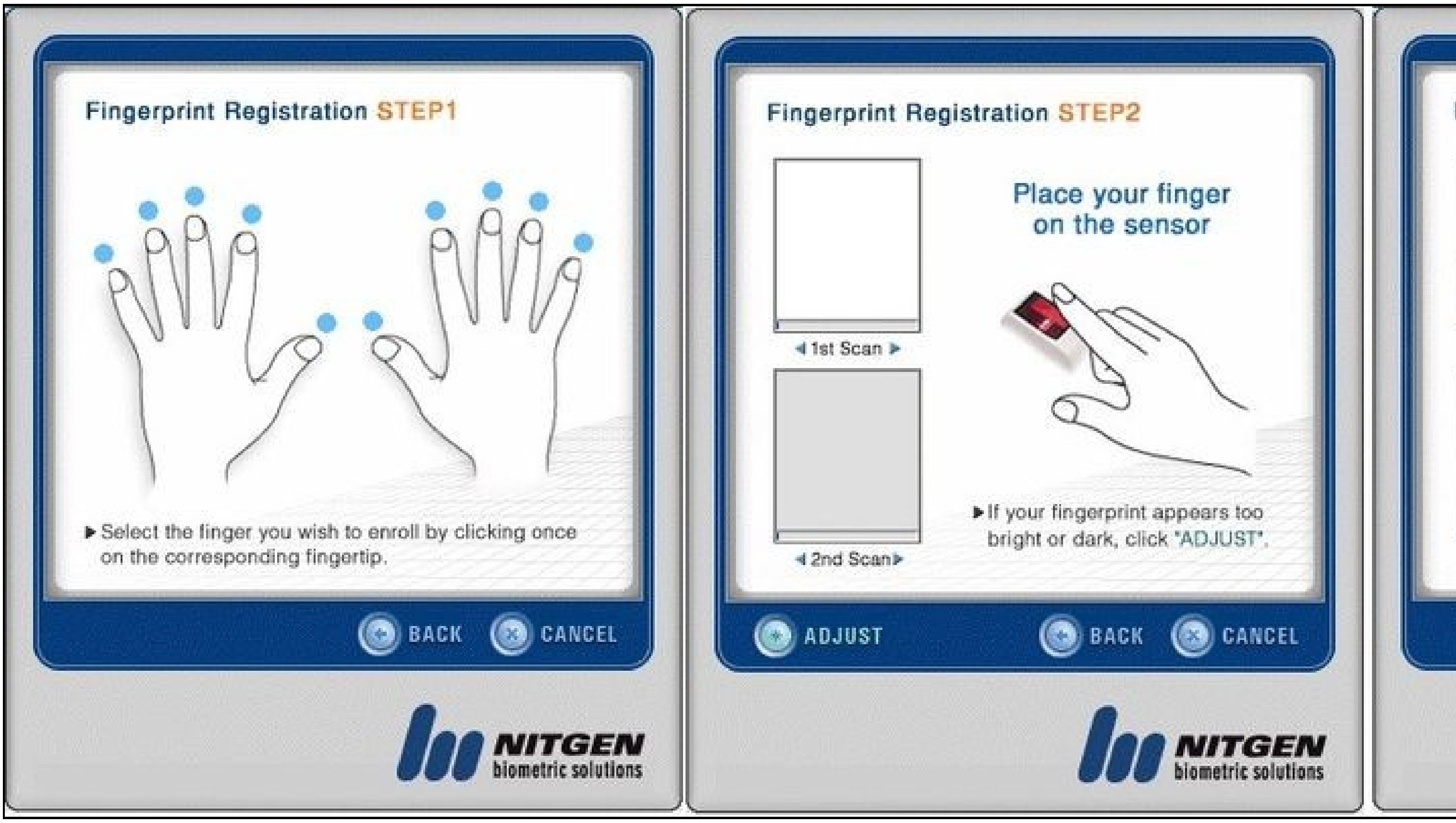
Use Offline authentication ●

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.

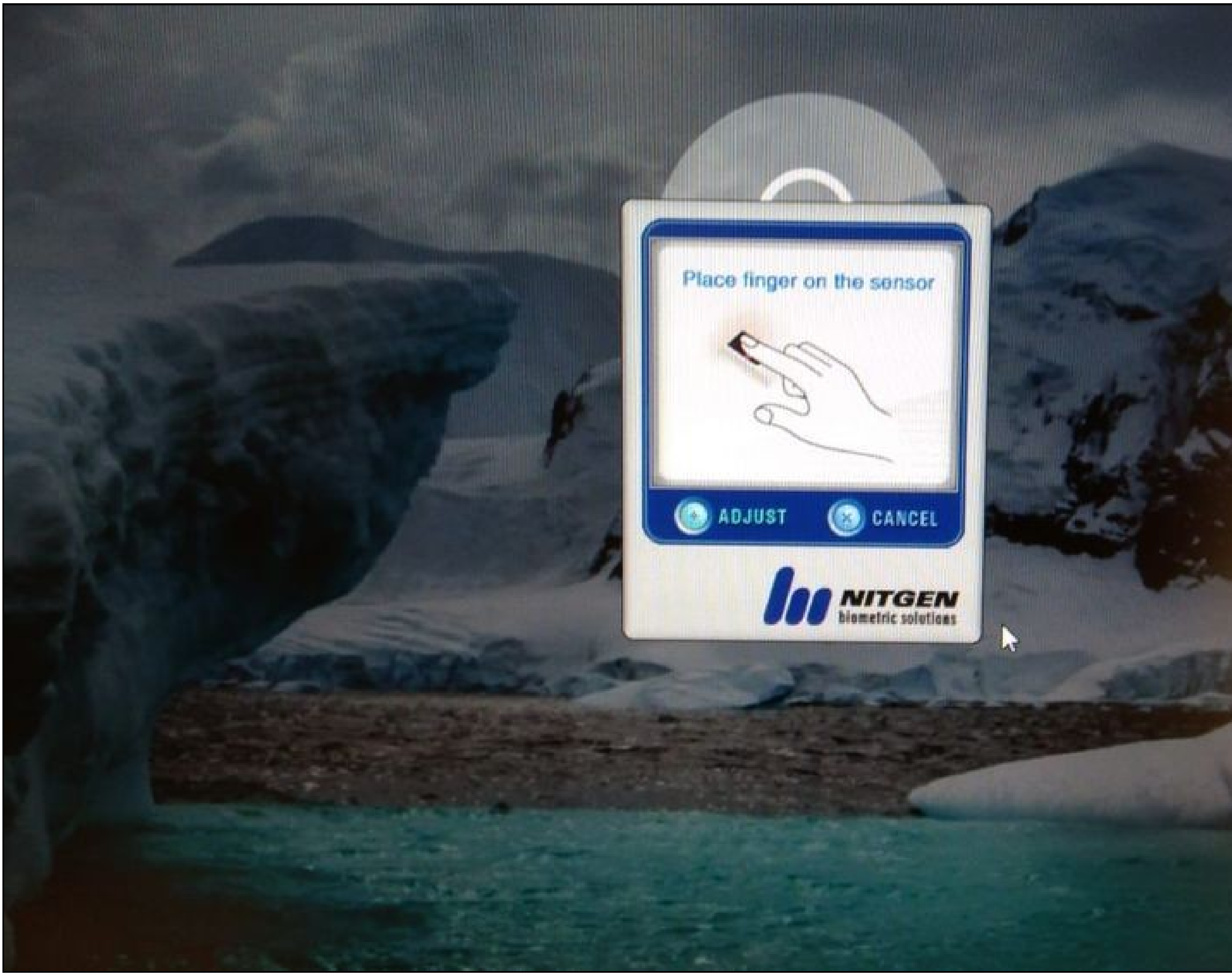
Fingerprint Registration STEP2

Place your finger on the sensor

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

Authenticating with Nitgen

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



Configuration for Laptop Biometric Reader

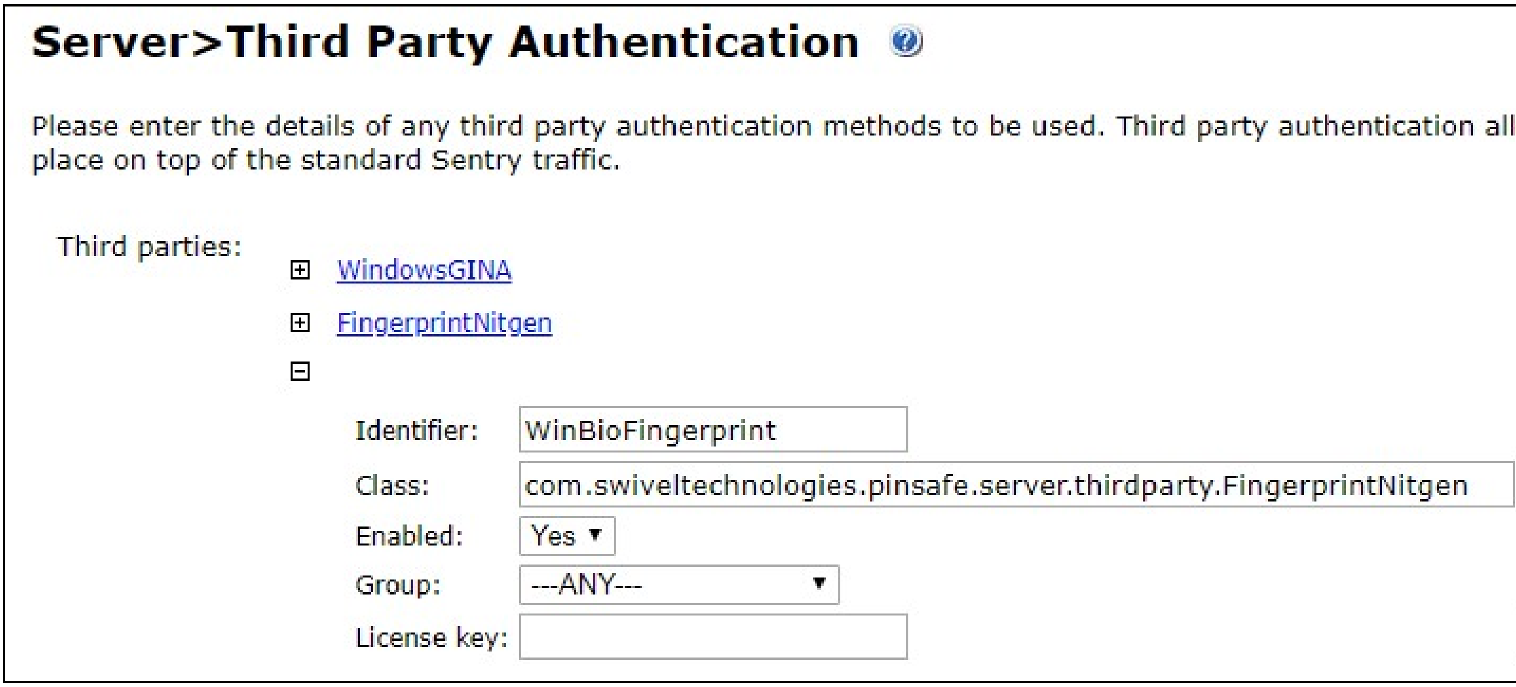
Configure Third Party Authentication

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

⊟

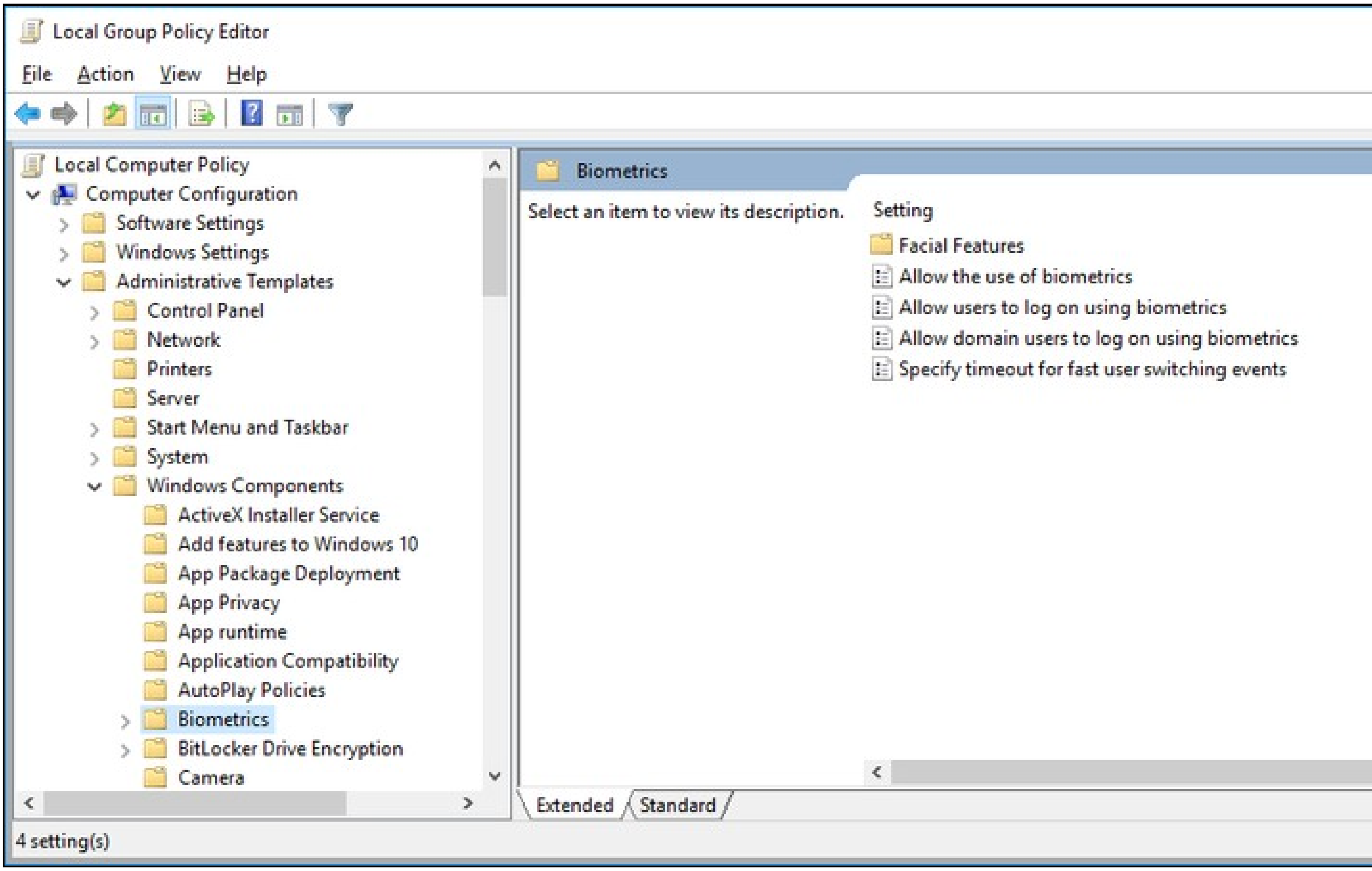
Identifier:	WinBioFingerprint
Class:	com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen
Enabled:	Yes ▾
Group:	---ANY--- ▾
License key:	

Disable Windows Hello

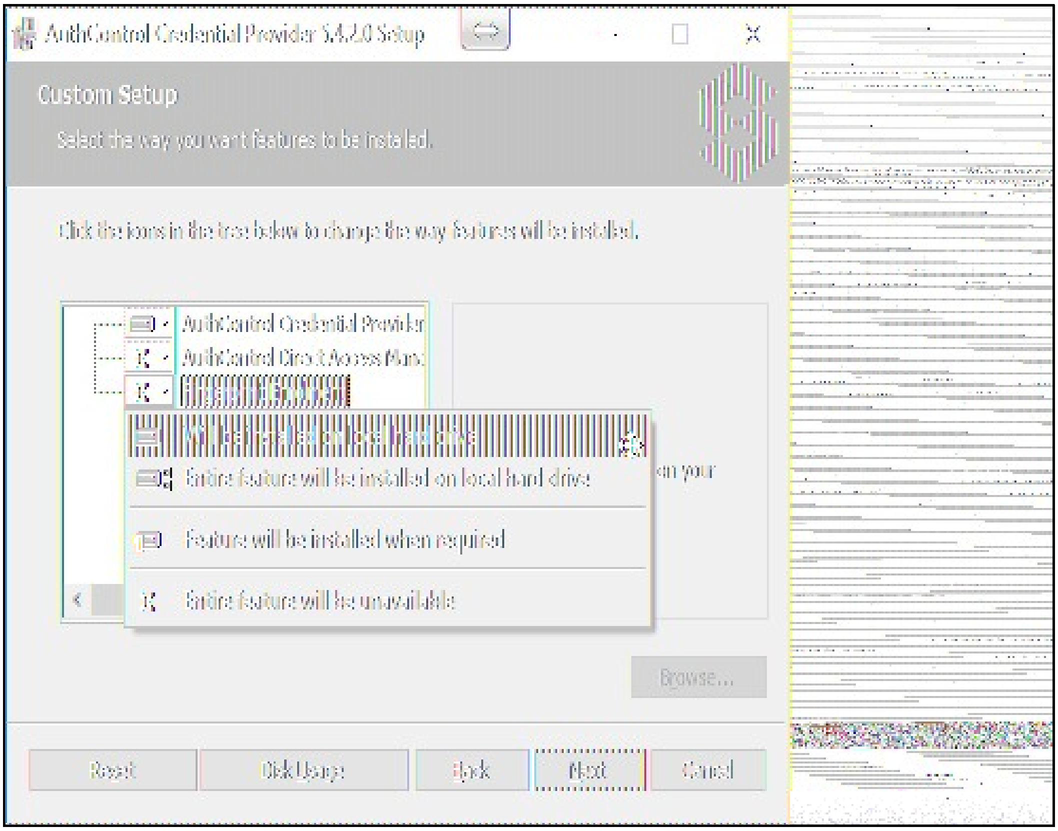
Windows Hello Biometric usage must be disabled in Local Group Policy:

- 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



AuthControl Credential Provider 5.4.2.0 Setup

Custom Setup

Select the way you want features to be installed.

Click the icons in the tree below to change the way features will be installed.

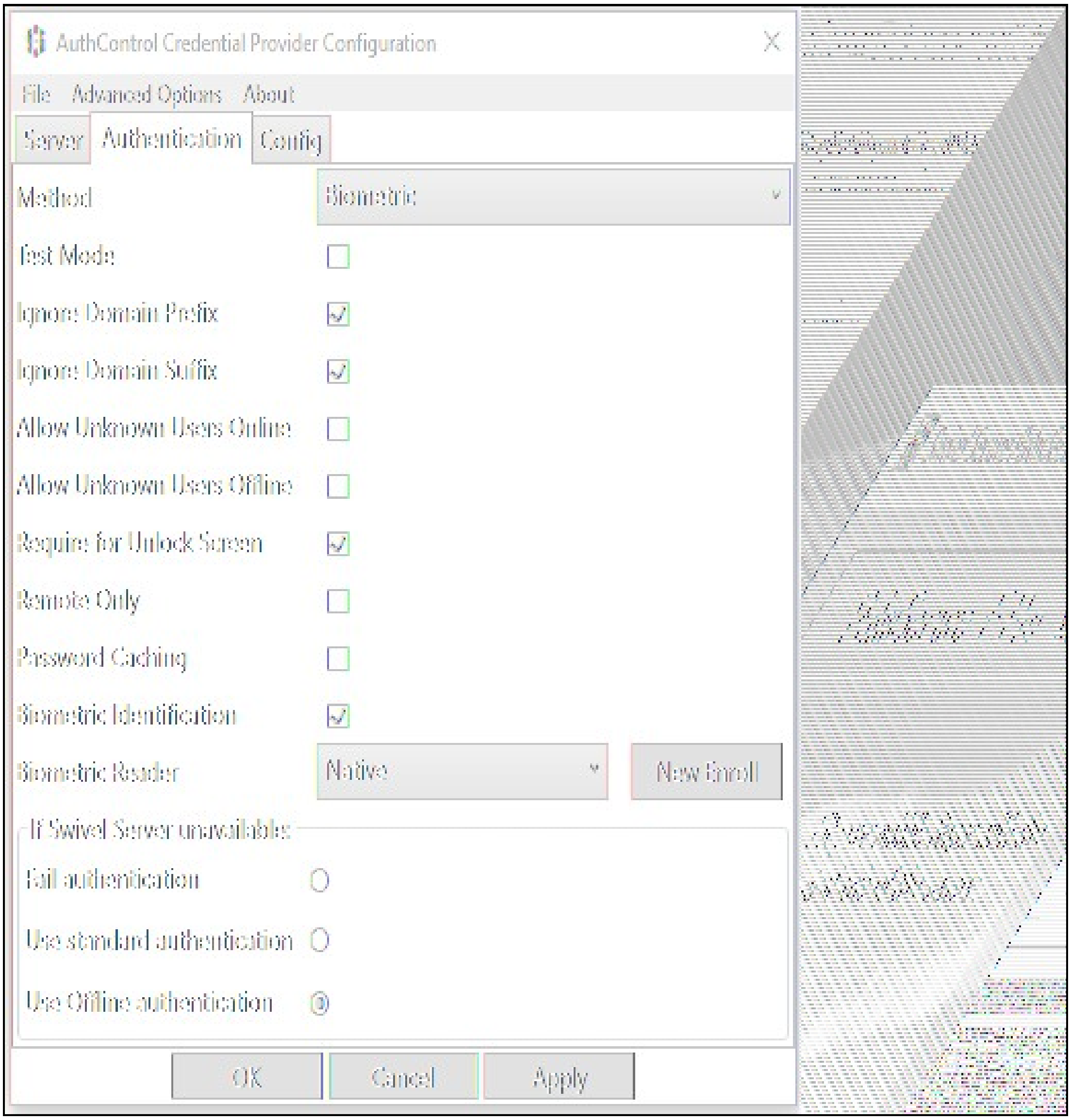
AuthControl Credential Provider
AuthControl Direct Access Man
Will be installed on local hard drive
Entire feature will be installed on local hard drive
Feature will be installed when required
Entire feature will be unavailable
on your
Browse...
Reset
Disk Usage
Back
Next
Cancel

Configure Credential Provider

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

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

Click Apply.



Method: Biometric

Test Mode □

Ignore Domain Prefix ☑

Ignore Domain Suffix ☑

Allow Unknown Users Online □

Allow Unknown Users Offline □

Require for Unlock Screen ☑

Remote Only □

Password Caching □

Biometric Identification ☑

Biometric Reader: Native

If Swivel Server unavailable:

○ Fail authentication

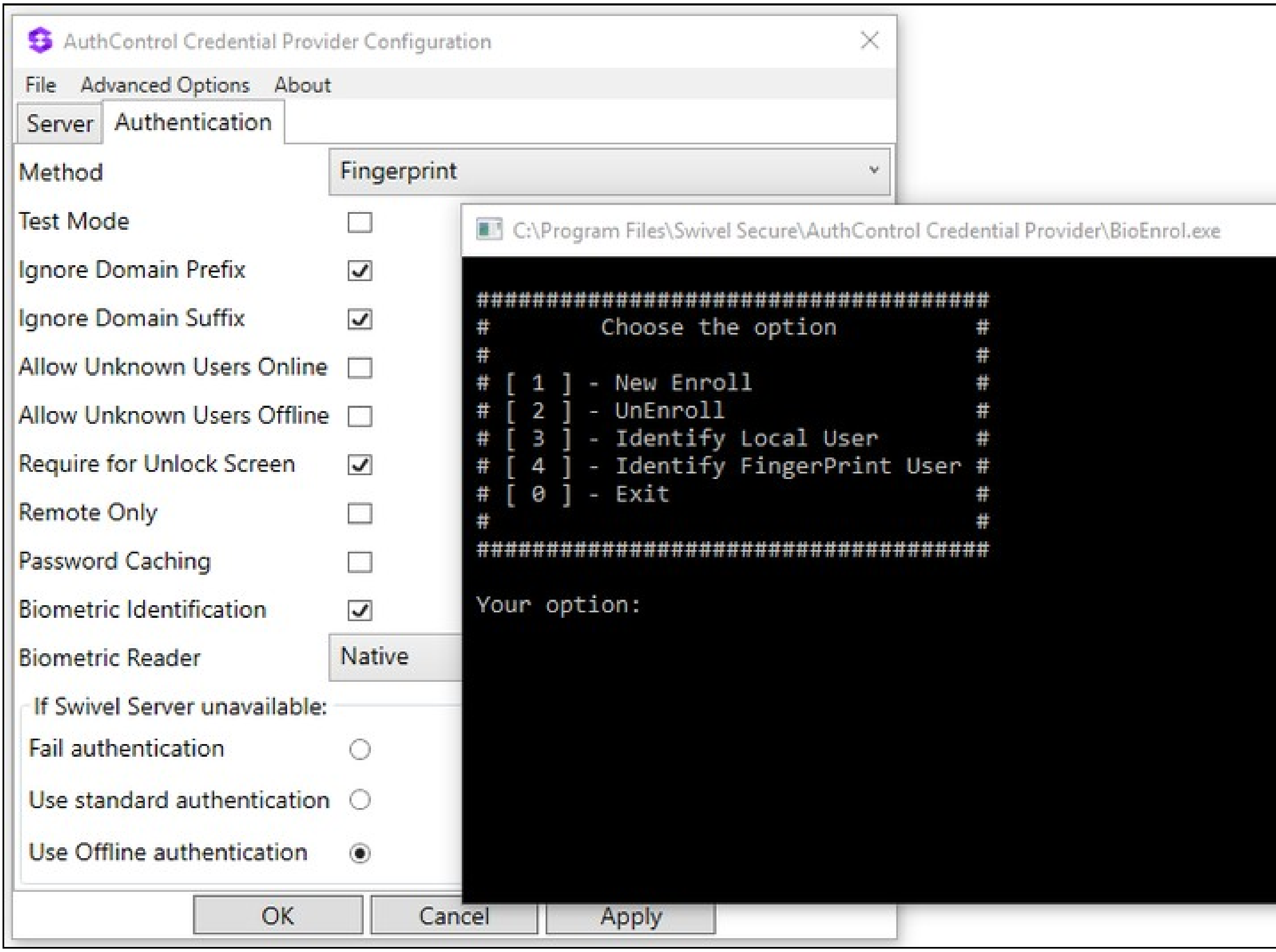
○ Use standard authentication

● Use Offline authentication

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.


AuthControl Credential Provider Configuration
File
Advanced Options
About
Server
Authentication
OK
Cancel
Apply
C:\Program Files\Swivel Secure\AuthControl Credential Provider\BioEnrol.exe

Method: Fingerprint

Test Mode □

Ignore Domain Prefix ☑

Ignore Domain Suffix ☑

Allow Unknown Users Online □

Allow Unknown Users Offline □

Require for Unlock Screen ☑

Remote Only □

Password Caching □

Biometric Identification ☑

Biometric Reader: Native

If Swivel Server unavailable:

Fail authentication ○

Use standard authentication ○

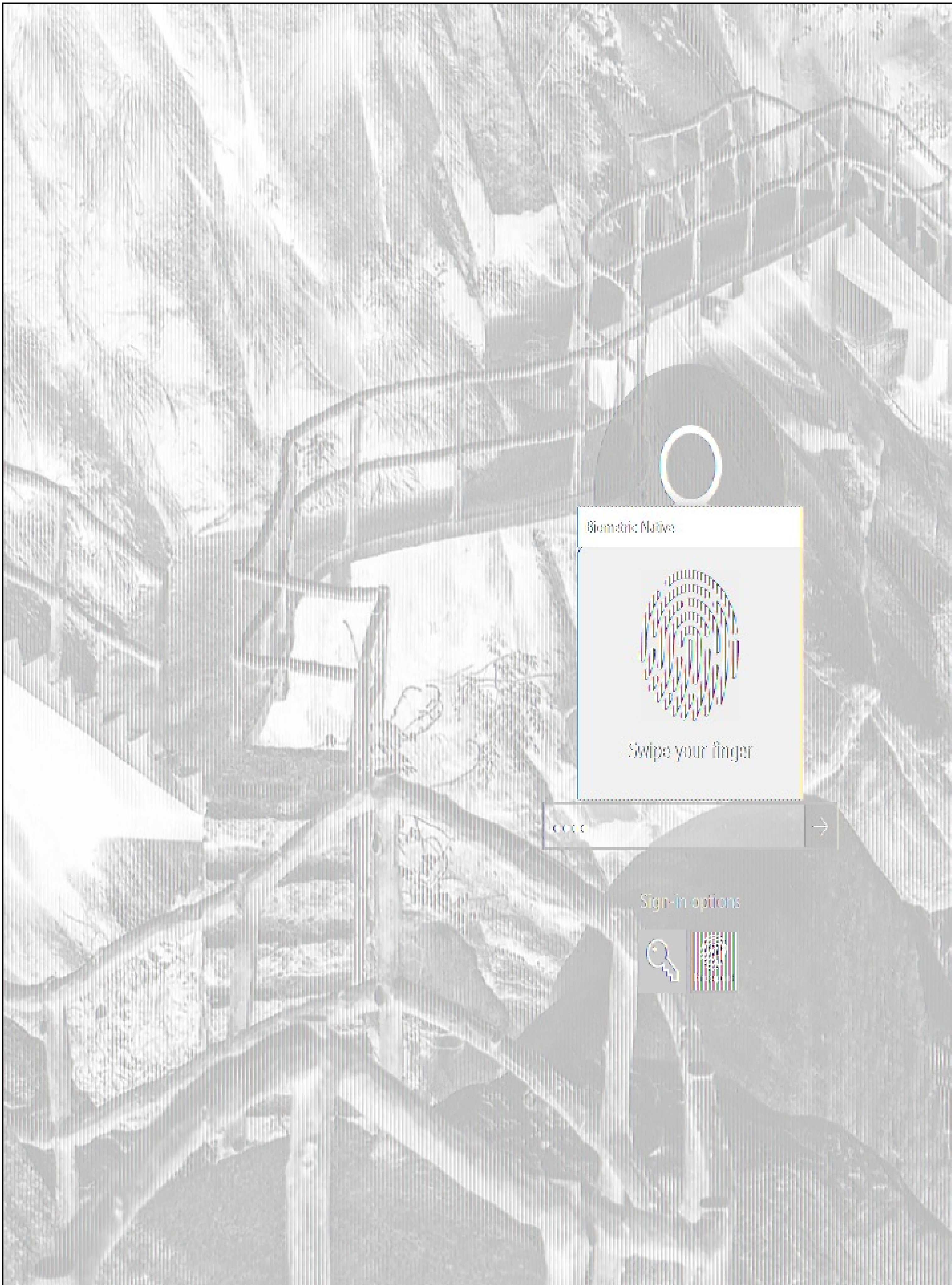
Use Offline authentication ●

```
#####################################
#        Choose the option          #
#                                   #
# [ 1 ] - New Enroll                #
# [ 2 ] - UnEnroll                  #
# [ 3 ] - Identify Local User       #
# [ 4 ] - Identify FingerPrint User #
# [ 0 ] - Exit                      #
#                                   #
#####################################

Your option:
```

Authenticating

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



Biometric Native

Swipe your finger

Configuration for Fujitsu PalmSecure-F Pro Biometric Reader

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

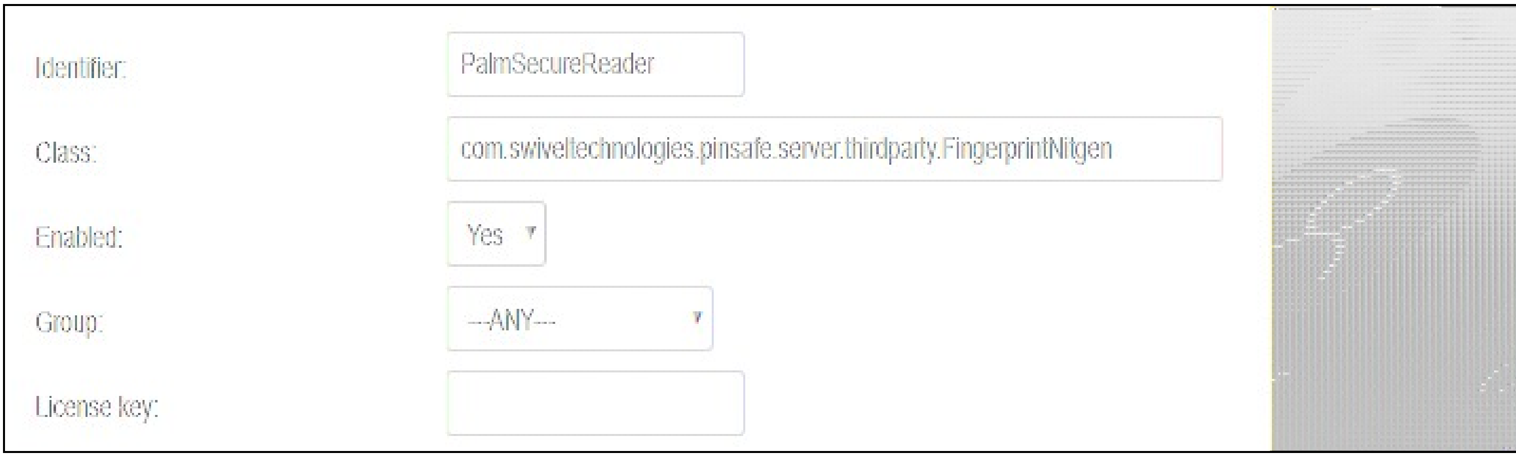
Configure Third Party Authentication PalmSecure

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



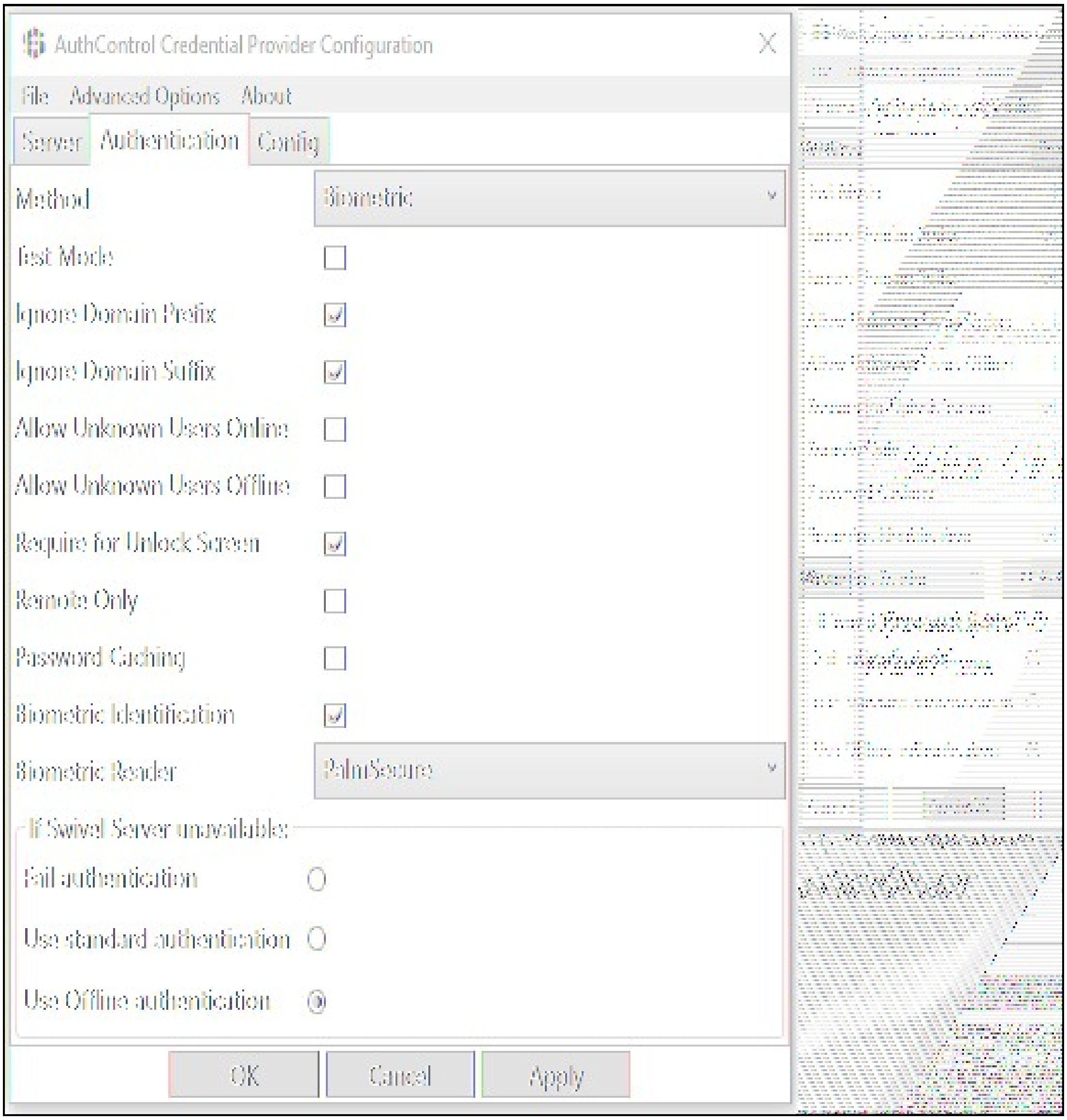
Identifier:	PalmSecureReader
Class:	com.swiveltechnologies.pinsafe.server.thirdparty.FingerprintNitgen
Enabled:	Yes
Group:	---ANY---
License key:	

Configure Credential Provider PalmSecure

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

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

Click Apply.



Method: Biometric

Test Mode □

Ignore Domain Prefix ☑

Ignore Domain Suffix ☑

Allow Unknown Users Online □

Allow Unknown Users Offline □

Require for Unlock Screen ☑

Remote Only □

Password Caching □

Biometric Identification ☑

Biometric Reader: PalmSecure

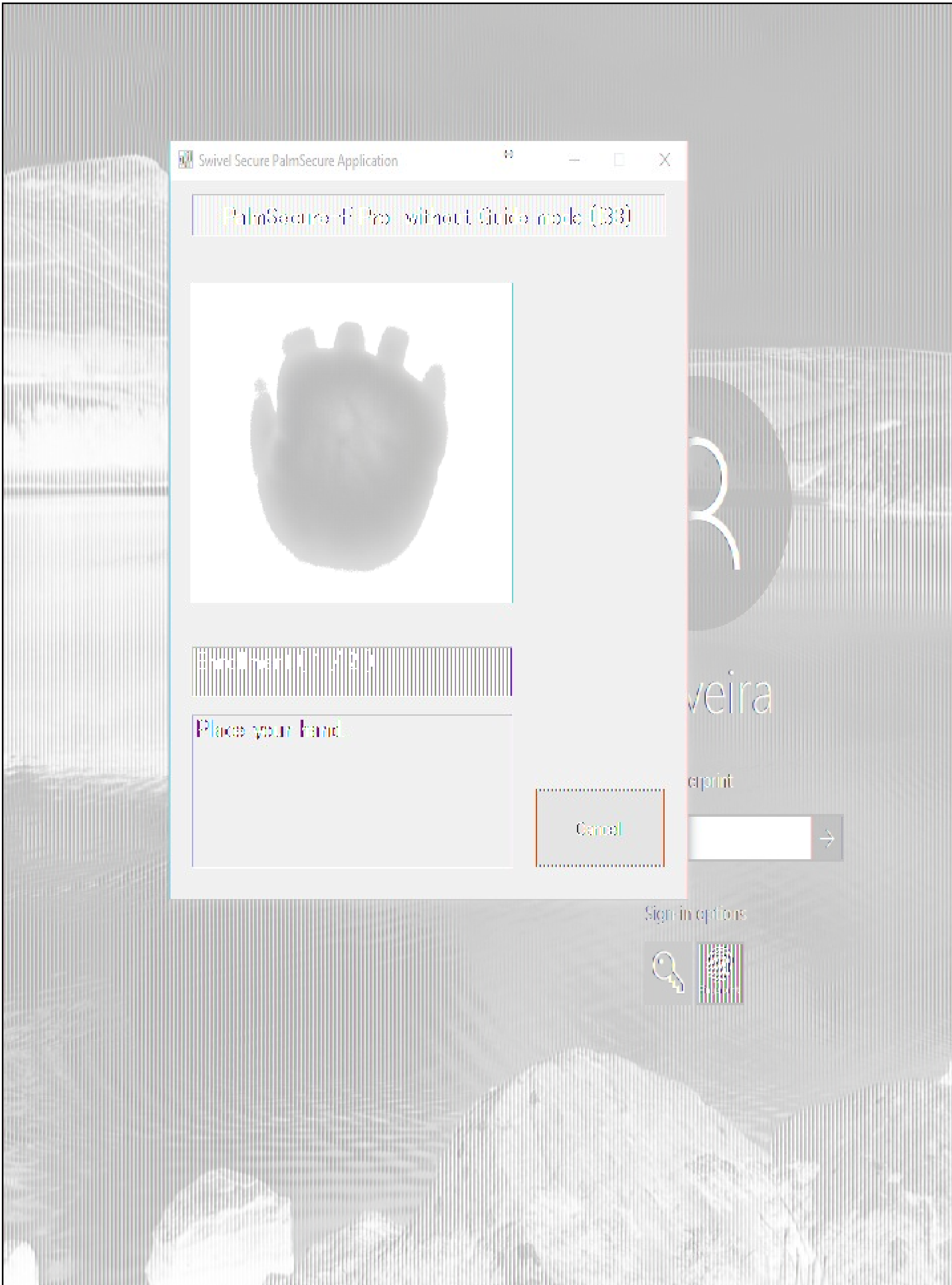
If Swivel Server unavailable:

○ Fail authentication

○ Use standard authentication

● Use Offline authentication

Enrolment with PalmSecure

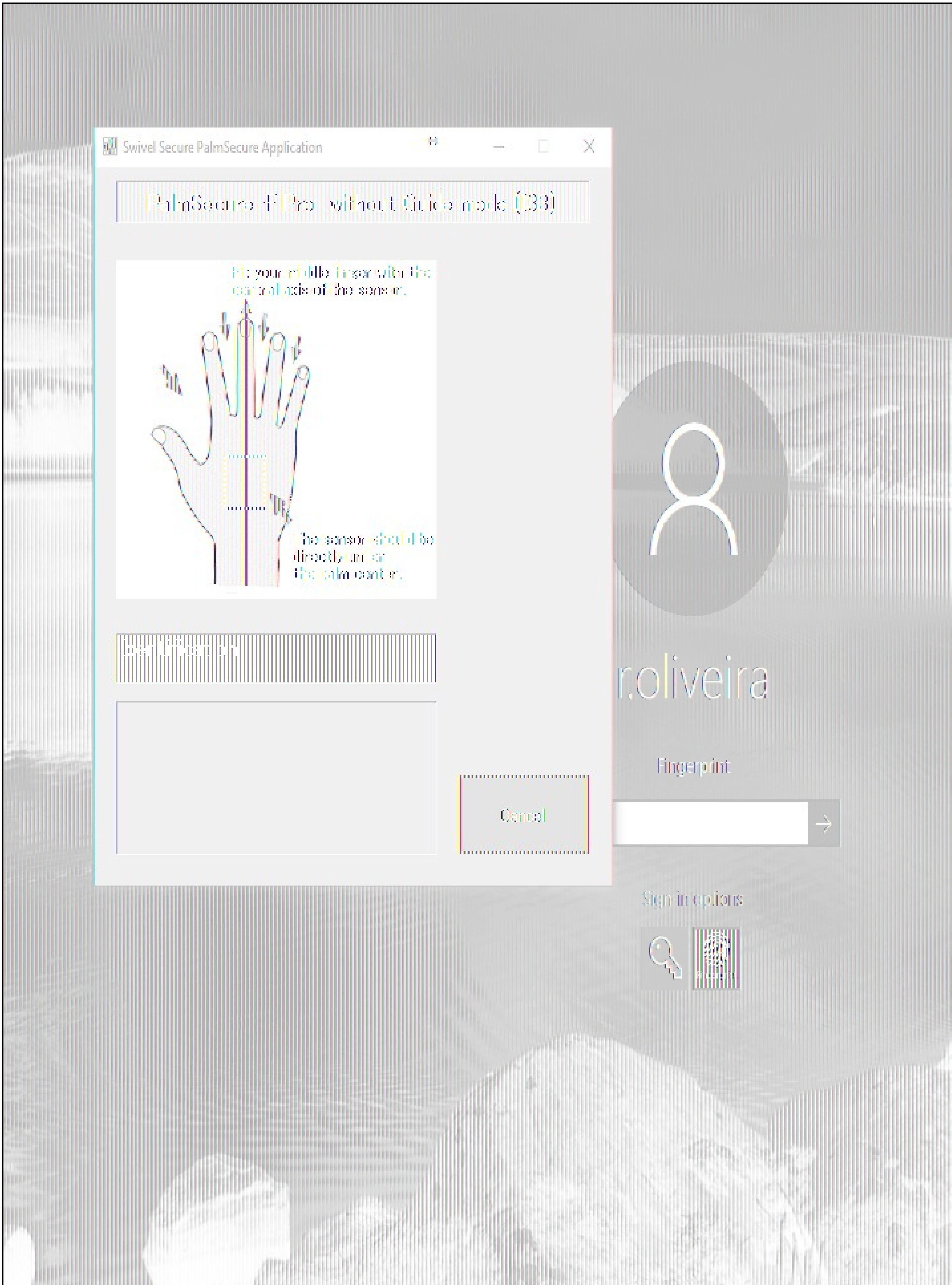


Swivel Secure PalmSecure Application

PalmSecure-F Pro without Guide mode (33)

Place your hand

Authenticating with PalmSecure

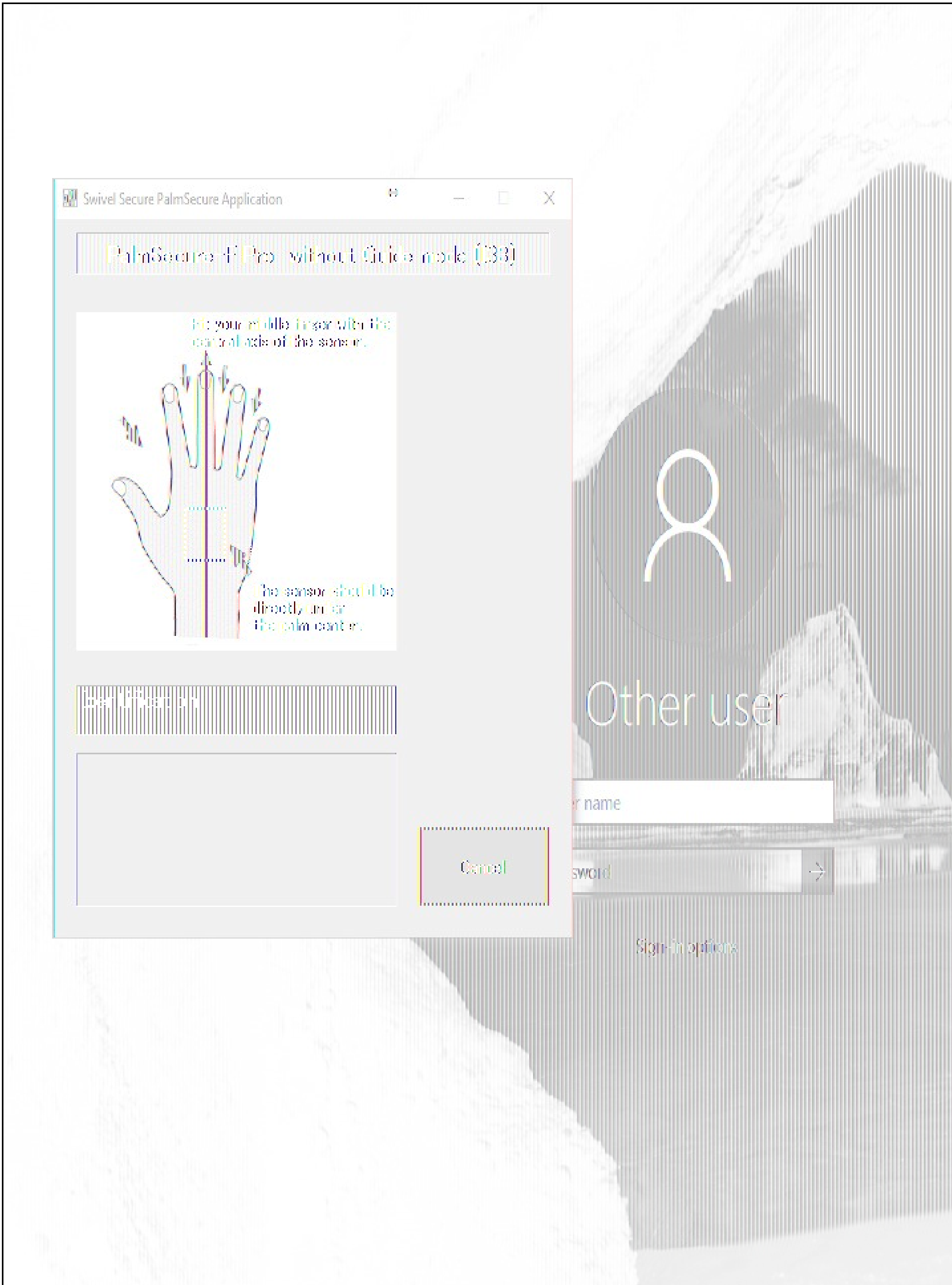


Swivel Secure PalmSecure Application
PalmSecure-F Pro without Guide mode (33)
Cancel
r.oliveira
Fingerprint
Sign-in options

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

The sensor should be directly under the palm center.

Identification with PalmSecure



Swivel Secure PalmSecure Application

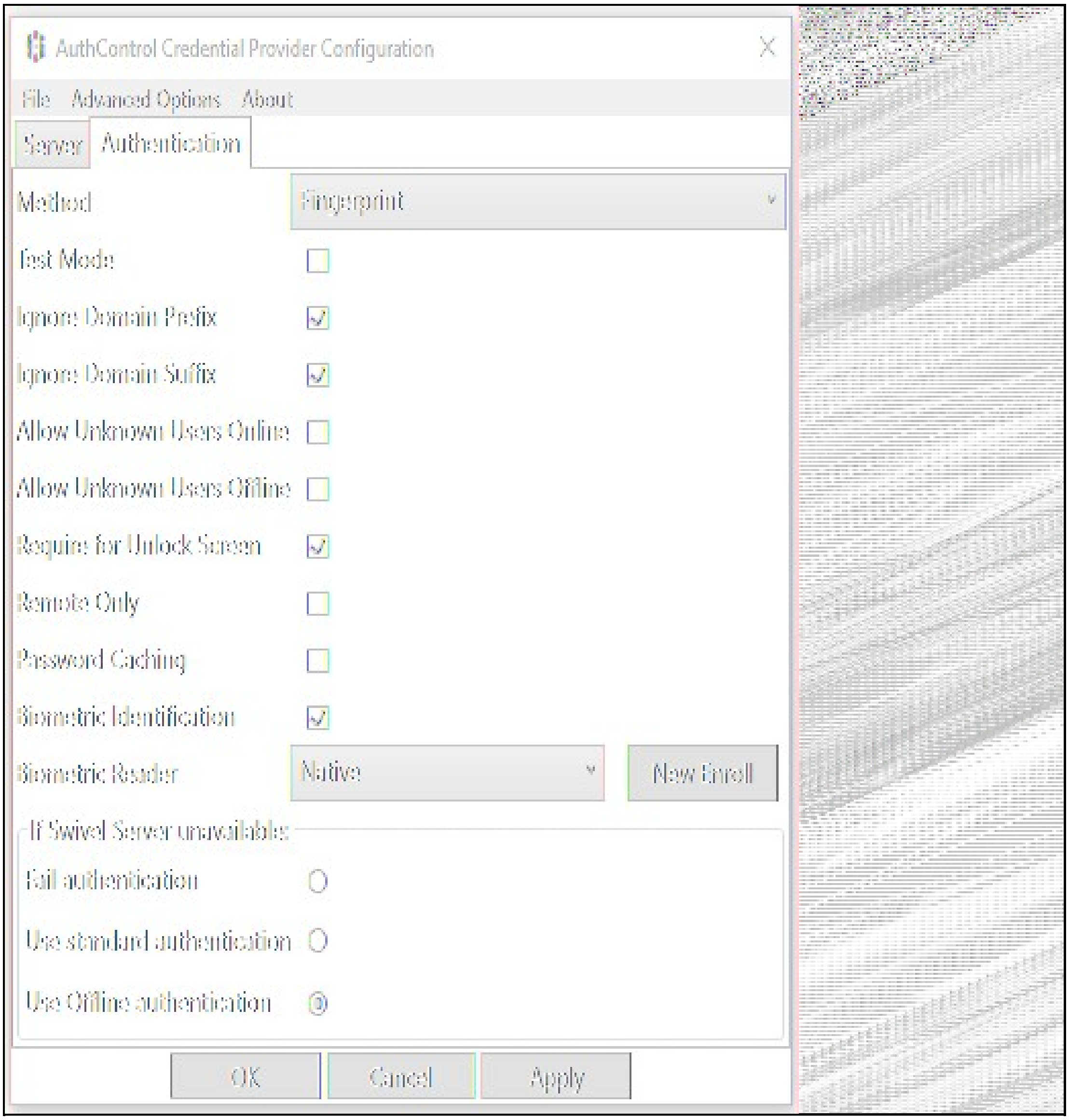
PalmSecure-F Pro without Guide mode (33)

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

The sensor should be directly under the palm center.

Biometric Identification

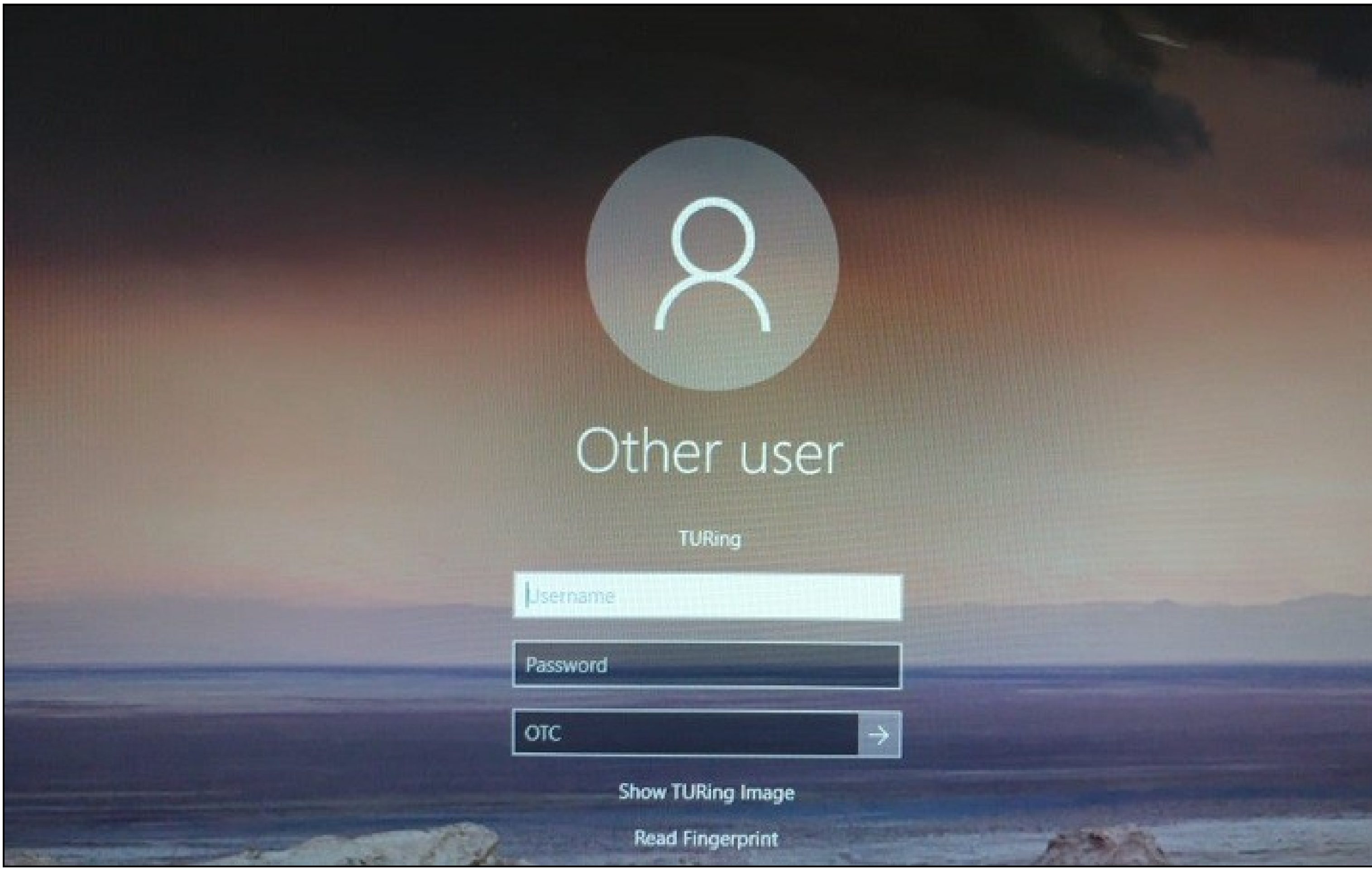
It's possible to use Biometric Identification instead of entering the username. First enable "Biometric Identification" under "Authentication" inside the Configuration.



Method Fingerprint
Test Mode ☐
Ignore Domain Prefix ☑
Ignore Domain Suffix ☑
Allow Unknown Users Online ☐
Allow Unknown Users Offline ☐
Require for Unlock Screen ☑
Remote Only ☐
Password Caching ☐
Biometric Identification ☑
Biometric Reader Native

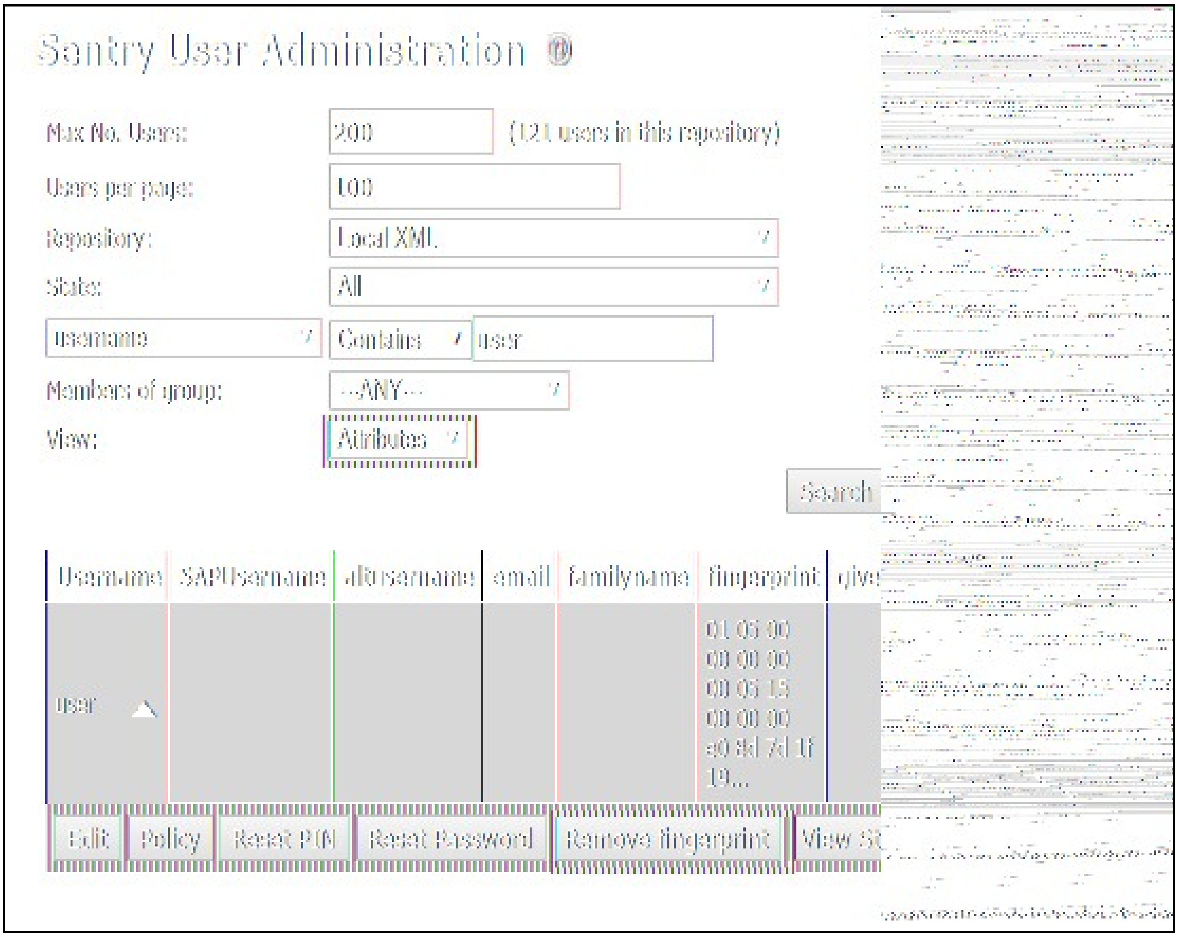
If Swivel Server unavailable
Fail authentication ○
Use standard authentication ○
Use Offline authentication ●

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

Username	SAPUsername	altusername	email	familyname	fingerprint	give
user					01 05 00 00 00 00 00 05 15 00 00 00 a0 8d 7d 1f 19...	

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.