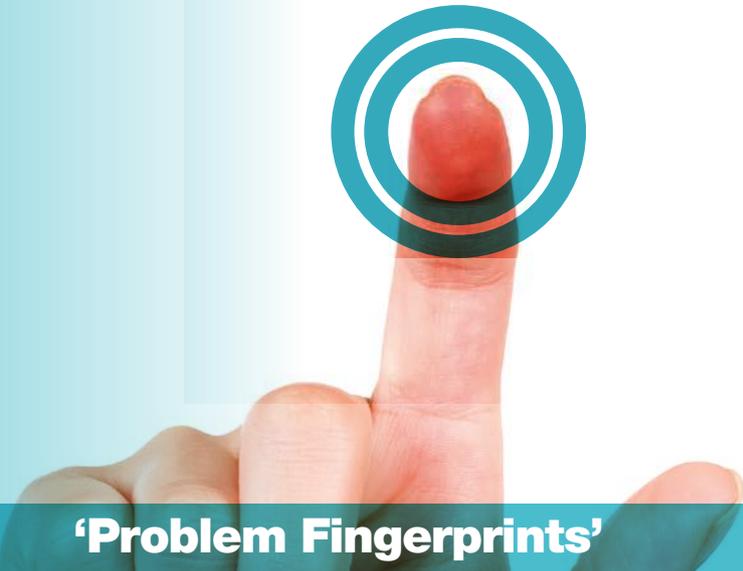




Security solutions
as individual as you are.™

ievo Guidance



‘Problem Fingerprints’

Due to the nature of biometrics highlighting measurable human characteristics which label and describe an individual. The biological features used to capture data can sometimes be impaired for a number of reasons causing ‘problem fingerprints’.

PROBLEM FINGERPRINTS?

While it is uncommon studies have shown that one out of two hundred fingerprints can be problematic when using biometric readers.

These instances usually occur when a finger has been heavily damaged causing permanent surface and/or subsurface skin abrasions.

I HAVE A PROBLEM FINGERPRINT, CAN I STILL USE BIOMETRICS?

Even though it may seem like the technology is against you, there are methods that can be attempted to combat some problem fingerprints.

WHAT CAN I DO TO COMBAT A PROBLEM FINGERPRINT?

When registering a known problem finger, or if problems persist with a registered fingerprint, try registering all of the user’s fingers, including the thumbs. This will help give the user a number of options when trying to gain access.

To register multiple images of the same fingerprint access the ‘Manage Fingerprint’ section of the **ievo** registration software. Refer to your software provider if using an alternative registration software package.

Another method is to registering multiple images of the same fingerprint from different rotational angles. Start with scanning the left side of the finger, and then registering multiple images of the finger as you roll the finger to the right (see Fig.1). This will build up a full image of the surface of the finger from different degree angles that may help with enabling the user to use the system. Keep scanning different angles until the system states a good image has been captured.

Fig.1



Scan a finger from different angles, rotating to the right until a good scan has been captured.

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Acquiring Biometric Data

1.



The **ievo** reader acquires the fingerprint image.

2.



Each fingerprint contains unique reference points known as 'minutiae'. These are located where a ridge ends, at a dot or a ridge junction (a bifurcation).

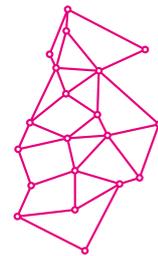
The **ievo** reader can identify and acquire up to 100 reference points.

3.



These reference points along with their relative positioning create a pattern which is as unique as the fingerprint image itself.

4.



The pattern is then converted into a binary code via an algorithm. The binary code is encrypted and transferred onto the **ievo** board.

It is impossible to re-create an exact fingerprint image from this code.

For further information, please contact one of our support team:

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