

Touch Recognition Mitrefinch Biometrics

User Guide

Month, Year



The Mitrefinch Suite Includes:

Time & Attendance System | HR Management Software | Automatic Scheduling and Forecasting | Employee Self Service Performance Management/Job Costing | Recruitment | Access Control | Visitor Management System | Auto ID

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Biometrics

Employees register their arrival and departure times simply by placing their finger on the biometric scanners, attached to terminals installed at convenient locations throughout the worksite.



Biometrics

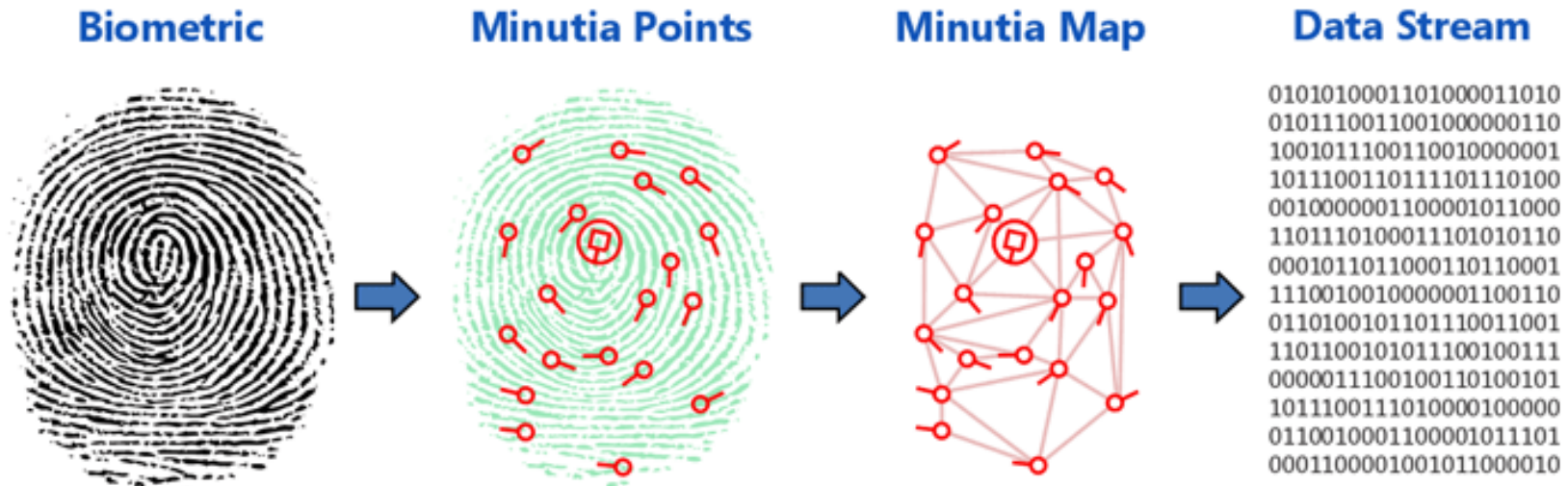
- Employee privacy is always protected
- Mitretech systems don't actually collect and store fingerprints

CRUCIAL DIFFERENCE:

- Instead, the system saves a **mathematical representation** of employees' biometric data

The Difference Between Finger-scan and Fingerprint.

Employees' fingerprints are **SCANNED, NOT STORED** before biometric data is converted.



This is completely different to the fingerprint information stored,

for example, by police...

You cannot create this
from this



Automatically deleted

The Mitrefinch system will also **automatically delete** the mathematical template when an employee is marked as a leaver from the system.



Fingerprint recognition – the facts

Fingerprint recognition technology

The fingerscan verification device is a silicon-based sensor that uses Lumidigm Technology.

This is a sub-surface technology that images below the surface layer of the skin to the live layer where the true print resides.

Unlike other technologies, such as optical or DC capacitive, skin surface conditions do not limit the ability of the sensor to capture fingerprint data.

Calluses, dryness, dirt, moisture, the effects of aging, or even contaminants like ink, paint, or glue, have little or no effect because the technology captures the “live” fingerprint from beneath the surface.

Privacy – Storage of fingerprint data

The proposed Mitrefinch terminal ensures that your employees’ privacy is protected because it does not store actual fingerprints. Instead, it saves mathematical representations of the fingerprint using a pattern recognition algorithm engineered by Lumidigm. This algorithm processes the entire fingerprint using the ridge pattern of the finger, not just a limited number of minutiae points. For any given area of the fingerprint, the ridge pattern provides substantially more data than minutiae alone.

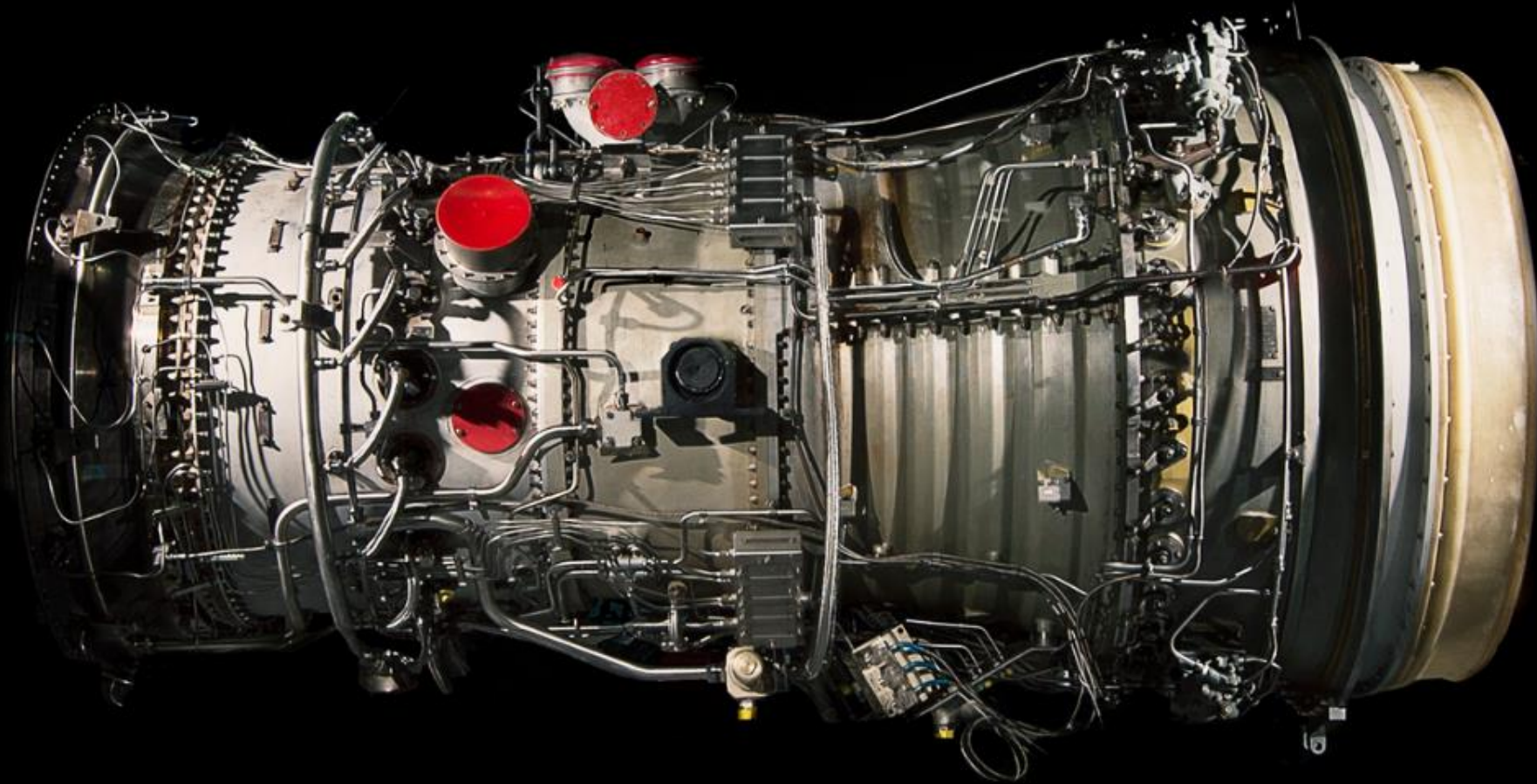
Because images of the actual fingerprints are not stored they cannot be used for any other purpose.

This mathematical representation is then saved in a binary file (348 byte) as a template.

It is not possible to reconstruct a person’s fingerprint from this template.

When an employee uses a fingerprint reader, the above procedure is performed to re-produce the fingerprint template. This template is then checked against those stored by the reader, for a possible match. If one is found, the employee’s registration is accepted - otherwise it is rejected.

THANK YOU



Flexible - Efficient - Cost Effective