

## TECH5 MOBILE TECHNOLOGIES FOR ID STORAGE AND DIGITAL ONBOARDING



POSITIVE IDENTIFICATION WITHOUT THE INTERNET OR A DATABASE





HDBarcode

SALES MGR

 Name
 Jane Smith

 Company
 HD Barcode

 Country
 United State

 Designation
 Sales Mgr.

 Gender
 Female

 Married
 Blood Group

 Date Of Issue
 11 Feb 2020

 Barcode Validity
 09 Aug 2020

The TECH5 "Mobile First" solution is a unique combination of innovative technologies enabling cost effective Digital Identity management in support of Digital Onboarding and Authentication. The underlying TECH5 barcode technology is capable of storing biographical data, biometric templates as well as a highly compressed face image, all in an encrypted format.



# TECH5 "MOBILE FIRST" TECHNOLOGIES



### COMPLETE OFFLINE SOLUTION FOR YOUR MOBILE IDENTIFICATION NEEDS

for secure storage and multi-factor customer authentication.



#### FACE AND FINGERPRINT RECOGNITION TECHNOLOGIES

to capture face and fingerprint images and conversion into templates; authenticate a person within seconds against reference templates stored in the barcode.



### FACE IMAGE COMPRESSION ALGORITHM

to compress face images to 1 kilobyte size.

#### HIGH DEFINITION BARCODE TECHNOLOGY WITH ERROR CORRECTION

to store complete personal data, a face image and biometric templates, all protected by data encryption.



#### PKI

to authenticate the barcode and make sure that only the authorized holder can unlock the data that is stored.



#### LIVENESS DETECTION SOFTWARE

to run liveness checks on face and fingerprint images captured with the mobile app.

## PROCESS FLOW FOR VERIFICATION

Offline Verification using a mobile application created by PITL for face recognition of the document holder. The process laid down is as following



Document holder hands over the Document for verification

The verifier scans the Document using the Mobile application



After the code is scanned, the verifier takes a photo of face or finger of the Document holder standing in front of him



The biometric template stored in the code at the time of registration & the live capture during verification are then compared using the TECH5 biometric technology



Height accuracy biometric matching (>99.4% @ FAR=10-6) as confirmed by NIST reports



If the biometric is matched, the application gives the appropriate visual indication and will go to the next business logic









#### **PRIVACY & SECURITY**

PKI enabled non-reputable secure code

 Hardware Security Module (HSM) based Digital Cryptogram generation

• Code is generated by the issuer at their location using the TECH5 Secure 2D Barcode

Verification of the Code is completely offline and does not require access to the data issuer

## For more information please contact us



BENEFITS

 Cost effective alternative to smart cards (no chip needed)

Can be issued in both Print & Digital formats

Only an offline device is required to securely read, decode & validate data. Typically, BYOD model, where there is no cost to the issuer for verification

#### SCALABILITY

- Unifies issuer & verifier on a global scale within minutes
- Fully integrated biometric modalities like face and/or finger

The solution is designed to handle a very high volume of issuance operations