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FaceTec Identity Check

3D Liveness + Photo ID Match + Age Check

REPUBLIC OF SOUTH AFRICA
NATIONAL IDENTITY CARD

Surname:
THERON
Names:
CHARLIZE
Sex:
M
Nationality:
RSA
Identity Number:
8303100111087
Date of Birth:
07 AUG 1975
Country of Birth:
RSA
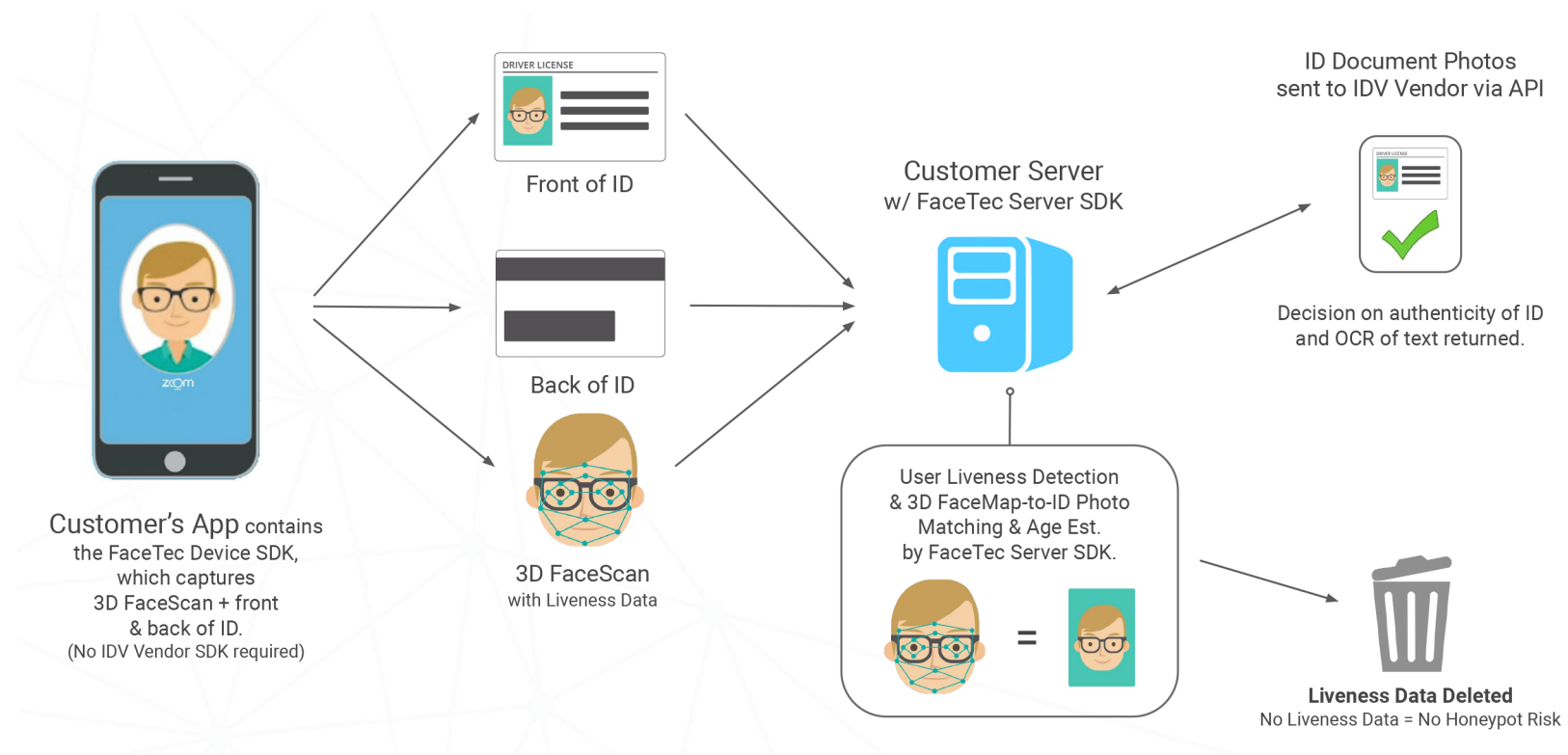Status:
CITIZEN

Signature:

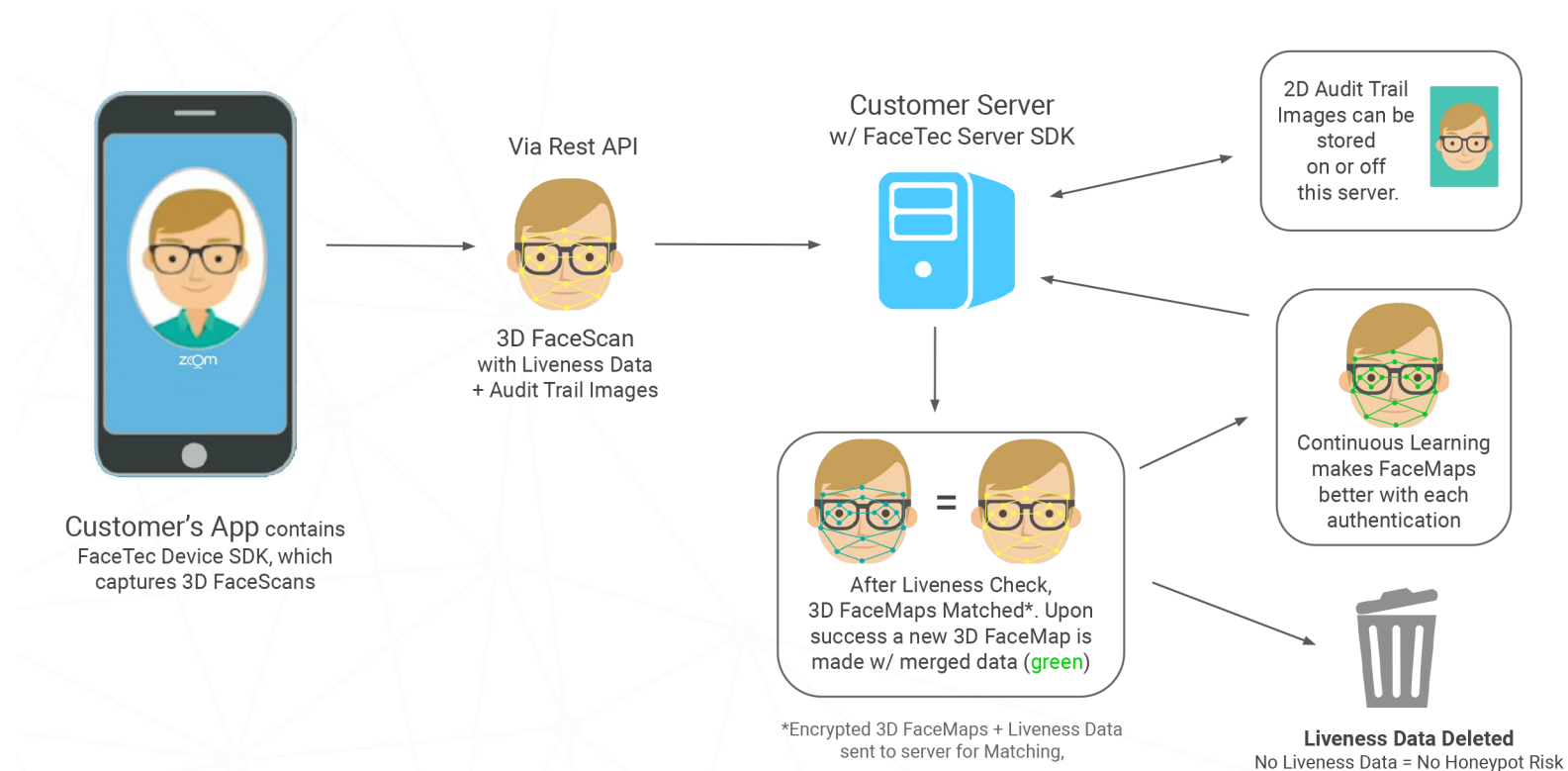facetec

FaceTec® Identity Check: Features

- UI Captures 3D video selfie + front & back of Photo ID
- Certified Liveness Detection proves physical presence
- User's 3D FaceScan matched to Photo ID
- Front & back of ID hi-res images captured
- Age Estimate from 3D FaceMap corroborates ID
- 3D FaceMaps stored for future authentications
- No Honeypot Risk = Liveness Data Deleted or Expires
- iOS & Android SDKs = ~3.9 MB, Browser = ~2.9MB

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FaceTec Identity Check: Onboarding Flow

Front of ID

Back of ID

3D FaceScan with Liveness Data

Customer's App contains the FaceTec Device SDK, which captures 3D FaceScan + front & back of ID. (No IDV Vendor SDK required)

Customer Server w/ FaceTec Server SDK

ID Document Photos sent to IDV Vendor via API

Decision on authenticity of ID and OCR of text returned.

User Liveness Detection & 3D FaceMap-to-ID Photo Matching & Age Est. by FaceTec Server SDK.

Liveness Data Deleted No Liveness Data = No Honeypot Risk

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FaceTec Server SDK: Authentication Flow

Via Rest API

Customer Server
w/ FaceTec Server SDK

2D Audit Trail Images can be stored on or off this server.

3D FaceScan
with Liveness Data
+ Audit Trail Images

Customer's App contains FaceTec Device SDK, which captures 3D FaceScans

After Liveness Check, 3D FaceMaps Matched*. Upon success a new 3D FaceMap is made w/ merged data (green)

*Encrypted 3D FaceMaps + Liveness Data sent to server for Matching,

Continuous Learning makes FaceMaps better with each authentication

Liveness Data Deleted
No Liveness Data = No Honeypot Risk

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FaceTec Identity Check: FAQs

Identity Check Device SDK	User Onboarding & Enrollment	Future Authentication Sessions
Photo ID front & back captured?	Yes, 3D FaceMap matched to photo on ID	No, 3D FaceScan matched to stored FaceMap
Biometric Data processed?	By FaceTec Server SDK	By FaceTec Server SDK
3D Liveness verified?	Yes, User Liveness verified prior to ID match	Yes, Liveness verified during each session
3D FaceMap to Photo ID matching?	Yes, 2D photo to 3D FaceScan (or 2D audit trail image)	No, Photo ID images are not captured
3D-to-3D FaceMap matching?	No, this is the first session the user performs	On-Server (1:1) or (1:N+1 for de-duplication)
Age Estimation from 3D FaceMap?	Yes, every Liveness Check provides an Age Est.	Yes, every Liveness Check provides an Age Est.
Transmitted data size?	TBD by IDV Vendor	3D FaceScan = ~300KB
Devices supported?	Android/iOS, mobile/web browser w/ webcam	Android/iOS, mobile/web browser w/ webcam

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FaceTec Identity Check: Server SDK & API

FaceTec Server SDK	Customer Managed Compute & Data
At Rest/In Transit Data	Encrypted
Biometric Account Recovery	3D FaceMaps stored on central storage
Biometric Data Stored On	Customer's servers
Server/Cloud Software Required	FaceTec Server SDK (provides private REST API)
Server Sample Code & Demo Apps	Yes, C/C++/Java
Easy Startup Effort	FaceTec Server SDK setup guides (Self-managed, AWS Lambda, EB, EC2, etc.)

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FaceTec EZ ID: Verification Flow (optional)

Onboarding From Previous Slide

ZoOmIDCheck.com - EZ ID: Digital Certificate

DRIVER LICENSE

zOm

✓ Liveness Verified   ✓ Face Matched Photo ID
✓ Verified Email Access: zoomguy@facetec.com

User's EZ ID is emailed to them, so we know they are alive with a verified email.

User forwards their EZ ID to another person or entity that wants to verify their Identity.

FaceTec Server SDK
New **SHA-256 HASH** created & compared to old HASH

👍 # = #

👎 # ≠ #

3rd Party shown results and the email it was originally sent to.

The 3rd Party uploads the EZ ID to **ZoOmIDCheck.com**

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