Cognitec

FaceVACS-DBScan ID

SALTO WECOSYSTEM

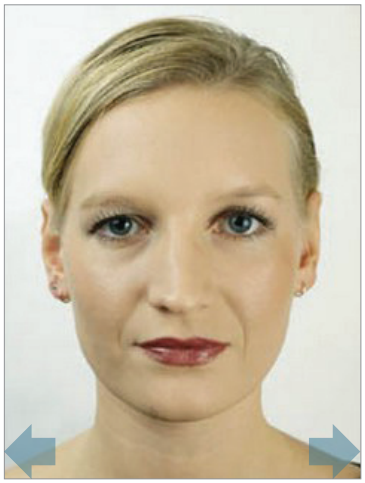
# Face recognition technology

## for matching images in large databases

- compare facial images to databases with millions of ID photos
- detect ID fraud and clerical errors
- control score thresholds
- perform database de-duplication (1:n or n:n) to compare, clean and maintain ID databases
- manage demographics and other case-related data
- protect biometric data with cryptographic signing and template encryption
- run as a ready-to-use application or integrate into your applications and infrastructure

### Probe

### Reference



**Score:** 0.9341

Case ID: MOXA567
Name: Anna Smith
Birth: 1985-02-05
Gender: female
Audit Date: 2018-03-25
Audit Time: 1:35 PM
Auditor: KH6578

## Applications

### ID fraud prevention and detection of clerical errors

- passport
- visa
- driver's license
- health card
- corporate ID card
- voter registration

### Photo search, indexing and sorting by face

- digital photo galleries on PCs or in cloud solutions
- photo kiosks for selection/ purchase of personal photos (e.g., on cruise ships, at hotels, clubs, events, etc.)

# Matching technology

Cognitec's FaceVACS® technology delivers high-speed, reliable performance for matching tasks in large databases. The matching algorithms are set to work with

- typical gesture changes
- partial face occlusions
- virus protection face masks
- beard and hairstyle changes
- glasses
- lighting changes
- image noise
- blurred images
- pose deviation from frontal image
- low contrast/dynamic range in the face area
- sketches and composite images

# Examiner

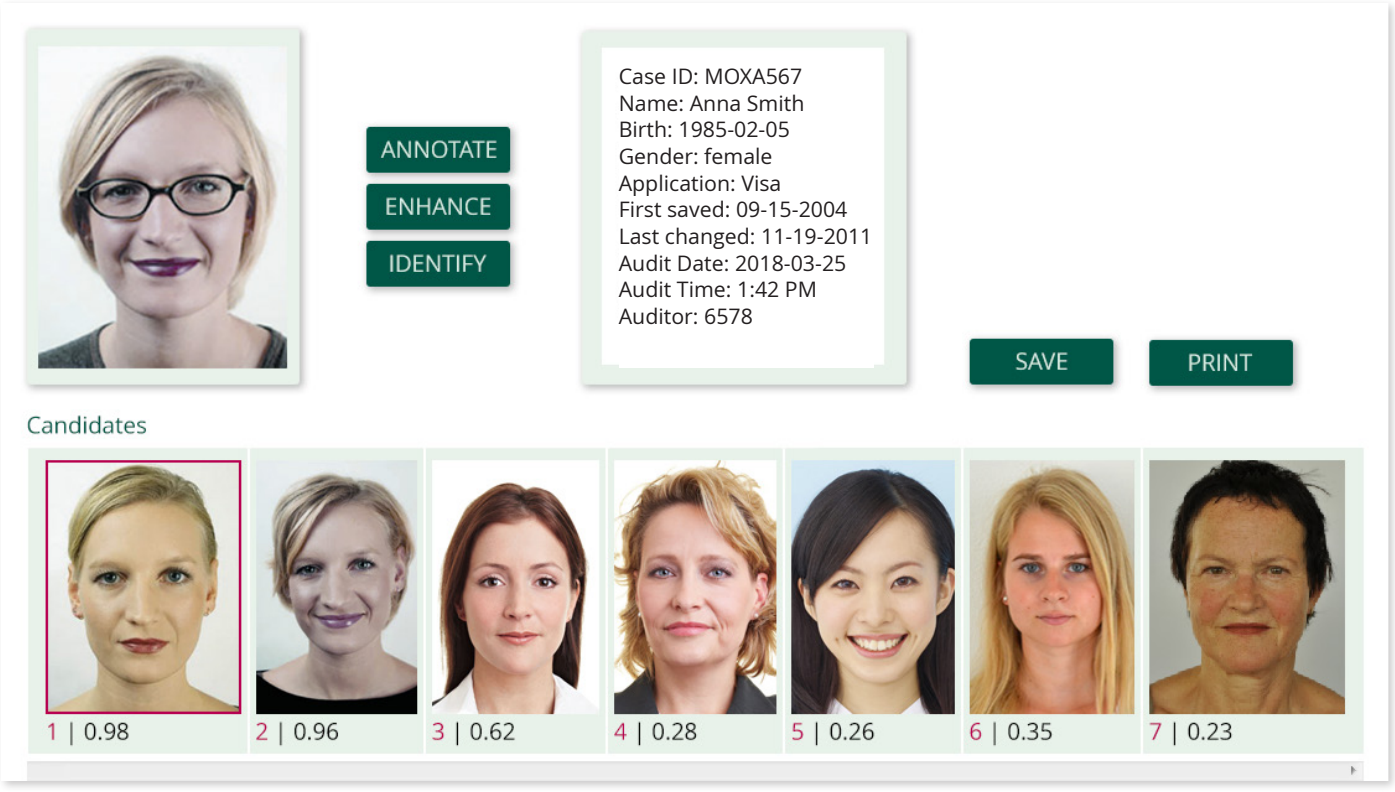
FaceVACS-DBScan ID includes a powerful toolset to match faces in ID photos against local or central facial image databases, instantly view a match candidate list, and inspect the match results.

### Detail inspection

- inspect image pairs side by side
- superpose probe and candidate image and use line blending tool
- measure angles and distances of facial landmarks, e.g., eyes, moles, tattoos, scars

### Investigation management

- create cases and add probe images
- maintain candidate lists, along with demographic data
- manage watch and exclude lists
- document investigation results




Cognitec develops market-leading face recognition technologies and applications for enterprise and government customers around the world, offering premier products for facial image database search, recorded video investigation, real-time video screening and people analytics, border control, ICAO compliant photo capturing and facial image quality assessment. Corporate headquarters are located in Dresden, Germany; other offices in Rockland, MA, USA and Sydney, Australia.

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Cognitec is part of the SALTO WECOSYSTEM

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