Facial recognition systems for banks
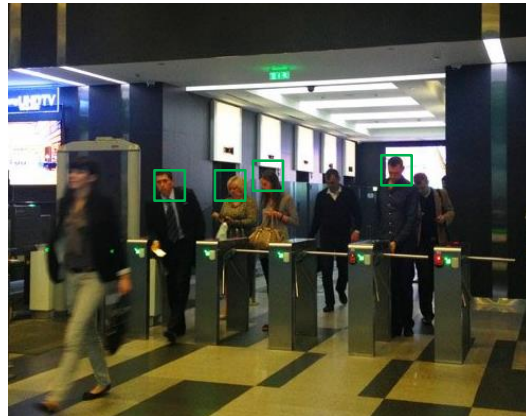
Solutions
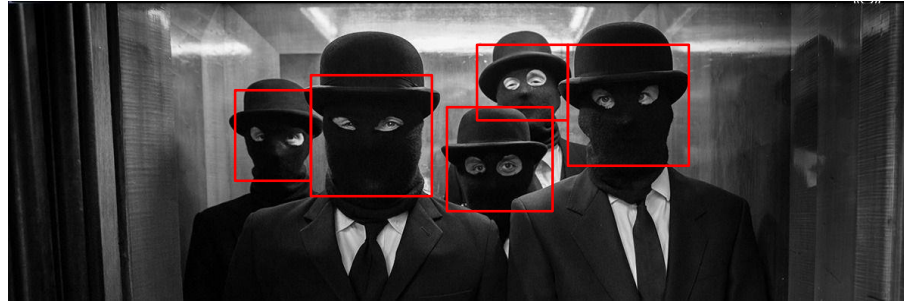
Banking fraud prevention

Authentication in mobile apps
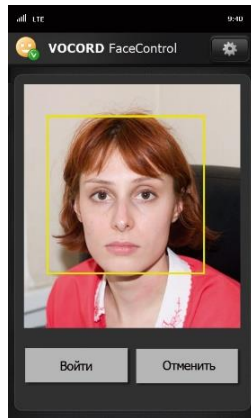
Access control and time attendance

Fraud prevention

Tasks:

Check the loaner against bank's or credit agency/bureau's black-lists

Check the validity of loaner's ID

Results:

- Fast notification about "black-listed" loaners
- Reducing the risks of banking fraud including fraud with forged ID.
- Retrospective analysis
- Automated collecting high-quality images of the loaners (when using the VOCORD NetCam4 cameras)

Work principle

- Bank employee takes a picture of a loaner using a web-camera
- The picture transmits to the server of VOCORD FaceControl where it matches against the database in real time
- Response time depends only on hardware parameters: the software is able to provide less than 1 s time of response.
- Automated quality check and cropping of the picture: the employee doesn't waste his time with manual work
- Full logging of all employee's actions
- Integration with credit agency/bureau's databases

Integration with bank's data systems

Client software + web-camera

Server of VOCORD FaceControl
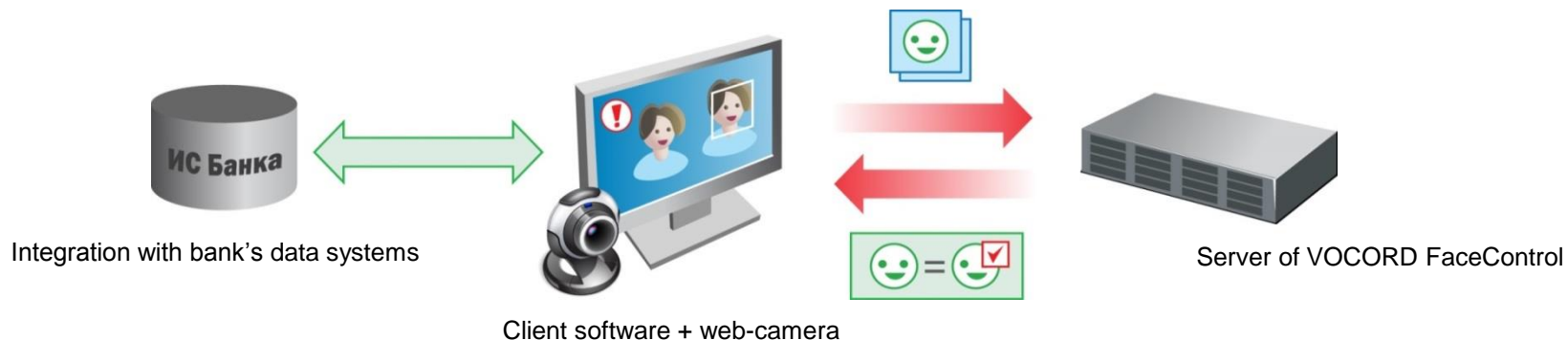
Authentication in mobile apps

Tasks:

- Improve the security of mobile apps authorization
- To make sure that the authorization request is made by real and authorized person

Results:

- Biometric data improves the security
- Liveness detection technology allows to understand if it's a real person of photo
- Biometric authentication is fast and user-friendly for the customers

Work principle

- A user makes a shot using his own cellphone

- The picture transmits to the server of VOCORD FaceControl where it matches against the DB

- Access is granted if the identity confirms

- Liveness detection algorithms check if it's a real person, not the picture

- All the process takes 1-3 s

Bank's mobile app

Server of VOCORD FaceControl
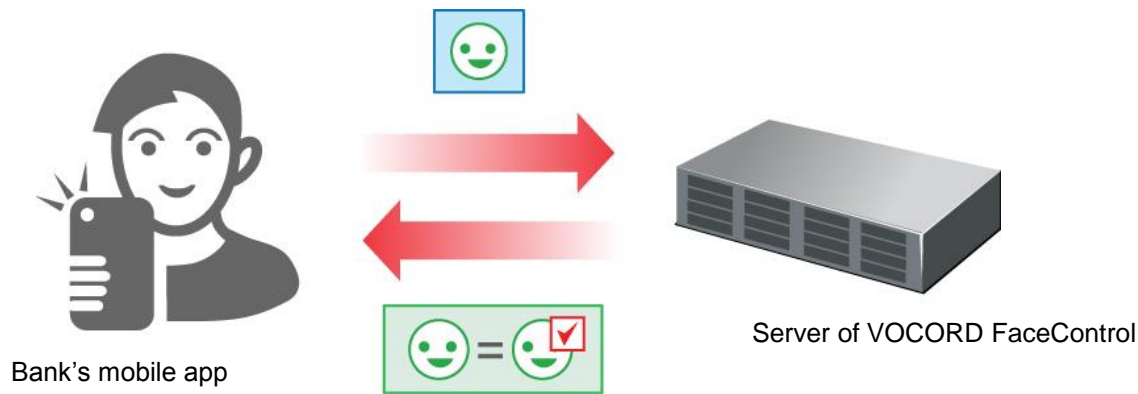
Advantages of VOCORD FaceControl

[The most accurate](#) split-second facial recognition based on cutting edge deep learning neural network technology. Unlimited number of persons in the "black-lists".

Unique «liveness detection» technology

Additional features: gender, age recognition, statistics collection

Existing hardware platform (web-cameras) can be used for implementation of the project

Time-proven solution: the VOCORD FaceControl system successfully implemented and works on many sites - transport nodes, stadiums, retail chains etc.

Projects in Banks

Fraud prevention in banks with Equifax

Equifax, a global leader in consumer, commercial and workforce information solutions, uses Vocord facial recognition expertise for banking fraud prevention. Contemporary recognition algorithms help to verify thousands of photos on loan applications received from different banks against "black-lists".

Time attendance in Tinkoff and Otkritie

Tinkoff and Otkritie, the popular commercial banks in Russia, use the VOCORD FaceControl facial recognition system in their offices for employee's access control and time attendance.

Facts about Vocord

Research and development in the field of video and audio processing

Established – 1999
Staff - 120 employees
Head office in Moscow

Development and manufacturing of hardware and software systems

More than 100 partners across Russia and abroad

Certificate of quality ISO 9001-2011, GOST R (State Standard), EAC

Support of ONVIF protocols and standards

Member of Russian Biometric Society

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VOCORD

VIDEO SURVEILLANCE AND
AUDIO RECORDING SYSTEMS