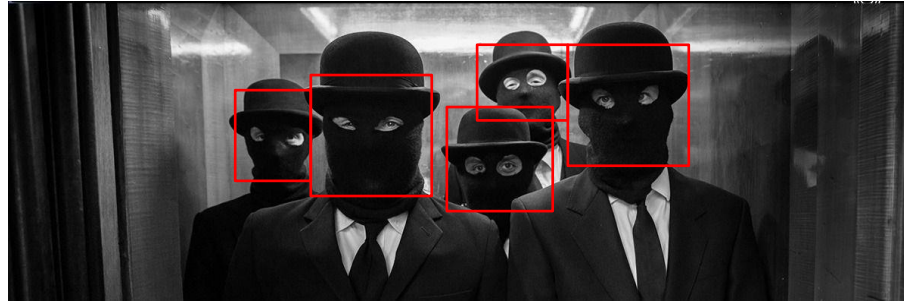


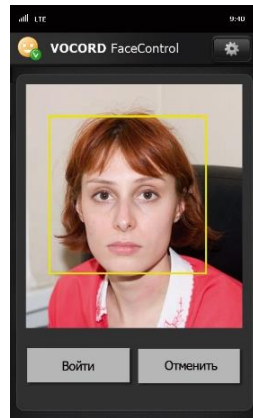
# Facial recognition systems for banks



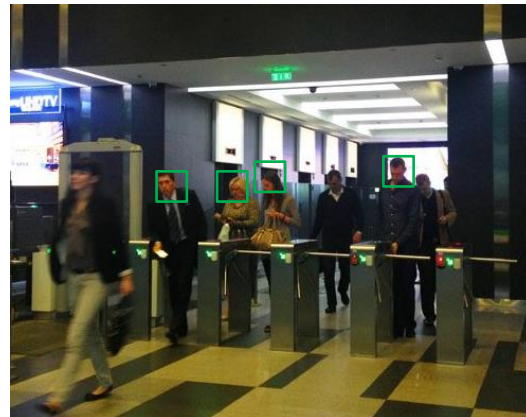
## Banking fraud prevention



## 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

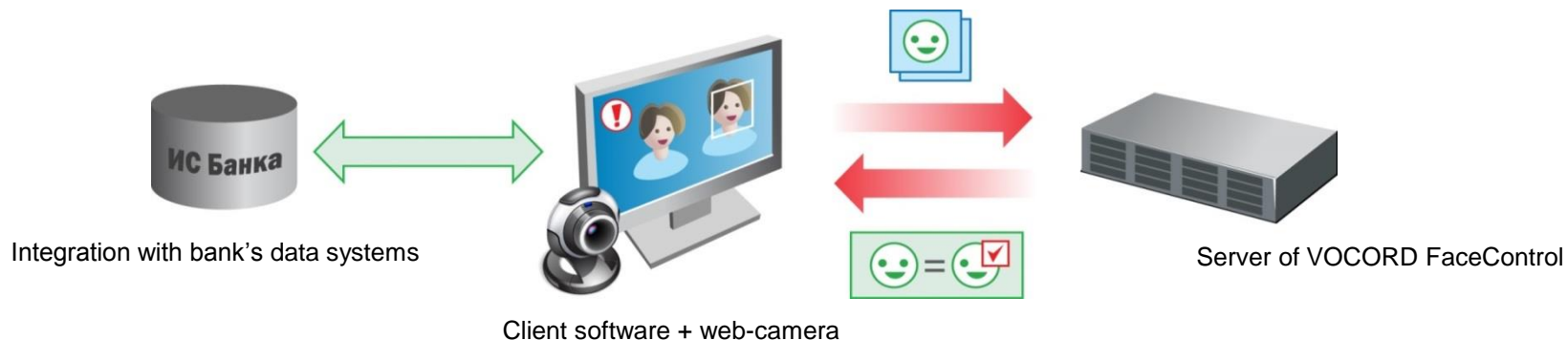


## Results:

- 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



# 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

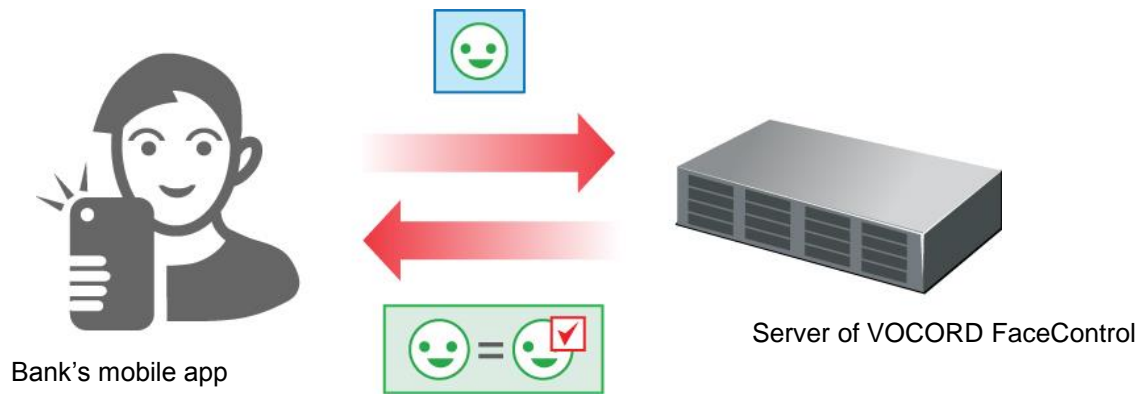
## Results:

- 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



# 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

# Contacts

---



## Vocord Company

E-mail: [sales@vocord.com](mailto:sales@vocord.com)

Website: [www.vocord.com](http://www.vocord.com)

