PayConfirm & Secure Bank

ALL-IN-ONE SOLUTION FOR SECURE ONLINE BANKING

Proactive client-side fraud and attack prevention across sessions, platforms, and devices

User-friendly and secure authentication and e-signatures on smartphones

Automatic operational risk assessment

Comprehensive fraud protection for online banking users

Ensuring that online banking users are always protected requires both verification of transaction data and analysis of device parameters and user behaviour. Such security measures should not affect customer experience, however.

The comprehensive solution from Group-IB and SafeTech combines Secure Bank, a client-side fraud and attack prevention system, and PayConfirm, a mobile authentication and e-signature platform.

Adaptive authentication and transaction confirmation ensure a frictionless and secure customer experience, with minimal cost and implementation time, thanks to:

> Automatic operational risk assessment;

> Customer device status monitoring;

> A digital signature guaranteeing the integrity and authenticity of electronic documents.

Technological synergy of PayConfirm & Secure Bank

ADAPTIVE AUTHENTICATION

Sets up a signature in the automatic background mode, requesting additional confirmation and preventing a transaction from being signed or completed depending on the risk assessment; contains pre-set values for scoring trust indicators for users

EASY DEPLOYMENT

Ready-made tool for automated assessesment of the risks involved in completing given financial transactions

REDUCED BANK OPERATING COSTS

Lower cost of telecom services (thanks to lower cost of text message transaction notifications), implementation and integration of systems to ensure technical support and proper functioning
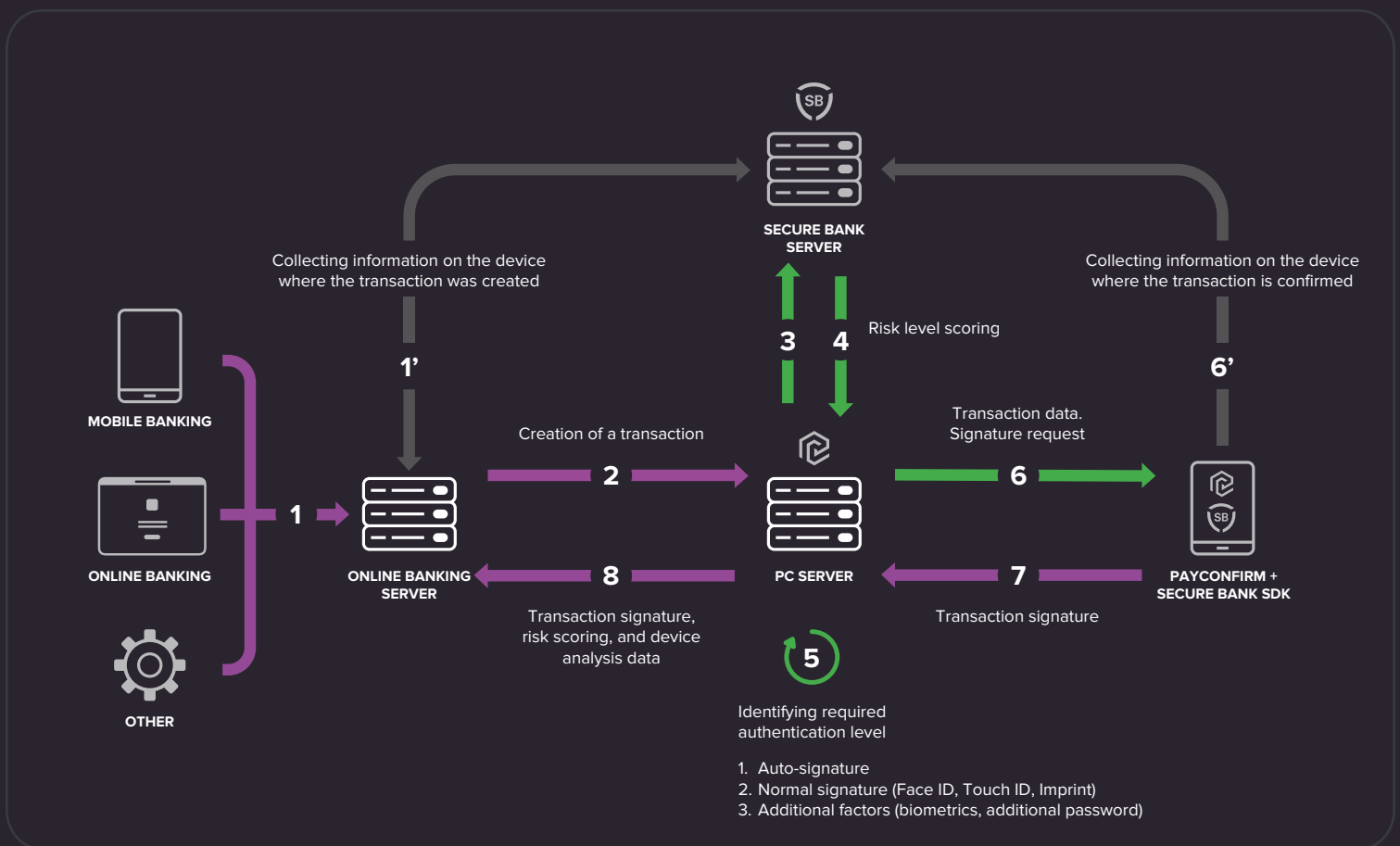
REDUCED LOAD ON ANTI-FRAUD SYSTEMS

No need to compare fragmented user transaction data from the online banking system with user device data and events

How PayConfirm and Secure Bank work together

The mobile part of PayConfirm, which contains the Secure Bank client module, is integrated into the mobile banking app installed on the user device.

Using behavioural analysis of user actions and device fingerprinting, the Secure Bank client module detects signs of fraud in real-time and identifies attempts to steal or use compromised credentials, banking Trojans, and web injections.

Data collected is continuously stored and analysed on the Secure Bank server.

SECURE BANK SERVER

Collecting information on the device where the transaction was created

Collecting information on the device where the transaction is confirmed

Risk level scoring

3 4

1'

6'

MOBILE BANKING

Creation of a transaction

Transaction data. Signature request

2

6

1

PC SERVER

PAYCONFIRM + SECURE BANK SDK

ONLINE BANKING

ONLINE BANKING SERVER

8

7

OTHER

Transaction signature, risk scoring, and device analysis data

Transaction signature

5

Identifying required authentication level

1. Auto-signature
2. Normal signature (Face ID, Touch ID, Imprint)
3. Additional factors (biometrics, additional password)

> When a financial transaction is created and signed, the PayConfirm server (integrated with the Secure Bank server) receives the transaction details from the online banking system and provides it to the user; the user signs on their mobile device.

> Meanwhile, the PayConfirm server requests and receives from the Secure Bank server an integral assessment of the transaction risk level, i.e. the Scoring, with information about current events on the device.

> The above information, together with the signed transaction, is returned to the online banking server to decide whether to complete the transaction or promptly respond to an incident.

Secure Bank

PROACTIVE PREVENTION OF BANK FRAUD ON ALL CLIENT DEVICES IN REAL TIME

Unlike traditional anti-fraud systems, Secure Bank algorithms help detect dangerous activity prior to transactions and theft being carried out.

> Protects customers from financial fraud

> Detects social engineering attacks

> Counters money laundering

> Reduces operating costs

> Ensures compliance with legal regulations (167-FZ of 26 July 2018)

Learn more about Secure Bank:
https://www.group-ib.com/secure-bank.html

PayConfirm

MOBILE AUTHENTICATION AND E-SIGNATURE PLATFORM

PayConfirm is a software platform that performs digital signature in a smartphone to sign any types of operations, including transaction confirmation or e-documents right in a mobile device. Quick and user-friendly e-signature on mobile devices. Comparing to such methods of transaction confirmation as SMS, One-Time Password, scratch-cards, MAC-tokens and others, PayConfirm makes the procedure more secure, user-friendly and cost-effective for a bank.

> User-friendly — no more passwords retyping from SMS

> Secure — trusted service based on cryptography

> Cost-effective — reasonable economy on SMS and OTP

> Easy-to-integrate – no more hardware-based solutions, available iOS and Android devices

Learn more about PayConfirm:
https://airome.tech/payconfirm