ONLINE CARD PAYMENT WITHOUT SMS

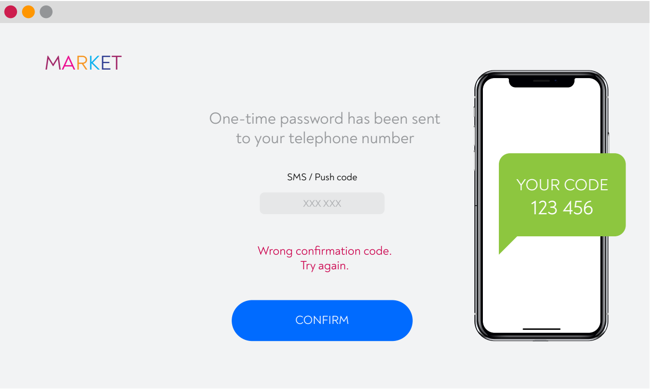
KEY PAIN POINTS

Long time for SMS OTP receive and retype	Non-delivered SMS	High level of fraud	Additional costs for banks

Online shopping has rushed in our life rapidly. It is easy, more diverse, sometimes cost effective then to loose private time for physical shopping. People are buying everything: food, clothes, consumer electronics and goods, medicine. The score of the interaction with online markets are increasing day to day. Therefore, simplifying user's experience in online is now a necessary requirement for customer loyalty and effects on retailer financial performance due to the percentage of purchases fulfilled.

BUSINESS OBJECTIVES

According to payment processing requirements by Visa© or MasterCard©, banks should provide two-factor authentication of all online operations. That's why clients receive an SMS code, which should be remembered and retyped to the special field. So, the usual scenario for customer looks like: you put the necessary goods into the basket and press "purchase". Then you are forwarded to a special secured form, where you need to enter your card details. One-time password has been sent to your telephone number. You have 0,5 minutes or less to finish the operation. If you do not receive SMS, you can request for another one. Only if all the details



MARKET

One-time password has been sent to your telephone number

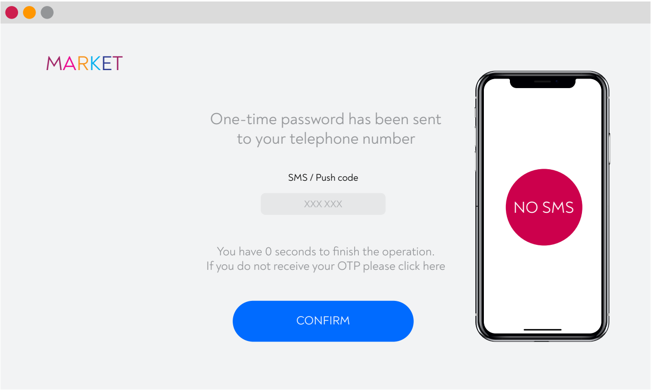
SMS / Push code

XXX XXX

Wrong confirmation code. Try again.

are entered correctly and on time, the operation will be confirmed. One of the usual exceptions is non-delivered SMS loss when the client is in roaming. For banks and Fintechs this scenario assumes additional costs for each SMS sent even if it is not delivered to the client.

Another critical point is the fact, that SMS OTP or push notifications are vulnerable to modern attacks. These codes can be easily intercepted through social engineering, SIM swap, or simply through vulnerabilities in the SS7 mobile protocol that was designed about half a century ago.



One-time password has been sent to your telephone number

You have 0 seconds to finish the operation. If you do not receive your OTP please click here

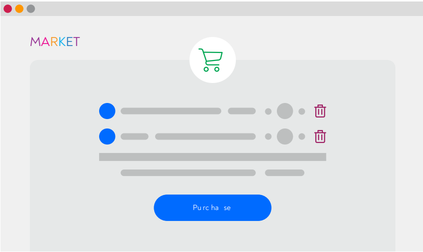
SOLUTION DESCRIPTION

PayConfirm is a software platform that performs mobile transaction authentication signature (mTAS) to authenticate or confirm any type of operations, including transactions or e-documents, on a mobile device. Based on asymmetric cryptography, it combines robust security measures with the best user experience practices. The solution has a fraud detection module which will increase your security level. Around 70 parameters about your clients' devices accumulated on your side with PayConfirm will help you to get to know more about the potential risks of your clients.

With PayConfirm onboard, your clients can shop using laptop, tablet or smartphone and confirm any online payment just with one tap in a bank's mobile application or even via active notification messages.

The new scenario became more secure and user friendly.

1



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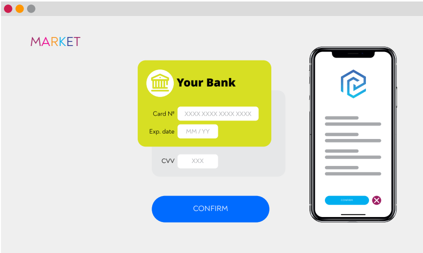


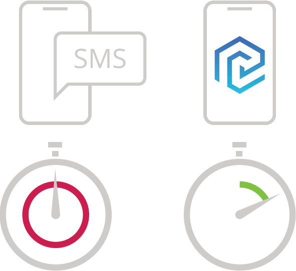
OK

Make online shopping as usual, just select the goods, add to the basket and press "purchase".

Enter your card details. Then you will receive notification over your banking app. You just need to check the purchase details and press "Confirm".

No OTP-retype, no SMS delay and dependency on mobile operator traffic- online payments available even in airplane mode.

The solution can be embedded in a bank's mobile application or operates as a stand-alone application branded in bank's colors. It will help to improve user experience within digital channels, make it faster and more secure. Minimizing costs by refusal of SMS messages and significantly reducing fraud operations will allow banking sector to focus on expansion and financial development



ABOUT US

Airome Technologies is a Singapore-based developer of cybersecurity solutions for digital banking and e-document management systems. The company provides secure client-server software to confirm or digitally sign any type of operations, including bank transactions or e-documents, on a mobile device. Our solution lowers the risk of unauthorised transactions caused by man-in-the- middle, phishing, or social engineering attacks.

Our mission is to enable our customers to provide user-friendly, secure and cost-effective digital services.

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