

Seizing the mPOS opportunity

› How to ace functional & security certification

Mobile point-of-sale

(noun). a device which can be connected to a smartphone or tablet and enables the user to accept a card or mobile contactless payment. Abbrev: mPOS

Two factors are shaping the mPOS industry

› MARKET EVOLUTION

Global increase in card and mobile payments: contactless payments market is set to be worth **\$9.88bn** by 2018.^①



Consumers now expect merchants to accept card and mobile payments:

69% of consumers aged between 18-34 would only shop at businesses that accept multiple forms of payment.^④

58% of consumers aged between 35-44

The burden of cash on national economies is substantial, representing as much as 1.5% of GDP.^②

In Belgium, for example, **93%** of the value of consumer spend is cashless.^③

The flexibility afforded by mPOS means that it can be utilised by sole traders such as taxi drivers and hairdressers.



Also used by larger retailers to offer a more flexible consumer experience.

› VERSATILITY

With EMV migration and the rise of contactless payments, mPOS is seen as an affordable way for companies to adopt a contactless POS infrastructure.



The mPOS opportunity

mPOS to grow by **400%** in four years^⑤

Installed base set to hit **54 million** units by 2019^⑥

Shipments to continue to grow at a CAGR of **40%** between 2013 and 2018^⑦

52 million units expected to be shipped worldwide in 2019^⑧

mPOS to make up **46%** of all POS terminals in 2019^⑨

Market estimated to be worth **\$43 billion** by 2018^⑩

mPOS challenges

› TECHNICAL

Security

Smartphone technology is constantly active and connected through 3G or 4G networks, making it vulnerable to malware threats and targeted attacks.



Complexity

All the components of an mPOS terminal can be disparate; this includes the user interface, software kernel, PIN pad, card reader, as well as the mobile device itself.



Functionality

There are many industry standards that need to be adhered to and key requirements from the payment systems that need to be implemented.



› MARKET

Volume

Bringing a payment terminal to market is expensive, and the economic realities of the mPOS industry mean that the margin per unit can be small.



Industries colliding

mPOS brings together two industries with completely contrasting product lifecycles. On the one hand, the development of traditional POS infrastructure is slow and protracted. On the other hand, mobile device development is rapid.



5 steps to testing success

Before an mPOS terminal product can be launched, manufacturers must prove that it is fit-for-purpose, or risk the long delays and major costs commonly associated with re-engineering their product.

1

Scoping
This is undertaken to assess which security requirements are applicable to the device.

2

Pre-assessment
This phase is designed to review all of the documentation to determine the device's security needs during the development phase.

3

Level 1 testing
This interface tests the terminal and the card reader, including all the electrical and digital components.

4

Security evaluation
Undertaken by a PCI SSC accredited laboratory, this includes a documentary review, penetration testing and hardware and software resistance to attacks.

5

Level 2 testing
Testing validates the software kernel to ensure the terminal exchanges the correct messages, amount of PIN verification and PIN verification.

Certified products safeguard brand integrity and sensitive financial data

FIME

fime.com

^① <https://marketpublishers.com/lists/16828/news.html>

^② <http://www.mastercardadvisors.com/press-releases/mastercard-study-reveals-the-mobile-point-of-sale-is-growing-cashless-economies/>

^③ <http://community.merchantsusa.com/resources/the-best-first-study-of-small-businesses-card-acceptance-report-201971.html>

^④ <http://www.paymentcardsandmobile.com/global-mpos-installed-base-to-quadruple-to-54-million-in-2018/>

^⑤ <http://www.paymentcardsandmobile.com/global-mpos-installed-base-to-quadruple-to-54-million-in-2018/>

^⑥ <http://www.paymentcardsandmobile.com/global-mpos-installed-base-to-quadruple-to-54-million-in-2018/>

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^⑧ <http://www.paymentcardsandmobile.com/global-mpos-installed-base-to-quadruple-to-54-million-in-2018/>

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