



## 2019 ATM Security: Taking a Holistic Approach to Protecting the Automated Teller Machine

04 February 2019 By: Sean Sposito, Al Pascual

Despite criminal innovations, the simplest way to illegally withdraw cash from a bank is to exploit the weaknesses inherent in the business and operation of automated teller machines (ATMs). Whether criminals are organized internationally or domestically, the accessibility of mass-produced plastic cards, the limited number of ATM vendors, and a patchwork of fixes that safeguard devices in a piecemeal fashion have created the opportunity for prolific crimes.

Crimes at cash machines should be expected given the trillions of dollars dispensed from ATMs each year. A single cassette can carry as much as one million dollars in cash — amounts unseen in brick-and-mortar, retail branches.

This report will break down into two categories the risks that ATMs face: logical attacks that focus on the weaknesses embedded within the device's software and operating systems, and physical ones that involve crooks breaking locks to cash dispensers.

### **Key questions discussed in this report:**

- How great a role will ATM investments play in the business plans of financial institutions (FIs)?
- What is the state of the ATM threat landscape?
- What solutions best combat those threats?
- What obstacles exist to implementing those solutions?

**Companies Mentioned:** Apple, Bank of America, Co-Op Financial Services, FIS, Google, JPMorgan Chase, Wells Fargo

Javelin conducted a series of interviews involving industry and vendor executives, attorneys and other relevant stakeholders to gain an understanding of the topic. Interviewees represented a variety of organizations.

Data in this report is based on information collected in a random-sample panel of 800 information technology security decision-makers, 200 of whom work in financial services. For questions answered by all 800 survey respondents, the maximum margin of sampling error is  $\pm 3.46$  percentage points at the 95% confidence level. For questions answered by all 200 financial services respondents, the maximum margin of sampling error is  $\pm 6.93$  percentage points at the 95% confidence level. The maximum margin of sampling error is higher for questions answered by segments of respondents.

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