

ATM Jackpotting Attacks on the Rise

SUMMARY

ATM malware is increasingly being used to commit a crime known as "jackpotting," in which attackers install malware that forces ATMs to dispense large amounts of cash on command.

TAKE ACTION NOW

- Secure the hood with a pick-resistant key and alarm.
- Ensure network communications use TLS 1.2e encryption.
- Keep all components (operating system, firmware, software, etc.) up to date.
- Change all default passwords.

CRITICAL ACTIONS & MITIGATION STEPS

Secure the Hood

- Use specially designed, pick-resistant keys to limit access and prevent the use of universal keys.
- Install an alarm on the top hat of the ATM to alert you of a physical breach before a cash dispense occurs.
- Include battery backup in case of power outages.

Secure the Basic Input/Output System (BIOS)

- Configure BIOS to boot only from the primary hard disk. Remove all other bootable devices from the boot order.
- Password-protect all BIOS operations with unique, non-default credentials.

Establish a Strong Password Policy

- Change all default passwords. Each ATM should have unique credentials.
- Require complex passwords that are updated every 90 days

• Encrypt Communications

Migrate existing systems to a secure TLS version, currently TLS 1.2e.

• Install and Maintain a Firewall

 Configure firewalls to allow only authorized incoming and outgoing connections required for ATM operation. Apply settings on a per-program basis rather than per port.

Remove Unused Services and Applications

 Apply the principle: "If you don't use it, disable it" to reduce attack surfaces.

Deploy Effective Anti-Malware Mechanisms

 Use white-listing solutions that offer protection against known and unknown threats, including memory protection and zero-day attack detection.

Establish a Regular Patching Process

 Keep all ATM software updated with the latest security patches to prevent exploitation of known vulnerabilities.

Harden the Windows Operating System (OS)

- Disable Windows AutoPlay.
- Use locked-down user accounts for ATM applications with leastprivilege access and no interactive desktop access.
- Use keyboard disablers to prevent unauthorized input.
- Apply file, folder, and registry permissions to restrict access to only what's necessary.
- Use Group Policies to limit functionality to only what's needed for secure ATM operation.
- **Deploy Full Hard Drive Encryption** Full disk encryption protects against offline attacks by rendering the contents unreadable if:
 - The ATM is booted from removable media
 - The hard drive is removed and accessed externally
 - The ATM core is removed.

Secure ATM Core-Dispenser Communication

- Encrypt communications between the ATM core and dispenser to prevent black box attacks.
- Only authenticated commands from the ATM software stack should be processed.

Perform Annual Penetration Testing

- Engage a third-party security provider to perform a comprehensive penetration test annually.
- Testing should simulate various attack scenarios to uncover vulnerabilities, misconfigurations, and weaknesses, helping you strengthen your ATM's overall security posture.

JOIN US FOR AN IMPORTANT LET'S TALK FRAUD WEBINAR

Register now for a special Let's Talk Fraud **tomorrow**, **June 17th** where we will be discussing how to protect your ATMs against fraud.

RISK MITIGATION RESOURCES

- White Paper: Armor Your ATMs
- Helpful links:
 - Sign up for our Let's Talk Fraud quarterly webinars
 - View additional risk resources



