Introduction

Automated Teller Machines (ATMs) are one of the most highest value customer touch points in in the banking industry. Customers are demanding extra services and more user-friendly interfaces. Banks are demanding more cost effective solutions for interfacing with their customers. ATMs now need increased flexibility to meet customer expectations and so are becoming more capable and connected than ever before.

Providing a direct interface to cash inevitably makes ATMs a target in a numerous and sophisticated ways with new methods being regularly exposed. Attack methods extend from physical (such as skimming and pin cameras) to virtual through malware. Above all, the customer must trust the ATM. Assuring integrity from the very start of the supply chain through to the installers and operators are essential.

Banks and ATM operators must protect their ATMs and meet their compliance obligations for operating in a heavily regulated industry sector. But doing so can be challenge. ATMs can be considered a single use device, they have a dedicated function, run a specific application with predictable input and output. Yet ATMs are frequently built using common operating systems such as Microsoft Windows, capable of so much more than required. They are subject to vulnerabilities and often exploited in similar fashion to a laptop or workstation.

Symantec™ Critical System Protection

Symantec™ Critical System Protection can help. It provides a policy-driven host based, least privilege approach to endpoint security and compliance.

Symantec™ Critical System Protection has two enforcement components that can be independently activated on ATM systems, prevention and detection. The prevention component has proactive enforcement rules that can stop malicious activity before it occurs, the detection component monitors for system activity as it occurs and can trigger event based actions. Both components provide granular control over logging using policy settings to give visibility into actionable events as well as the efficient management of high volume events necessary for regulatory or forensic purposes. Thus, in combination, the two components provide unique capabilities to both secure a system and to address regulatory compliance requirements. This includes regulations such as PCI-DSS that requires companies to deploy file integrity monitoring for critical system and application files changes. Detecting that an important operating system binary like svchost.exe was recently modified is very different from preventing the modification in the first place. Symantec™ Critical System Protection lets you configure and use both detection and prevention as needed to address your auditing, compliance, and security requirements.

System Hardening and Application Control

Controlling what applications can run on your ATM devices is one of the most vital steps to protecting against unauthorized access and attack. Symantec™ Critical System Protection policies provide thousands of pre-built rules that comprehensively monitor and harden the operating system of enterprise systems and require minimal tuning. Memory controls detect buffer overflows and unusual memory allocation and permissions complimenting an effective device hardening strategy. Single use devices such as ATM terminals perform predictable functions, meaning the device should always be in a known state, with known applications performing known behavior.

Symantec™ Critical System Protection can be configured to enforce application whitelisting, ensuring only predefined programs can be executed with specific attributes controlling the manner in which they are called. Furthermore, program execution can be contained within a sandbox, allowing strict control over the behavior of the application. This is particularly useful where operating system permission levels allow unnecessary actions to
Symantec™ Critical System Protection

Capabilities:

Protection
• Intrusion Prevention
• Intrusion Detection
• System Hardening
• Application Whitelisting
• Application Sandboxes
• Vulnerability and Patch Mitigation

Detection & Compliance
• Real-Time Monitoring and Auditing
• Intrusion Detection
• File Integrity Monitoring
• Configuration Monitoring
• Tracking and Monitoring of User Access
• Logging and Event Reporting

Beyond Host-based Protection

Controlling what can and can’t be run on a machine is only part of the ATM protection story. Best practices like code signing and protection, secure management, authentication and encryption all play a part in a robust ATM security strategy. To find out more about protecting ATMs and single use devices visit http://www.symantec.com/iot

Intrusion Detection

The Symantec™ Critical System Protection detection policies monitor files, settings, events and logs, and report anomalous behavior. Features include sophisticated policy-based auditing and monitoring; log consolidation for easy search, archival, and retrieval; advanced event analysis and response capabilities. To further harden the device it provides a combination of file integrity monitoring and registry integrity monitoring.

Deployment

Symantec™ Critical System Protection can be deployed in managed and standalone mode. This is particularly useful for device manufacturers who create an out of the box security policy for their product ensuring the device is adequately hardened from the moment it is activated. Manufacturers, integrators and device operators may choose to deploy the agent after market on devices being newly deployed or previously installed. Administrators can opt for configurations where the agent will communicate with the management console for policy updates and reporting providing real time visibility of your security posture. Symantec™ Critical System Protection.

Protection supports modular installation of components, deploying only the code required to perform the protection and/or detection functions as defined in the agent configuration. This allows manufacturers and device operators to efficiently deploy in resource-constrained environments.

About Symantec

Symantec Corporation (NASDAQ: SYMC), the world’s leading cyber security company, helps organizations, governments and people secure their most important data wherever it lives. Organizations across the world look to Symantec for strategic, integrated solutions to defend against sophisticated attacks across endpoints, cloud and infrastructure. Likewise, a global community of more than 50 million people and families rely on Symantec’s Norton and LifeLock product suites to protect their digital lives at home and across their devices. Symantec operates one of the world’s largest civilian cyber intelligence networks, allowing it to see and protect against the most advanced threats. For additional information, please visit www.symantec.com or connect with us on Facebook, Twitter, and LinkedIn.

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