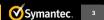


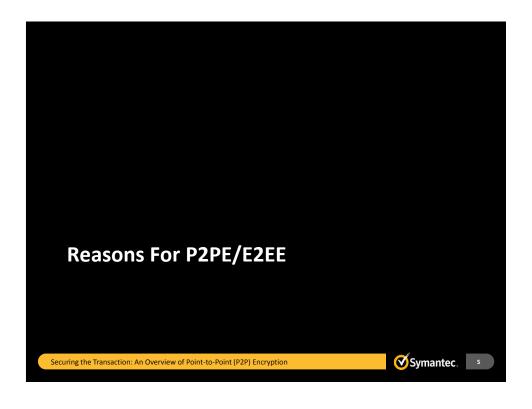
What Is P2PE?

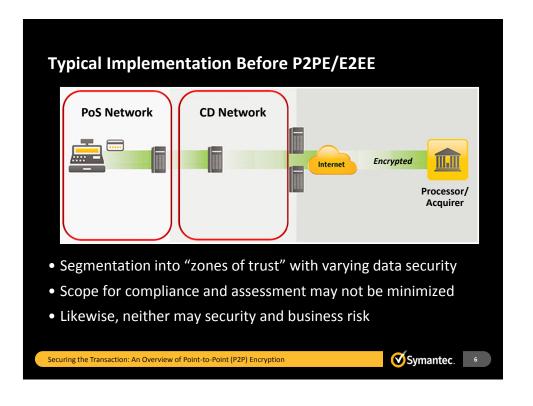
- Point-to-Point Encryption; may also be known as End-to-end **Encryption (E2EE)**
- A way to reduce not eliminate scope for PCI DSS compliance and assessment
 - Also to increase security, and to reduce risk and liability
- PCI has the P2PE Standard
- As with all things PCI, "it depends"

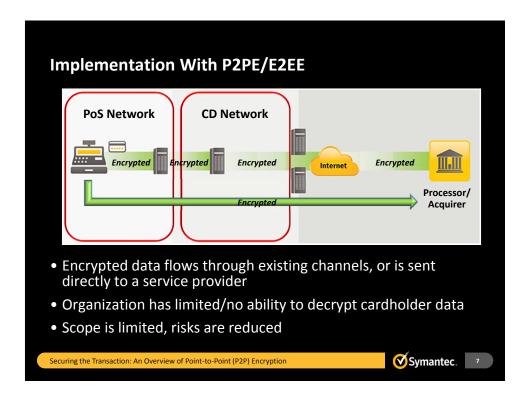
Securing the Transaction: An Overview of Point-to-Point (P2P) Encryption

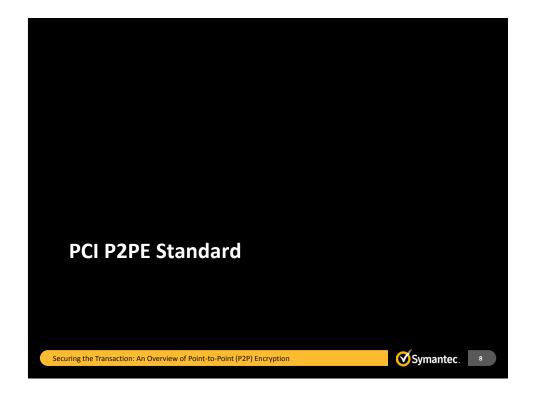


PCI DSS and Terminology Refresher Build and Maintain a Secure Network and 1. Install and maintain a firewall configuration to protect cardholder Systems data **2.** Do not use vendor-supplied defaults for system passwords and other security parameters Protect Cardholder Data 3. Protect stored cardholder data 4. Encrypt transmission of cardholder data across open, public networks Maintain a Vulnerability Management 5. Protect all systems against malware and regularly update antivirus software or programs **6.** Develop and maintain secure systems and applications Implement Strong Access Control Measures 7. Restrict access to cardholder data by business need to know 8. Identify and authenticate access to system components 9. Restrict physical access to cardholder data **Regularly Monitor and Test Networks** 10. Track and monitor all access to network resources and cardholder data **11.** Regularly test security systems and processes Maintain an Information Security Policy 12. Maintain a policy that addresses information security for all PAN, SAD, CHD, and CDE (oh my!) Symantec. 4 Securing the Transaction: An Overview of Point-to-Point (P2P) Encryption







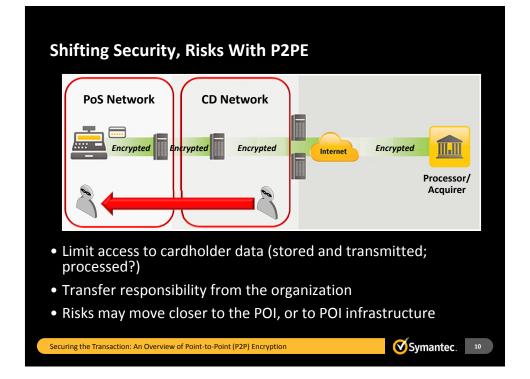


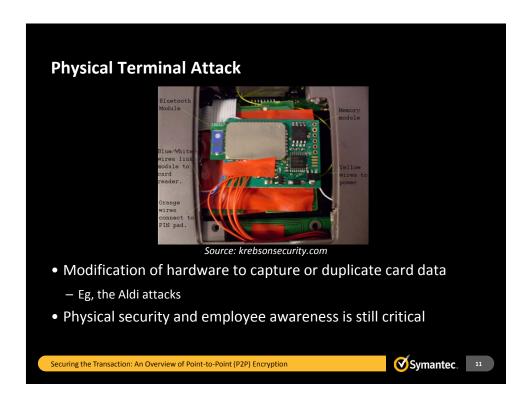
PCI P2PE Terminology

- PCI P2PE Standard
- PTS PIN Transaction Security (PCI standard)
- POI Point of Interaction (for P2PE, evaluated and approved via the PCI PTS program, with SRED listed, enabled and active)
- SRED Secure Reading and Exchange of Data (PTS module defining POI device security requirements)
- HSM Hardware/Host Security Module (protected hardware device that provides a secure set of cryptographic services)
- SCD Secure Cryptographic Device (implements cryptographic logic or processes)

Securing the Transaction: An Overview of Point-to-Point (P2P) Encryption



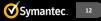


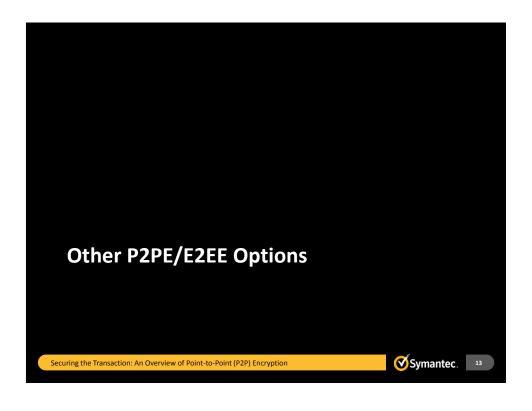


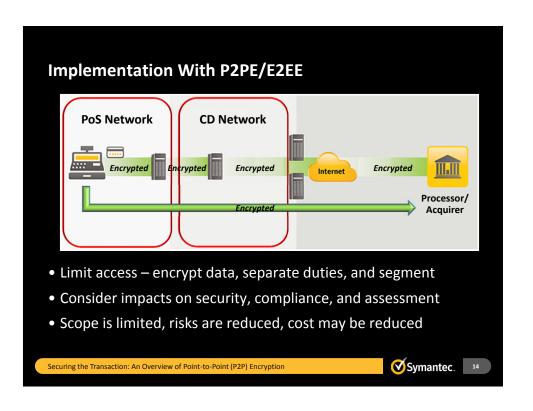
A High Bar

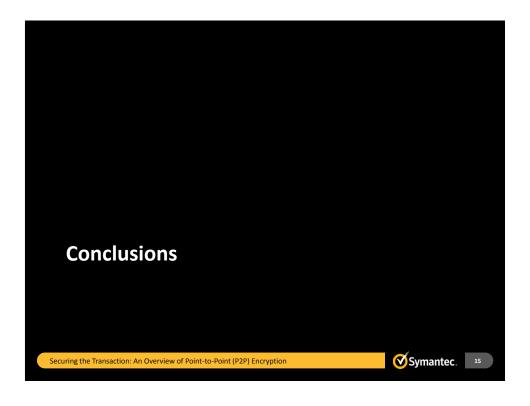
- Requires PTS and SRED compliant POI's, P2PE compliant solutions and applications
 - Possible rip-and-replace
 - Cost/benefit versus PCI DSS operations
 - Currently 3 solutions and 3 applications certified
- Service providers are in scope, and selection must be considered carefully
 - Assessment status, third party risk, liability, etc.
- Requires assessment and validation
- Subject to many of the same issues as PCI DSS compliance (people and processes, on top of technology)

Securing the Transaction: An Overview of Point-to-Point (P2P) Encryption









Conclusions

- Consider the end game business goals, security, compliance, risk, liability, etc.
- P2PE requires PTS and SRED compliant POI's, P2PE standard compliant solutions and applications
 - Possible rip-and-replace; cost/benefit versus PCI DSS operations
 - Currently 3 solutions and 3 applications certified
- E2EE and/or principles implemented within the CDE may achieve some of the same goals
- Third parties are in scope, and selection must be considered carefully
 - Assessment status, third party risk, liability, etc.
- Issues as PCI DSS compliance come into play (people and processes, on top of technology)

Securing the Transaction: An Overview of Point-to-Point (P2P) Encryption

