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116 – Security Final Project

*Preliminary Outline*

1. Introduction: “POS == POS”

a. The ubiquity of computers in retail

b. What are POS systems?

1. To the Community
2. Why study consumer/retail security?
3. Intro to recent attacks at Target/Home Depot
4. Possible intro to “Learning from our mistakes in retail security”
5. POS attacks
6. Anatomy of an attack
7. Why POS systems are vulnerable
8. Case studies: Target and Home Depot breaches in detail
9. Target
10. BlackPOS malware
11. Ramifications of Target attack (“what did they take?”)
12. Home Depot
13. Details of Home Depot attack
14. Ramifications of Home Depot attack
15. Defenses
16. Learning from our mistakes in retail security
17. Learn by Example: Lessons for Home Depot from Target
18. Defending against POS attacks: a guide for retailers
19. General lessons for retailers / do retailers take security seriously?
20. What can YOU do?
21. It’s your data: defenses available to the consumer
22. Conclusion/Summary
23. Supporting Material: Not sure yet. Would like to meet to talk about it.
24. Example References

http://krebsonsecurity.com/2014/01/a-first-look-at-the-target-intrusion-malware/

http://www.symantec.com/connect/blogs/demystifying-point-sale-malware-and-attacks