Exploiting SCADA Systems

What is SCADA?

Supervisory Control and Data Acquisition



WATER SYSTEM OVERVIEW PH Alaska HART RES. BOOSTER Booster TRAIL RES. #2 90.0 Arras W.T.P. PH Devereaux Booster POUCE METER TRAIL RES. #1 R 94.4 % 34.8 % 86.7 1% V BP 1 BP 3 BP4 E LP 7.8 755 R HLP#1 TOTAL Loran Suction psi HLP#2 43.1 74 LLP #3 Sewer View LLP#4 Suction psi Zone 3 Flow Main Clar 52 80 28.9876 MAN DOWN PH Zone psi Suction psi BOOSTER Ads Clar. Zone 3 Pres 1401 101 53 55.765.3 208MAIN MENU Loran psi Pressure psi Pressure psi Filter Flow P Loran Pres Suction 453 0 302 1861160883 ALL ALARMS Flow USgpm Pressure psi Flow USgpm A Loran Flow P Loran Flow Clar. Flow ARRAS DEVEREAUX HART WTP AHB PHB



Who uses SCADA?





Nuclear Plants







Space Stations







Why are SCADA systems vulnerable?

No Anti-Virus Software

Little authentication, sharing of credentials

Something somewhere is connected to something that is connected to the Internet

Security has been implemented as an add-on instead of being build around the product from the ground up

Vendors take their time with updates, managers take their time updating

SCADA Components

RTU

Remote Terminal Unit



PLC

Programmable Logic Controller



Human Machine Interface

HMI



Who abuses SCADA?





Hackers (up to no good)



Security Professionals






Sploitware

A framework designed specifically to penetration test SCADA systems

Can check SCADA systems for Oday vulnerabilities

Exploitation is optional but readily available

Similar concept to CANVAS, VulnDisco, and Core Impact yet focused on SCADA software



Conclusion

SCADA software is just as vulnerable as your typical download.com software

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