

Sciencetech's 2010 Symposium Fleet Asset Management & Optimization Solutions

Control Systems Asset Protection at the Electronic Security Perimeter

A Business Perspective

August 18, 2010



Introduction

- Kids - my --- is faster / better than your ---
- Adults - my diode is faster/ better than your diode
- Diodes are cool! Right? Not really!
- A diode is a diode, it's one-way!
- Who do you want to provide your security solution?



Owl Founder & Majority Owner

- Dr. Ron Mraz, Ph.D., President & CTO
- Research Scientist
 - Westinghouse
 - IBM
- Carnegie-Mellon, 1992
- Founded Owl Computing -- 1998



Minority Owner

- Dave Graham, Vice President
- Owl since 2000
- Venture Capital Advisor/Investor
- Energy and Telecommunications
 - Manager – regulated industries practice ‘70s
 - Chief Financial Officer – nationwide utility ‘80s
 - Chief Executive Officer – regional utility ‘90s
- New York University – MBA
- University of Missouri – Bs BA



Owl Computing Technologies, Inc.

- Founded 1998 -- US owned & self-funded
- Business philosophy
Product solutions, not projects
- Awards - INC 5000, Washington Fast 50
- Record customer growth in 2008, 9 & 10
- Over 1,000 security solutions deployed



Owl Computing Technologies, Inc.

- Develops & markets
 - Electronic Security Perimeter Solutions
 - One-way transfer systems
 - Continued product support & updates
 - Configuration management support
- Licensed technology
 - Sandia Corporation 1997 patent
 - International Business Machines
- Intellectual property - **DualDiode®**



Government/NGO Customers

- U.S. Intelligence Community
- Department of Defense
 - Air Force, Army, Navy, DISA
- DoJ, DHS, DoS, DoE, & other US Agencies
- European and Asian ministries & agencies
- Telecommunications, Energy and Utilities Industries



Energy & Utilities Industry Customers

- Nuclear & Fossil Power Generators
 - Tennessee Valley Authority
 - Duke Energy Company
 - American Electric Power
 - Energy Northwest
 - Arizona Public Service
- Over 20 operational sites in US



Nuclear Industry Customers

- Department of Energy, NNSA
- Uranium Enrichment Processor
- Nuclear Plant Contractor
- Nuclear Weapons Company
- National labs:
Sandia, Lawrence Livermore,
MIT Lincoln Labs, Idaho National Lab



Owl Products and Solutions

Enterprise Solutions



Owl Controlled Interface DualDiode®

Transfer Application Proxies:

- Files/Directories
- UDP/TCP
- Native vendor support
- Owl Application support



Service and Support



Compliance Documentation

Electronic Perimeter Security Solutions



Compliance With DualDiode® Technology

- NERC-CIP compliant
- Satisfies NIST network security controls
- Certified by National Information Assurance Partnership – NSA



Owl Performance Management System

- Presents Global View of Monitored Boundary Crossing
 - Monitor one or entire fleet security perimeter device
 - Real time performance over a ten minute window
- Displays Performance Data for Owl Applications
 - File transfer performance
 - Errors noted from send-only & receive-only log files
- Supports Apache Web-server
- Browser-Based Monitoring System
 - Supports Microsoft Internet Explorer 6+, Mozilla
 - User Authentication, Data Encryption



Owl Implementation

- Business benefits and ease of use,
- Ease of deployment
- Single boundary crossing (one set of cards,)
- One software application
 - Multiple data types
 - Multiple data streams
 - Owl Performance Management Service
- Low life cycle cost of ownership



Owl Implementation

- Equipment footprint
 - Maximum is 2 servers
 - Single box solution
 - Zero footprint option
- Server operating system security
 - Best practices (STIGS, SRR-no Cat 1 or 2)
 - Mandatory & Role Based Access Control option
- Real-time monitoring of all fleet installations through a single interface



Who should move the data?

- Control system/SCADA vendors should provide transport to the network boundary
 - Likely most efficient interface
 - Avoids another vendor in the mix
 - Leading vendors providing transfer to boundary
 - Scientech R-Time example
- Early adopters needed specialized interfaces
 - Specialized interfaces only when needed
- Owl Network service products
 - Transport layer protocols - all applications
 - Native vendor support
 - Owl application support



Security & Reliability with Owl

- Simplicity and ease of use



*Owl Electronic Perimeter
Security Solution -- EPSS*

- Multiple protocols, data types, interfaces
- Supports transfer of all applications
- Secure operating system
- High-level of secure data transfer expertise



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