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Birds of a Feather: Supporting Secure Systems

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Chemistry & Materials Science

Birds of a Feather: Supporting Secure Systems

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Abstract

Over the past few years Lawrence Livermore National Laboratory has begun the process of moving to a diskless environment in the Secure Computer Support realm. This movement has included many moving targets and increasing support complexity.

We would like to set up a forum for Security and Support professionals to get together from across the Complex and discuss current deployments, lessons learned, and next steps. This would include what hardware, software, and hard copy based solutions are being used to manage Secure Computing.

The topics to be discussed include but are not limited to: Diskless computing, port locking and management, PC, Mac, and Linux/UNIX support and setup, system imaging, security setup documentation and templates, security documentation and management, customer tracking, ticket tracking, software download and management, log management, backup/disaster recovery, and mixed media environments.





Goal(s)

Discuss what hardware, software, and hard copy based solutions are being used to manage Secure Computing.

Cover current deployments, lessons learned, and next steps.





Diskless Computing Technologies

- Ardence BXP
- Apple NetBoot
- Sun One
- Linux LTSP





Port Locking and Management

- Hardware based
 - Physical controls
 - BIOS changes
 - OpenFirmware changes
 - Lock boxes
 - Racks
 - Vaults





Port Locking and Management cont.

- Software Based
 - Port Management Software
 - Network based
 - Ardenne PortBlocker
 - LANDesk
 - Locally installed
 - SecureWave Sanctuary
 - Reflex Disknet Pro4
 - Centennial Devicewall
 - Device Lock





Secure System Setup Techniques

- Mac, PC, Linux/UNIX
- Imaging
 - Ghost, etc
- Documentation and templates
- Security settings, documentation and templates
 - NNSA, Self developed spreadsheets, etc.





Customer Tracking

- Helpdesk solutions
 - Remedy, self developed solutions
- Customer Information
 - Ph, LDAP, Sharepoint





Software management

- Version Control
- Downloads
 - Md5 hash
- Licensing





Log management

- Centralized
- Non-centralized
- Physical log books
- Audits





Backup/disaster recovery

- Software
- Centralized
- Non-centralized
- Media storage





Mixed media environments

- USB
- FireWire
- Networking
- Other ports



Round Table



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