

Data Loss Prevention

Data Protection

- ▶ A concentrated focus has been placed on ensuring and improving the protection of unclassified, sensitive data (such as Personally Identifiable Information (PII))
- ▶ Data Loss Prevention (DLP) was selected as one method for protecting data
- ▶ Data Loss Prevention is the practice of identifying and protecting sensitive data from unauthorized use and transmission.

DLP Tool Evaluation and Selection

- ▶ Completed a tool evaluation and select a DLP tool
 - Solicited and received quotes for DLP tools
 - Evaluated comprehensive DLP Tool suites from two vendors
 - Both tool sets met mandatory requirements
 - Selected Tool Suite

- ▶ Technical and cost benefits of selected tool
 - Capability to configure scanning processes to minimize the performance impact on the system and clients.
 - Incremental scanning – All data is scanned once, but in subsequent runs only new or changed data is scanned.
 - Vendor partners with Microsoft on integration with MS Rights Management (we have a high proportion of MS infrastructure)
 - All communications between sensors are encrypted with SSL
 - Provides extensive hands-on consulting to define policies, configure and install the product
 - Lower cost

Data Loss Prevention capability focus areas

- ▶ The DLP tool will include capabilities to identify sensitive data and provide automated remediation actions on
 - data in motion (network); outbound traffic – email, proxies
 - data at rest (datacenter); in storage on corporate files systems and databases
 - data in use (endpoint); on individual client desktops
- ▶ Remediation Actions will be automated through the DLP tool.
 - Delete
 - Encrypt in place
 - Move to secure location
 - Quarantine
 - Block

Accomplishments

- ▶ Coordinated with subject matter experts from across IT disciplines (system admin, DBA, proxy, email, etc.)
- ▶ Implemented the Datacenter component to scan key corporate file systems on a periodic basis for some PII data.
- ▶ Implemented Network component to scan unencrypted, outbound email and proxy (web) traffic for some PII data and some specific Official Use Only (OUO) data.
- ▶ Partnered with CIO representatives to define policies/procedures to support scope of scanning activity and mitigation processes
- ▶ Developed and implemented Communication Plan to provide information to the work force, including a DLP website
- ▶ Coordinated with Help Desk organization to provide first line support
- ▶ Established Production capability and transitioned completed components
- ▶ Developed processes to accommodate requests for service and continuous enhancement
- ▶ Conducted first pilot for desktop component in a key business area for protection of PII data; preparing to conduct second pilot
- ▶ Conducted Lessons Learned

Future Phases of DLP tool implementation

- ▶ Developing plans for additional phases
- ▶ Continued transition of completed capabilities to “production” organization
- ▶ Potential Phases:
 - Expansion of scanning to include additional PII attributes
 - Expansion of scanning to include additional OUO data (e.g. Export Controlled, Proprietary)
 - Implementation of the Desktop capabilities
 - Expansion of Datacenter scanning to additional repositories
 - Expansion to other networks