Data Loss Prevention Overview

Bob Bagheri
Chesapeake Netcraftsmen

Cisco Mid-Atlantic Users Group

March 2010

Background Information

- **Bob Bagheri, Network Consultant**
- **CCSP,CCNP,CICSA**
- **Working with Netcraftsmen since 2007**
- **Prior to Netcraftsmen mostly internal OPS**
  - **Fortune 500**
  - **Telco**
  - **Financial Institution**
  - **Biotech**

Agenda

- ## What is DLP?

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Agenda

- ## What is DLP?

- ## What/Why/How

  – **What are we protecting?**

  – **Why are we protecting it?**

  – **How are we protecting it?**

Agenda

- **What is DLP?**

- **What/Why/How**
  - **What are we protecting?**
  - **Why are we protecting it?**
  - **How are we protecting it?**

- **Three functional areas of DLP**
  - **Policies**
  - **People**
  - **Technology**

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- **For Cisco engineers: EDLP - Egress Data Loss Prevention**

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TYPES OF THREATS

- **Loss of IP (Intellectual Property)**

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- **Over Worked Employees**

Why Do We Need DLP Methods

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- **Going Out Of Business**

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  - **Additional Creative DLP Training Needed For All Users**

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  - **Classification leads to proper response methods.**

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- **Culture Dictates Behavior**
  - **Smartphone**
  - **CVO**

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    - **Tangible costs approximately $220 per user**
      - **Paper notifications, mandatory credit monitoring, regulatory compliance failure penalties, etc.**
    - **Intangible costs difficult to calculate**
      - **Brand un-loyalty**
      - **Corporate Reputation**
      - **(Intel IP example)**

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HOW DO WE PROTECT OUR DATA?

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  - **Tools similar to AAA accounting, NetFlow help know "appropriate user behavior".**
  - **Utilize SIEM tools for rapid response.**

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- **Policy**

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  - **Create a internal "security policy evangelist" team or person within your company.**

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  - **Treat data like $Cash$. Most people hate losing cash and try extra hard to keep it safe. (Most people don't send cash in mail, similarly they might think about encrypting data before sending it via the Internet).**

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  - **Don't assume that your employees are already aware of IT security best practices.**

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- ## People

  "**Company data continues to be put at risk not by <u>ingenious code breaking on the part of hackers but by careless mistakes made by employees.</u> The global study by Insight Express and funded by Cisco, concludes that <u>education of workers to the impact of their behavior should be the first line of defense.</u> "**

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"The findings of inadequate training come at a particularly dangerous time. The <u>penalties and marketplace damage from data losses are bigger than ever.</u> In addition, data loss is increasingly occurring not from hackers or deliberate theft but due to <u>mishandling, human error, carelessness, technical failure, or other inadvertent cause.</u> "

Intellectual Property Loss

- **According to The Associated Press, 33-year-old Biswamohan Pani downloaded the confidential documents - worth up to $1 Billion dollars (insert Dr. Evil grin here) - back in June after resigning from rival microprocessor manufacturer Intel. However, before leaving the company, he used his remaining paid vacation days, thus sat at home with full access to Intel's network and earning a paycheck while gathering trade secrets. At the same time, Pani also began working for AMD. Naturally, the situation sounds rather suspicious on AMD's part.**

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TECHNOLOGY

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  - **The chosen DLP technology must enforce your Information Security Policy remediation actions.**

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- **Two leaders in DLP technology**
  - **Cisco**

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    - **CSA (Incredible DLP End Point Enforcement)**

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    - **IronPort (Integrated RSA/DLP Engine)**
      - **Email**
      - **Web**

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  - **Integrated security in all devices. (Encryption, 802.1x, NetFlow, TrustSec).**

Cisco Security Agent
Always Vigilant Comprehensive Endpoint Security
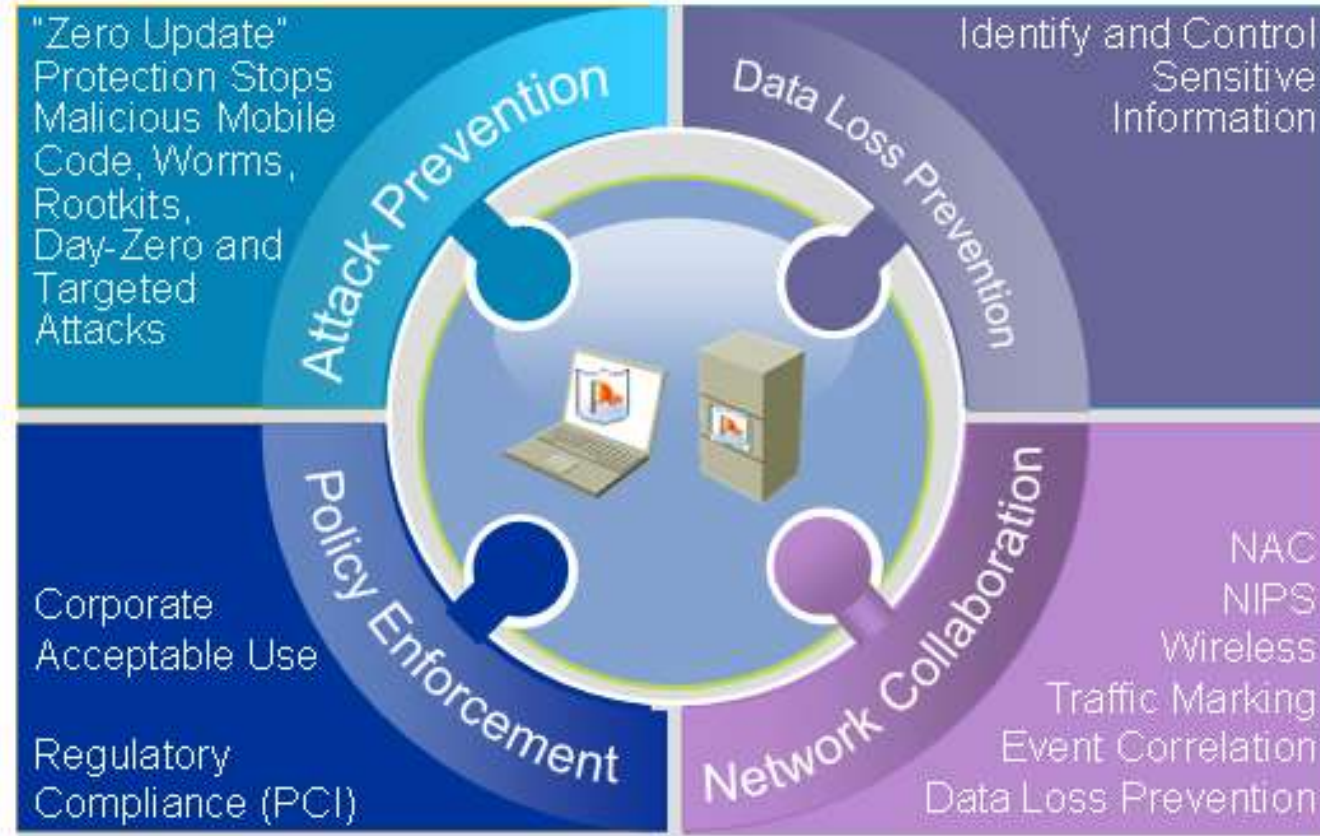
- **Laptop – Desktop Protection**

- **Server Protection**

- **POS Protection**

• **SINGLE INTEGRATED AGENT AND MANAGEMENT**

Policies in IronPort "RSA Email DLP" Add-on

Policy Category	Number of Policies	Examples
Privacy Protection	52	•US Social Security Numbers •Canada Social Insurance Numbers •Australia Tax File Numbers
Regulatory Compliance	34	•Payment Card Industry Data Security Standard (PCI-DSS) •HIPAA (Health Insurance Portability and Accountability Act) •FERPA (Family Educational Rights and Privacy Act)
Acceptable Use	11	•Suspicious Transmission - Spreadsheet to Webmail •Encrypted and Password-Protected Files
Company Confidential	6	•Network Diagrams •Corporate Financials
Intellectual Property Protection	2	•Source Code

Data Loss Prevention Foundation
Integrated Scanning

•**Custom Content Filters**

•**Compliance Dictionaries**

•**Smart Identifiers**

•**Users**

•**Outbound Mail**

•**Weighted Content Dictionaries**

•**Attachment Scanning**
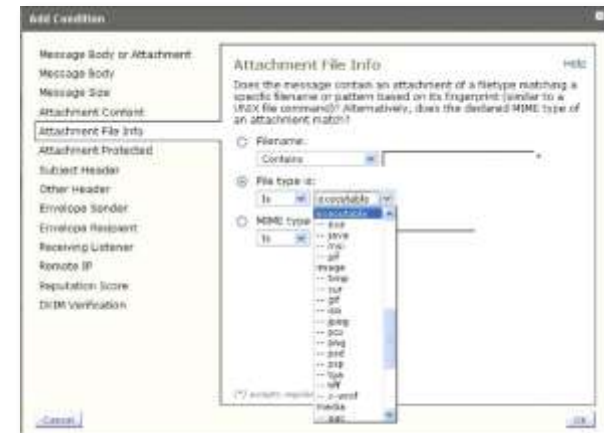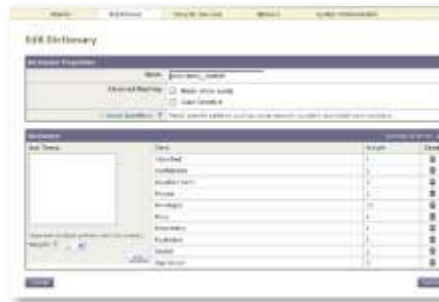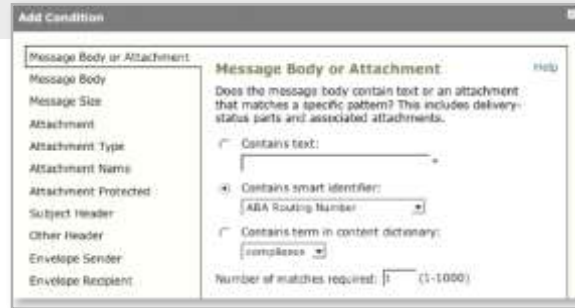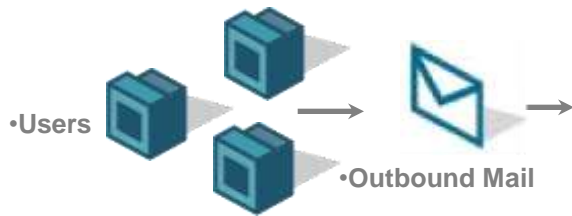
•*Integrated Scanning Makes DLP Deployments Quick & Easy*

Data Loss Prevention Foundation
Integrated Remediation

•Remediation: Encryption

•Remediation: Notification

•Users

•Outbound Mail

Edit Policy Quarantine

•Remediation: Quarantine

Content Filters

•Remediation: Reporting
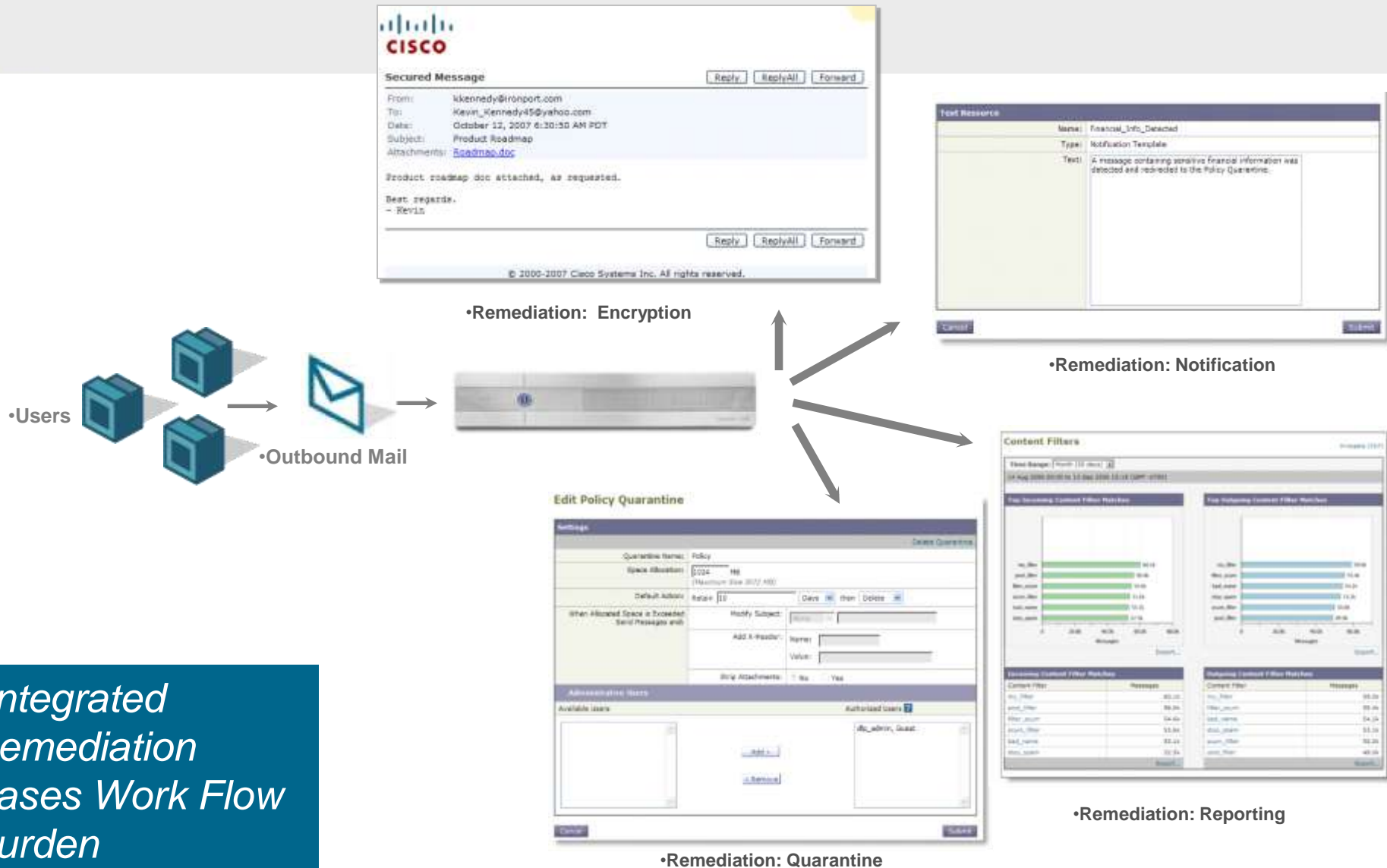
•*Integrated Remediation Eases Work Flow Burden*

•Scanning Work Flow

•Remediation Work Flow

•Pre-Defined Filters

•Compliance Dictionaries

•Compliance Dictiona

•Smart Identifiers

•View HIPAA Violation Report

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- **RSA DLP Suite**

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- ## RSA DLP Suite

- ## Complete end to end solution

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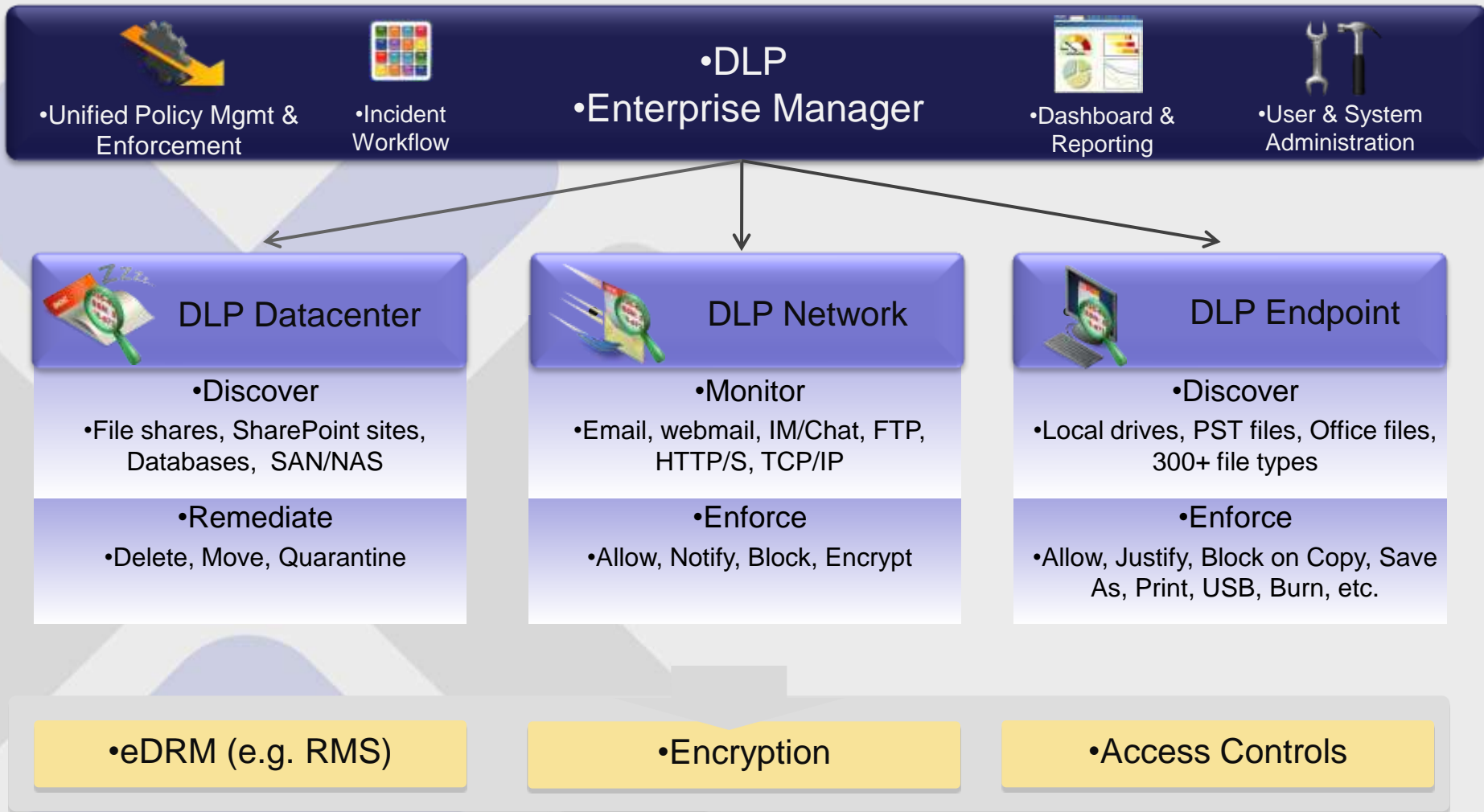
- **RSA DLP Data Center**

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- **RSA DLP DATA CENTER**

- **RSA DLP NETWORK**

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- **RSA DLP NETWORK**

- **RSA DLP END POINT**

•RSA Data Loss Prevention Suite

•DLP
•Enterprise Manager

•Unified Policy Mgmt & Enforcement

•Incident Workflow

•Dashboard & Reporting

•User & System Administration

DLP Datacenter

•Discover
•File shares, SharePoint sites, Databases, SAN/NAS

•Remediate
•Delete, Move, Quarantine

DLP Network

•Monitor
•Email, webmail, IM/Chat, FTP, HTTP/S, TCP/IP

•Enforce
•Allow, Notify, Block, Encrypt

DLP Endpoint

•Discover
•Local drives, PST files, Office files, 300+ file types

•Enforce
•Allow, Justify, Block on Copy, Save As, Print, USB, Burn, etc.

•eDRM (e.g. RMS)

•Encryption

•Access Controls

CONCLUSION

- **POLICY**

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- **TECHNOLOGY**

ALWAYS REMEMBER THE 10/10/80 RULE ☺