



The Security Division of EMC

The Truth about Data Loss

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Principal Consultant – (DLP Specialist)
Asia Pacific and Japan

RSA Data Loss Prevention

Data Breaches Overview

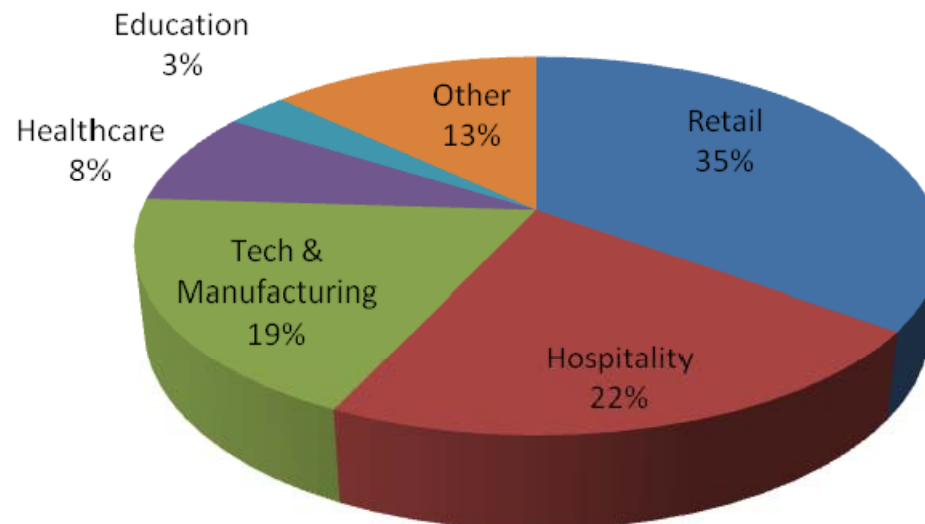
RSA DLP Solution

Five Critical Factors

What's Happening To Customer / Employee Data



Data Leakage Incidents Between 2005-2008



Information Leakage

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Workers 'stealing company data'

By Maggie Shields
Technology reporter, BBC News, Silicon Valley

Six out of every 10 employees stole company data when they left their job last year, said a study of US workers.

The survey, conducted by the Ponemon Institute, said that so-called malicious insiders use the information to get a new job, start their own business or for revenge.

"They are making these judgements based out of fear and anxiety," the Institute's Mike Spinney told BBC News.

"People are worried about their jobs and want to hedge their bets,"



The study said companies fail to take proper steps to stop data theft

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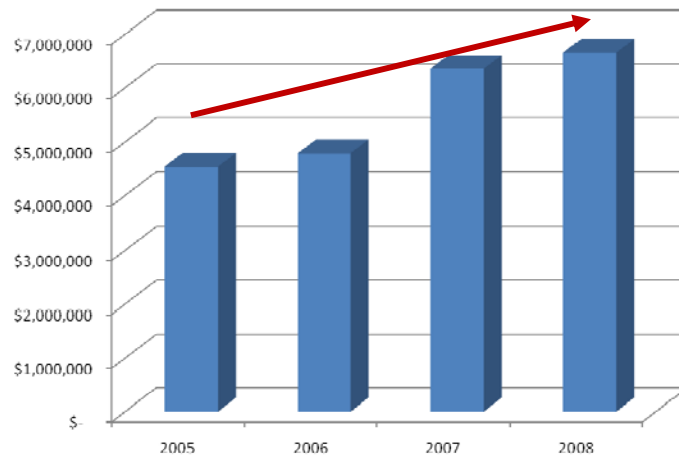
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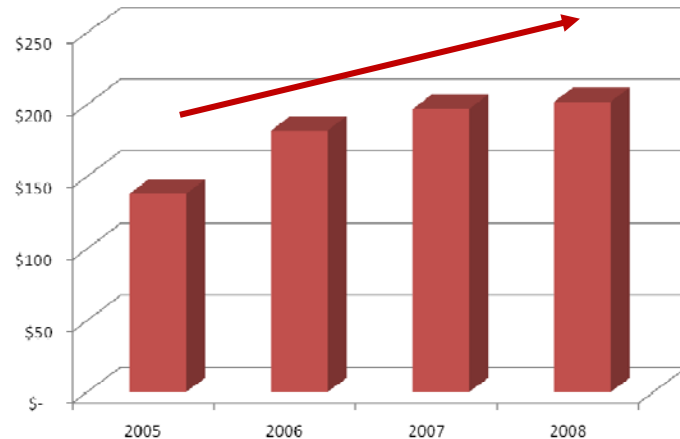
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Cost of Data Breaches

Average Cost Per Breach



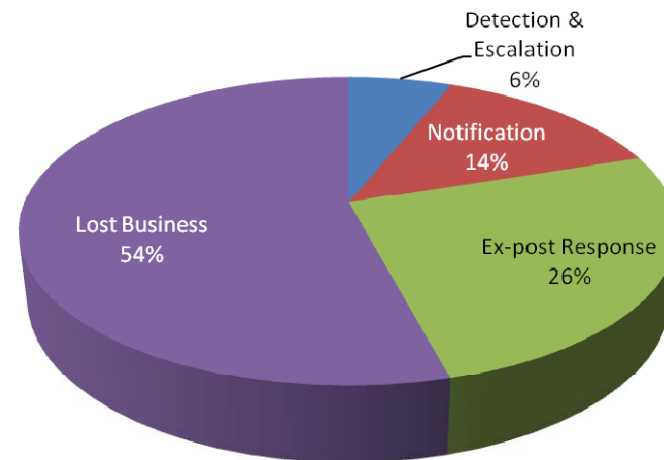
Average Cost Per Breached Record



5

Source: Ponemon Institute 2008 Annual Study on Cost of a Data Breach

Breach Costs Break Down

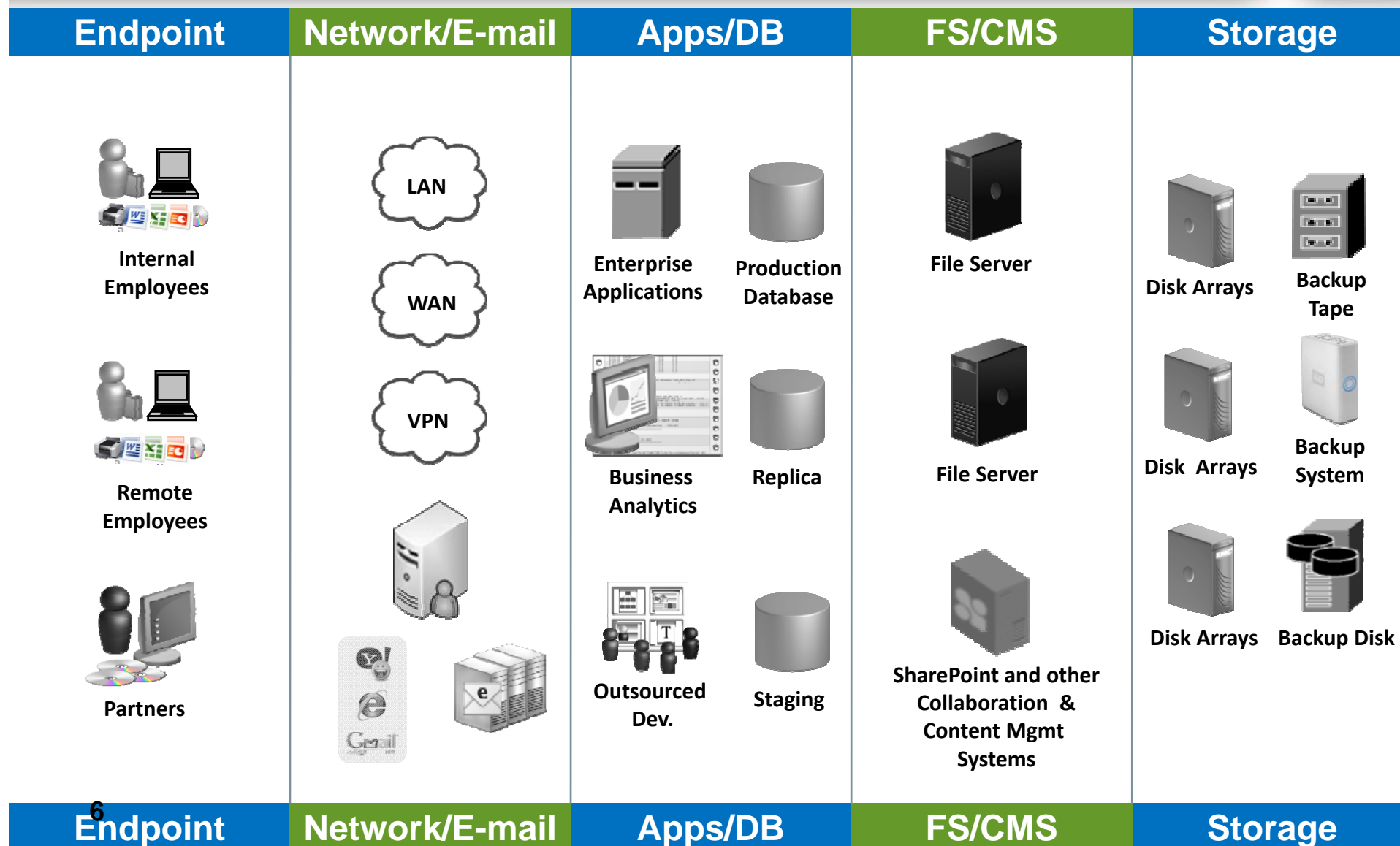


- ➔ Tangible financial impact
- ➔ Long-term damage to brand equity
- ➔ Total cost per breach is increasing
- ➔ 44 US States have notification laws
- ➔ EU & Australia data privacy policies
- ➔ MAS IBTRM Guidelines

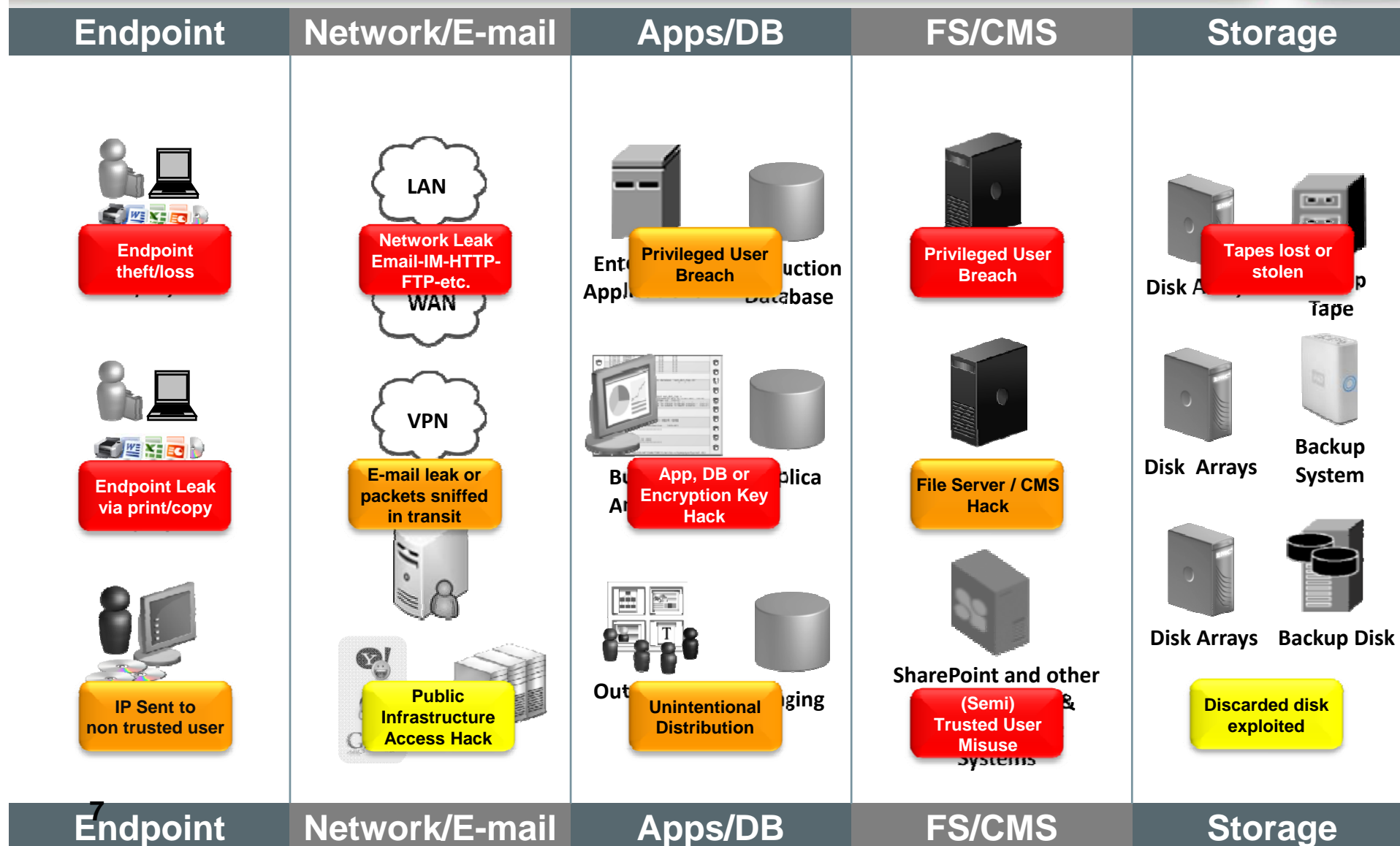


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Why is Information Security So Difficult?



We Are Exposed At Every Point



Risk Aligns Security Investments to the Business

Revenue Growth

Cost Reduction

Customer Retention

Business Continuity

Compliance

Sensitive Information

What information is important to the business?

Risk

What risks are we willing to accept, what risks do we need to protect against to enable the business?

Where does it go?

What bad things can happen?

Security Incidents

Endpoint

Network

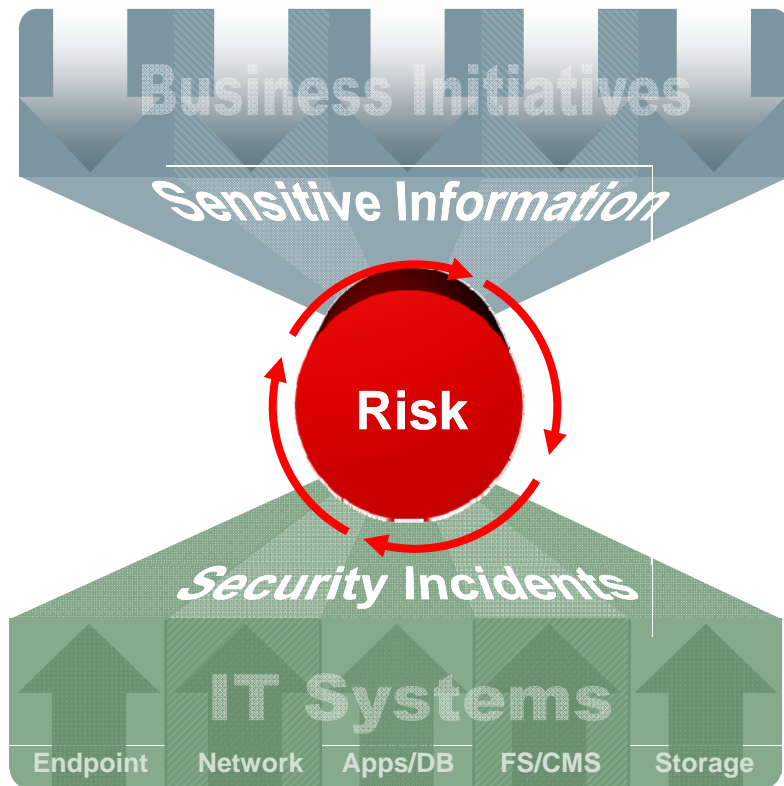
App / DB

FS/CMS

Storage

Information Risk Management

a strategy for protecting your most critical assets



Information-centric

Clarifies business context and reveals potential vulnerabilities

Risk-based

Establishes a clear priority for making security investments

Repeatable

Based on foundation of broadly applicable best practices and standard frameworks

Reveals where to invest, why to invest, and how security investments map to critical business objectives

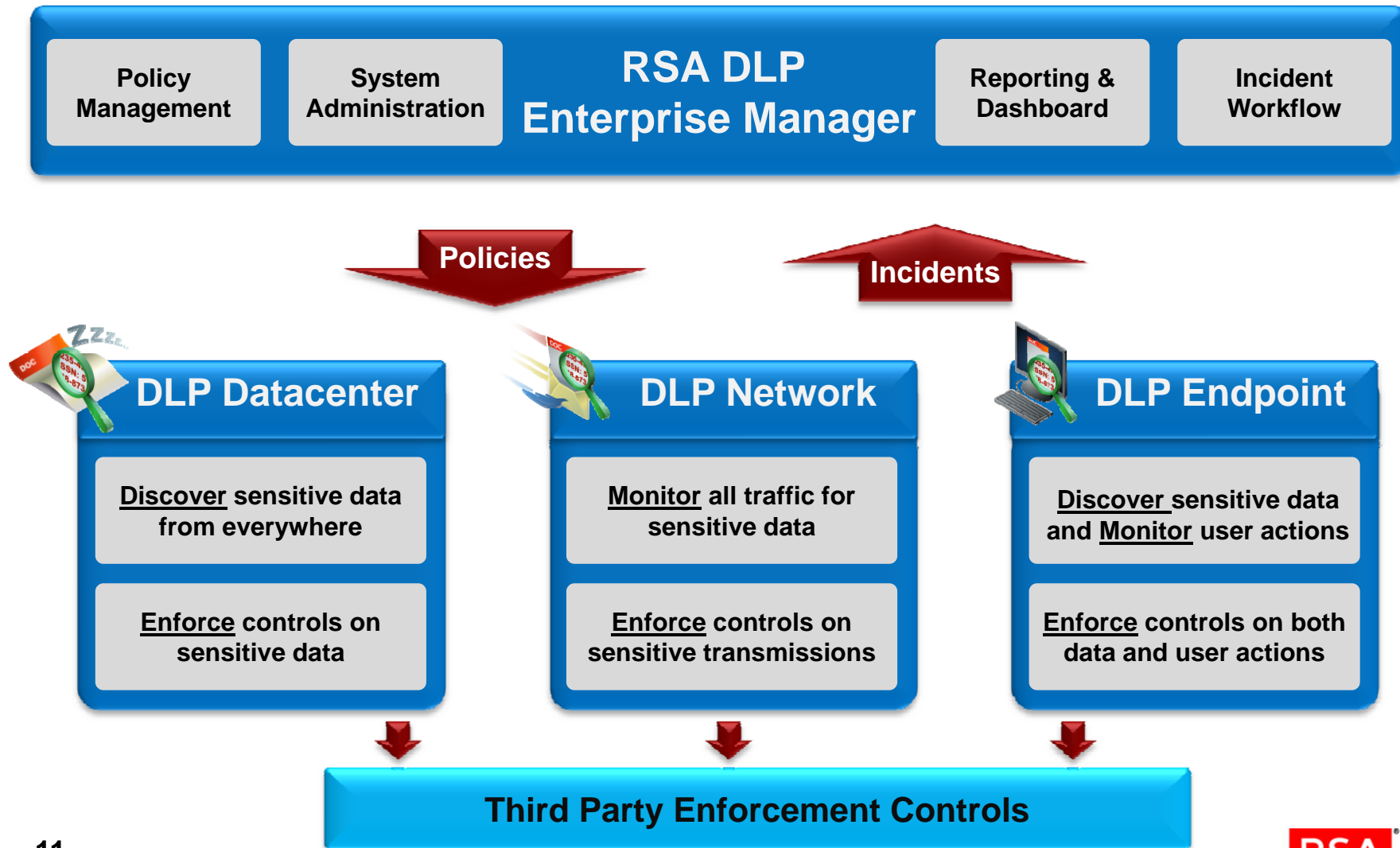
RSA Data Loss Prevention

Data Breaches Overview

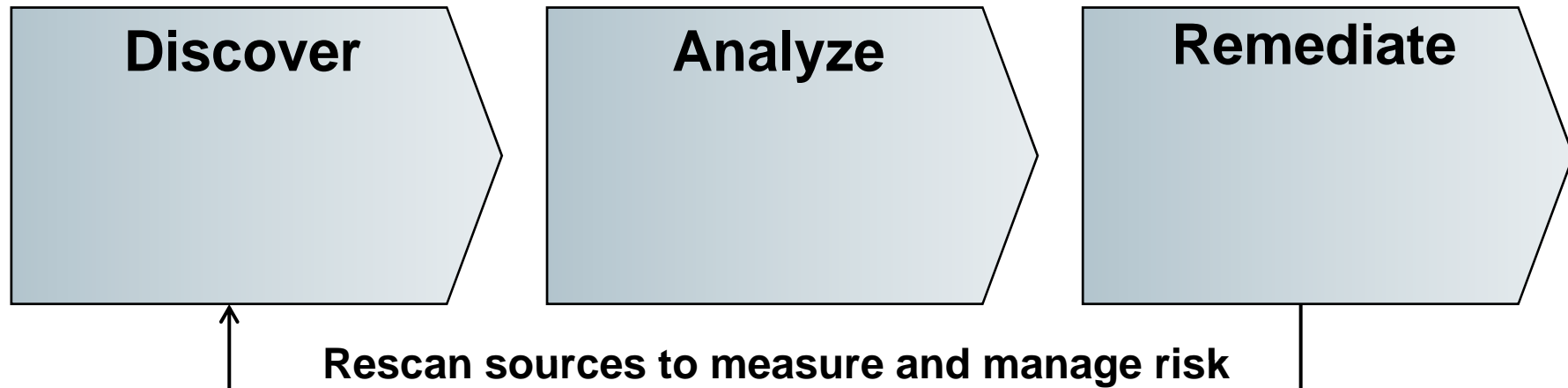
RSA DLP Solution

Five Critical Factors

RSA Data Loss Prevention Suite



Reducing Your Sources of Risk: Data at Rest



File shares, Servers, Laptops

- Windows file shares
- Unix file shares
- NAS / SAN storage
- Windows 2000, 2003
- Windows XP, Vista



300+ File types

- Microsoft Office Files
- PDFs, PSTs
- Zip files
- CATIA files



Databases & Repositories

- SharePoint
- Documentum
- Microsoft Access
- Oracle, SQL
- Content Mgmt systems



Remediation

- Secure Delete
- Manual/Auto Move
- Manual/Auto Quarantine
- Notifications
- eDRM

Protecting Data in the Network: Data in Motion

Monitor

Analyze

Enforce



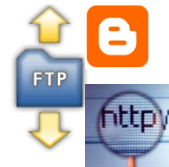
Email

- SMTP email
- Exchange, Lotus, etc.
- Webmail
- Text and attachments



Instant Messages

- Yahoo IM
- MSN Messenger
- AOL Messenger



Web Traffic

- FTP
- HTTP
- HTTPS
- TCP/IP



Remediation

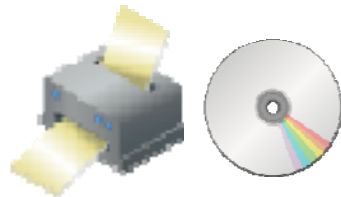
- Audit
- Block
- Encrypt
- Log

Protecting Data at the Endpoint: Data in Use

Monitor

Analyze

Enforce



Print & Burn

- Local printers
- Network printers
- Burn to CDs/DVDs



USB

- External hard drives
- Memory sticks
- Removable media



Copy and Save As

- Copy to Network shares
- Copy to external drives
- Save As to external drives



Actions & Controls

- Allow
- Justify
- Block
- Audit & Log

How Can DLP Solutions Reduce Risk?

Endpoint

Network

Apps/DB

FS/CMS

Storage

People

- Discover unsafe user behavior and educate employees on security policies

Processes

- Identify and fix broken business processes

Technology

- Leverage technology controls more effectively to secure data

RSA Data Loss Prevention

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Five Critical Factors

Top 5 Critical Factors for DLP



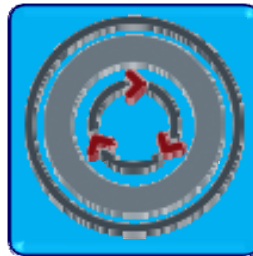
Policy & Classification

More policies and better policies for classification and risk mitigation



Identity Aware

Identity awareness for classification, controls and remediation



Incident Workflow

Consolidated alerts with the right information to the right people for the right actions



Enterprise Scalability

Scan more data faster with lesser hardware and resources



Built-In vs. Bolt-On

Common policies across the infrastructure - Microsoft and Cisco

Policy & Classification



More policies and better policies for classification and risk mitigation

- Unified policy framework
- Best of breed classification
- 150+ built in policy templates
- Information Policy and Classification team
- Higher accuracy

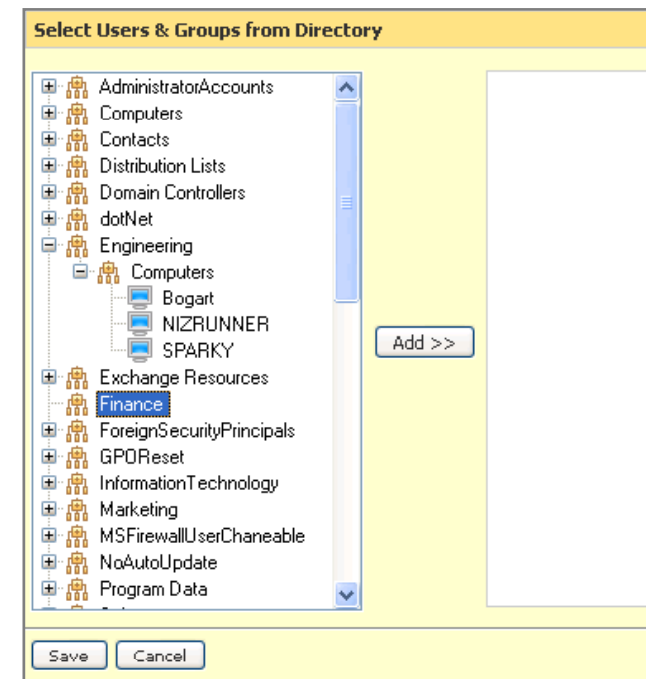
The screenshot shows the 'New Policy' configuration window. The 'Policy Name' is 'PCI-DSS (Payment Card Industry Data Security Standard)'. The 'Description' is: 'Identifies documents and transmissions that contain credit cardholder data regulated by the Payment Card Industry Data Security Standard (PCI DSS). The Standard is applicable worldwide. The PCI DSS defines requirements for protection of commonly used elements of cardholder and sensitive authentication data. Developed and maintained by the PCI Security Standards Council, the Standard is intended to facilitate adoption of consistent data security'. Under 'Content Blades', there are two blades: 'Credit Card Track Data' and 'Credit Card Number'. The 'Set Event Severity' section shows a 'Risk Factor' scale from 0 to 30 and a 'Count' scale from 0 to 3. The 'Policy Violation Rules' section shows a rule for 'Who' (All Users) and 'Detect' (Protocol, Any Protocol). There are tabs for 'Network', 'Endpoint', and 'Datacenter'.

Identity Awareness

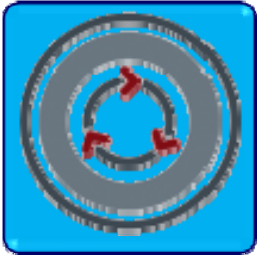


Identity awareness for classification, controls and remediation

- Identity-based Policy
E.g. Group x can send data y out
- Identity-based notification
E.g. Notify the persons manager
- Identity-based control
E.g. Lock this data so only group x can open
- Integration with Microsoft Active Directory



Incident Workflow



Consolidated alerts with the right information to the right people for the right actions

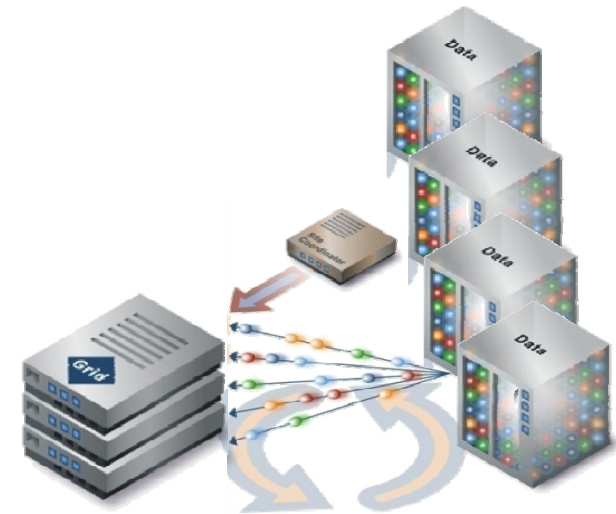
- Intelligent correlation of events into incidents
- Right alerts to the right people in the right order
- Intuitive workflow to remediate violations
- Scheduled reports sent to subscribers automatically
- Integration with RSA enVision to simplify security operations

Enterprise Scalability



Scan more data faster with lesser hardware and resources

- Support distributed deployments
- Scale to 100's of thousands of users
- Unique Grid Scanning technology
- Scan large amounts of data faster and cheaper



Built-in Vs. Bolt-on




**Common policies across the infrastructure –
Microsoft and Cisco**


- Leverage your existing infrastructure
- Microsoft: Integration with Microsoft RMS and will also integrate RSA DLP data classification engine and policies into Microsoft infrastructure
- Cisco: Integration with IronPort

Microsoft®



RSA DLP Suite integration with Microsoft AD RMS


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Thursday, December 04, 2008

Microsoft and EMC'S RSA Security Division Team Up to Help Customers Secure Sensitive Data

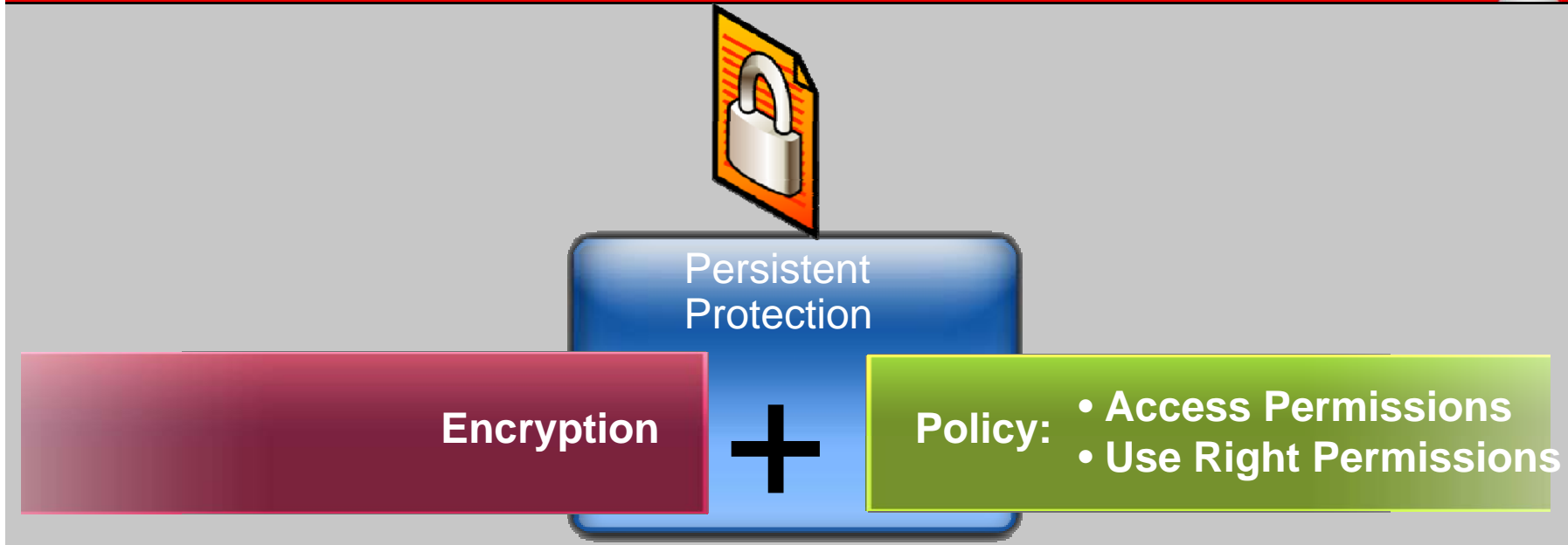
Companies Expand Their Strategic Alliance to Advance a New Approach to Information Protection and Data Loss Prevention

Hopkinton, Ma and Redmond, Wa

— Building on a long-standing, multi-faceted alliance, EMC and Microsoft Corp. today announced they have expanded their technology partnership to help companies better protect sensitive information and share it in a more secure manner. The companies will be working together with a built-in "systems" approach that helps protect information throughout the infrastructure based on content, context and identity.

The partnership will take advantage of resources and technology from Microsoft and RSA, The Security Division of EMC. Microsoft will build the RSA® Data Loss Prevention (DLP) classification technology into the Microsoft platform and future information protection products. The resulting collaboration is designed to enable organizations to centrally define information security policy, automatically identify and classify sensitive data virtually

Rights Management Services Overview



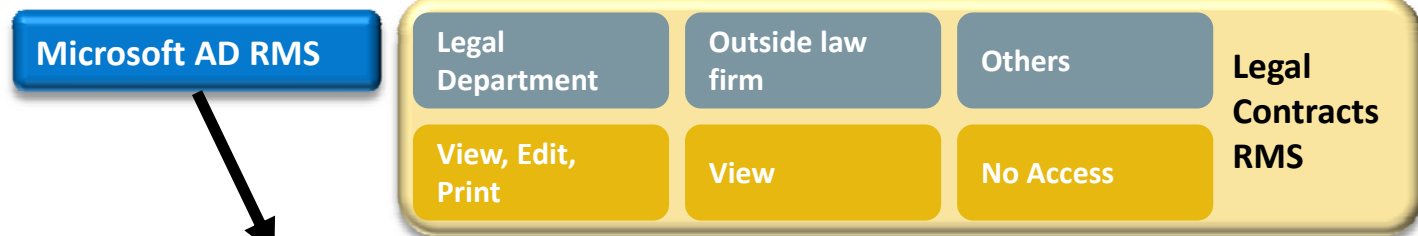
- **RMS provides identity-based protection for sensitive data**
 - Controls access to information across the information lifecycle
 - Allows only authorized access based on trusted identity – works online and offline, inside and outside the firewall
 - Secures transmission and storage of sensitive information wherever it goes – policies embedded into the content; documents encrypted
 - Embeds digital usage policies (print, view, edit, expiration etc.) in to the content to help prevent misuse after delivery



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RSA DLP Suite integration with Microsoft AD RMS

1. RMS admin creates RMS templates for data protection

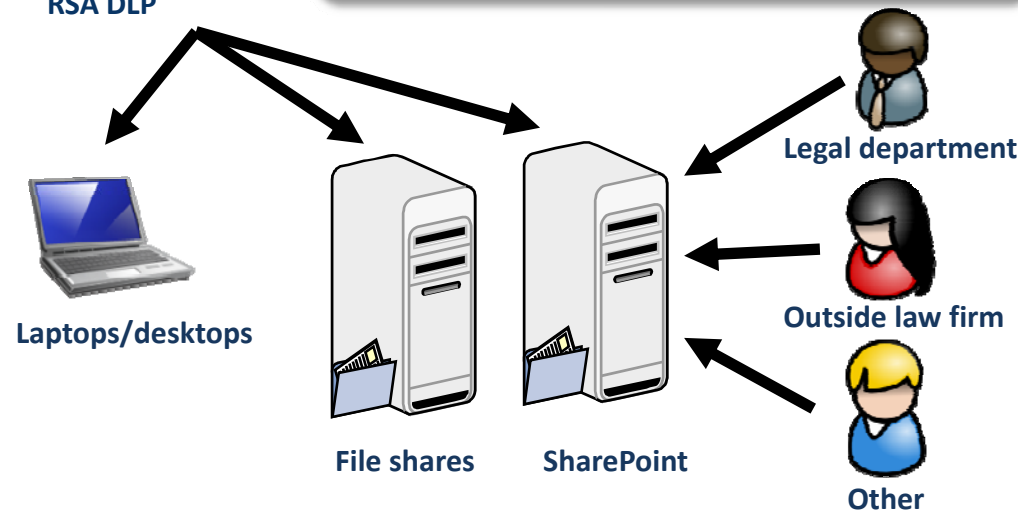


2. RSA DLP admin designs policies to find sensitive data and protect it using RMS



3. RSA DLP discovers and classifies sensitive files

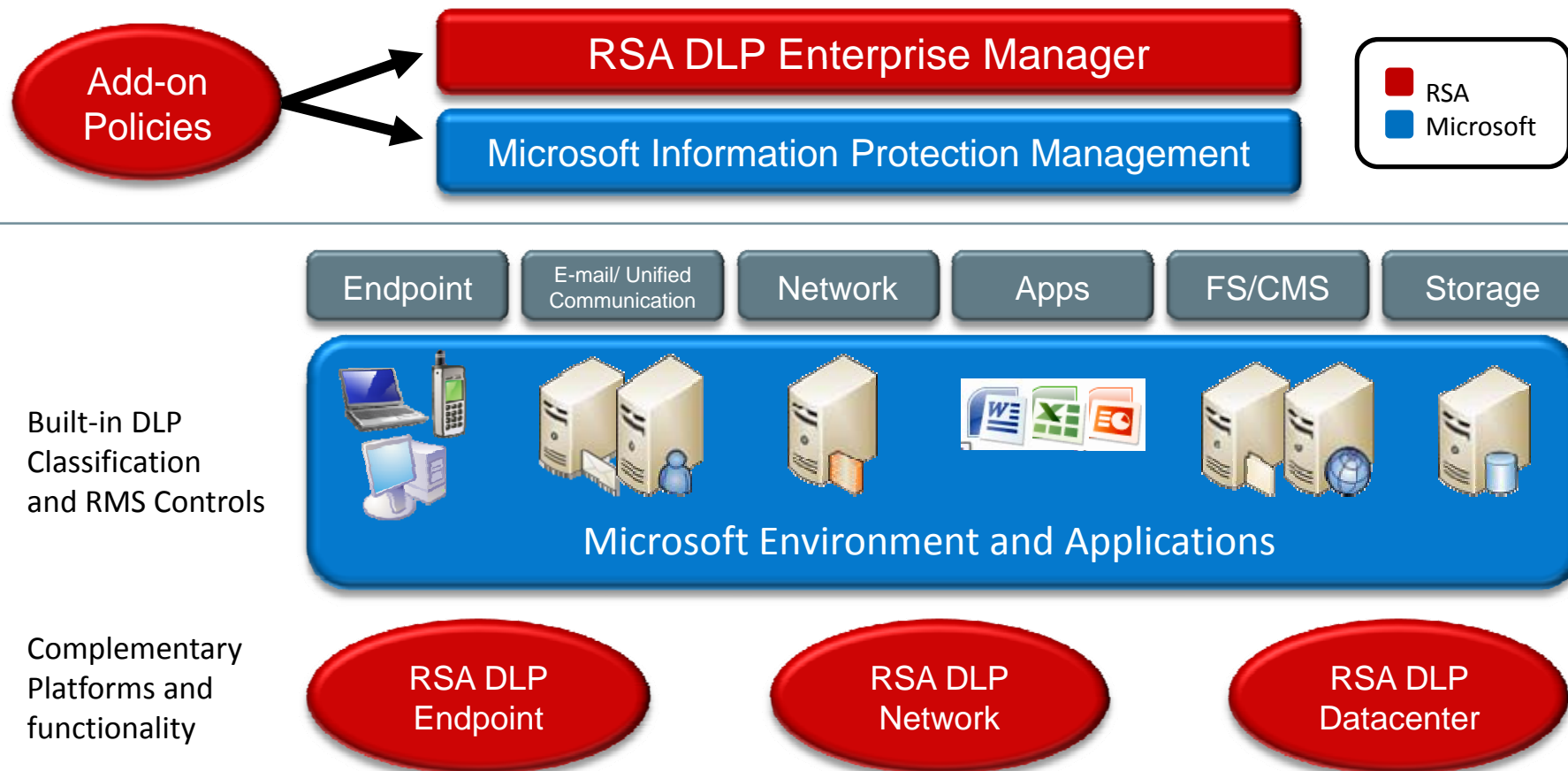
4. RSA DLP applies RMS controls based on policy



5. Users request files - RMS provides policy based access

- Automate the application of AD RMS protection based on sensitive information identified by RSA DLP Datacenter and DLP Endpoint Discover
- Leverage AD Groups with DLP Network and Endpoint Enforce for identity or group aware data loss prevention

Long term – Microsoft and RSA Building Information Protection into Infrastructure



- Common policies throughout infrastructure
- Built-in approach to protect data based on content, context, identity



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RSA and Cisco Partner to Better Secure Data



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Wednesday, June 24, 2009

RSA Embeds Data Loss Prevention Technology and Policies Into Cisco IronPort® Email Security Solutions

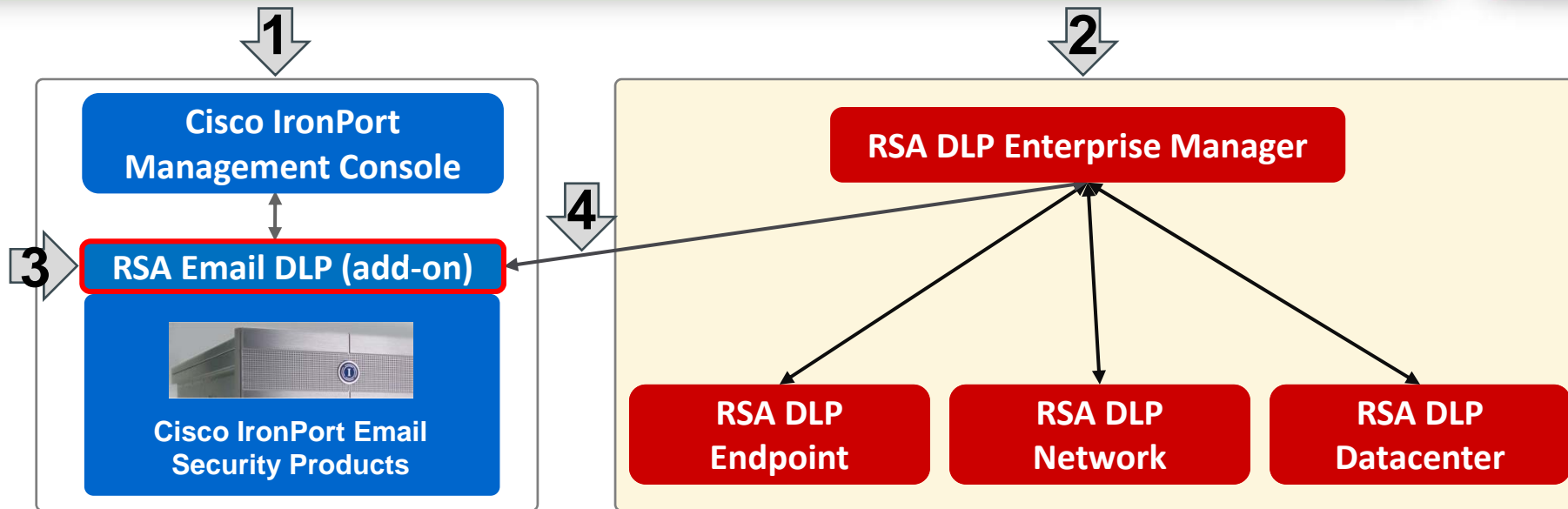
EMC's Security Division and Cisco IronPort Provide Built-in Data Loss Prevention to Help Secure IT Infrastructure

Bedford, Ma

— RSA, The Security Division of EMC (NYSE: EMC), today announced that it has partnered with Cisco to embed data classification technology and policies from the [RSA® Data Loss Prevention Suite](#) into Cisco's industry-leading Cisco IronPort® [email security](#) solutions. RSA's DLP technology will be fully integrated into Cisco IronPort's email security platform as a comprehensive subscription software service for helping to prevent the loss of data in motion over email. The combined solution, to be offered as RSA Email DLP for Cisco IronPort, provides accurate and easy-to-use content classification designed to discover and protect sensitive data before it leaves the enterprise through email.

The integrated RSA Email DLP solution is engineered to include a wide selection of pre-defined out-of-the-box policies maintained and updated by RSA's Information Policy and

RSA and Cisco Partner to Better Secure Data



Prevent loss of sensitive data through email with industry best accuracy

Expand to DLP for datacenter, endpoints and web through RSA DLP Enterprise Manager, leveraging policy and classification framework



1. Cisco IronPort Email Security Solutions
2. RSA Data Loss Prevention Suite
3. Cisco IronPort RSA Email DLP
4. Expandability of DLP to datacenter, network and endpoints



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Thank You

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