



# Information Security: *The Next Frontier*

**Jayshree Ullal**

**Senior Vice President  
Data Center, Switching & Security Technology Group**



# Today's Agenda



- Cisco SDN Strategy
- Information Security Trends
- Messaging Security Demo
- Summary



# Self Defending Networks of the 21st Century

## Moving From...

Desktop AV/Signatures

Basic Firewalls/IDS

Static Transport (VPN)

Basic Management

Disparate Applications

## Moving To

Behavioral /Trusted Clients

Adaptive Threat Defense (ATD)

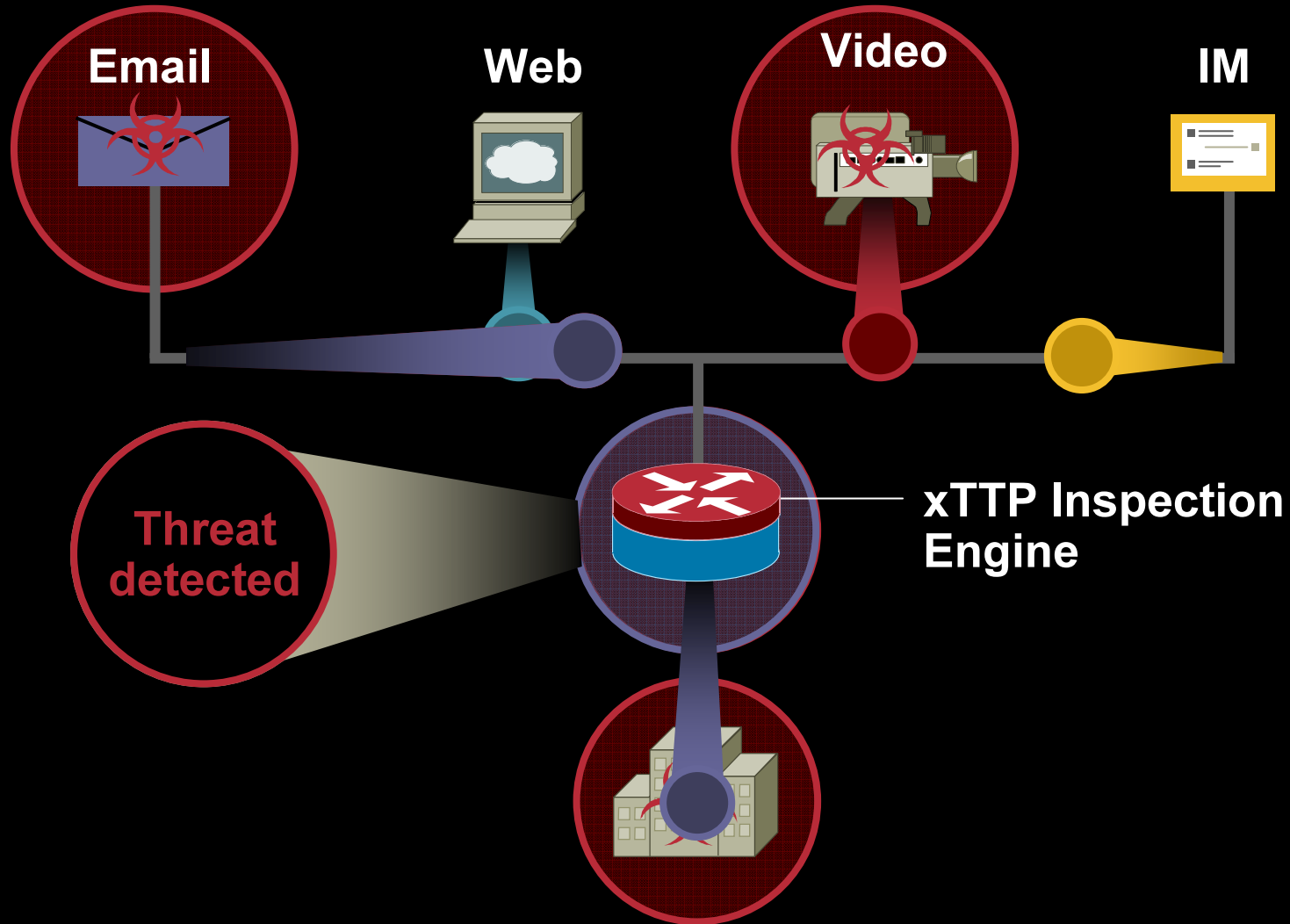
Trusted Domains of Security

Correlation and Containment

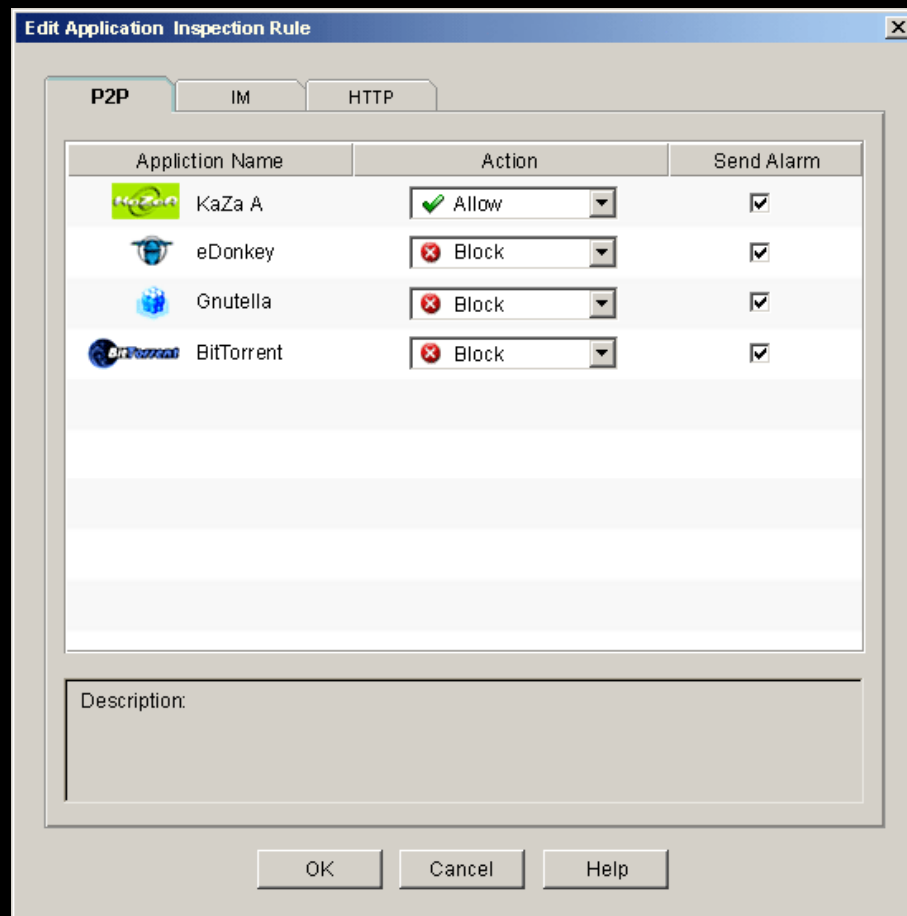
Application Security



# Application Security



# Application Security View



- **Ease Of Use**

Default protection profiles to manage common threats

Provide application categories and hide protocol information

- **Application Security Lockdown**

Similar to AutoSecure and SDM Router Lockdown

- **Leverage**

Common user interface to configure Application Security for Cisco security management applications

- **Leadership**

Competitive differentiation

# Beyond Worms and Viruses

Scam

Phishing

Malware

Harvesting

Spam

Solutions

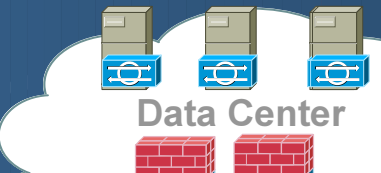
Corporate

Internet

Blackman

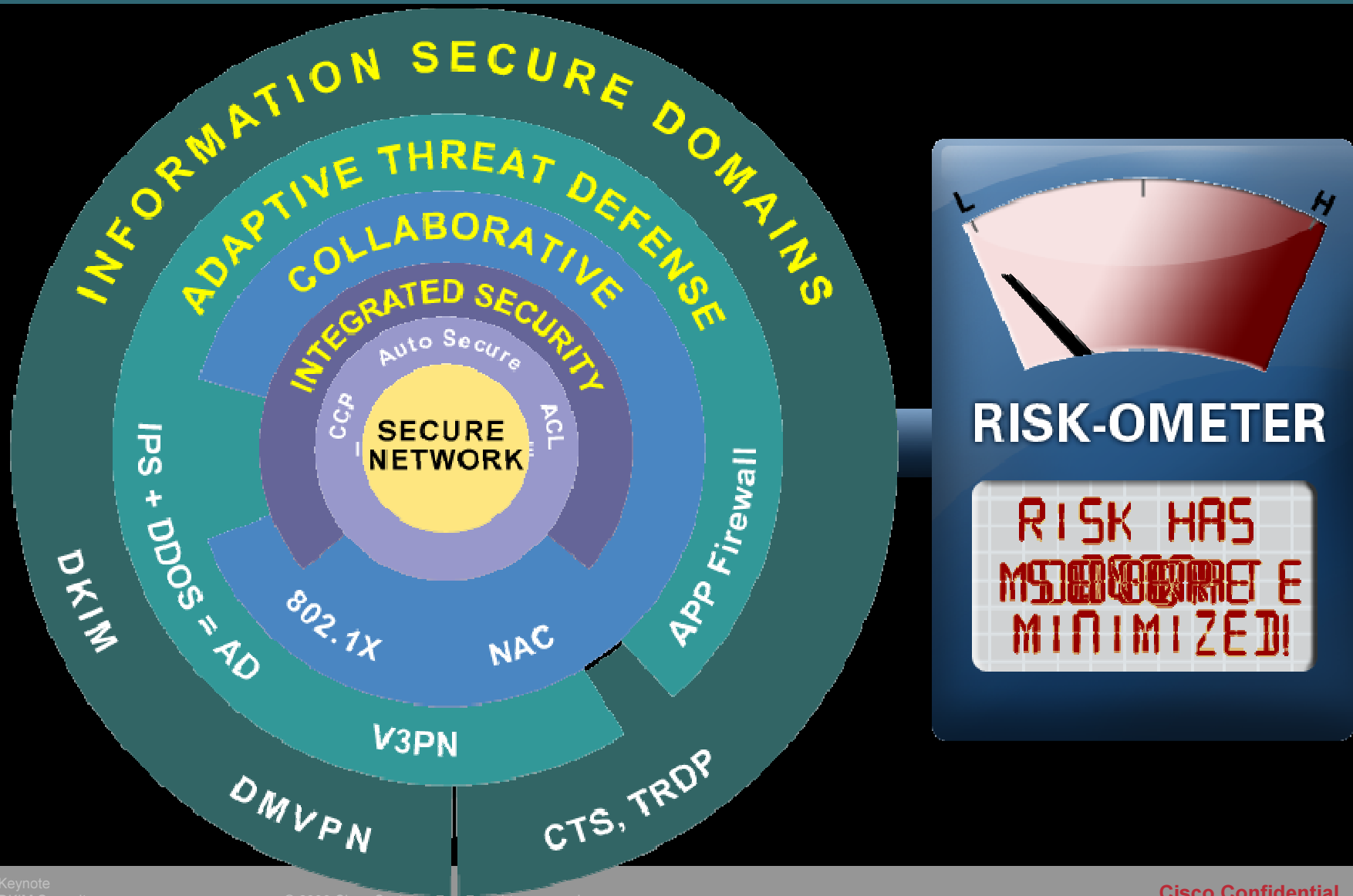
Better  
are

Point Products  
are Good



Self-Defending Networks

# The Value of Cisco's SDN Strategy

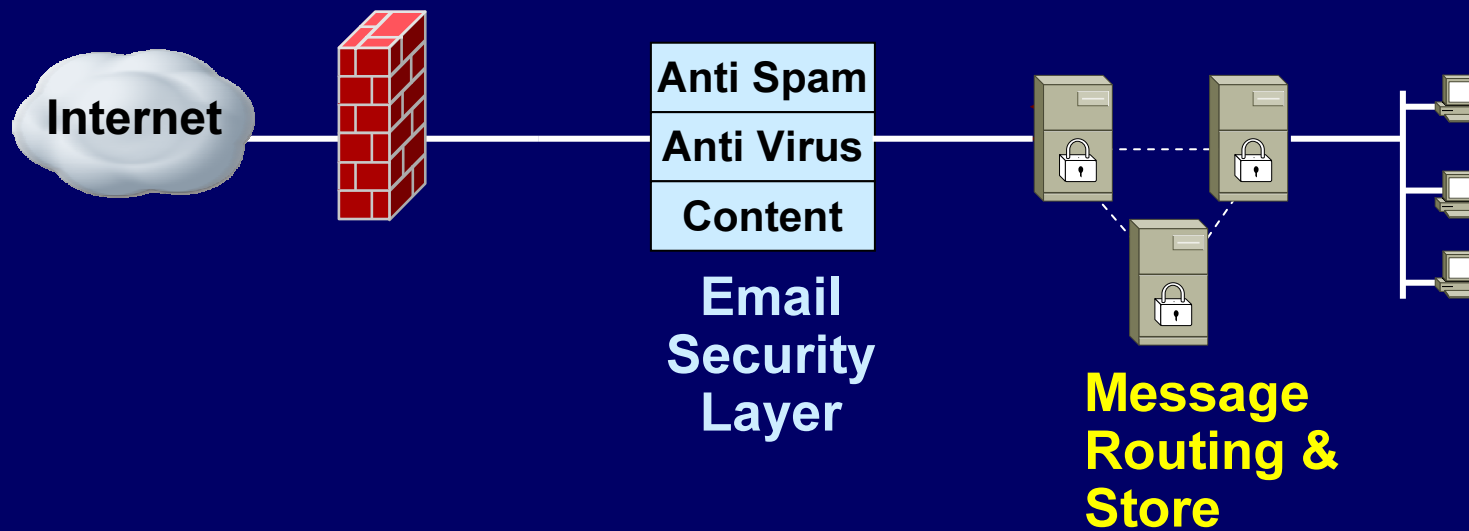


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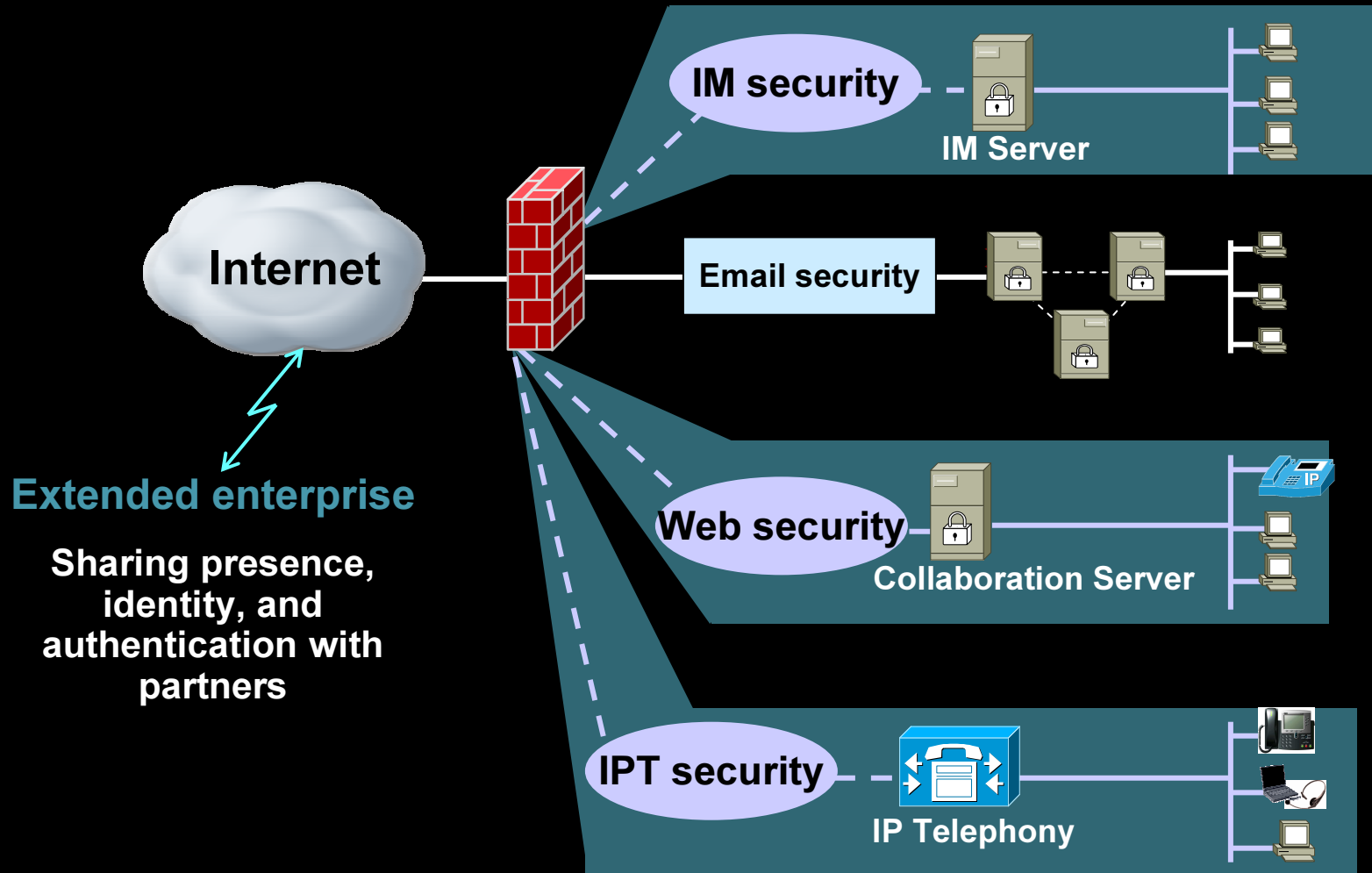
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# Messaging has evolved from primarily email ...

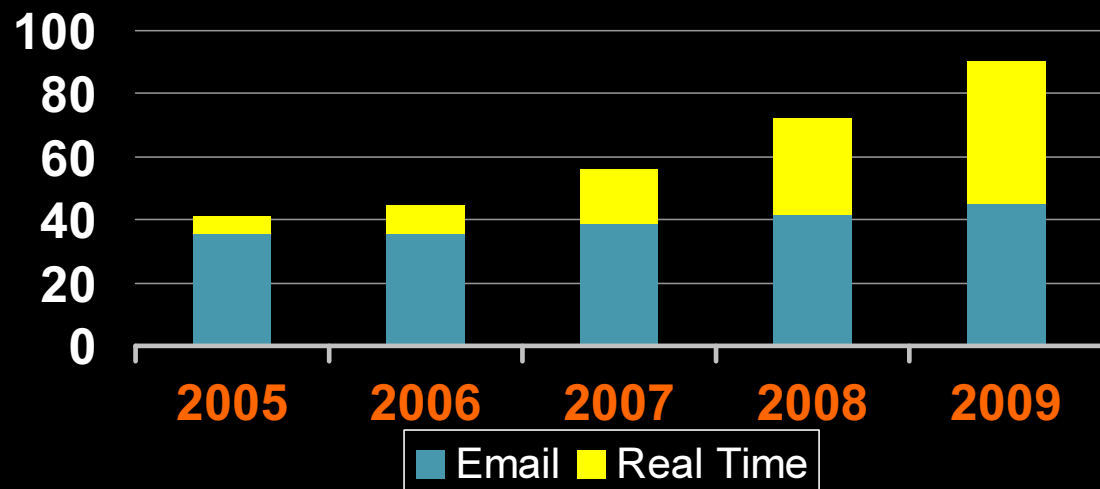


# ... to an integrated messaging environment



# Message volume increasing exponentially

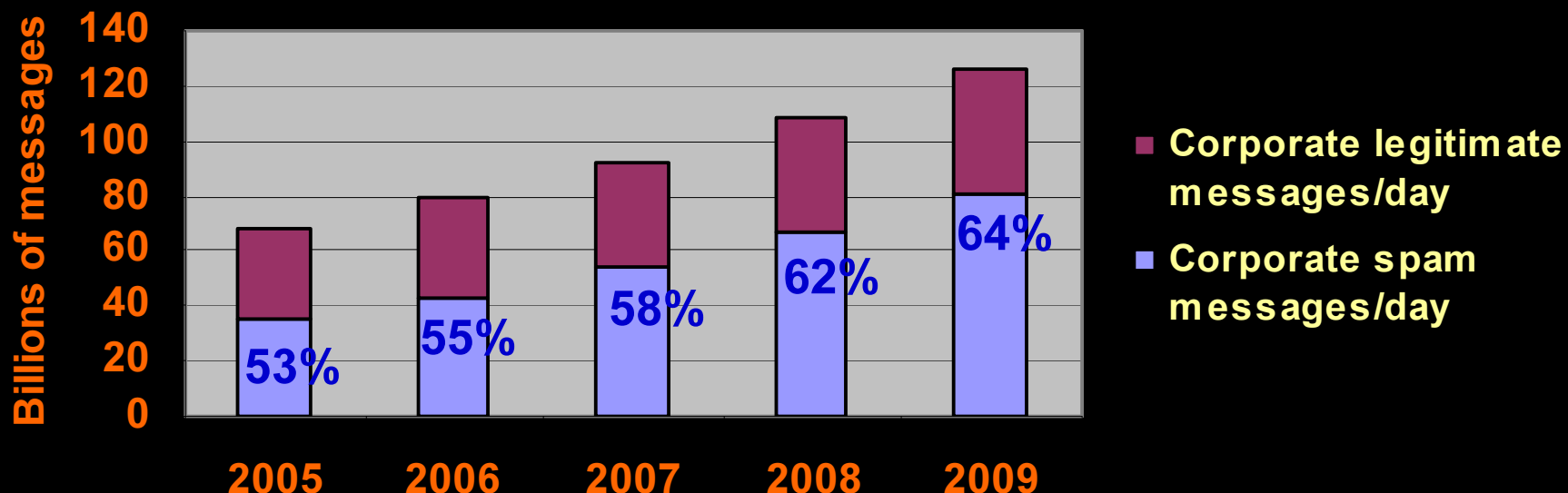
**Worldwide Enterprise Message Volume  
(in billions)**



- Real time messaging is a key growth engine
- Conferencing apps bring together IM, VoIP, and info sharing

Source: Radicati Email and IM reports, 2005; email message volume excludes spam, IM volume includes EIM and enterprise use of public IM

# Spam is a Threat Vector that Necessitates Over Provisioning

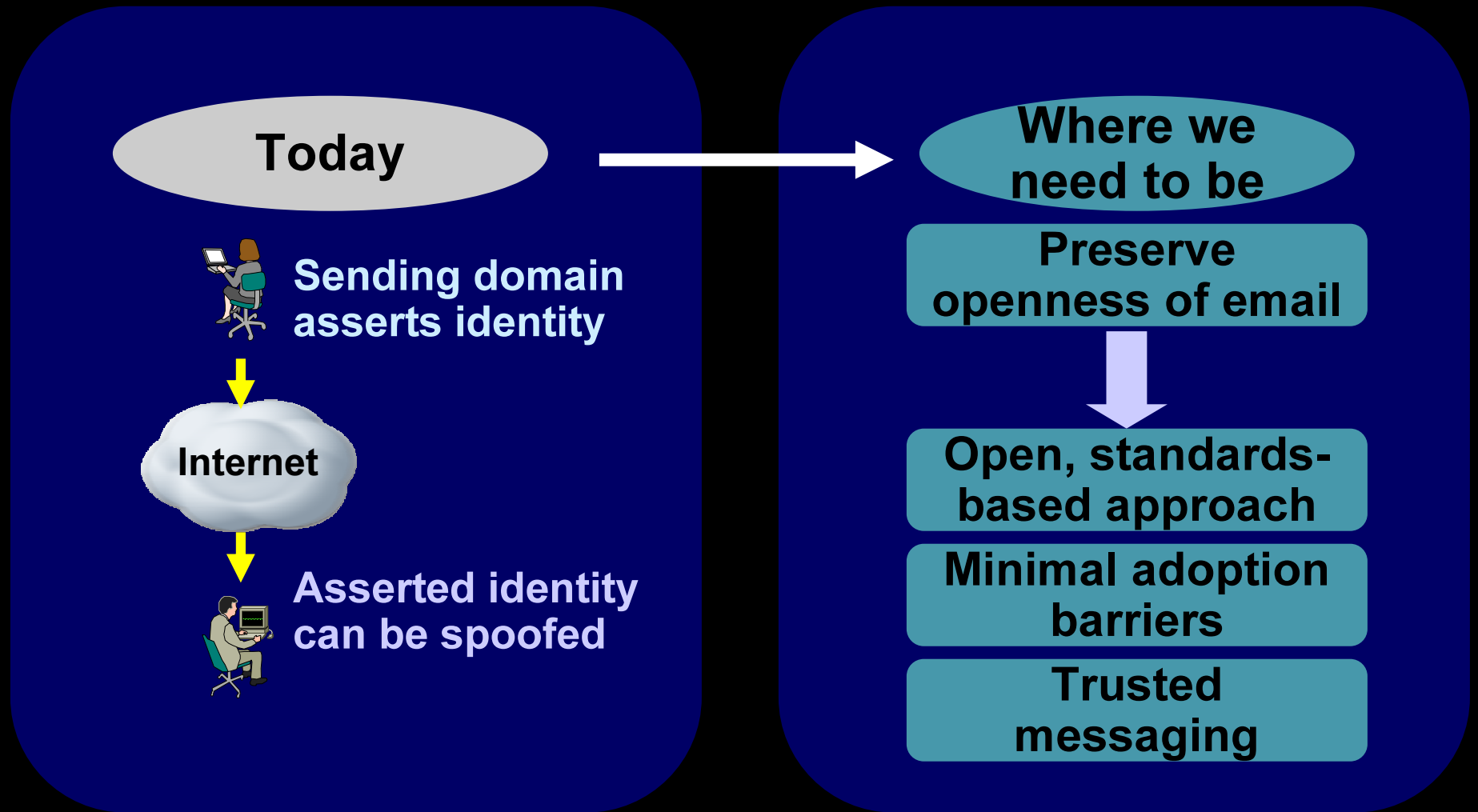


**Corporate spam volume is growing 160% faster than legitimate mail**

*“A recent outbreak of spam is causing us to look at our Mail Server deployments and over provision to maintain critical customer response time guarantees” – IT Manager for a larger enterprise*

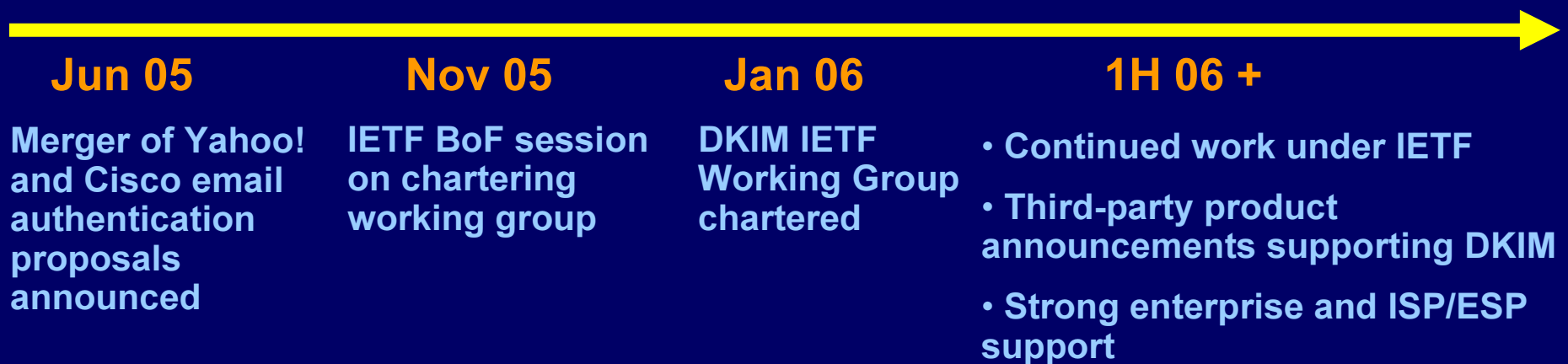
Source: Radicati; Spam growth rate based on 2005-2009

# Trust is a foundational requirement



# DomainKeys Identified Mail: An important step towards trusted messaging

- **Standards-based approach to email authentication**
- **Security considerations carefully scrutinized**
- **Easy integration with today's infrastructure**
- **Broad support from open source and commercial vendors**



# Collaborative industry partnership to drive adoption

- **Broad ecosystem of leading players** working to make authentication a key part of solutions to combat phishing, spam, and identity spoofing

## Spec Development



*And other members of ESTG*

## ISPs and ESPs



*And many others globally*

## Infrastructure & Reputation



*And many others globally*

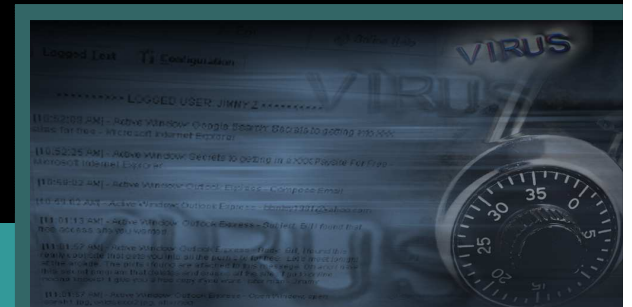
## Enterprises



*And many others globally*

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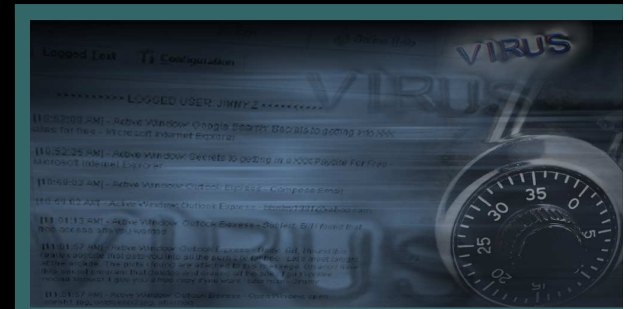


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# Cisco: Enhancing Internet Trust

- Cisco is **key partner with industry leaders to address messaging security**
- Part of our commitment to **Self Defending Networks**
- Our goal: **Enhance trusted Internet communications and commerce**

# CISCO SYSTEMS

