Cisco Expo
2012

Securing Your E-mail Communication

T-SECB3&4

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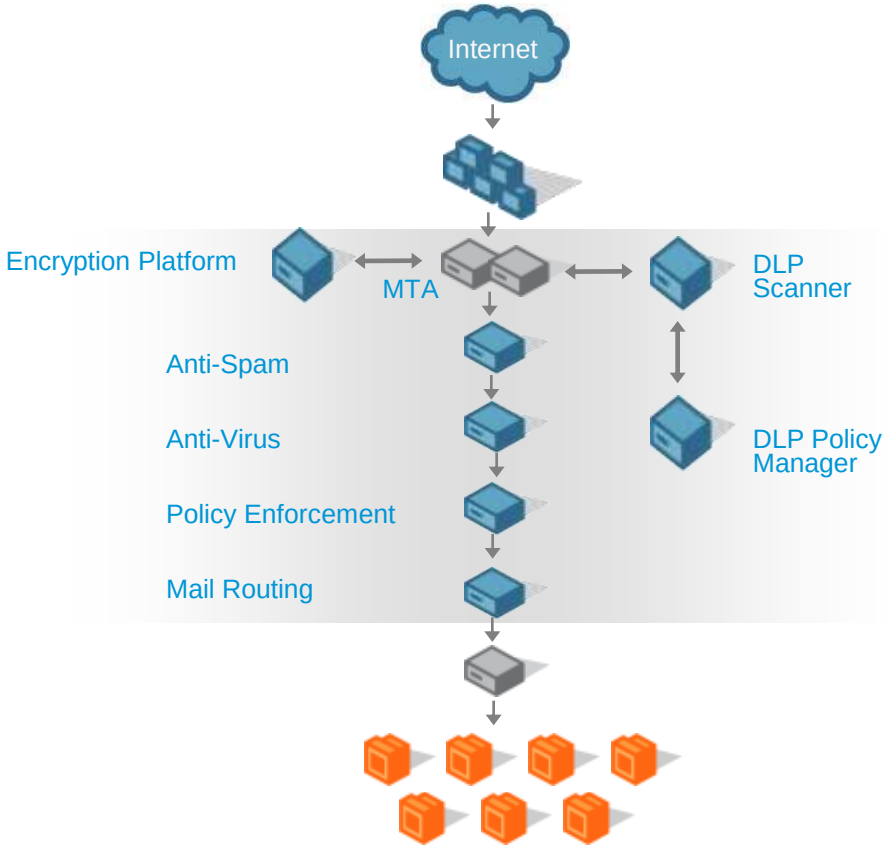
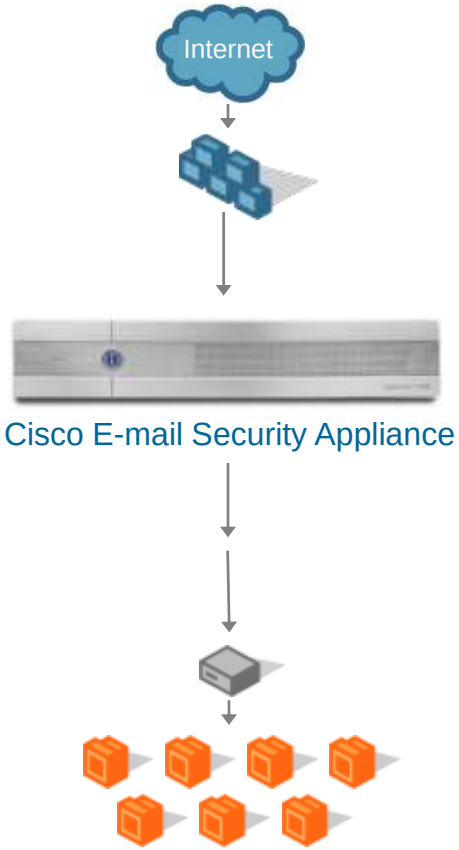
Cisco E-mail Security Consolidates the Network Perimeter

For Security, Reliability and Lower Maintenance

Before Cisco



After Cisco



Email Security Architecture

Inbound Security, Outbound Control

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The Cisco AsyncOS

Robust —Tools to Protect Customers

TLS Encryption
Gateway to gateway encryption

HTML Sanitization
Eliminates spoofed URLs

SPF Verification
Verify mail is coming from servers designated to send on sender's behalf

Industry Leading LDAP Capabilities
LDAP referrals, multiple LDAP servers, 3 step set up wizard

DKIM Signing & Verification
Sender verification

Bounce Verification
Eliminates mis-directed bounces

End User Allow & Block Lists & Spam Quarantine
End user controls

Recipient Validation
Eliminates messages sent to invalid email addresses

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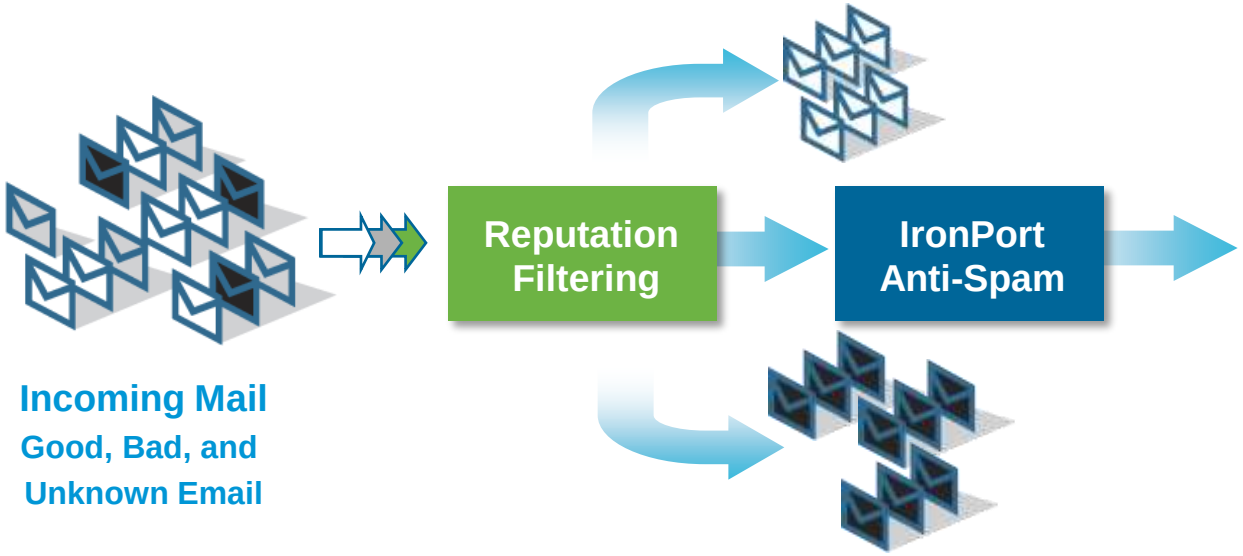
SenderBase Reputation Filtering

Real Time Threat Prevention



Incoming Mail
Good, Bad, and Unknown Email

- **Known good is delivered**
- **Suspicious is rate limited and spam filtered**
- **Known bad is blocked**

Cisco on Cisco

Our Corporate Email Experience

Message Category	%	Messages
Stopped by Reputation Filtering	**93.1%**	700,876,217
Stopped as Invalid recipients	0.3%	2,280,104
Spam Detected	2.5%	18,617,700
Virus Detected	0.3%	2,144,793
Stopped by Content Filter	0.6%	4,878,312
Total Threat Messages:	**96.8%**	**728,797,126**
Clean Messages	3.2%	24,102,874
Total Attempted Messages:		**752,900,000**

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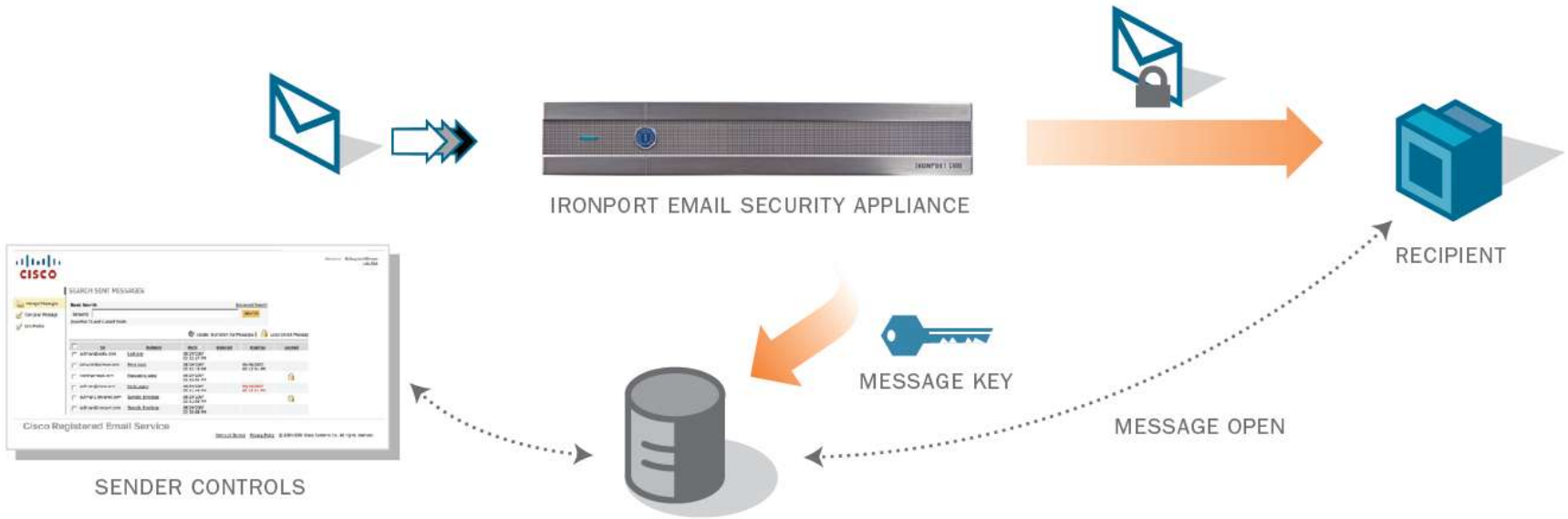
Cisco Email Encryption

Easy for the Sender. . .



- Automated key management
- No desktop software requirements
- Send to any email address seamlessly

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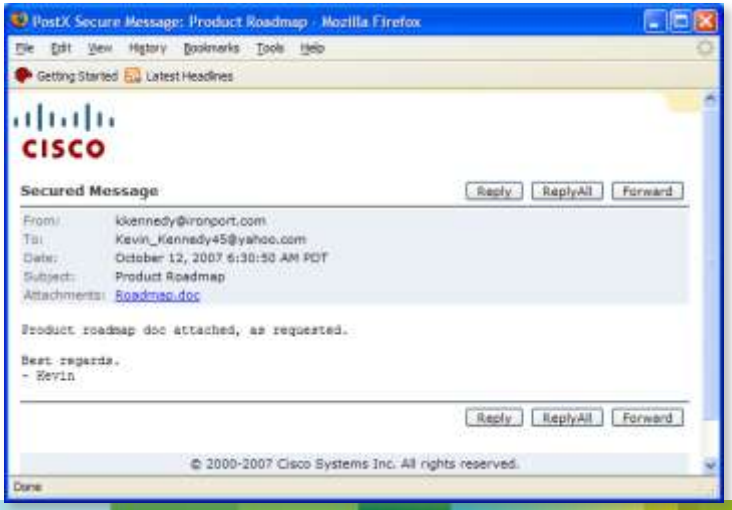
Cisco Email Encryption

Easy for the Recipient. . .

1. Open Attachment

2. Enter password

3. View message



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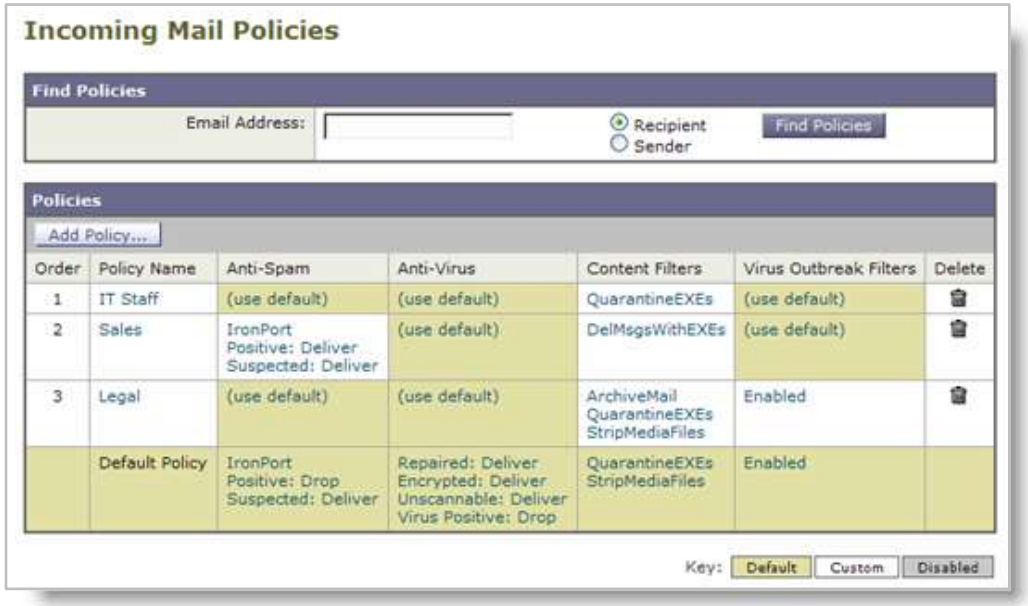
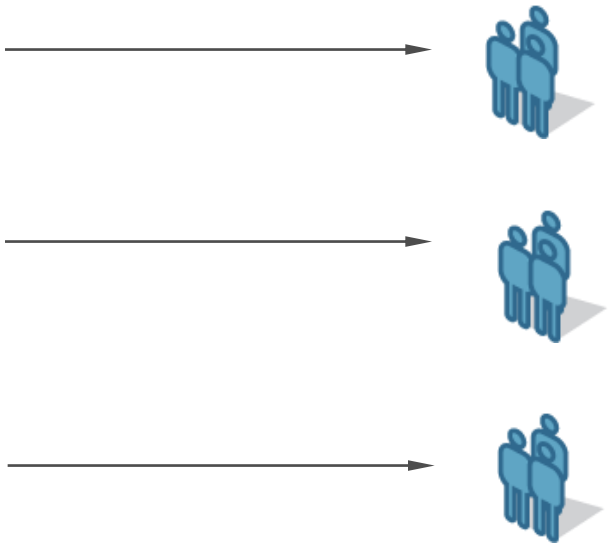
Cisco Email Security Manager

Single view of policies for the entire organization



Policies: by Domain, Username, or LDAP



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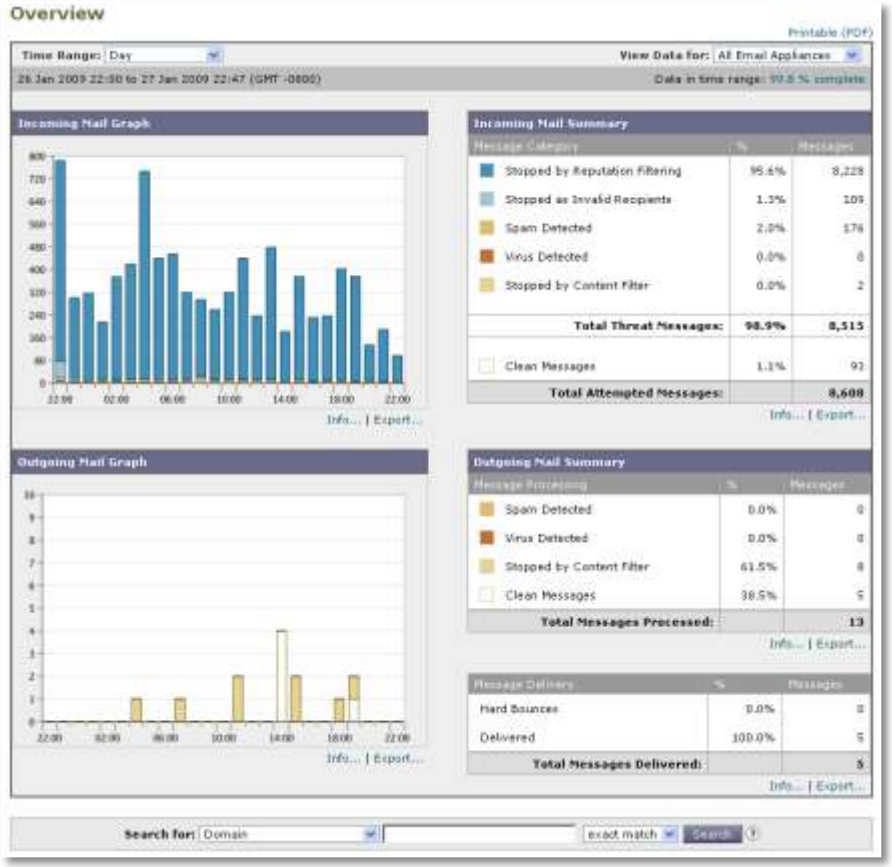
Comprehensive Insight
Unified Business Reporting

- Single view across the organization
- Real Time insight into email traffic and security threats
- Actionable drill down reports

Consolidated Reports



Multiple data points

- **Email Volumes**
  Spam Counters
  Policy Violations
  Virus Reports
  Outgoing Email Data
  Reputation Service
  System Health View

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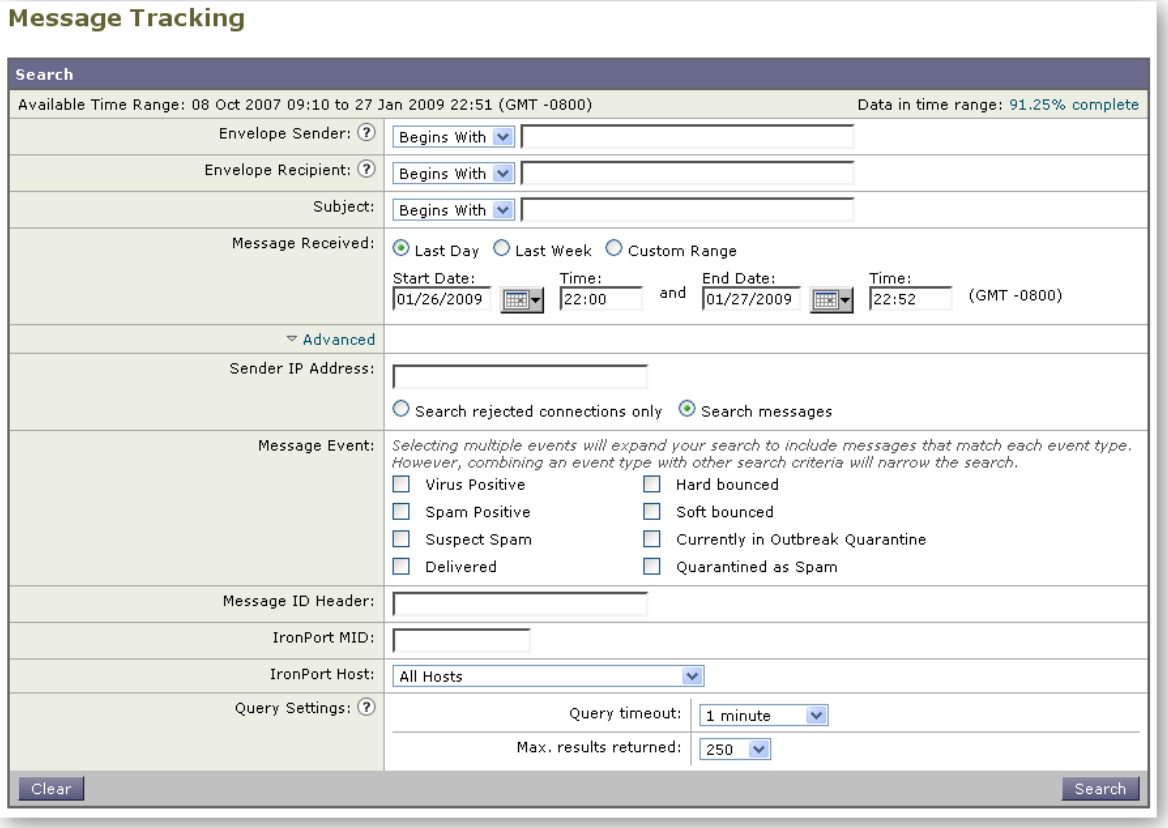
Visibility Into Email Messages
Message Tracking

What happened to the email I sent 2 hours ago?

- ✓ Track Individual Email Messages

Who else received similar emails?

- ✓ Forensics to Ensure Compliance



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Customizable E-mail Security Service Offerings

Provide Broad Protection and Control

Anti-Spam

- SenderBase Reputation Filtering
- IronPort Anti-Spam (IPAS)
- Outbreak Filters

DLP

- Content Filters
- Smart Identifiers
- Weighted Content Dictionaries

Inbound Security

The Cisco Email Security Solution

Outbound Control

Anti-Virus

- Virus Outbreak Filters
- McAfee Anti-Virus
- Sophos Anti-Virus

Encryption

- Secure Message Delivery
- Transport Layer Security

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Flexible Deployment Options

Same Market-Leading Email Security

Common Policy | Centralized Reporting | Consistent Protection

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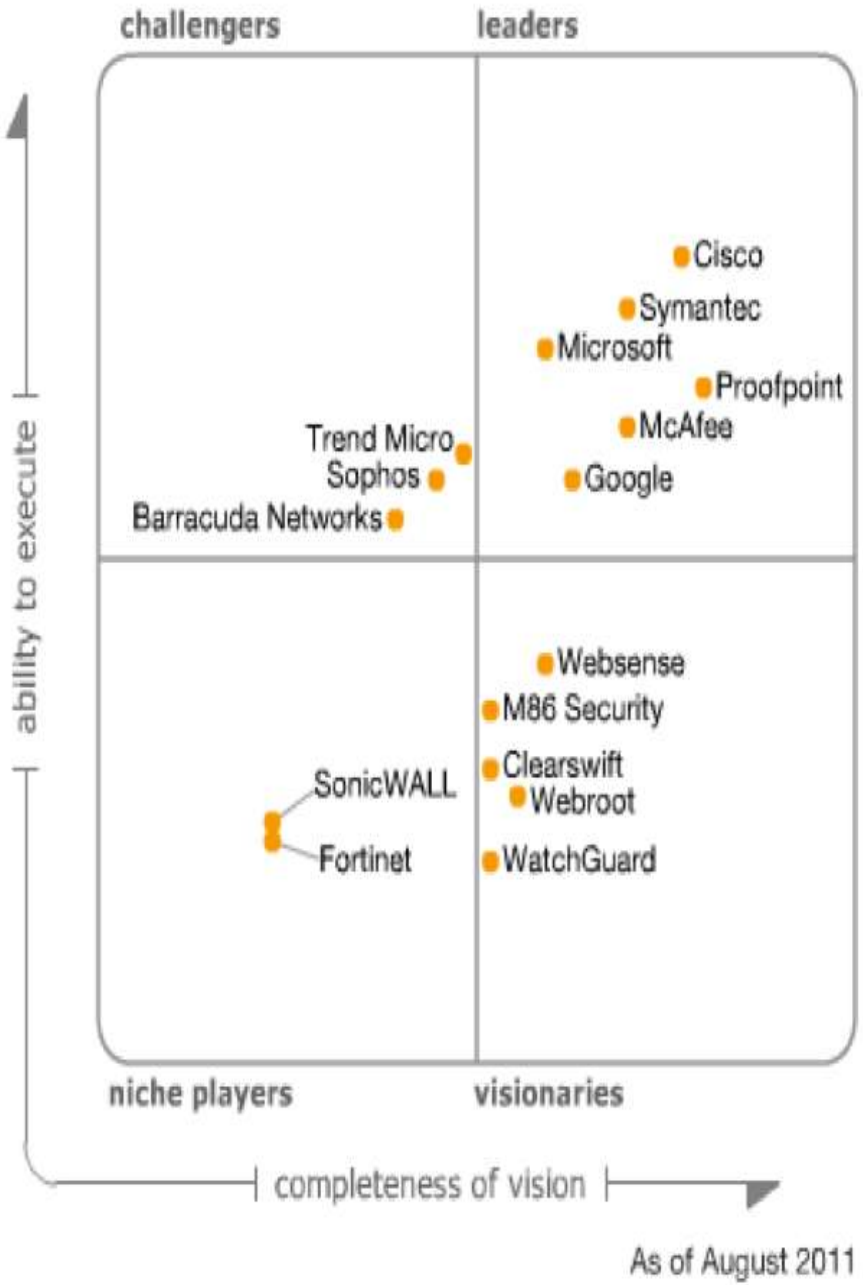
Gartner Magic Quadrant for *Secure E-mail Gateway, 2011*



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