

Microsoft®  
**Forefront™**

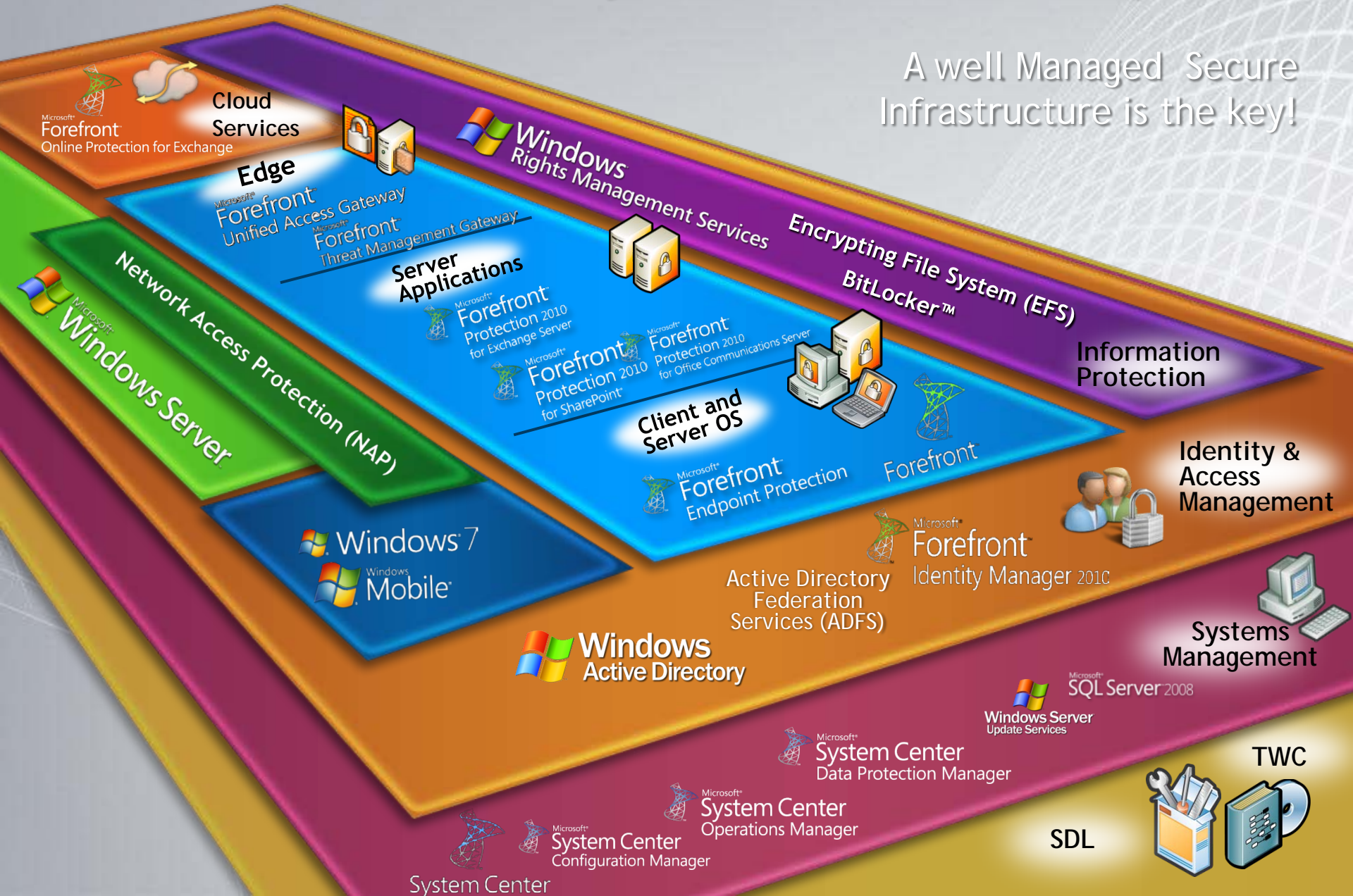
# Business Ready Security

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# Microsoft Security: Defense In Depth

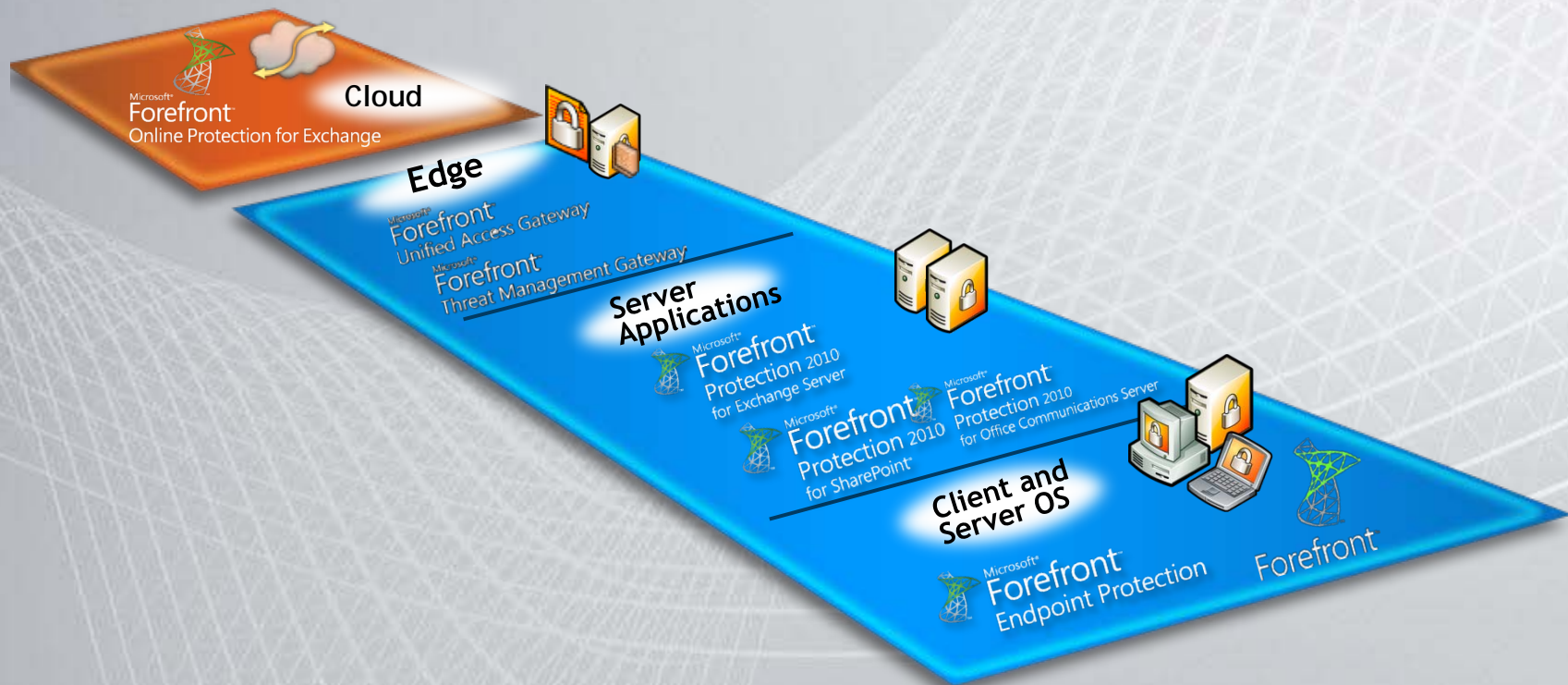
A well Managed Secure Infrastructure is the key!



# Microsoft Forefront™

Microsoft Forefront provides greater protection and control over the security of your business' network infrastructure by providing:

- A comprehensive line of information protection and access control products
- Integration with your existing IT infrastructure
- Simplified deployment, management, and analysis
- Technical and industry guidance



# Business Ready Security

Help securely enable business by managing risk and empowering people

Protect everywhere,  
access anywhere



Simplify the security  
experience,  
manage compliance

Integrate and extend  
security across the  
enterprise

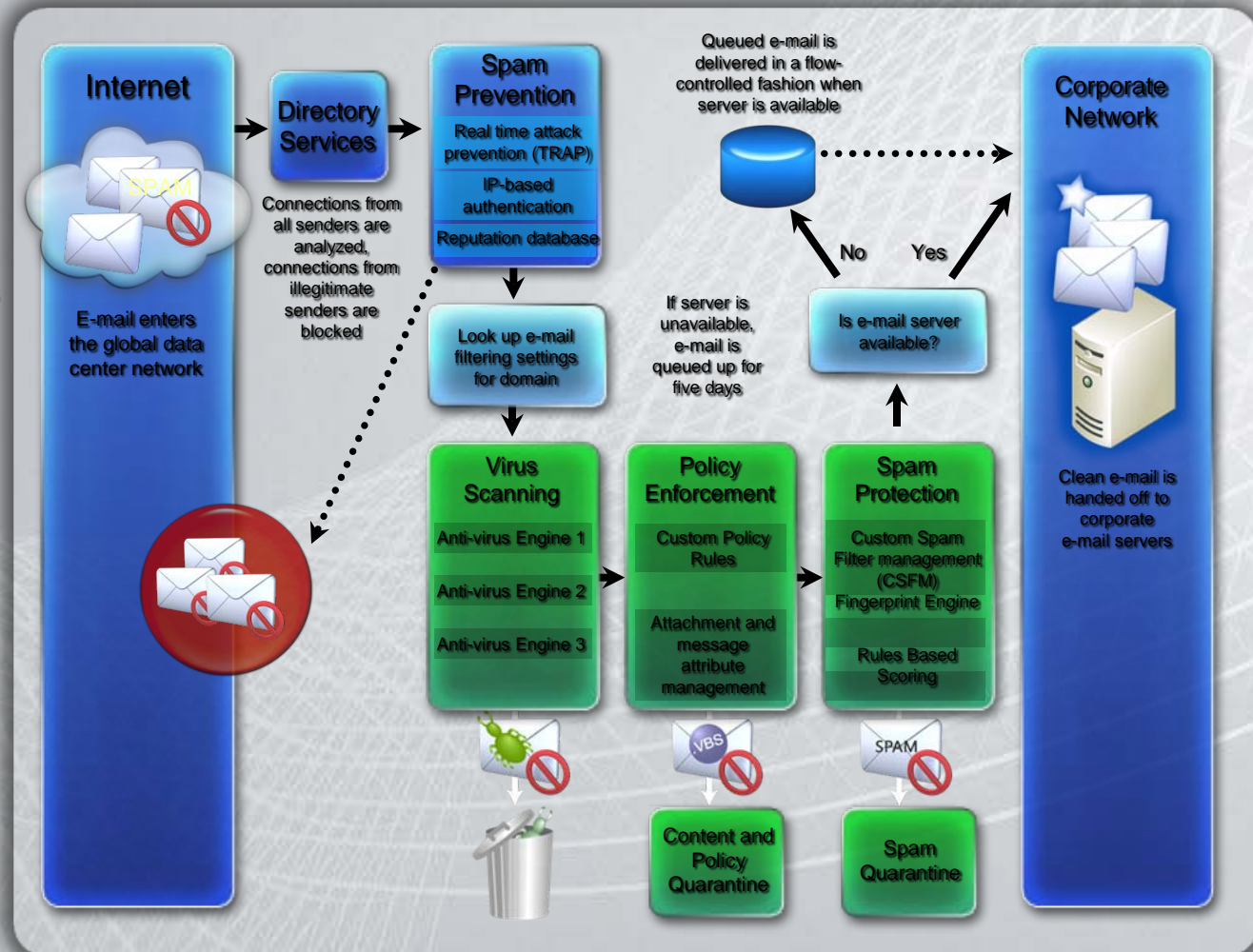
<i>from:</i>	<i>to:</i>
<b>Block</b>	<b>Enable</b>
<b>Cost</b>	<b>Value</b>
<b>Siloed</b>	<b>Seamless</b>

# Forefront Online Protection for Exchange

## Multilayer spam and virus protection/content and policy enforcement

### Solution Overview

- A simple MX record is all it takes to begin filtering
- Real-time Attack Prevention (RTAP) and Directory Services protect against the largest attacks
- Virus filter delivers zero-day protection using multiple, complementary anti-virus engines
- Flexible policy filter to enforce corporate e-mail-use policies
- High-accuracy spam filtering
- E-mail queuing ensures mail is never lost



# Our Difference

## Enterprise-class reliability and performance

### High-Availability, High-Security and High-Performance for Billions of E-mail



- 99.999% service level uptime guarantees and performance SLAs for spam filtering effectiveness
- SAS 70 Type II and ISO 17799 compliant data centers
- More than 6 billion messages processed per month

### Dedicated Expertise Available for Thousands of Customers, 24/7



- Real-time security updates and network performance monitoring
- 24/7 customer support and dedicated account managers for qualifying accounts

### Investment from Microsoft; Integration with Software and Services

**Microsoft**<sup>®</sup>

*Your potential. Our passion.™*

- Investment and resources to ensure superior QoS
- Tight integration with Microsoft Exchange and other Microsoft products and services
- Roadmap to be the message management service for unified communications

# Forefront Threat Management Gateway 2010

Forefront Threat Management Gateway allows employees to safely use the Internet without worrying about malware and other threats.

## Web Security

- Reputation Based URL Filtering
- Web Anti-Virus, Malware Inspection
- Inspection of HTTP and HTTPS traffic

## Intrusion Prevention

- Protection for desktops and servers from intrusion attempts (Network Inspection System)

## Enhanced Protection

- Includes built-in, proven network protection technologies of ISA 2006
- New enhancements for Firewall, Remote Access & E-Mail Protection

## Simplified Management & Deployment

- Easier management with Scenario UI & Wizards
- Enhanced reporting
- Array Management Capabilities



# TMG New Feature Drill Down

- HTTP Anti-virus/spyware
- URL Filtering
- HTTPS forward inspection

## Secure Web Access



- VoIP traversal (SIP)
- Enhanced NAT
- ISP Link Redundancy
- SQL logging
- Updated firewall client

## Firewall



- Exchange Edge/FSE integration
- Anti-Virus
- Anti-spam

## E-mail Protection



- Network Inspection System (NIS)
- Security Assessment and Response

## Intrusion Prevention



- NAP integration with VPN role

## Remote Access



- Array Management
- Scenario UI & Wizards
- Change tracking
- Enhanced reporting
- W2K8, native 64-bit

## Deployment & Management



- Update Center :
  - HTTP: AV+URL Filtering
  - Email: AV+Anti-Spam
  - NIS signatures

## Subscription Services



# Advanced Threat Protection

Threat  
Vector

Content Files and Streaming Traffic

Viruses

Worms

Protocol Exploits

Scripts

Encrypted Web

Inspection  
Technology

HTTP and HTTPS Inspection

Microsoft  
Antimalware

Network Inspection  
System

Application Layer  
Proxy

## Coverage for Streaming and Content-based traffic

- Zero-day and Variant Protection
  - Generic and Specific Signatures
  - Protocol Analysis
  - Heuristic
- Granular control of Web traffic
- Extensible as new threats appear



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# Forefront™

## Unified Access Gateway

**UAG delivers secure, anywhere access to messaging, collaboration and other applications, increasing productivity while maintaining compliance with policy.**

## Application Publishing

- Granular Application Filtering
- Session cleanup and removal
- Remote Desktop and RemoteApp integration
- Multiple tunnels allowing various levels of client/server and network access

## DirectAccess

- Extends DirectAccess to legacy applications and platforms
- Simplifies DirectAccess deployments with wizards and automated policies
- Scales DirectAccess through built in load balancing and array management

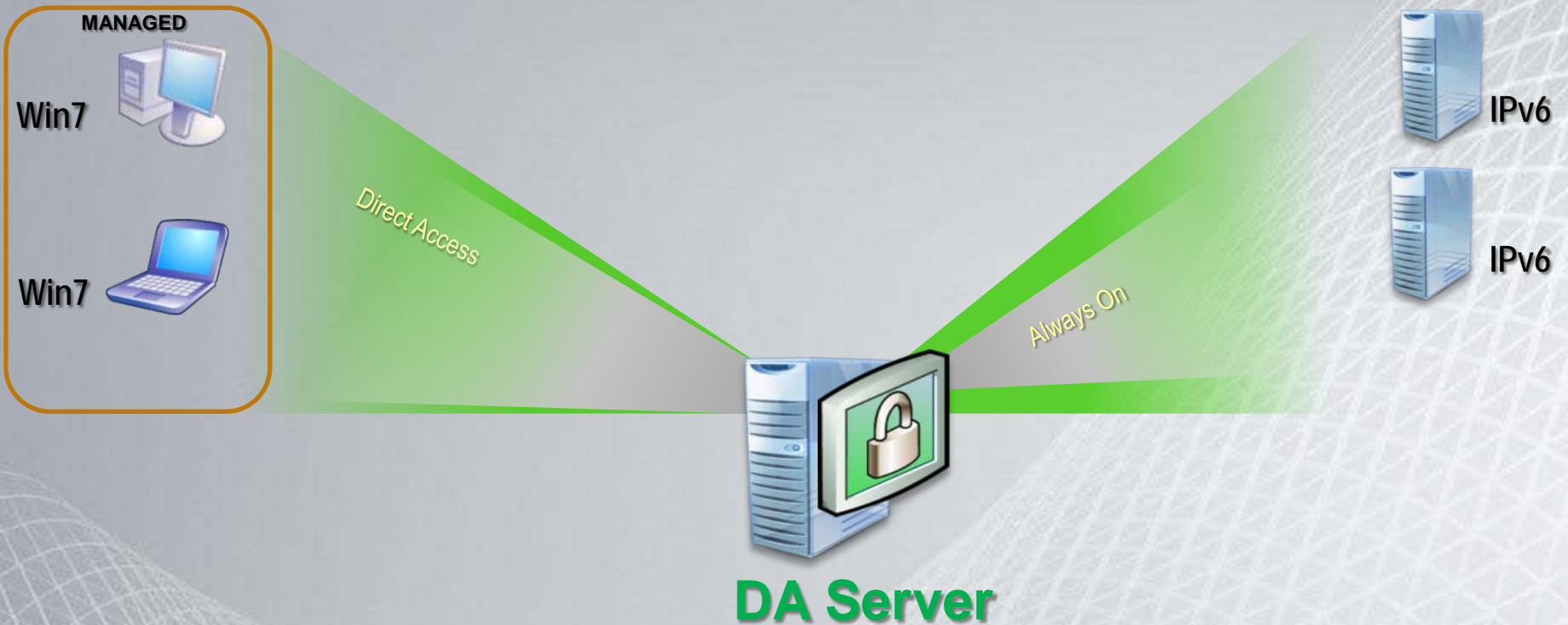
## End Point Access Controls

- Extensive and granular end point health detection
- Integrated with Network Access Protection (NAP) policies

## Scale and Management

- Built in load balancing
- Array management capabilities
- Enhanced monitoring and management (SCOM)

# Direct Access – Platform



Comprehensive anywhere access solution available in Windows 7 and Windows Server 2008 R2

- Provides seamless, always-on, secure connectivity to on-premise and remote users alike
- Eliminates the need to connect explicitly to corpnet while remote
- Facilitates secure, end-to-end communication and collaboration
- Leverages a policy-based network access approach
- Enables IT to easily service/secure/update/provision mobile machines whether they are inside or outside the network

# Direct Access – Solution

UAG Benefits for DA:


1. Improves adoption and extends access
2. Access for down level and non Windows clients
3. Enhances scalability and management
4. Simplifies deployment and administration
5. Improves security


**MANAGED**


Win7 

Win7 

**UNMANAGED**

Vista XP 

Non Windows 

PDA 



**Direct Access Server**

Microsoft  
**Forefront**  
Unified Access Gateway



IPv6



IPv6



IPv4



IPv4



IPv4

Direct Ac

Always On

SSL VPN

Extend support to IPv4 servers

**UAG is a hardened and edge-ready appliance available in HW and virtual options**

# Forefront Protection 2010 for Exchange

# Forefront Protection 2010 for Exchange

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Forefront security solutions help organizations protect their messaging and collaboration servers against viruses, worms, spam, and inappropriate content.

## Advanced Protection

Multiple scan engines at multiple layers throughout the e-mail infrastructure provide improved protection against e-mail threats.

## Availability & Control

Tight integration with Microsoft Exchange and Windows-based SMTP servers maximizes availability and management control.

## Secure Content

Helps organizations eliminate inappropriate language and dangerous attachments from internal and external communications



# What's New

## Forefront Protection for Exchange 2010

Forefront Protection 2010 for Exchange Server combines real-time antivirus, antispyware, antispam, and content filtering in a single solution to provide comprehensive protection against the latest threats to your messaging infrastructure.

New features include:

- Premium antispam protection, with 99 percent detection rate, less than 1 in 250,000 false positives, and backscatter filtering.
- New user interface with dashboard view of detection statistics and health monitoring.
- Antispyware scanning provided by the Microsoft Antimalware Engine.
- Integrated provisioning and management of Forefront Online Protection for Exchange (FOPE) for hybrid, on-premise/hosted protection.
- Support for Exchange 2010 and Exchange 2007, Windows PowerShell, and Hyper-V.
- Standardized installation using MSI installer

## Microsoft Forefront Protection 2010 for Exchange Server

SC rate: 99.93%

SC rate (VB corpus): 97.35%

SC rate (image spam): 99.77%

SC rate (large spam): 99.90%

FP rate: 0.23%

FP rate (VB corpus): 0.79%

Final score: 99.25



*Microsoft's Forefront Protection 2010 for Exchange Server* was the clear winner of the last test, achieving the highest final score by some distance. The final scores of the various products were closer this month, but with the second highest spam catch rate and just a handful of false positives, *Forefront* was yet again the product with the highest final score and adds another VBSpam award to its collection.

## CONCLUSION

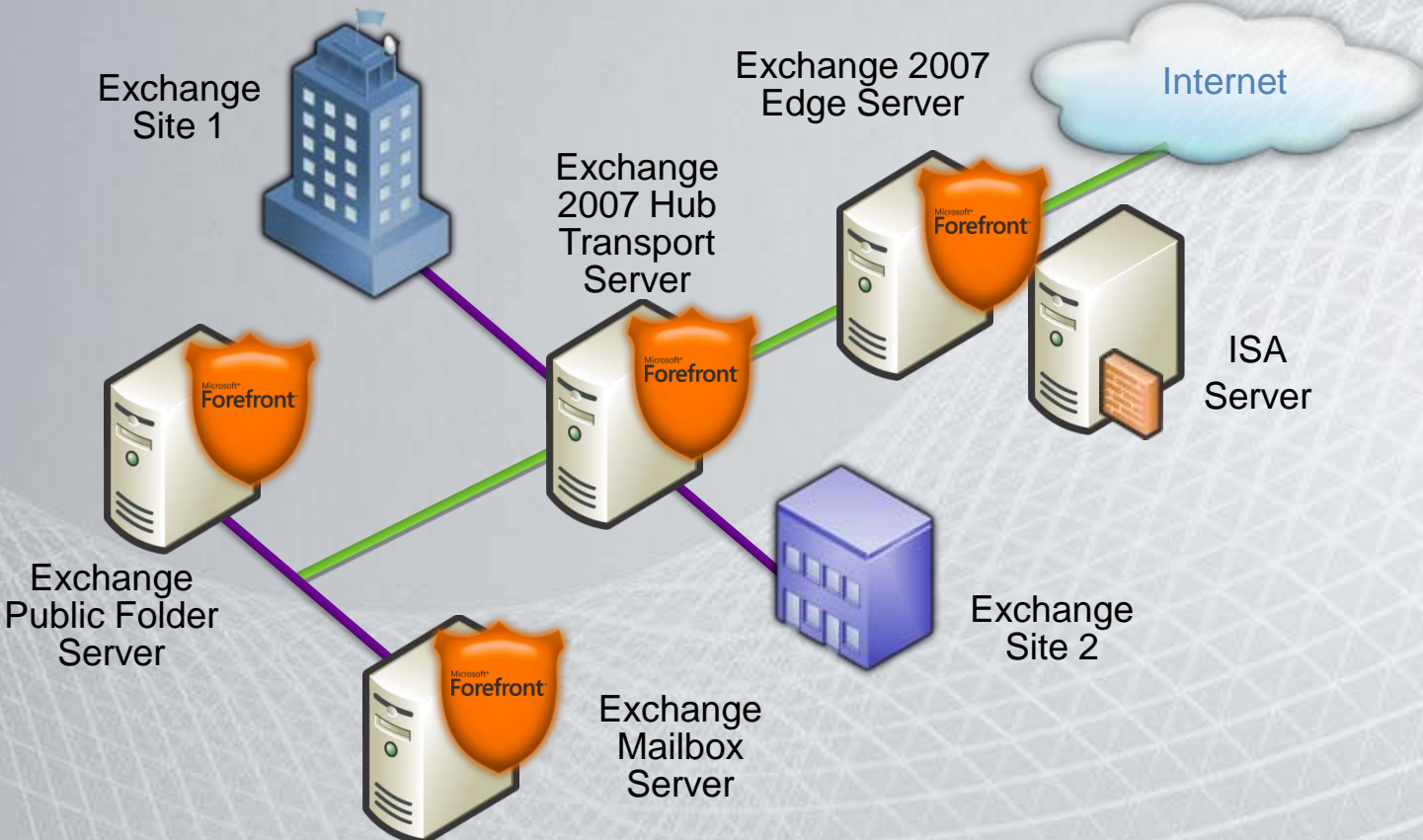
Products ranked by final score	Final score
MS Forefront	99.25
BitDefender	99.14
Libra Esva	99.13
Vamsoft ORF	99.13
Symantec Brightmail	99.12
Sophos	99.00
Spamhaus	98.68
MXTools Suite	98.67
M86 MailMarshal	98.46
Webroot	98.30
McAfee EWS	98.29
Vade Retro	98.18
The Email Laundry	98.15
SpamTitan	98.11
Kaspersky	98.01
McAfee Email Gateway	97.83
FortiMail	97.32
SPAMfighter	96.79
Sunbelt VIPRE	95.43
modusGate	94.60
MessageStream	93.86

This month saw several significant changes to the test corpora, and it was interesting to see how products coped with a more international corpus of legitimate emails including different character sets.

The developers of the products that did not perform so well on this occasion will be eager to show in the next test that this was due to settings needing to be tweaked rather than a fault in the product. The top performers, of course, will need to demonstrate that their results weren't just a coincidence and that they can perform well consistently; a complete picture of the quality of a product can only be gained by looking at the results of several VBSpam reviews and monitoring the performance of products over time.

As always, comments and suggestions from vendors, researchers and end-users are welcome. The next test is set to run throughout June; the deadline for product submission is 25 May 2010. Any developers interested in submitting a product should email [martijn.grooten@virusbtn.com](mailto:martijn.grooten@virusbtn.com).

# Layered Protection Across Exchange Roles



# Forefront Protection 2010 for SharePoint

# Forefront Protection 2010 for SharePoint

Microsoft Forefront Security for SharePoint integrates multiple scan engines from industry-leading vendors and content controls to help businesses protect their Microsoft SharePoint collaboration environments by eliminating documents containing malicious code, confidential information, and inappropriate content.

## Comprehensive Protection

- Multiple industry-leading antivirus engines
- File & Content Keyword Filtering
- Support for Open XML & IRM-protected docs

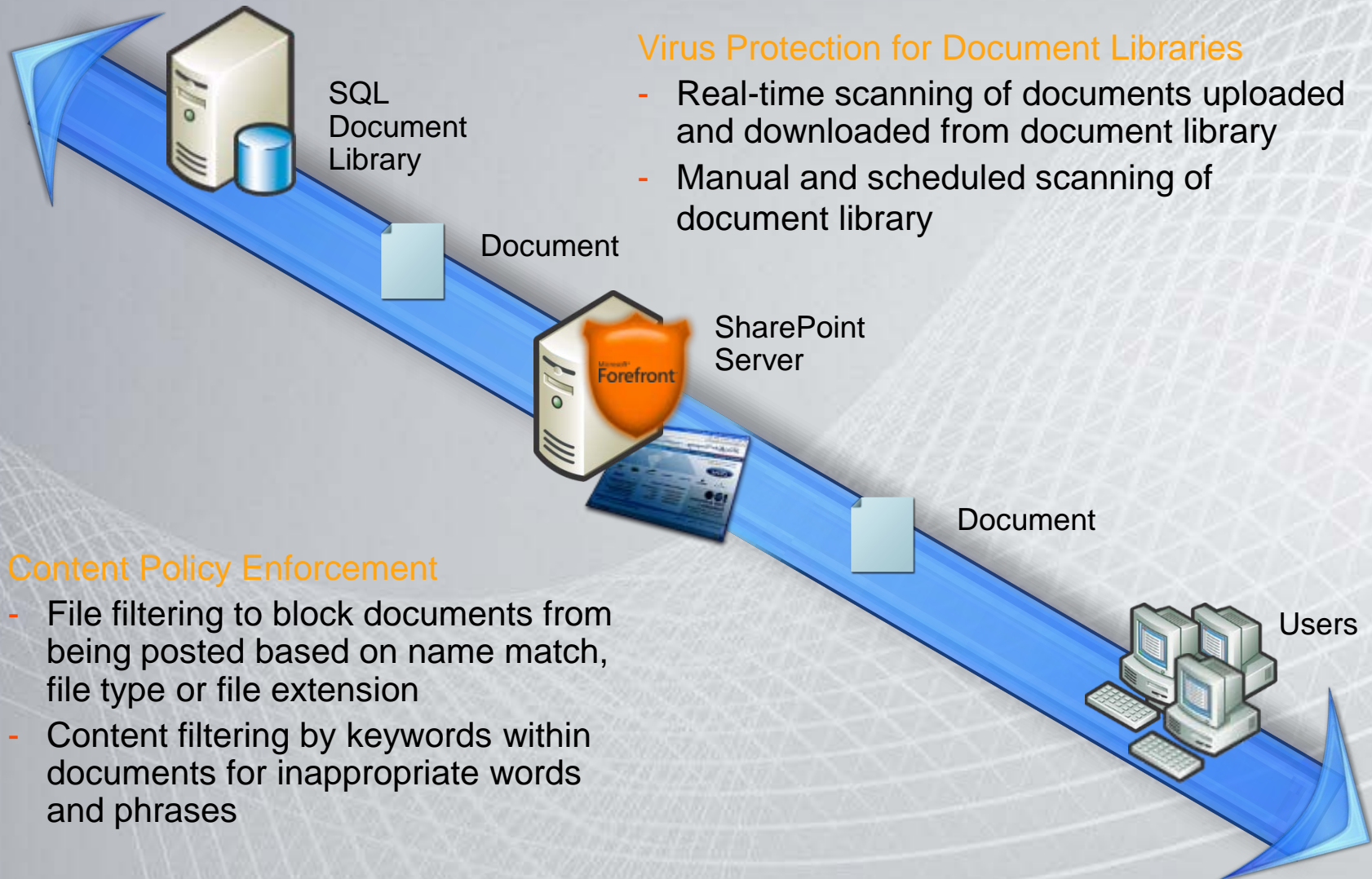
## Optimized Performance

- Deep integration with SharePoint Server
- Scanning innovations and performance controls
- Continuous scanning during engine updates

## Simplified Management

- Administration console for easy setup and management
- Automated signature updates
- Centralized reporting, notifications and alerts

# Forefront Security for SharePoint



## Virus Protection for Document Libraries

- Real-time scanning of documents uploaded and downloaded from document library
- Manual and scheduled scanning of document library

## Content Policy Enforcement

- File filtering to block documents from being posted based on name match, file type or file extension
- Content filtering by keywords within documents for inappropriate words and phrases

# Forefront Protection for OCS



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Security for Office Communications Server

Microsoft Forefront Security for Office Communications Server provides fast and effective protection against IM-based malware by including multiple scanning engines from industry-leading security partners in a single solution and helps reduce corporate liability by blocking IM messaging containing inappropriate content.

## Comprehensive Protection

- Integrates multiple antimalware engines
- Blocks transfer of dangerous file types
- Prevents sharing of out-of-policy content

## Optimized Performance

- Optimizes virus scanning on OCS 2007
- Integrates with multiple server roles
- Protects federated connections and public IM

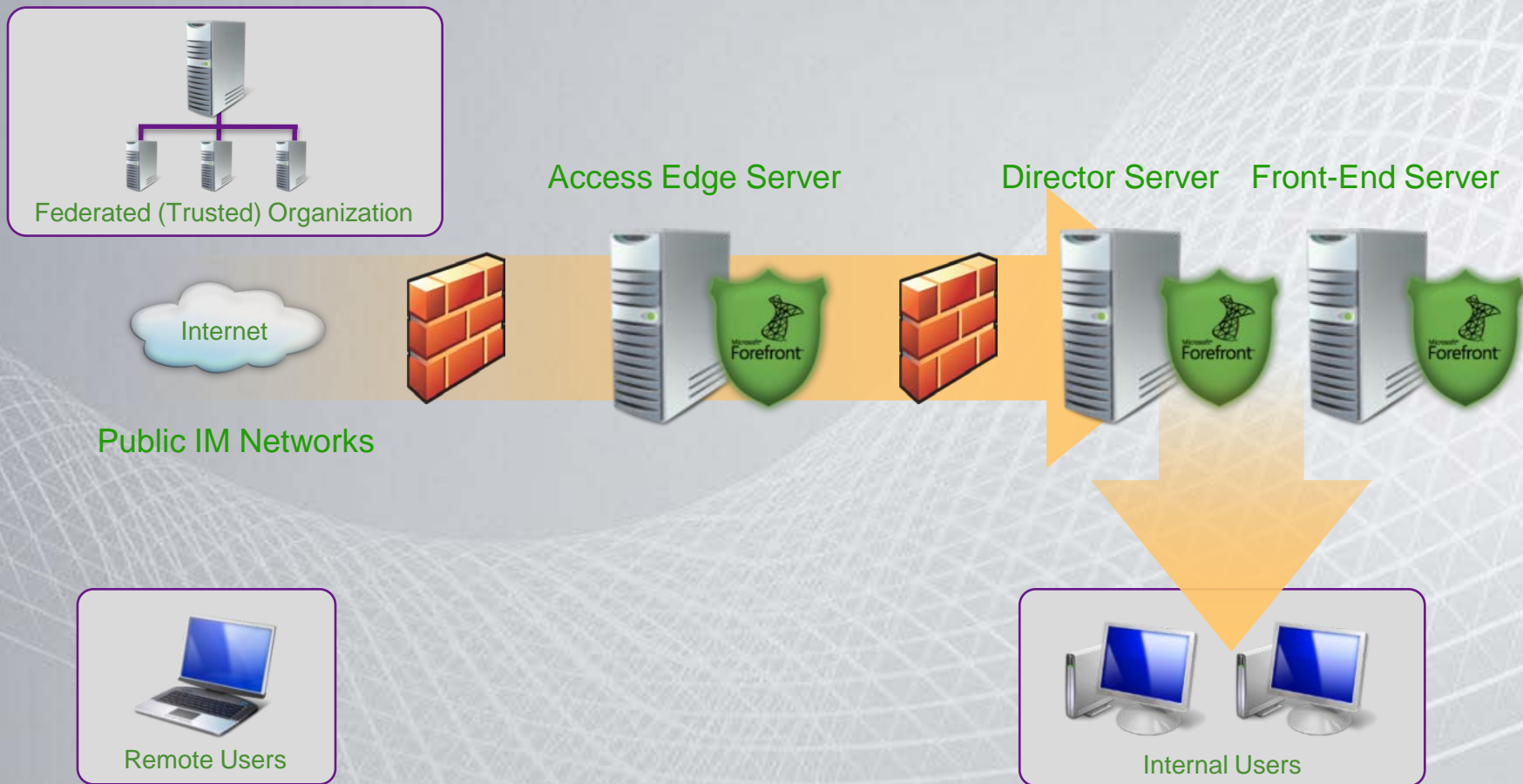
## Simplified Management

- Built-in administrator console
- Automated signature updates
- IM notifications for out-of-policy activity



# OCS 2007 Enterprise Integration

FSOCS protects each instance of Standard Edition, Front End, Director and Access Edge server roles, with support for OCS 2007 and OCS 2007 R2 and Lync 2010 soon.



# Forefront End Point Protection

# Forefront Endpoint Protection 2010



## Lower Cost of Deployment

- Built on Configuration Manager software distribution infrastructure
- Supports all Configuration Manager topologies including Branch Office and Non-Domain-Joined
- Ease of migration
- Deployed across various operating systems (Windows Client & Server)



## Be Protected and Stay Productive

- Protect your desktops against viruses, spyware, rootkits, and malware
- Productivity oriented default configuration
- Integrated host firewall management
- Backed by global Malware Research and Response



## Unified Desktop Management

- Unified management interface targeted for the desktop admin
- Actionable and timely alerting
- Simple operation-oriented policy administration
- Historic reporting for security administrator

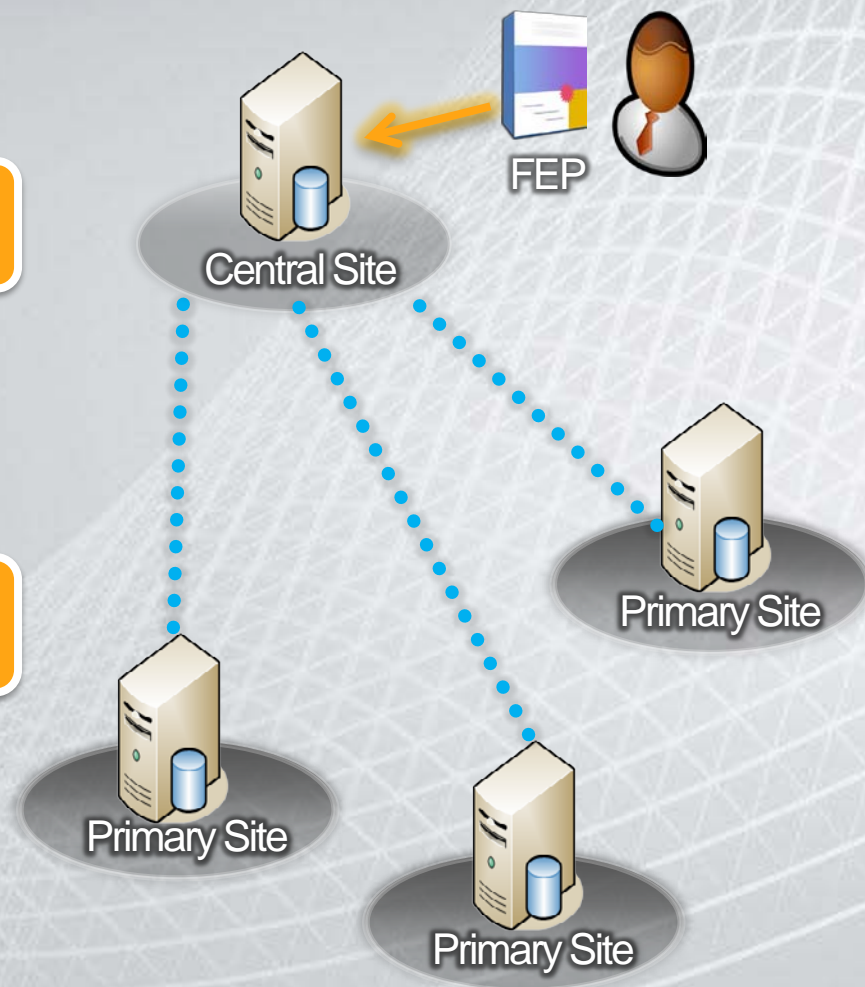
# Building Endpoint Protection On ConfigMgr 2007

Uses the existing infrastructure

- No new servers
- Integrated management experience

Simple deployment process

- Installs on to existing ConfigMgr roles
- Client deployment using the existing infrastructure, tools & processes



# Client Deployment Overview

- Built on ConfigMgr Software Distribution
- Supports existing topologies including NDJ, Branch
- Automatically switches existing client install base:
  - Upgrade from Forefront Client Security v.1
  - Switch from Symantec, McAfee and TrendMicro clients
- Also supports deployment on clients not managed via ConfigMgr

# Switching from other security providers

- **Switching challenges**
  - Different products, managed by different systems
  - Vulnerability window during replacement
  - Complex, error prone to automate
- **Switching functionality in FEP 2010**
  - Integrated with deployment, not a standalone tool
  - Fully automated
  - Encapsulates the complexities of switching
  - Reduces the overall deployment costs

# Microsoft Forefront Identity Manager 2010

# Microsoft Forefront Identity Manager

## Microsoft® Identity Lifecycle Manager 2007



- Identity Synchronization
- User Provisioning
- Certificate and Smartcard Management



## Microsoft® Forefront™ Identity Manager 2010



- Office Integration for Self-Service
- Support for 3rd Party CAs
- Codeless Provisioning
- Group & DL Management
- Workflow and Policy



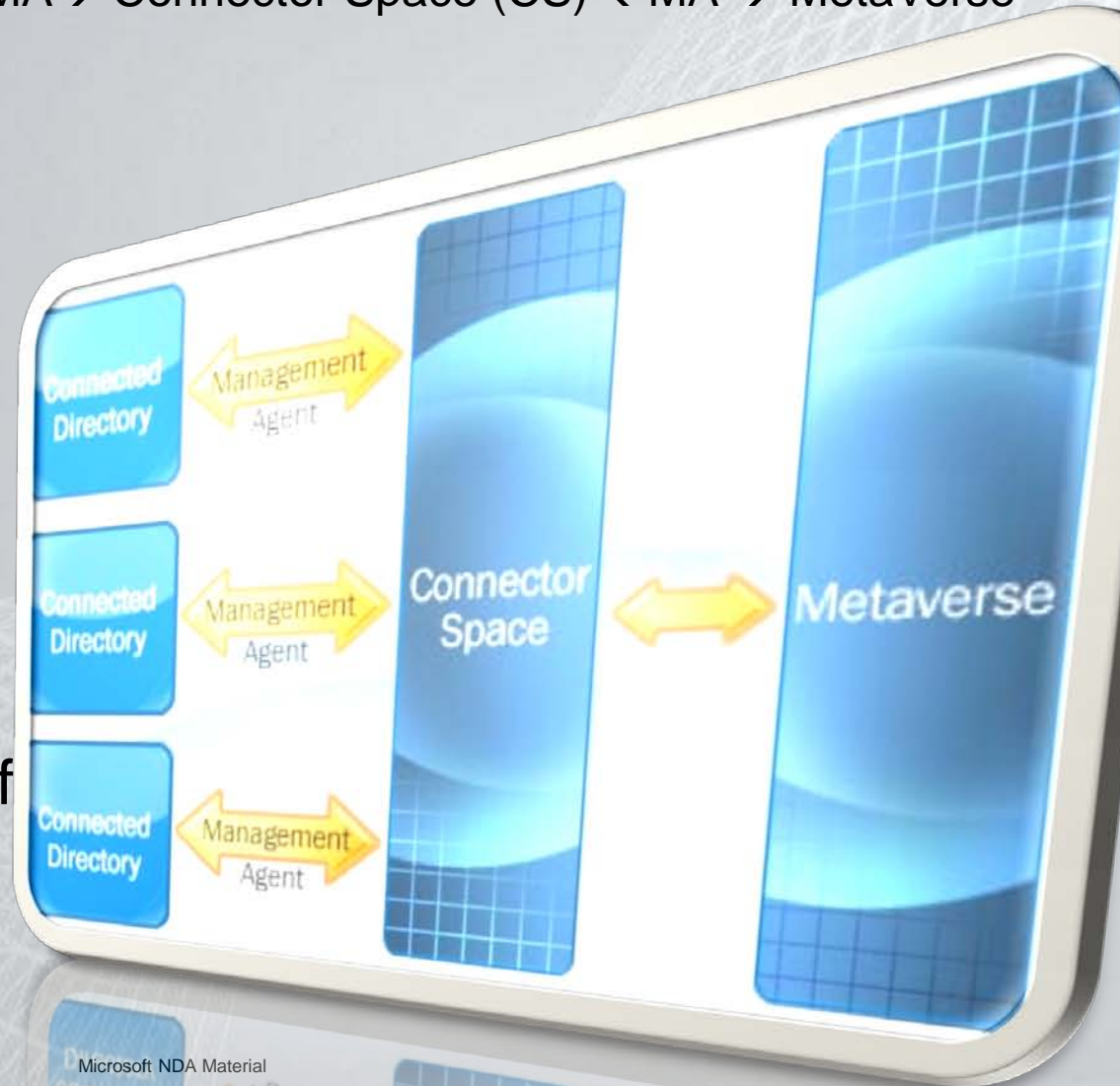
# FIM 2010 Components

- **Synchronization Service**
  - Provisioning / De-provisioning
  - Password Synchronization
- **Identity Portal**
  - Password Self-Service
  - Group Management
  - Workflow
- **Certificate Management**
  - Strong authentication

# Sync. Service: FIM 2010 Data Flow

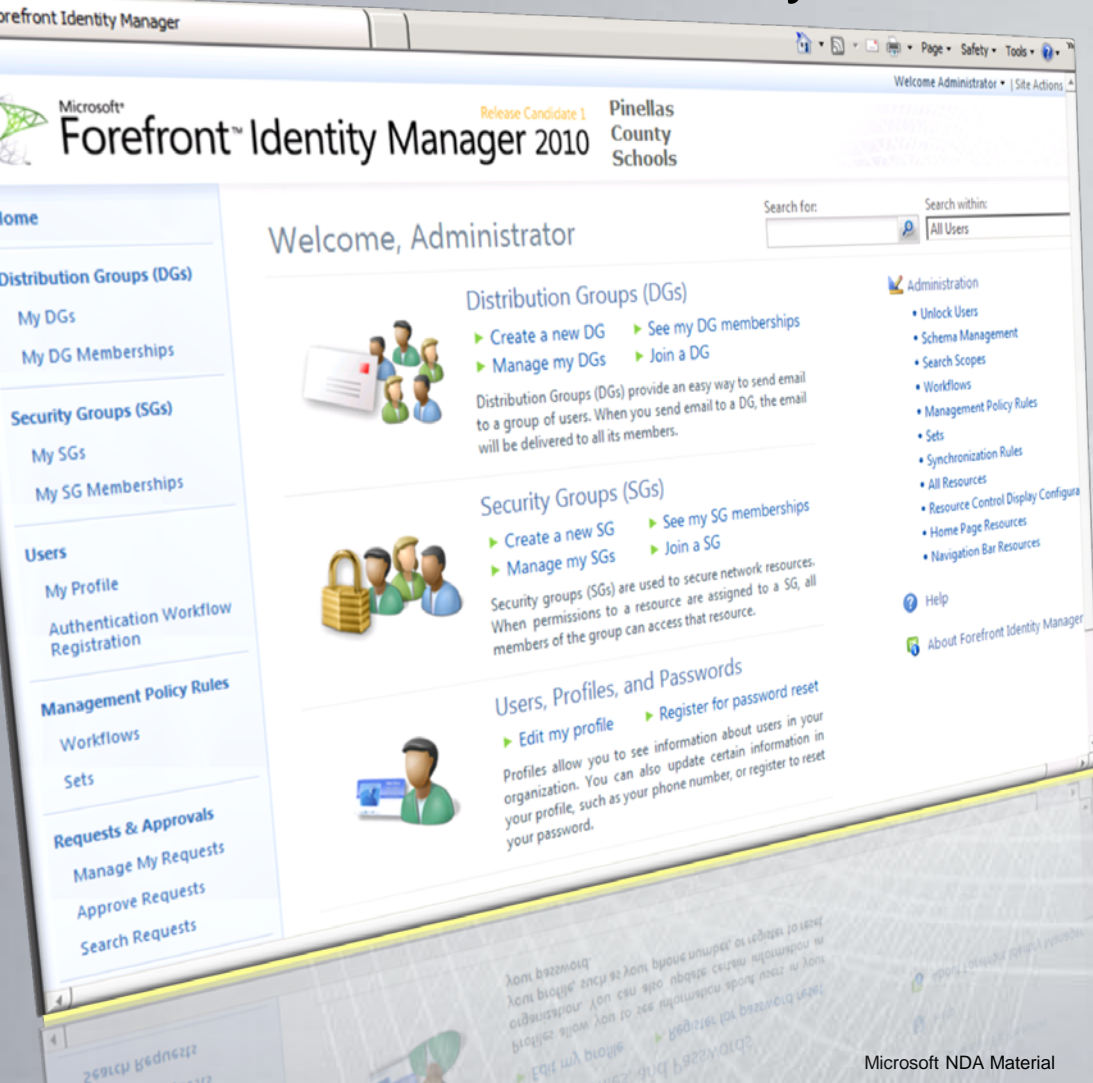
Connected Data Source (CDS) ←MA→ Connector Space (CS) ←MA→ MetaVerse

- Management Agent governs data flow
- SQL Server 2008 Backend
  - Connector Spaces & MetaVerse
  - Each Management Agent has its own Connector Space
- Architecture is designed to allow for processing of business rules before synchronization



# Identity Portal: Make it Yours!

## SharePoint-based Identity Portal for Management and Self



How you extend it

- Add your own portal pages or web parts
- Build new custom solutions
- Expose new attributes to manage by extending FIM 2010 schema
- Choose SharePoint theme to customize look and feel

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