CISCO SYSTEMS

SECURING THE INTELLIGENT INFORMATION NETWORK
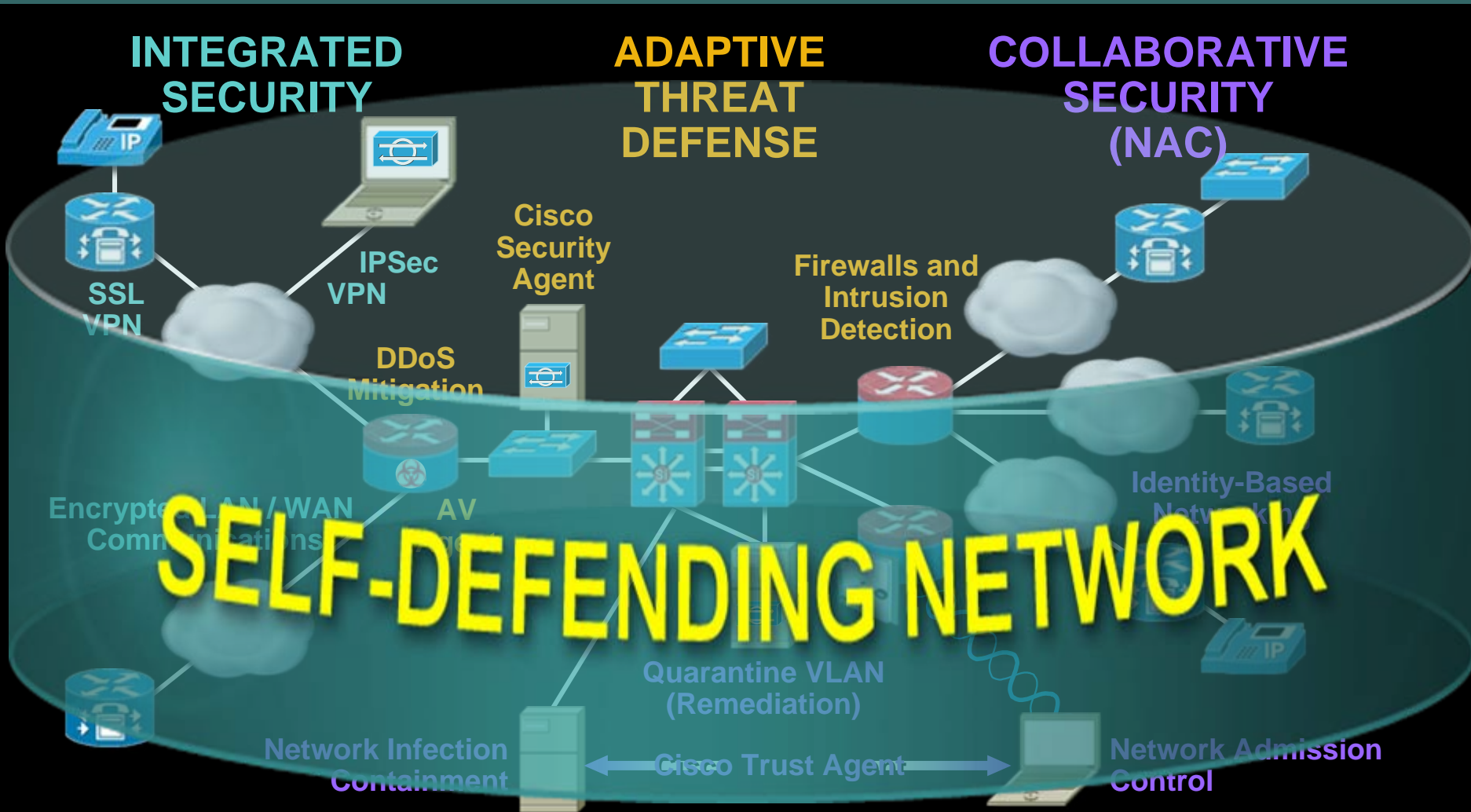
Fadi Moubarak
Regional Sales Manager, Levant Area

February 2006

Security Vision:
Comprehensive Architecture Approach

INTEGRATED SECURITY

ADAPTIVE THREAT DEFENSE

COLLABORATIVE SECURITY (NAC)

SSL VPN

IPSec VPN

DDoS Mitigation

Cisco Security Agent

Firewalls and Intrusion Detection

Encrypted LAN/WAN Communications

AV

Identity-Based Networks

SELF-DEFENDING NETWORK

Quarantine VLAN (Remediation)

Network Infection Containment

Cisco Trust Agent

Network Admission Control

"5–7 Years to Drive Architecture"

Adaptive Threat Defense (ATD)

Technology Convergence Increases Effectiveness and Efficiency

CONTENT CONTROL
Payload Security (L 4-7)

NETWORK INTELLIGENCE
IP Fabric Services

+

Virtualized Fabric

NETWORK CONTROL
Traffic Security (L 2-3)

=

Smarter Security

Adaptive Threat Defense

Operational Efficiency

Adaptive Threat Defense in Action
Products, Services and Architecture Example

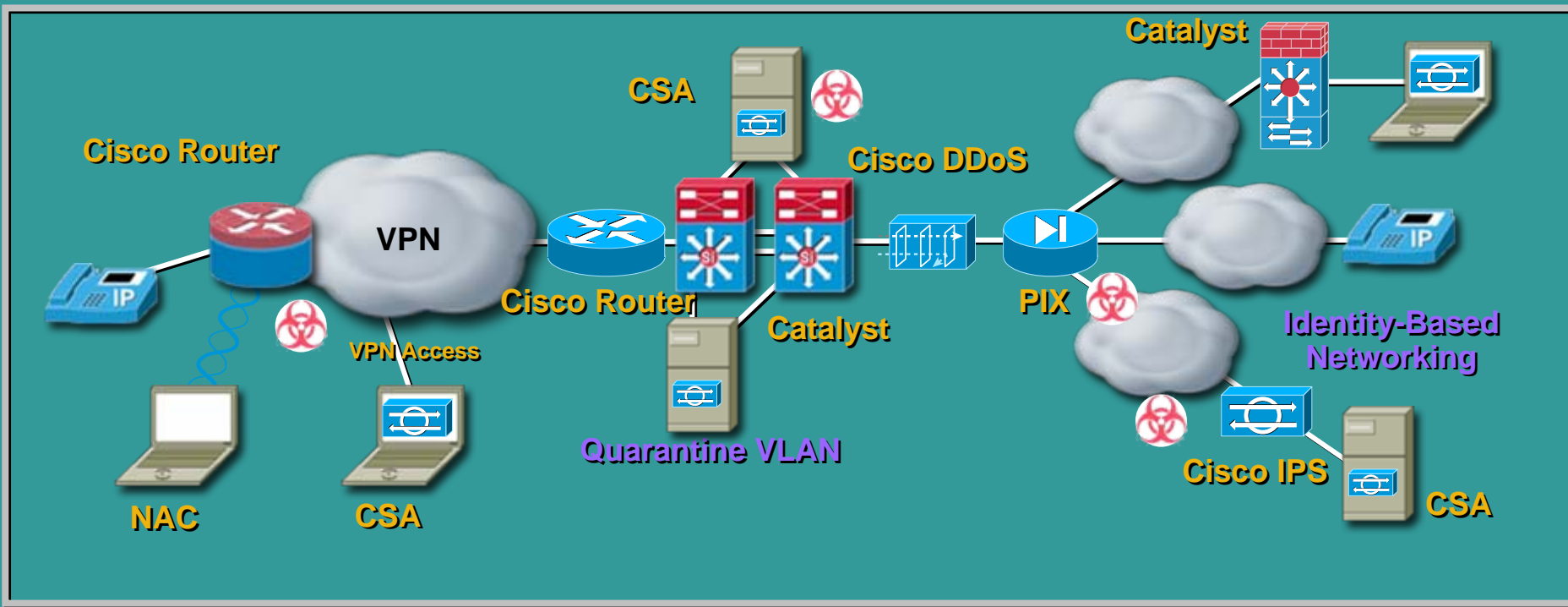**Access Control, Packet Inspection**
Firewall Services

Application Intelligence, Content Inspection, Virus Mitigation
IPS and NW-AV Services

Identity, Virtualization, QoS Segmentation, Traffic Visibility
Network Intelligence

App Inspection, Use Enforcement, Web Control	Malware/Content Defense, Anomaly Detection	Traffic/Admission Control, Proactive Response
Application Security	**Anti-X Defenses**	**Containment / Control**

Catalyst

CSA

Cisco DDoS

Cisco Router

VPN

Cisco Router

PIX

Catalyst

Identity-Based Networking

VPN Access

Quarantine VLAN

Cisco IPS

NAC

CSA

CSA

Implementing Adaptive Threat Defense
Product Announcements

Products	Application Security	Anti-X	Containment and Control
IPS 5.0	• Multi-Vector Threat Identification	• Malware, virus, worm mitigation	• Accurate Prevention Technologies In-Line IPS
VPN 3000 Concentrator 4.7	• SSL VPN Tunnel Client • Fully Clientless Citrix	• Cisco Secure Desktop	• Cisco NAC
IOS 12.3(14)T	• Application Inspection/ Control for IOS Firewall	• Enhanced In-Line IPS	• Network Foundation Protection, Virtual Firewall, IPSec Virtual Interface
PIX 7.0	• Application Inspection/ Control for Firewall • Enhanced VoIP Security		• Virtual firewall, QoS, transparent firewall, IPv6
Cisco Security Agent 4.5		• Spyware mitigation • System inventory/ auditing	• Context-based policies
Catalyst DDoS Modules		• Anomaly Guard Module • Traffic Anomaly Detector	
Cisco MARS			• Event correlation for proactive response
Cisco Security Auditor			• Network-wide security policy auditing

Implementing Adaptive Threat Defense
Product Announcements

Cisco.com

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Cisco MARS			• Event correlation for proactive response
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Appliances

Routers / Switches

Software

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Value of Integrated Security System
Security is no longer an option… It's a necessity
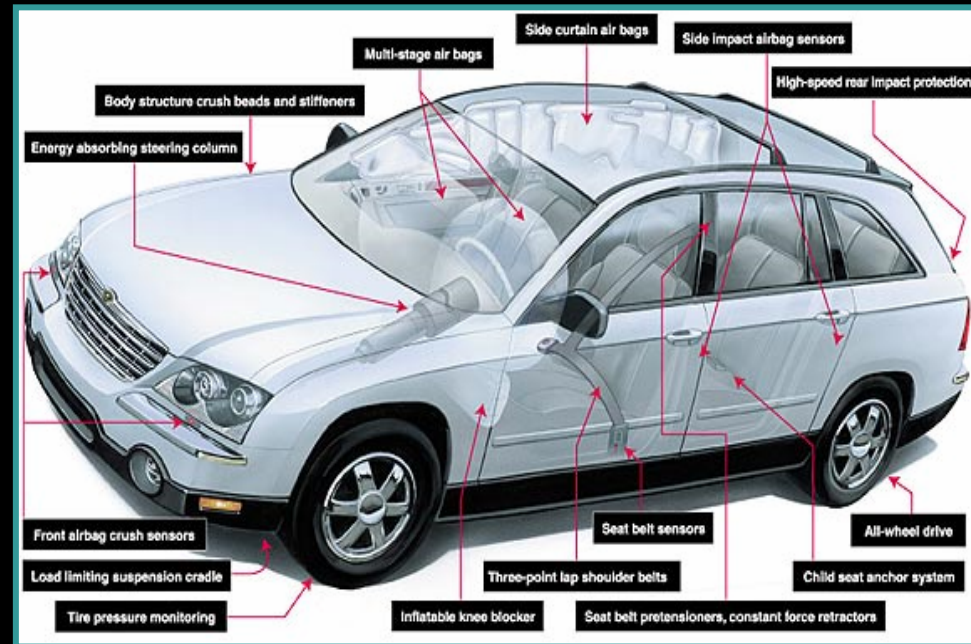
Security as an Option

- **Security is an add-on**
- **Challenging integration**
- **Not cost-effective**
- **Cannot focus on core priority**

Security as INTEGRAL of a System

- **Security is built-in**
- **Intelligent collaboration**
- **Appropriate security**
- **Direct focus on core priority**