



i n v e n t



Bill Wear

VirtualVault
Product Manager

Internet Banking
Case Study

Business Problem?

A Swedish bank wants an Internet Branch.

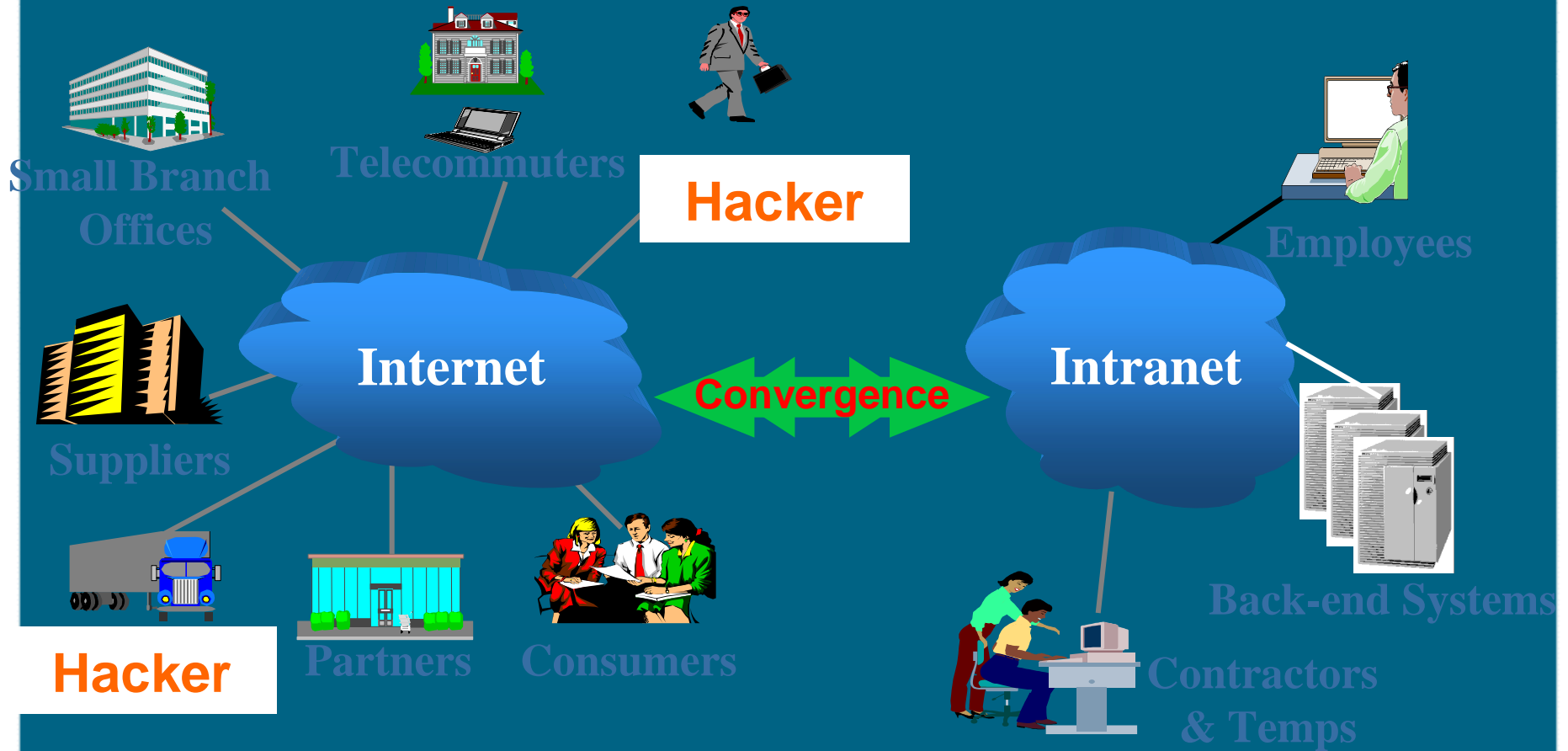
Make the security barrier high enough . . .



. . . but not TOO high.

And by the way, they ADORE security by obscurity.

What do you mean "Internet Branch" ?



... AND BLOCK ACCESS TO THE IMPOSTERS

What are your economic drivers?

Demand for improved customer service

=> Direct access to “internal” applications

Cost savings & business focus

=> Outsourcing services outside core competency

More efficient business models

=> Participate in trading exchanges

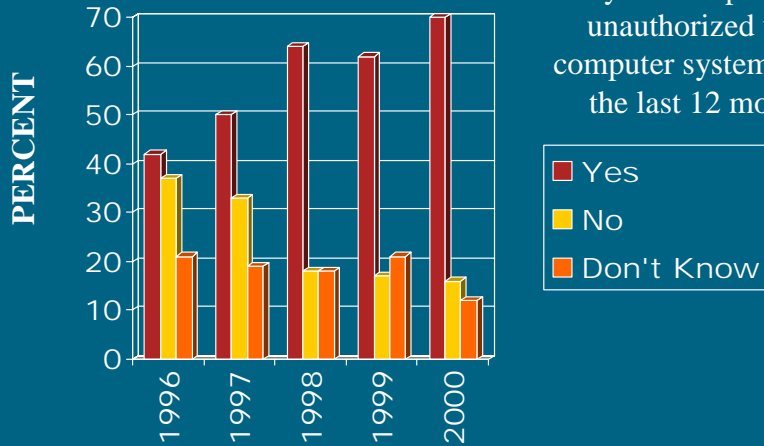
Increased competition

=> Expanding partner collaboration

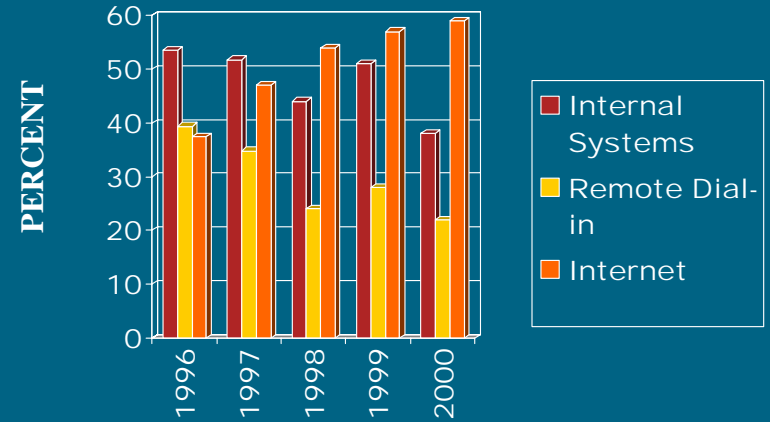
What do you perceive to be the risks?

Computer Security Breaches Are on the Rise...

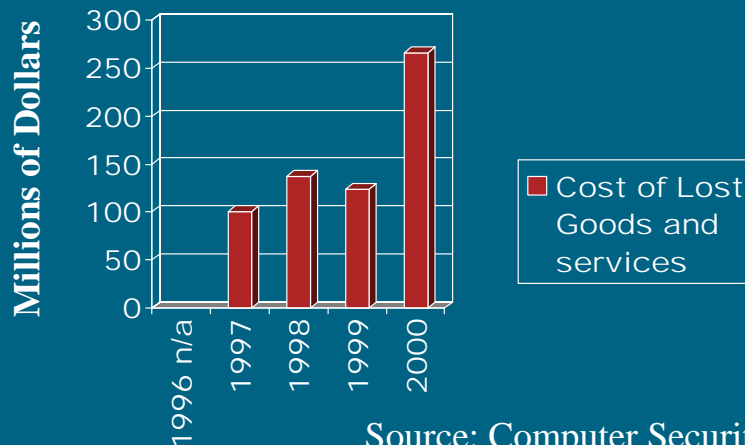
Has your company had an unauthorized use of computer systems within the last 12 months?



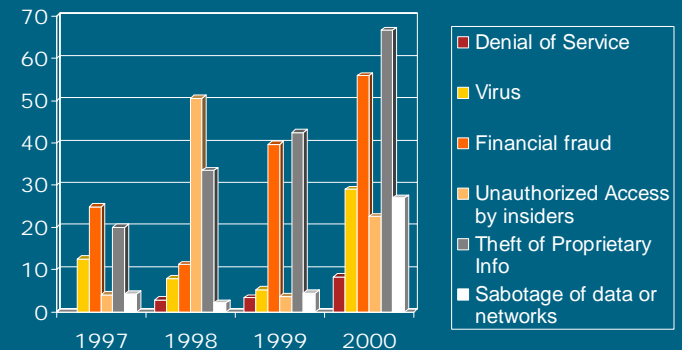
And the Most Popular Route In Is the Internet...



...Adding Up to Bigger Losses.

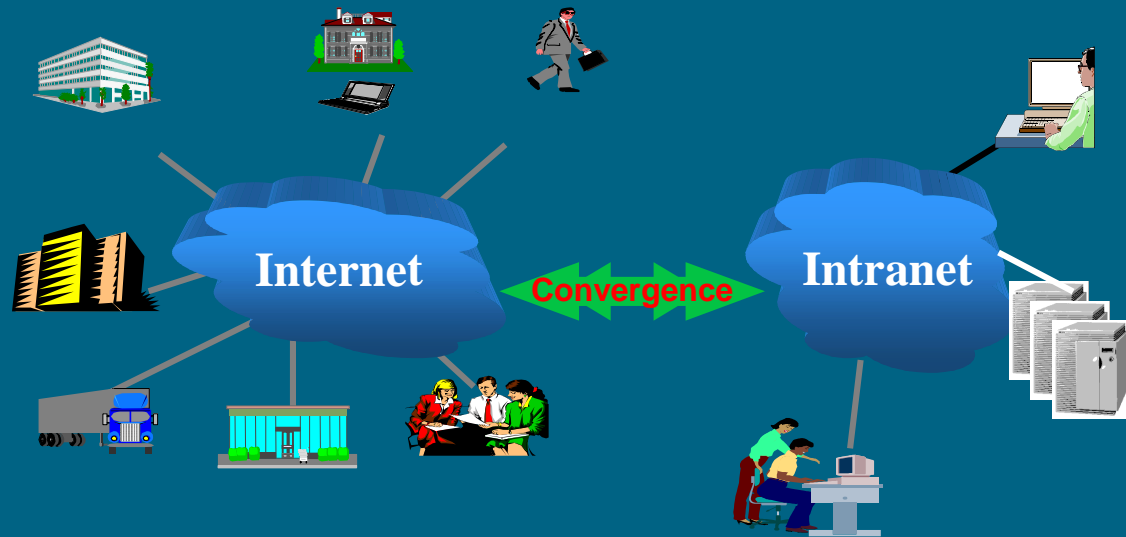


Cost of Computer Crime



Source: Computer Security Institute/FBI "2000 Computer Crime and Security Survey"

Is it really just money at risk?



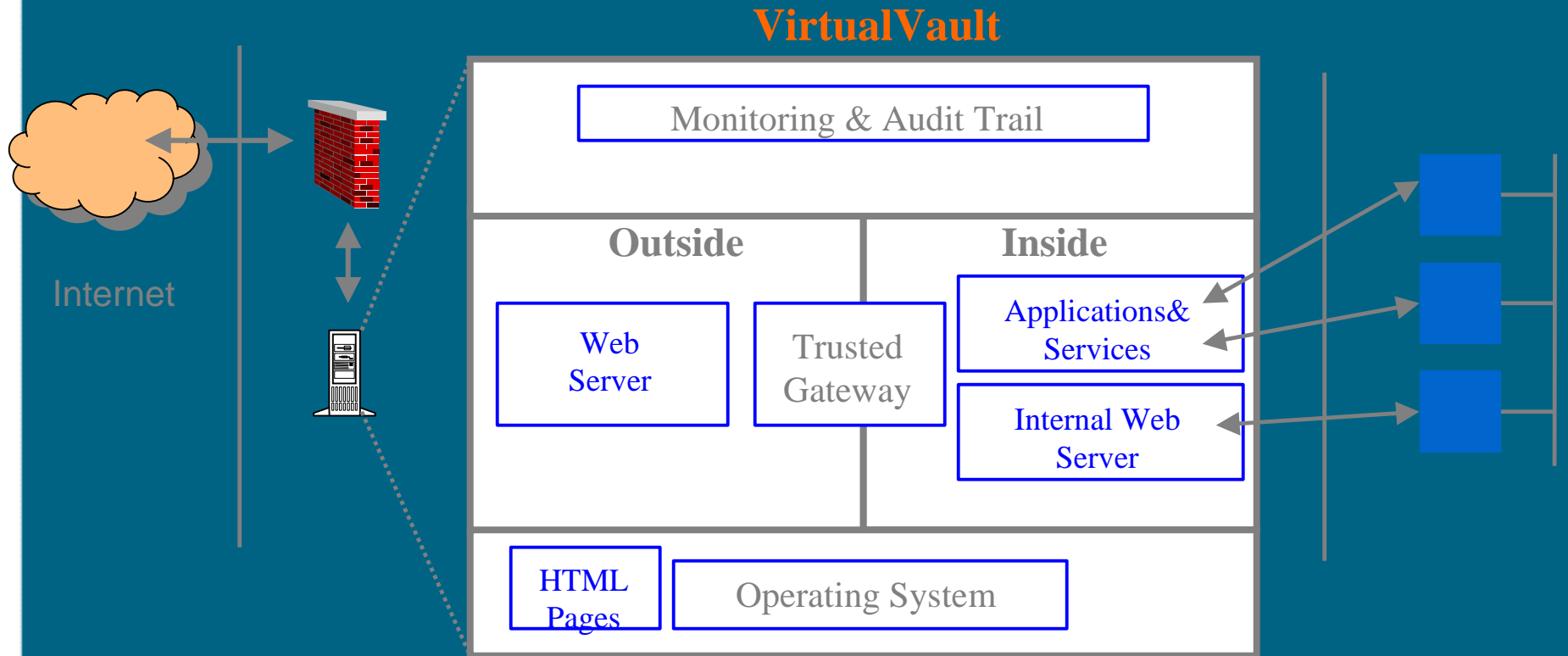
- Privacy
- Confidentiality
- Data Integrity
- Availability
- Non-monetary Resources
- Swedish laws imposing penalties for inadequate security

The “How-To” List

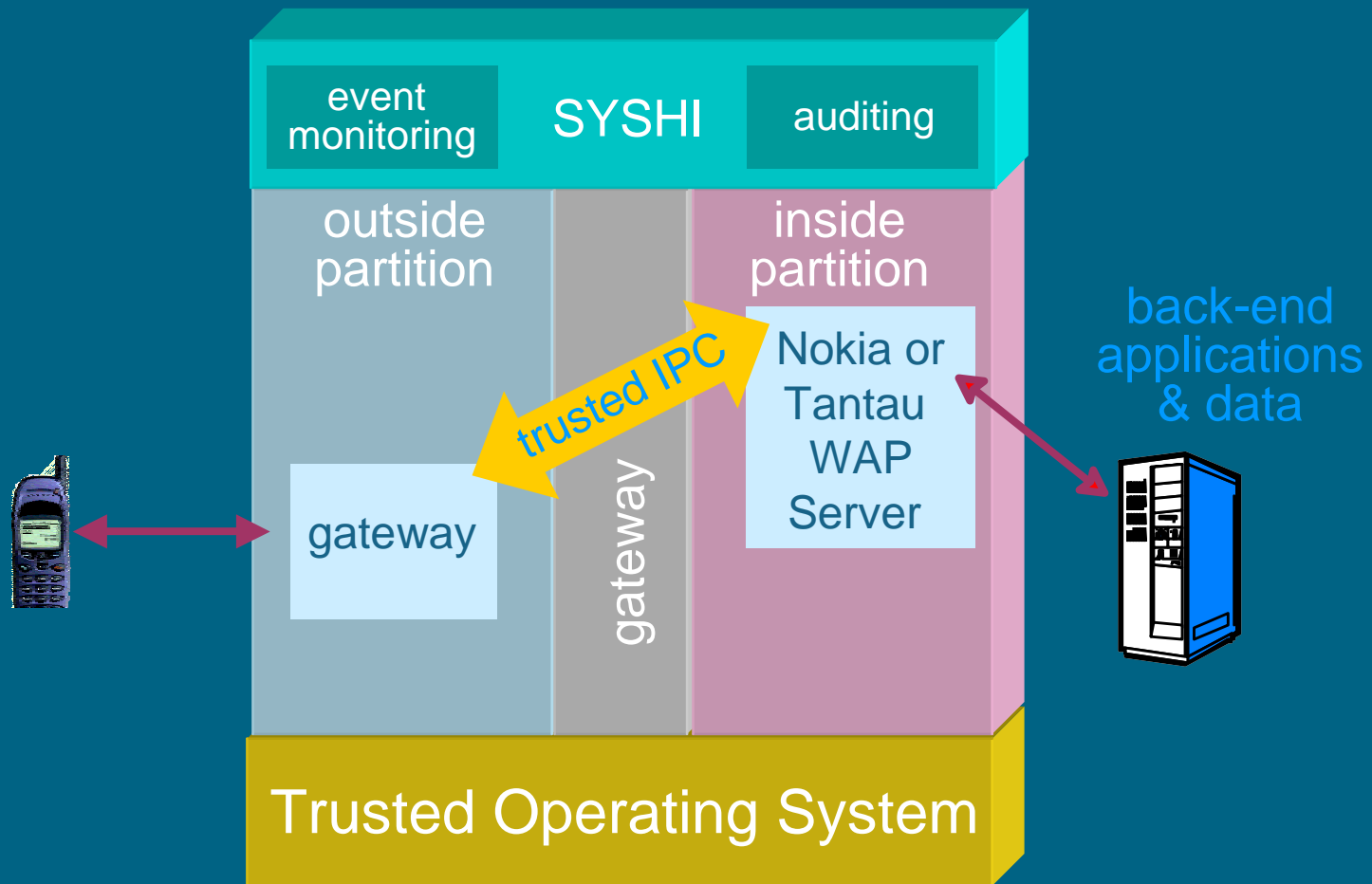
- **In order to get this bank off the bricks, we had to figure out:**

1. How to provide “outsider” access without jeopardizing the enterprise.
2. How to add appropriate security without modifying existing applications.
3. How to authorize access to the right people.
4. How to delegate security administration to content owners, partners and customers.

The Toughest How-To: Securing Applications without Modification

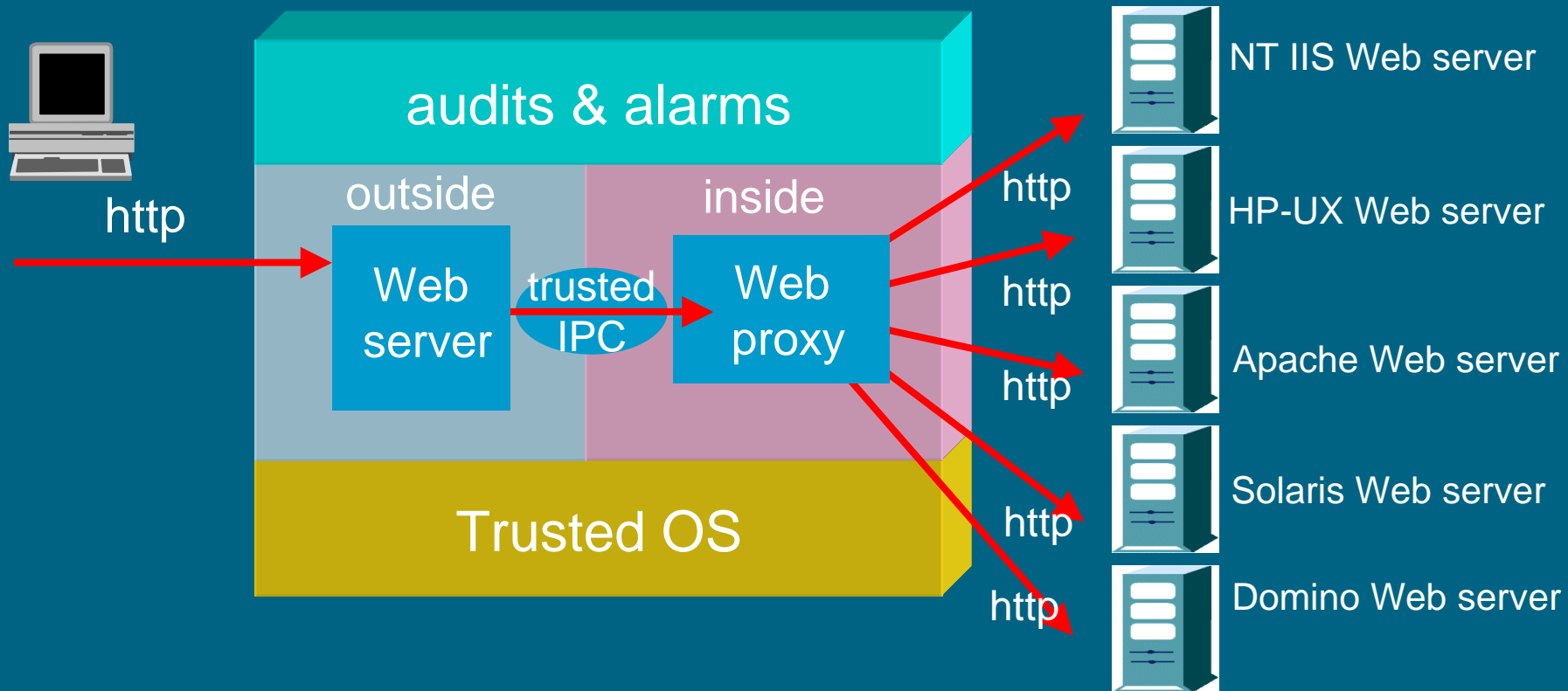


Oh, BTW, everyone has these phones...



nokia or tantau WAP on VV

...and some apps don't run on HP-UX...



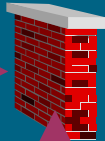
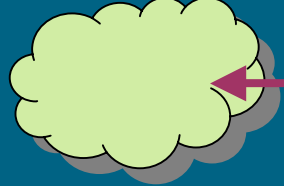
...and there's a lot of NT boxes...

un-trusted zone

boundary zone

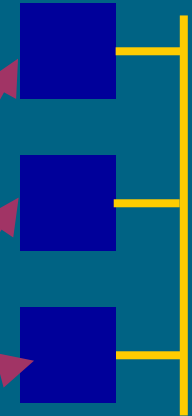
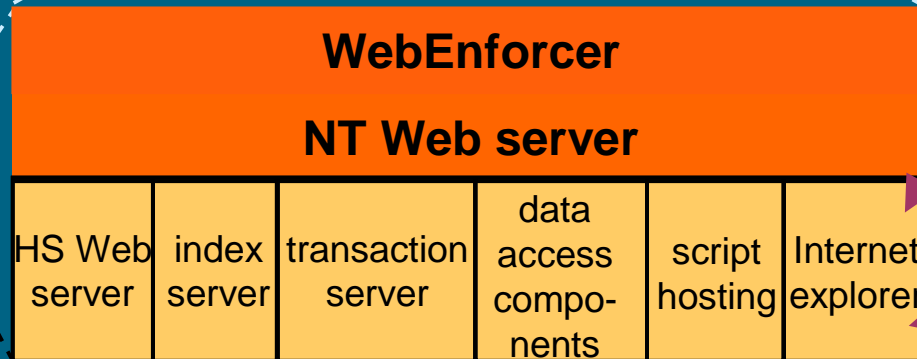
trusted zone

internet



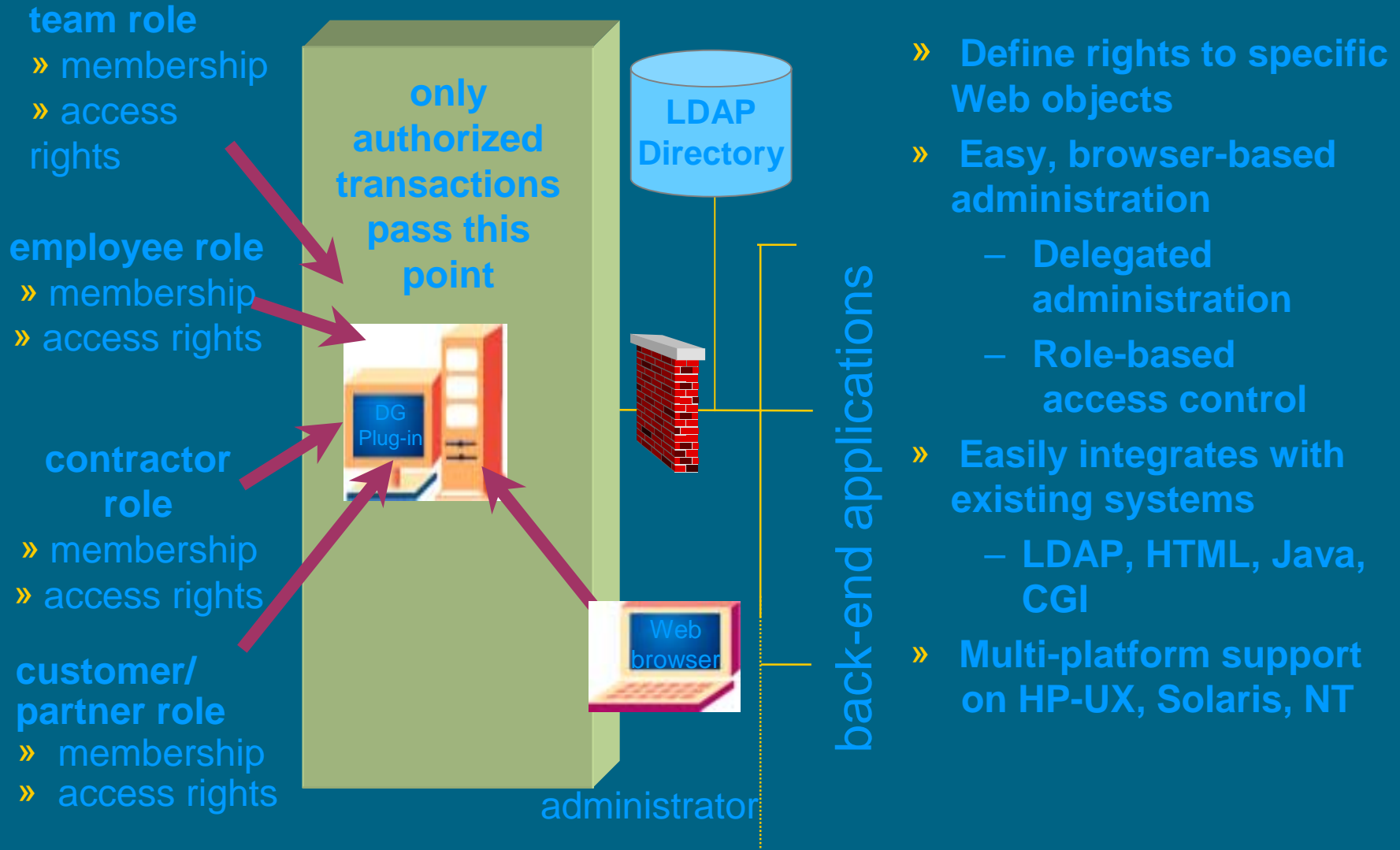
1. security analysis
2. security fixes
3. security maintenance
 - monitor
 - detect
 - enforce

the enterprise



complete Microsoft server environment

An Easier How-To: Authorizing Access to the Right People



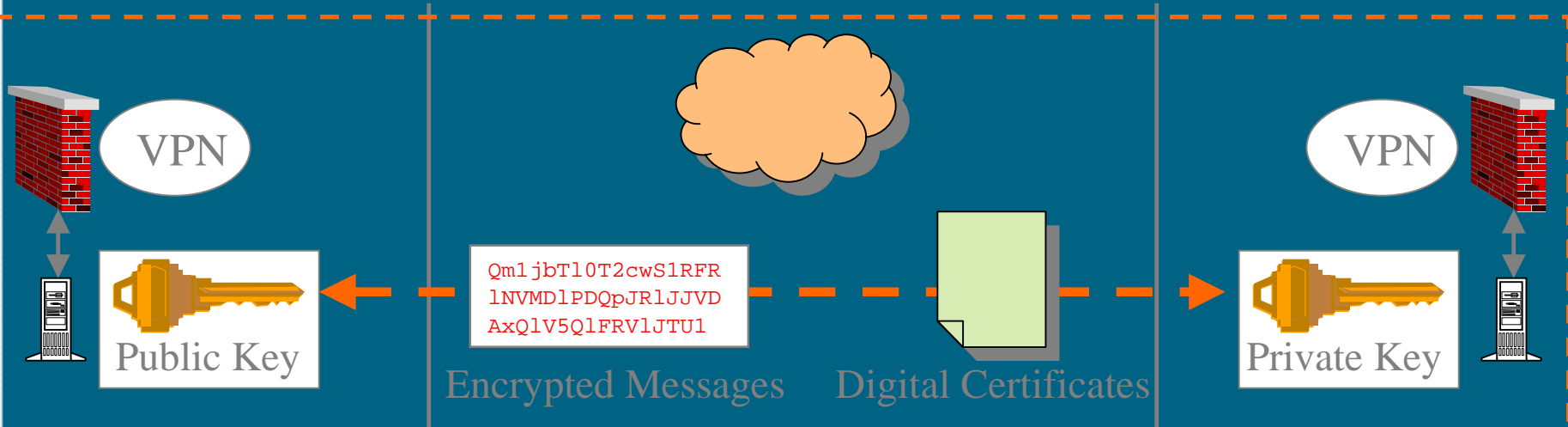
- » Define rights to specific Web objects
- » Easy, browser-based administration
 - Delegated administration
 - Role-based access control
- » Easily integrates with existing systems
 - LDAP, HTML, Java, CGI
- » Multi-platform support on HP-UX, Solaris, NT

The Easiest How-To: Providing Access for Outsiders

Boundary Zone

Un-trusted Zone

Boundary Zone



Qm1jbT10T2cwS1RFR
1NVMD1PDQpJR1JJVD
AxQ1V5Q1FRV1JTU1

Encrypted Messages

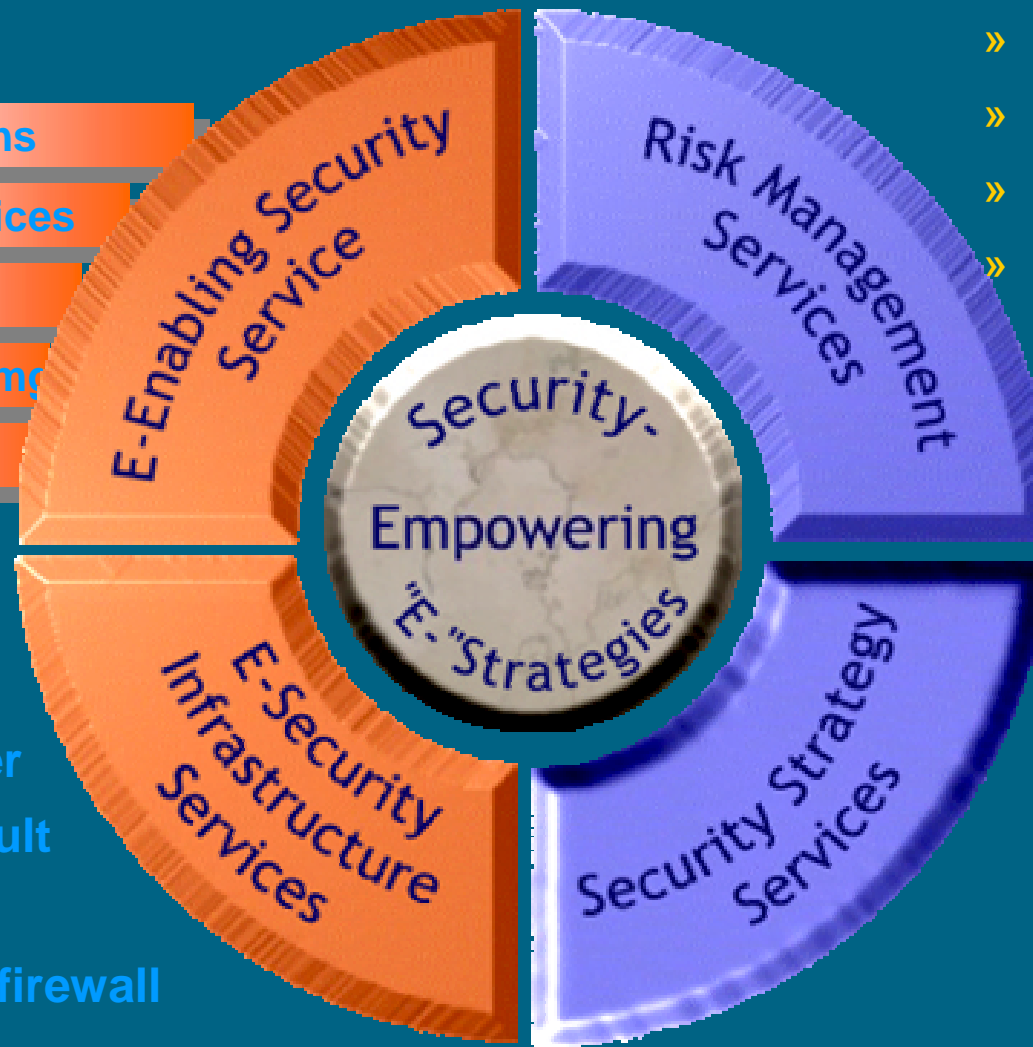
Digital Certificates

Private Key

Public Key Infrastructure

It took a little more than products to pull it off...

- portal solutions
- mobile e-services
- CRM
- supply chain mg
- EAI



- » risk assessment
- » penetration testing
- » intrusion mgt.
- » security dashboard

- » trust center
- » expressvault
- » vaulting
- » express e-firewall

- » e-security readiness
- » security policy and awareness

The Customer

S-E-Banken

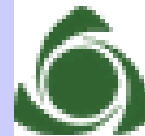
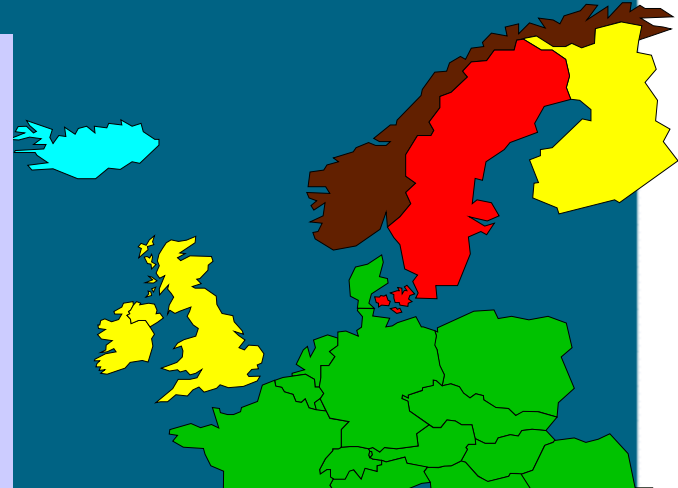
Virtual E-Banking

Objectives

- **Banking services diversification, e.g., payments, mutual fund transactions, account transfers, customer convenience, strong security**

Benefits

- **Cost reduction to customers and bank**
- **High value services can be offered**
- **500,000 customers currently**
- **Safeguards more than 20 banking applications**
- **Can handle 700,000 customer transaction per day**



S-E-Banken

“If HP had not been able to offer a secure Internet solution, S-E-Banken would not have even considered launching an Internet service at this time.” - Anders Lindqvist, Director Internet Service, S-E-Banken

Your \$7.0 Trillion Web Security Blanket.

Are you ready to join the leaders in electronic business who already use the HP Praesidium family of Web Security solutions to protect their important assets in e-commerce, online banking and supply chain management?

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