



SC 10: Secure Application Access

Two Fundamental Challenges

1. Balancing Access With Security



2. Anytime/Anywhere → Unmanaged Device



Employee
Home PC

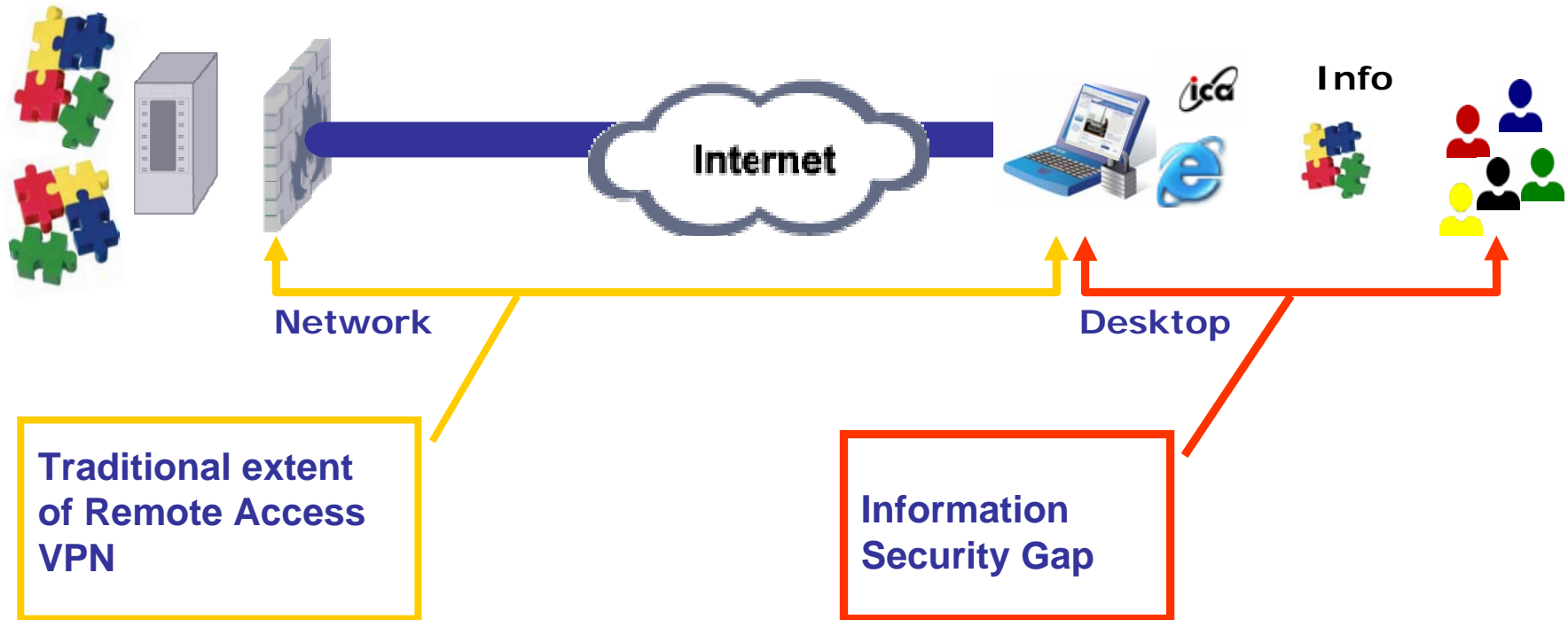


Partner



Kiosk

The Information Security Gap



2000: Connectivity Problem

Today: Security Problem

Closing the Gap

● Augment VPN with security tools

- ▶ Anti-malware: heuristics, signatures/blacklists
- ▶ Browser cache vaults and cleaners
- ▶ VPN Quarantines such as NAC, NAP, or similar
- ▶ Personal FWs

● Augmentation Options

- ▶ Install on client, gateway or behind gateway
- ▶ Utilize existing tools on the client
- ▶ Deliver the security tools on-the-fly
- ▶ Combination

Anytime, Anywhere Access

● Anywhere == Unmanaged devices

- ▶ Definition: not owned/managed by internal IT
- ▶ 30%-40% or more of installed base in some instances
- ▶ Driven by evolving business needs:
 - Outsourcing, teleworkers, supply chain integration, etc

● Unmanaged Devices == Challenge

- ▶ Outside of “trusted” computing base
- ▶ Ability to control is typically minimal/nil
 - Admin Privilege?
 - Permanent System Mods?
- ▶ Reduces/eliminates “Install On Client” Option

“Zero-touch” deployment

● Goal

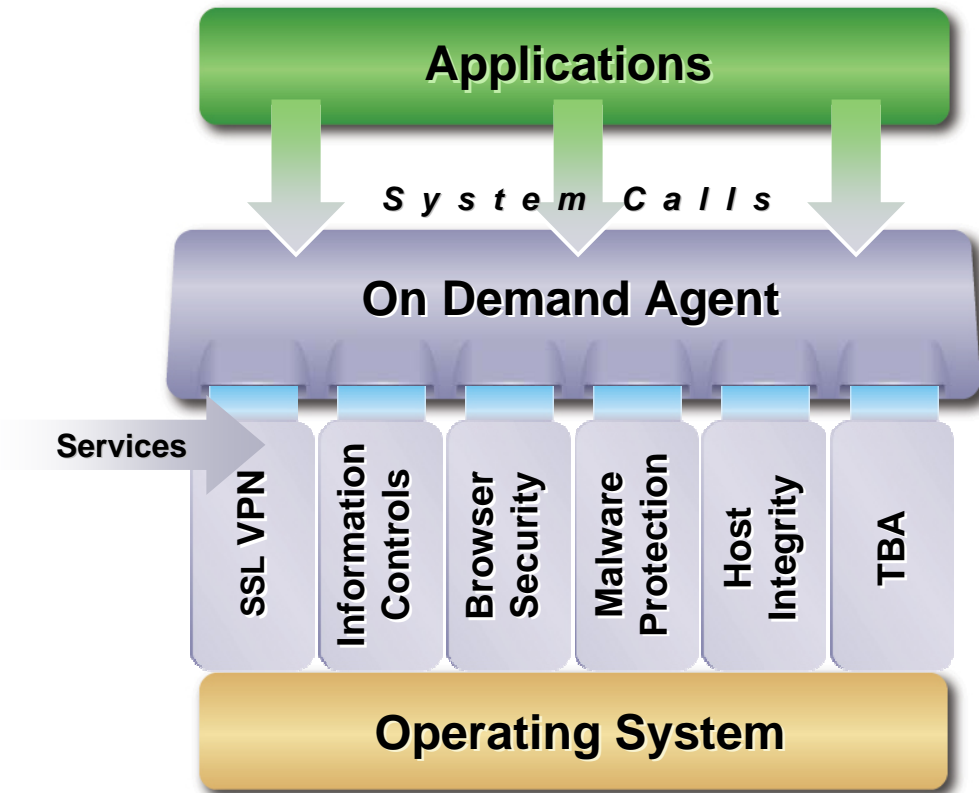
- ▶ Deliver features on the fly to unmanaged devices
- ▶ Increase services delivery while minimizing control assumptions

● How?

- ▶ Transient operational model
 - Deliver services (software) on demand
 - “Clean up” software when done
 - No remnants
- ▶ Minimize client requirements
 - Administration privilege level
 - Platform coverage
 - Pre-installed or pre-enabled software or services

An Example of Zero Touch

Session Layer SSL VPN and Endpoint Security



Fundamentals

- Simple zero touch delivery
- No OS modifications, remnants, admin privileges
- Integrated VPN and endpoint security
- Extensible to other services
- Single policy manager

Result: A zero-touch deployment model

Benefits Of A Zero-touch Deployment

● Address secure access challenges

1. Balance between connectivity and security
2. Unmanaged device access
 - Delivery secure access features on demand
 - Delivery regardless of IT ownership

● Side benefits

- ▶ TCO
 - No client SW to manage
 - Single management console
- ▶ IT service responsiveness
 - Fast roll-outs



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