



The Challenges of Secure Knowledge Management

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Challenges

- Trust
- Mobility
- Privacy
- Governance



The Human Factor is Critical

Developing a Secure “Trust” Model

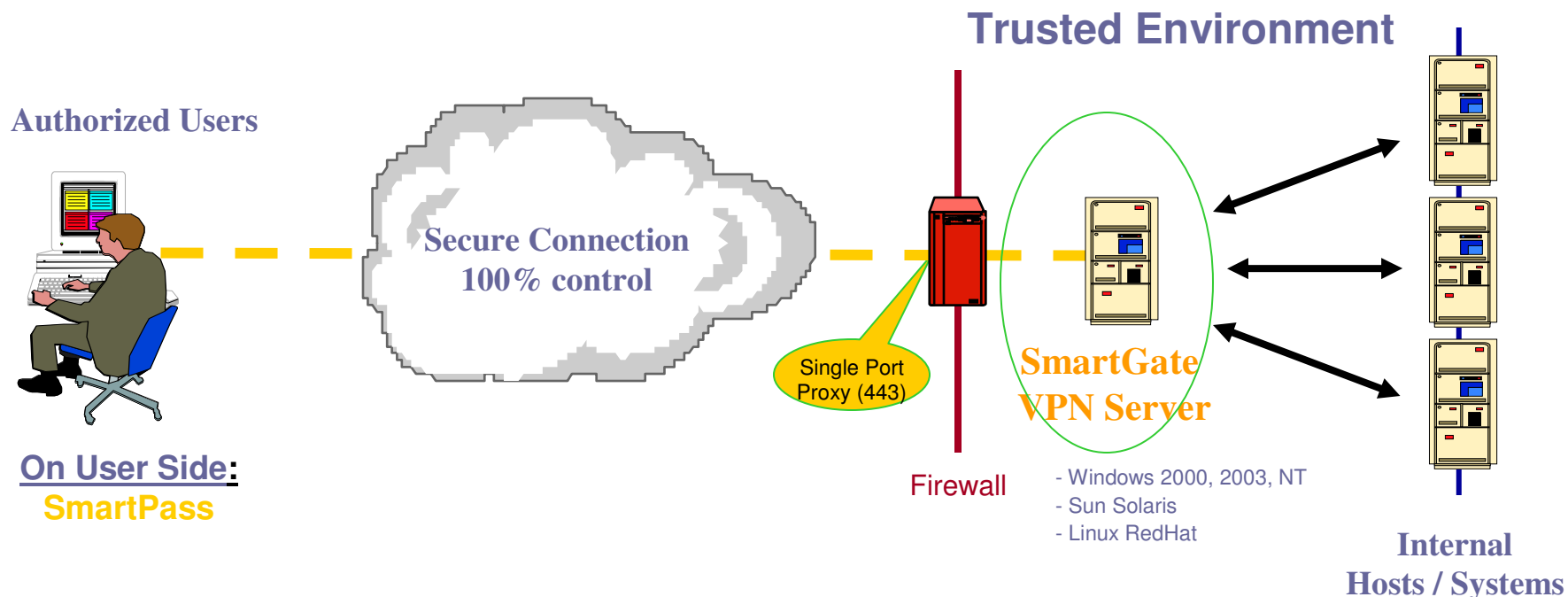


Basic Security Requirements

- Identity
- Access Control
- Mutual Authentication
- Data Encryption
- Non-repudiation



Establishing Cyber-Trust



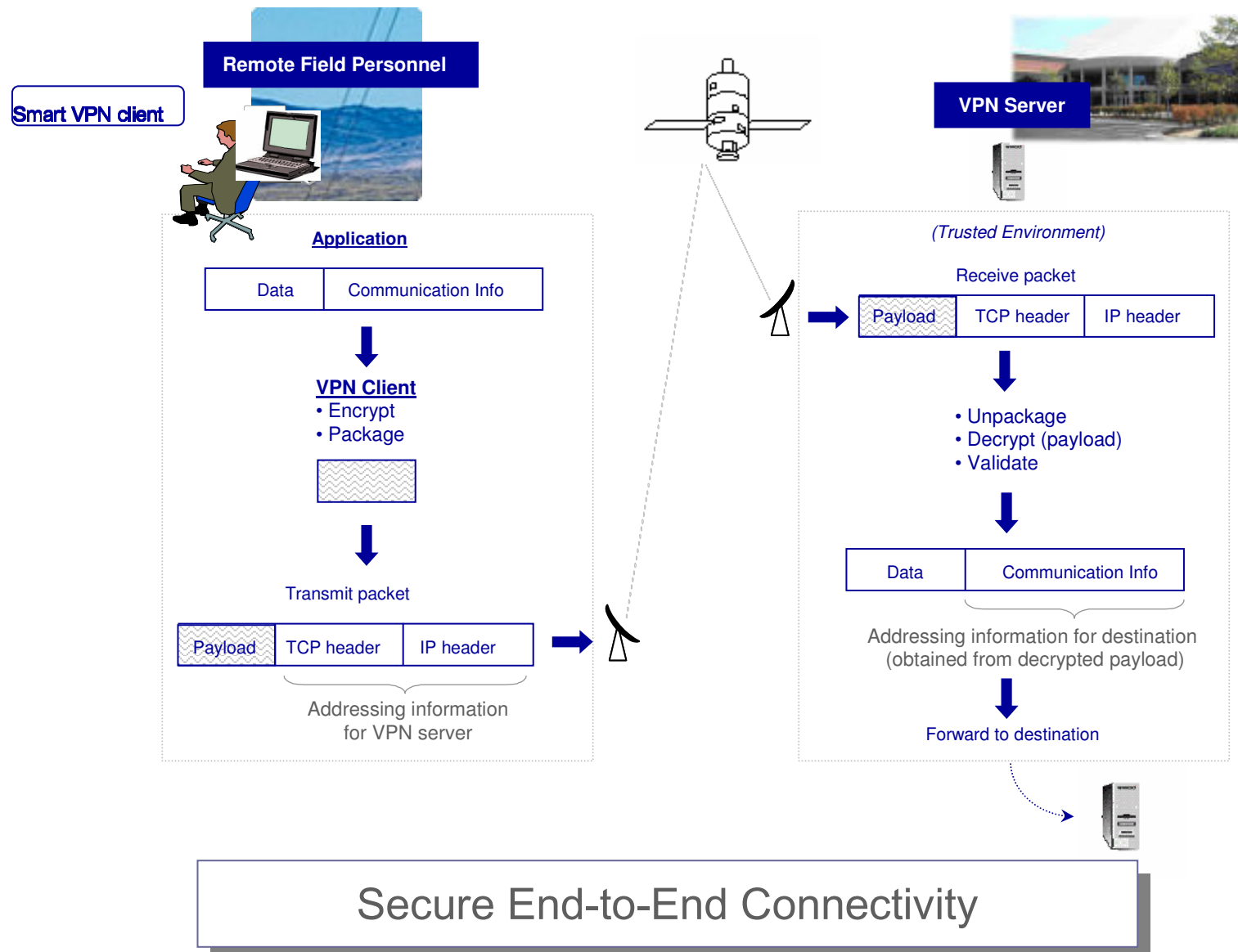
End-to-End Security:

- **Encryption** - AES or Triple DES, NIST FIPS Certified
- **Strong Authentication** - Two Factor, Mutual, NIST FIPS Certified
- **Access Control** - Fully Integrated, Central or Distributed Management
- **Audit Logging** - Logs all user activity

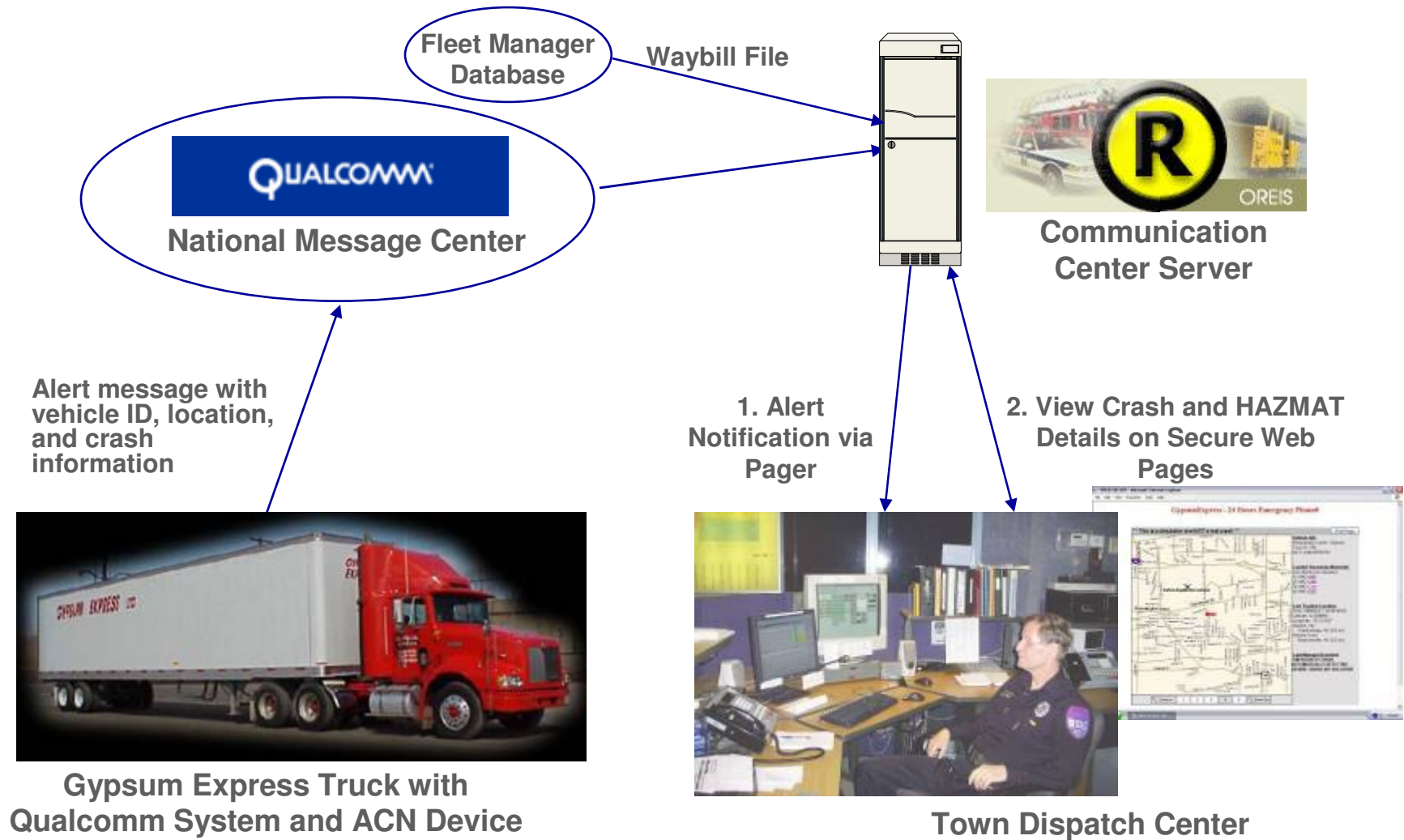
Knowledge Management for a Mobile Workforce



Scientific Data Collection For Tom Brown Inc.



ORI's Motor Carrier HAZMAT System



So that first responders are NOT the “first victims”

Real-Time Information Flow for Bomb Squads

Accredited Bomb Squad Personnel



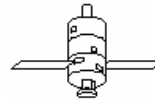
Wireless LAN

Smart VPN client



CoBRA

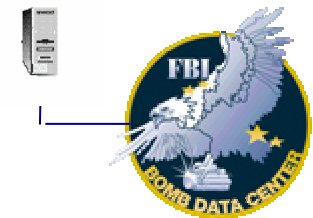
(Chemical Biological
Response Aid)



FBI LEO
(Law Enforcement Online)

Public or
Private,
IP Networks
(LANs, WANs,
Internet, etc.)

VPN Server



Access to Critical Information:

- Effects
- Protective Gear
- Response Measures
- Defusing an Explosive
- Closest Safe Detonation Site
- Decontamination Procedures

Privacy Challenges

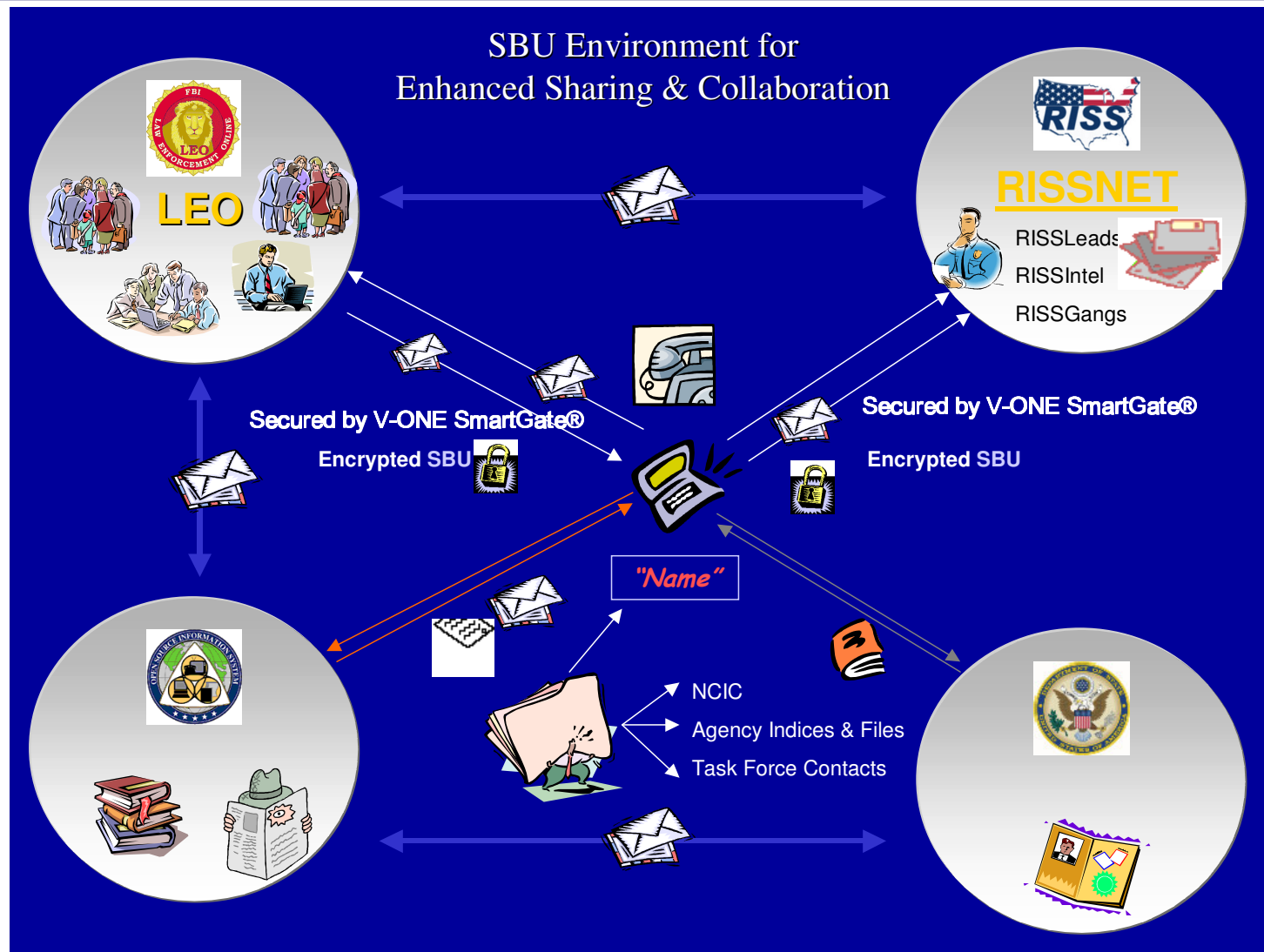


Protecting Privacy is Fundamental

- Information privacy is a basic right
- Government privacy regulations must be observed
- Security technology can help to enable privacy protections that allow only authorized users to access specific data
 - Extend protected information access
 - Maintain system control by unique data owners
 - Provide ability to securely add new users on demand
 - Control risk of inappropriate access

Security technology is necessary to
maximize information value

Law Enforcement... Secure Information Sharing



Source: Derived from SBU Briefing File, Department of Justice, M. Miles Matthews

HIPAA... Information Access Control

Group A -
Healthcare Provider(s)



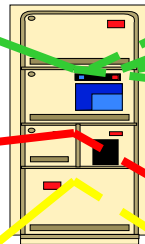
Group B -
Physicians/Portals



Group C -
Outsourced
Service Provider(s)

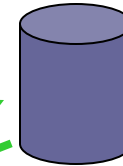


SmartGate
Encryption Server



Centralized
Authentication

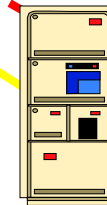
Database



Email

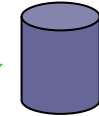


Extranet Web



Corporate

Pharmacy



Patient Records



Billing



Mcp.hospital.com

Agencies.mtf.hospital.com

Ensure data is put in the hands of those who
should appropriately act on the information

Governance Issues



Governance Responsibilities

- Security *policy* for knowledge management
 - Focus on process
 - Serve the business goals
- Security “ROI” metrics
 - FUD (Fear, Uncertainty, Doubt)
 - Risk management and business continuity
 - Productivity - supply chain, mobility, cost savings
- Oversight responsibilities elevated to the boardroom
 - Sarbanes-Oxley
 - Cyberspace citizens



Your policy and technology choices must work together *in practice*!

Secure Knowledge Management Best Practices



Best Practices

Four important questions to ask when implementing secure knowledge management...

1. How secure is secure enough?

Establishing cyber-trust is critical

Sensitive information requires strong security

2. Is security available “on-demand”?

Choose self-provisioning solutions that support wide variety of user and operational environments, including mobile ones

3. Will the security features be used?

End-user transparency

Centralized policy management

4. Can I leverage my IT investment?

Gain advantages from agnostic solutions

Implement technology to support your business objectives



Thank You

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