



**DoD RFID
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APRIL 3RD - 4TH 2007

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RFID Initiatives – Property Branch, Office of Asset Management, Office of Chief Financial Officer



U.S. Immigration and Customs Enforcement

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ICE Mission, Organization and Operations

- The mission of ICE is to protect America and uphold public safety by targeting the people, money and materials that support terrorist and criminal activities.
- ICE is composed of the following enforcement functions:
 - Investigations
 - Detention and Removal Operations
 - Federal Protective Service
 - Intelligence
 - International Affairs
- ICE Demographics
 - Annual Budget of \$4.2 Billion (FY2006)
 - 15,000 employees worldwide
 - 400 offices worldwide
 - >67,000 Items in Asset Management System



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Property Branch/Office of Asset Management/Office of the Chief Financial Officer

- Mission
 - Provide property management “First Contact Customer Service” in a clear, customer-centric, results-driven, cost-effective, and timely manner. Our goal is to consistently provide expert, responsive, professional service to our client.
- Vision
 - Greater collaboration and an integrated approach that will eliminate redundancies and create more efficient property management



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Background of Property Management

- Financial Reporting Requirements
 - Federal Financial Reporting Standards
 - Maintain a “Clean” Audit Opinion in Property, Plant, & Equipment
- Federal Laws and Regulations
 - Federal Management Regulations
 - OMB Circular A-123 Management’s Responsibility for Internal Control
 - Joint Financial Management Improvement Program (JFMIP), “Property Management Systems Requirements”
- Department of Homeland Security Policy
 - DHS Management Directive 565 “Personal Property Management Directive”



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Current Challenges

- Capture 100% of Inventoriable Assets
 - Sensitive Property/Software
- Increase efficiency of annual inventory process by leveraging technology to reduce time to complete and reduce manual errors
 - Reduce reconciliation time
- Increase management's ability to monitor the organization's control of property according to established guidelines and industry benchmarks



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Why RFID?

RFID Benefits = Actionable Information

- Comprehensive, timely data about each unique item throughout the asset portfolio
 - Generation, collection and analysis of data
 - End-to-end tracking and traceability of unique items
 - Reliability and maintainability information on each item throughout its life cycle
 - Security
- Improved asset management efficiency
 - Administrative cost reduction = less paper & fewer audits
 - Reduced stock levels
 - Simplicity, standardization, speed and certainty in electronic information exchange



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Short Term Goals

- Establish RFID multifunctional work group and develop RFID Business Case
- Increase the overall efficiency of annual inventory
 - Improve accuracy and data quality while reducing workload
- Continue and improve established management controls
 - Establish performance measures/scorecard for each program
- Improve financial reporting and reconciliation process
- Limited Phase In of RFID Scanners and Tags on assets and laptops at selected sites



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Long Range Goals

- Explore Multifunctional Integration Opportunities for RFID beyond Asset Management
 - Security Applications
 - Integrate Property Passes with Active Tags for all Laptops
 - Safety Applications
 - OSHA Reporting
 - COOP / Emergency Evacuation



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RFID Planning

- Established Scanner/RFID Working Group
- Identified and Prioritized RFID Opportunities
- Captured Resource Requirements
 - Engaged RFID SME
- Identified Hardware and Software Requirements
- Identified Risks or Barriers to Success
- Developed High Level Project Plan



Section 4: RFID Solution Overview
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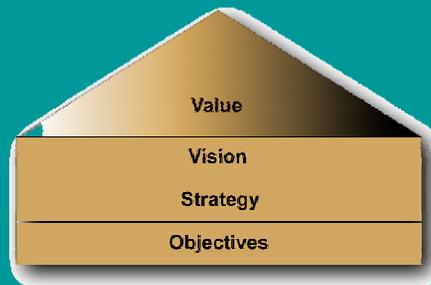
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RFID Strategy & Blueprinting

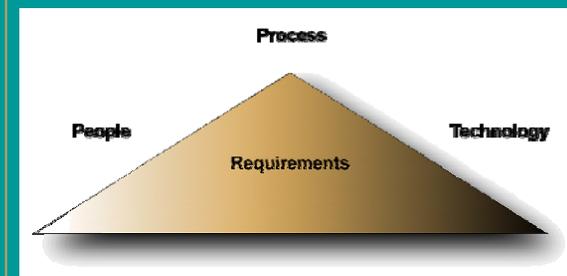
1. Educate the Team



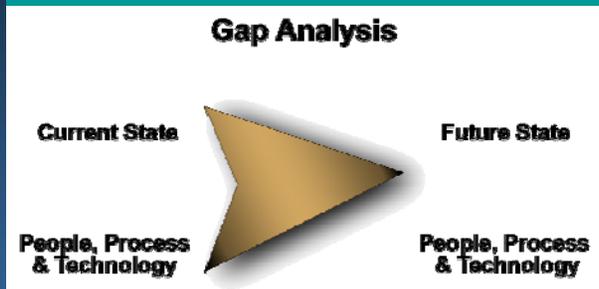
2. Outline the RFID Vision



3. Identify the RFID Opportunities



4. Determine the Gaps



5. Prove the Financial Impact

Item	Quantity	Unit Price	Total Price
RFID Tag	1000	\$0.10	\$100.00
RFID Reader	1	\$500.00	\$500.00
RFID Antenna	1	\$200.00	\$200.00
RFID Software	1	\$1000.00	\$1000.00
RFID Hardware	1	\$500.00	\$500.00
RFID Services	1	\$1000.00	\$1000.00
RFID Training	1	\$500.00	\$500.00
RFID Support	1	\$500.00	\$500.00
RFID Integration	1	\$1000.00	\$1000.00
RFID Testing	1	\$500.00	\$500.00
RFID Deployment	1	\$1000.00	\$1000.00
RFID Maintenance	1	\$500.00	\$500.00
RFID Upgrades	1	\$1000.00	\$1000.00
RFID Replacement	1	\$500.00	\$500.00
RFID Disposal	1	\$500.00	\$500.00
RFID Recycling	1	\$500.00	\$500.00
RFID Security	1	\$500.00	\$500.00
RFID Compliance	1	\$500.00	\$500.00
RFID Audit	1	\$500.00	\$500.00
RFID Reporting	1	\$500.00	\$500.00
RFID Documentation	1	\$500.00	\$500.00
RFID Archiving	1	\$500.00	\$500.00
RFID Backup	1	\$500.00	\$500.00
RFID Recovery	1	\$500.00	\$500.00
RFID Restoration	1	\$500.00	\$500.00
RFID Migration	1	\$500.00	\$500.00
RFID Integration	1	\$500.00	\$500.00
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RFID Audit	1	\$500.00	\$500.00
RFID Reporting	1	\$500.00	\$500.00
RFID Documentation	1	\$500.00	\$500.00
RFID Archiving	1	\$500.00	\$500.00
RFID Backup	1	\$500.00	\$500.00
RFID Recovery	1	\$500.00	\$500.00
RFID Restoration	1	\$500.00	\$500.00
RFID Migration	1	\$500.00	\$500.00

	PRIORITIZATION MATRIX		
	Benefits	Costs	Risk
A			
B			
C			

6. Prepare the Blueprint





Section 6 Sales Process & Assess
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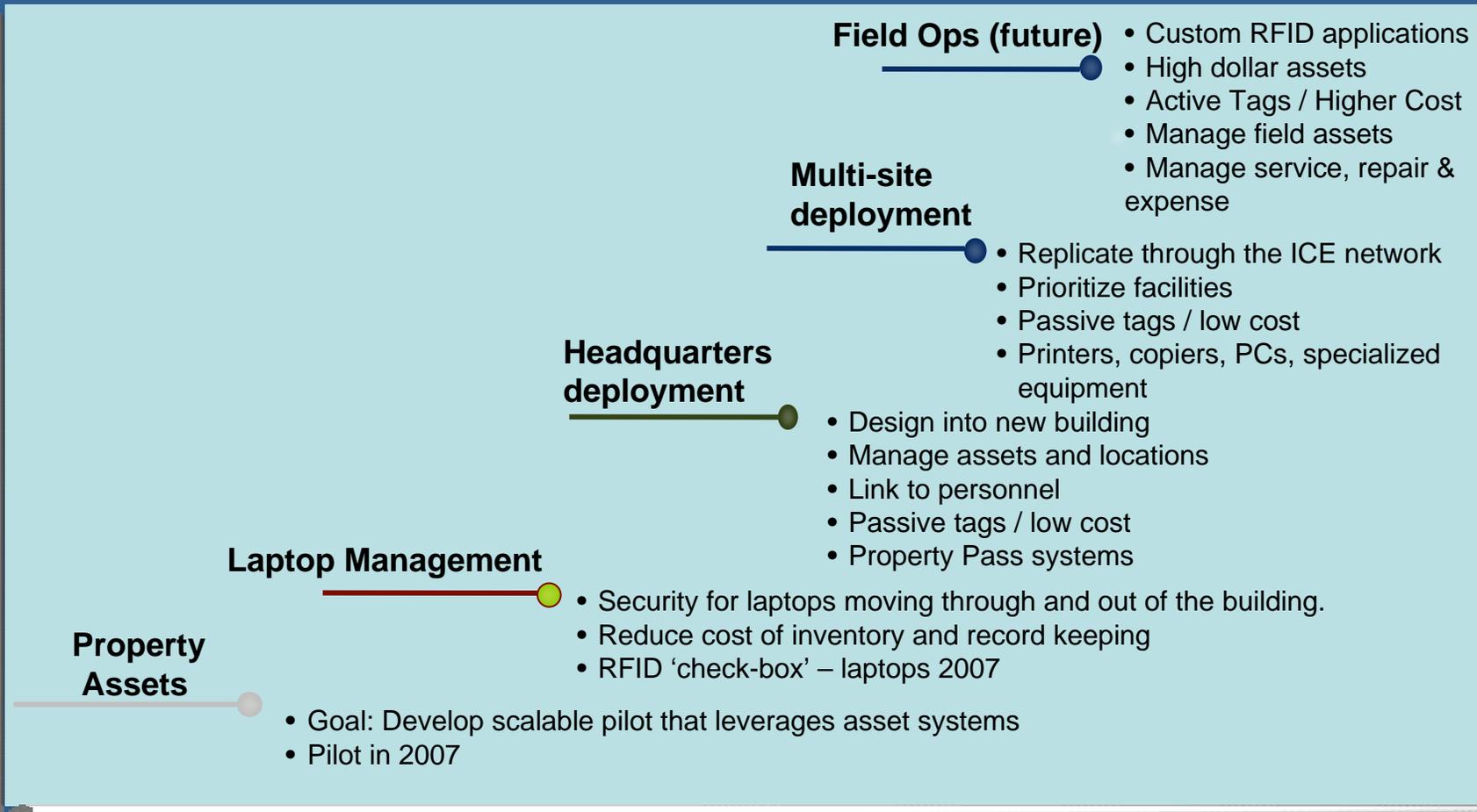
Program Profile

- **Strategy & Blueprinting**
 - Develop the business case for RFID and unlock areas of opportunity:
 - RFID Education and Training (hands on technology evaluation)
 - RFID Readiness Assessment
 - RFID Technology Review and Gap Analysis
 - RFID Business Case Development and Scenario Analysis
 - RFID Integration Plan
- **Get Agency and Departmental Investment Review Board Approval/Buy-in**
- **RFID Pilot**
 - Implement a specific RFID pilot:
 - The Strategy & Blueprint phase provides scope, value and direction for the pilot.
 - Leveraging our partners from hardware to integration and data management
- **RFID Full Deployment**
 - Execute full RFID deployment capabilities:
 - RFID Hardware & Infrastructure
 - Systems Integration & Data Management
 - Enterprise Application Integration



RFID Priorities

Adoption Sequence



Maturity / Value



RFID Risk Factors

Business Risk

Establish case for the business benefits or ROI

Establish internal resources to investigate/apply the technology

New technology considered risk

Vendor viability of RFID suppliers

Risk-averse nature of the business

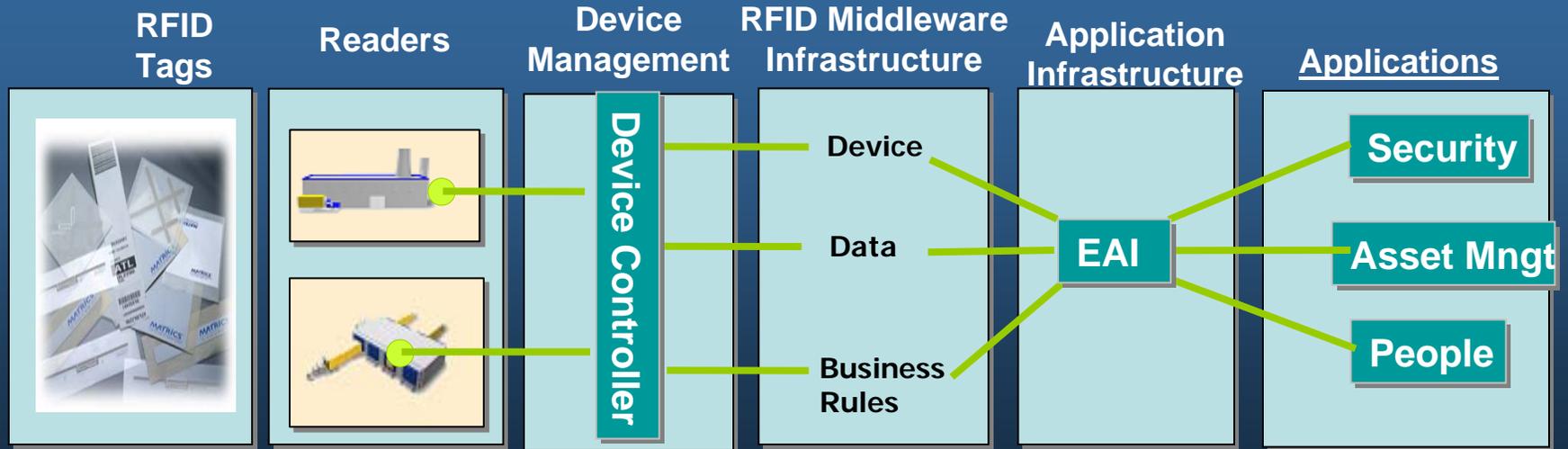


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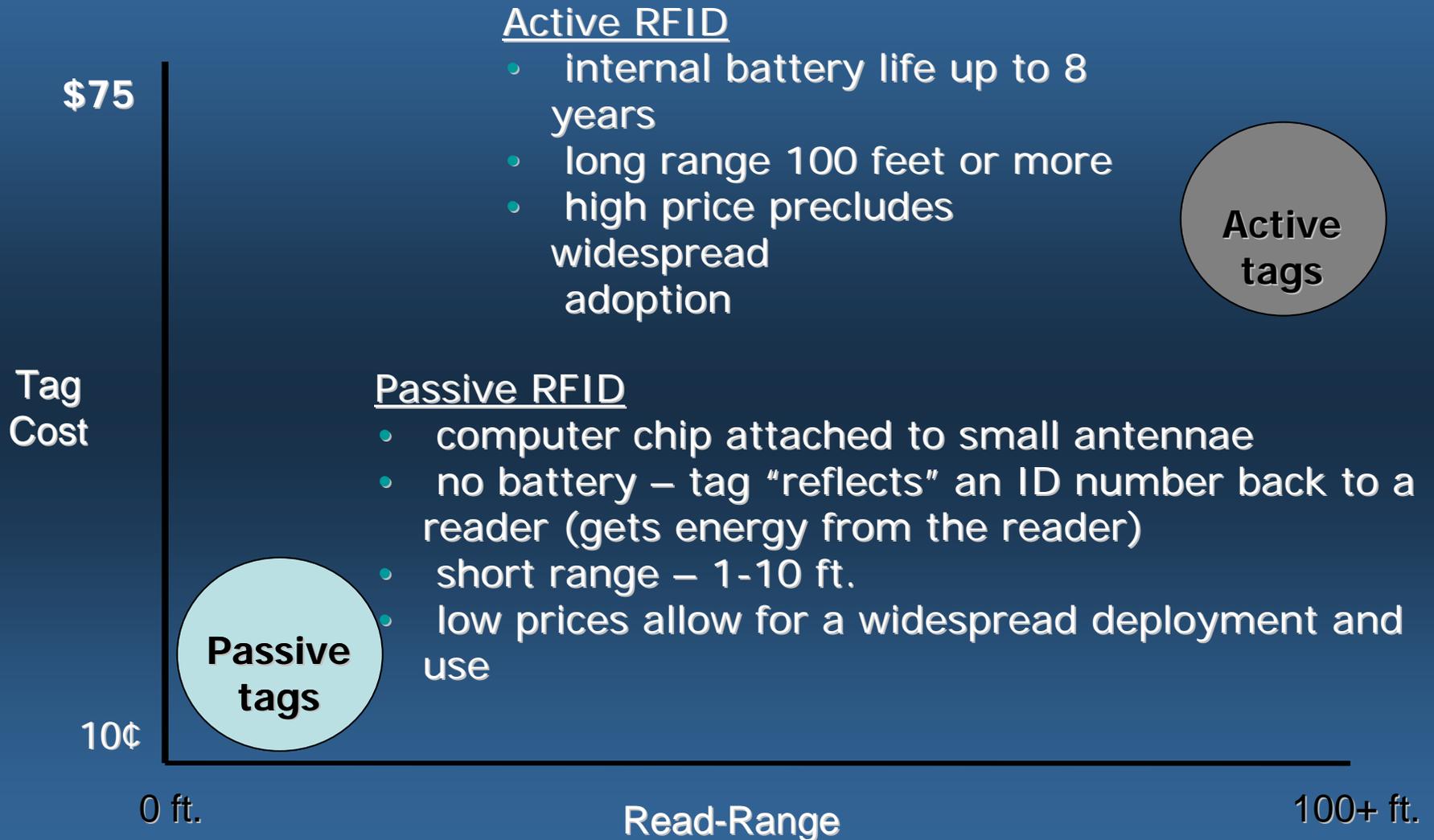
Robust RFID Solution Structure - Active or Passive



Function					
<ul style="list-style-type: none"> • Hold Data • Transmit data 	<ul style="list-style-type: none"> • Read / write / Transmit data to 	<ul style="list-style-type: none"> • Manage Devices • Translate data 	<ul style="list-style-type: none"> • Store and translate raw EPC data and 	<ul style="list-style-type: none"> • Route business data and events to 	<ul style="list-style-type: none"> • Provide Decision Support and execute
Delivery					
Tag, Hardware & Installation Expertise			Systems Integration Services: Value generation with RFID		
Tag Vendor	HW Partner	Partner	Contractor Partnership	Contractor Partnership	Contractor Partnership



Active RFID vs. Passive RFID





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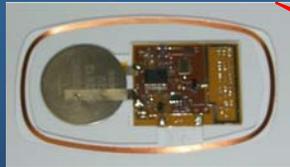
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Multifunctional Integration Opportunities for RFID beyond Asset Management

Methods under evaluation

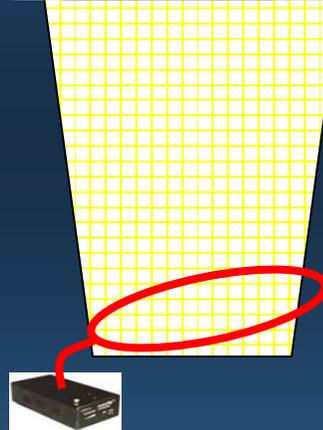


Asset and Enterprise Personnel Identity Management



Personnel/Asset Tag

- Report entry/exit at each control point
- Personnel tags can be set to "beacon" to automatically report location.



Control Point Activation

- All entries/exits, internal control points
- Dual antennas to establish directionality
- Each control point has unique ID
- 126KHz wake-up frequency

TCP/IP or WiFi Receiver



LAN/WAN/VPN

Tag Transmission

- 315/433.92 MHz
- 35' receive distance



Access Control Panel





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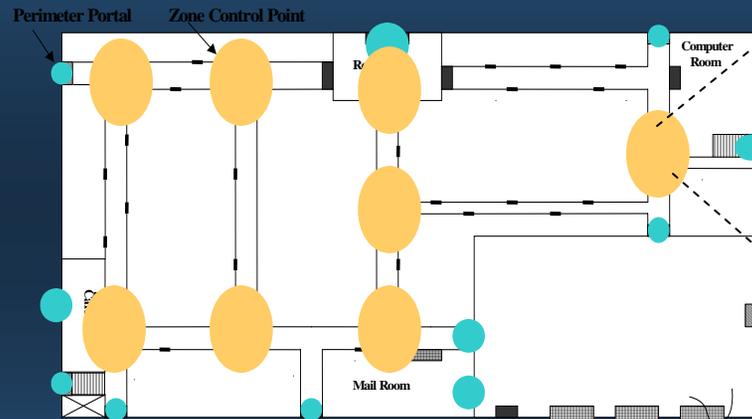


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Personnel/Asset Tracking

Active RFID Automatic Identification

- Long range tag reads = up to 35'
- Dynamic and static tracking
- Perimeter control
- Sensor data reporting
- Link assets, personnel, and video



Network Receiver

Active RFID Tag

Activator & Wake-up Antenna

Applications

- Hands-free access control
- Key personnel locator
- Asset tracking and management
- Emergency Evacuation
- Theft prevention with Funct. Linkage
- Real time visitor management



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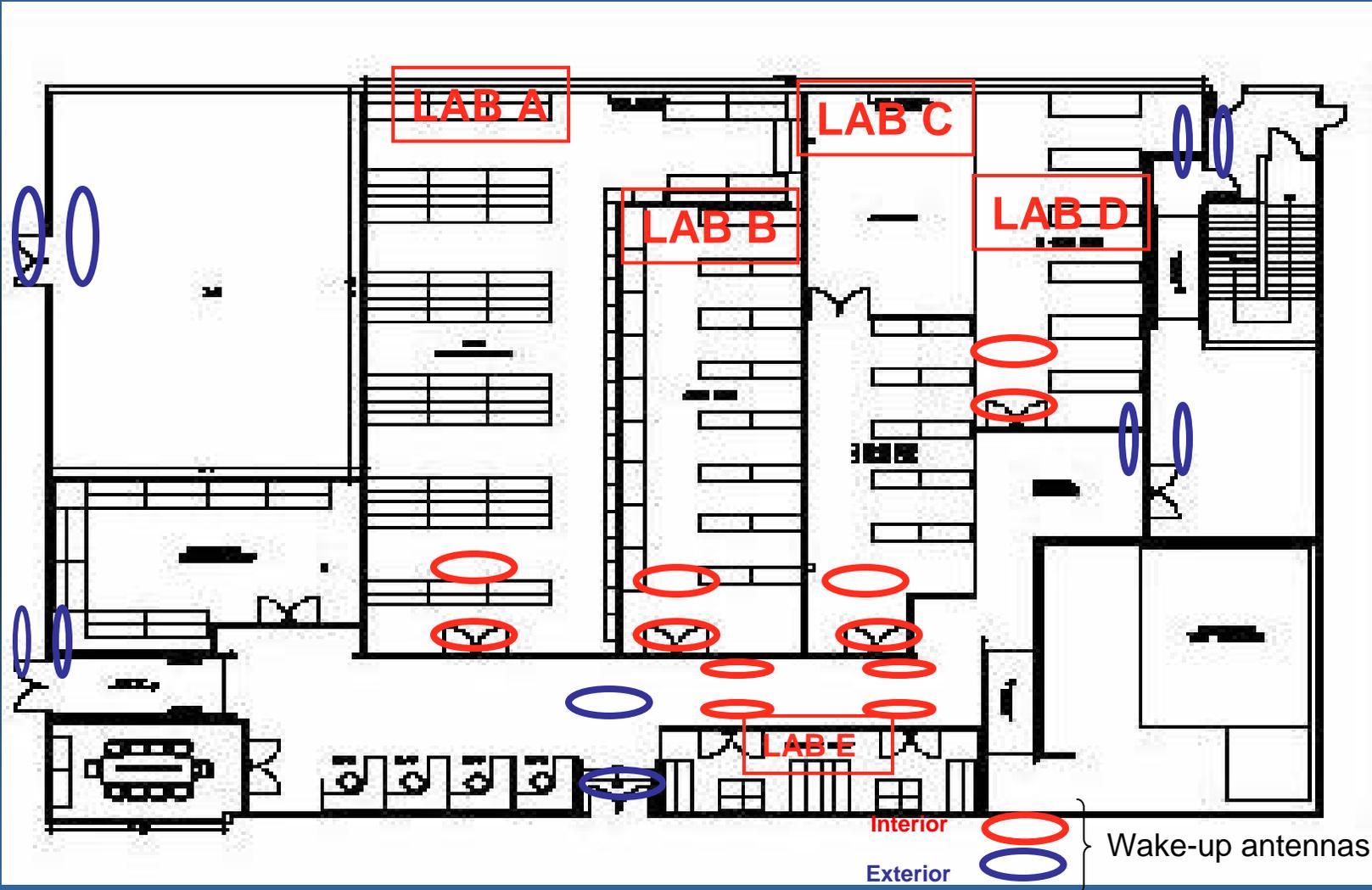
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Personnel & Asset Tracking Application

Multiple Zones - Laboratories





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ICE Asset Protection and Control



Reader



Reader

Local Network

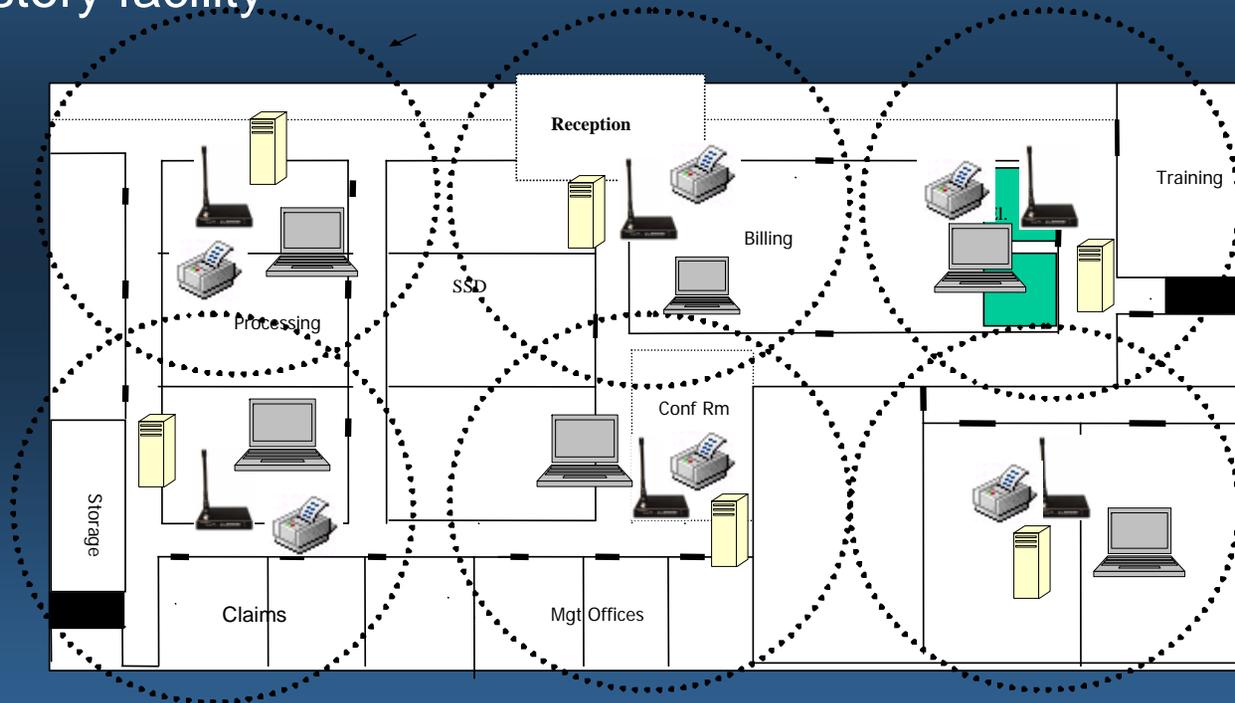
Wake-up
Activator/Antenna





ICE Asset Location & Inventory Mgt (Beacon + Portal)

- Tag beacons at set intervals and is located by receiver footprint
- 35' radius beacon range
- Multi story facility



Receiver zones



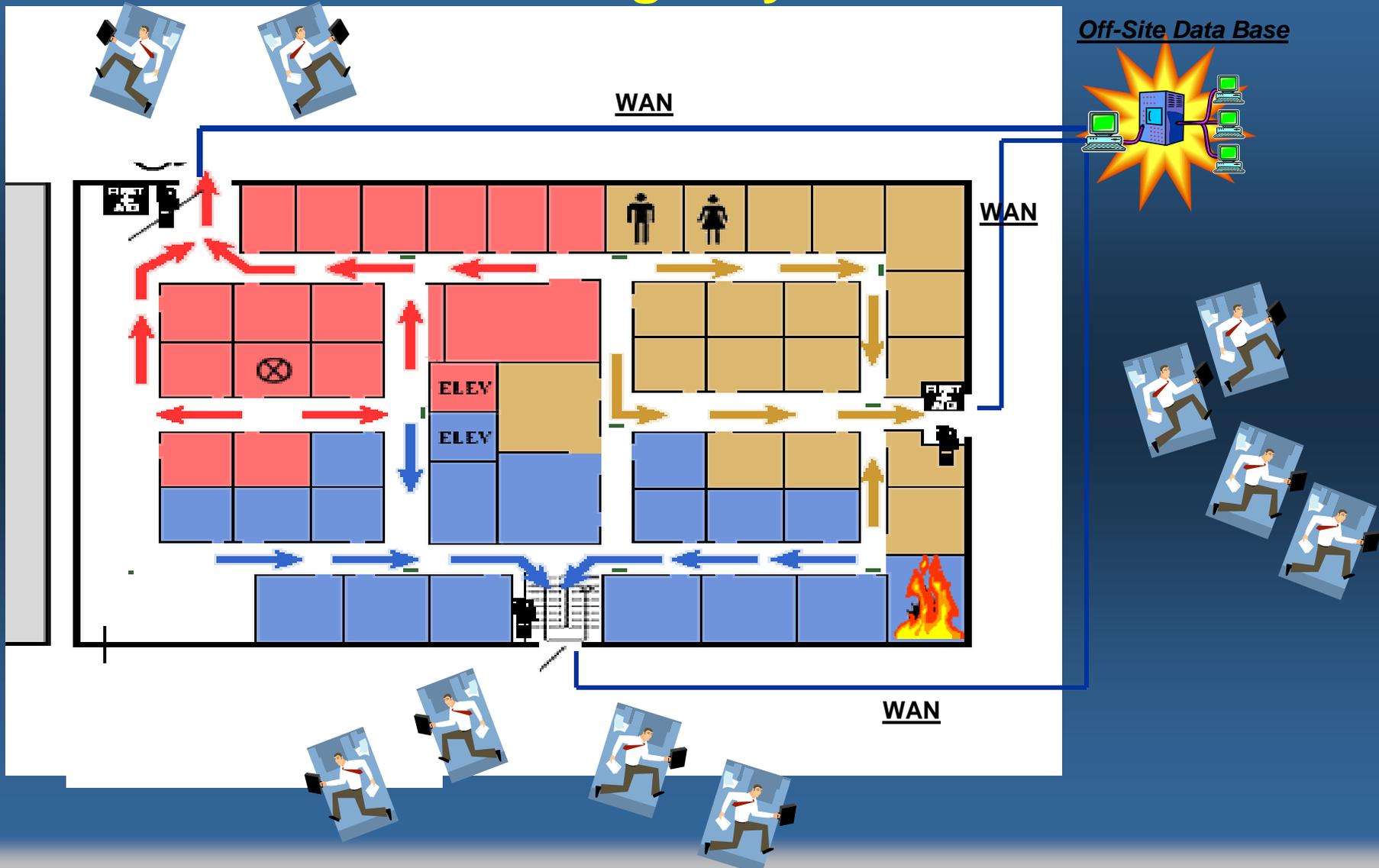
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RFID Enabled Emergency Evacuation Plan





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The Bottom Line for RFID Success

- RFID technology is real with dozens of applications and thousands of deployments
- How to build a successful deployment?
- Focus on the ROI based applications - Find an application where real time information delivers value
- Lead by following - Model from demonstrated successes
- Don't re-invent the wheel - Use proven RFID products
- Don't go it alone - Engage partners who can deliver