



SIAGOVSUMMIT

Connecting Government, Security and Technology

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Critical Planning for Return to Work: Safety, Security and Compliance



Jay Williams
Wesco

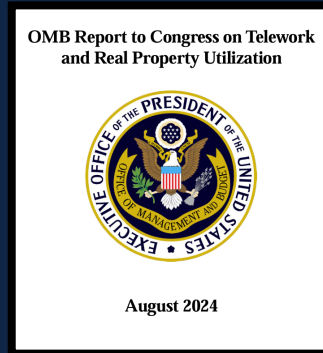
Critical Planning for Return to Work: Safety, Security, and Compliance with the Internet of Things (IoT)

Is your agency ready for “Back to Office”?

Jay S. Williams and Cody Remington

May 20, 2025

Federal Government – Largest U.S. Employer



- **2.28 million** Total Federal Civilian Employees
- **1.1 million** (46.4%) telework-eligible, 60% of time working in-person
- More than **80%** of federal workers reside outside the DC metro area



Federal Workplace Challenges – Workplaces Not Ready

- Too little space for too many people
 - Insufficient office space
 - Overcrowded conference rooms
 - Parking accommodations
- Security concerns
 - Trouble accessing facilities
 - Privacy concerns
 - Safeguarding sensitive information
- Building management problems
 - Inadequate network infrastructure
 - Health and safety compliance
 - Lack of office supplies



How will this affect your buildings Security Systems?

Rapid Evolution in Physical
Security Deployment...

6 Trends Transforming Security

- Physical Security as a Corporate Identity and Data Partner
- Elevation of Physical Security to Information Technology
- The rise of Mobile Access....Card Killer or Hype?
- AI and Edge Processing
- Education of Proprietary to Open to Natively Interoperable
- The Quantum Threat Horizon



The Quantum Threat Horizon

- Quantum Computers will break today's encryption.
- Prime Numbers methodology...
- Retrofitting later = Major Cost and Risk.
- Future proof systems by starting the transition.
- Credentials must be "Quantum Resistant":
 - NIST Post Quantum Crypto Era Begins
 - FIPS 202, 203, 204
 - TLS 1.3 using KYBER and DILYTHIUM
 - Recommend AES 256



Things to Consider

- Can your infrastructure keep up with the bandwidth demands that are coming?
- Encrypted Today vs. Encrypted in a Quantum World
- Integrated vs. Securely Integrated
- Cameras to Edge Sensing Devices
- Access Control Evolution
 - Wiegand vs OSDP (SIA Protocol)
 - Who can get in?
 - Where can they go while inside?
 - When did they leave?



What upgrades to systems are able to keep up?

The Landscape is Changing - Are you prepared?

IoT as a key enabler for efficiency and
automation

Return to Office and Workforce Reductions will Reshape the Technology Landscape

Return to Office
Jan 24, 2025



Space | Infrastructure | Quality | Privacy

Workforce Reductions :
Estimated 15% Reduction (Fed Atlanta)



Workplace Efficiencies | Quality | Safety

IoT Enables Insights and Efficiencies

✓ Hardware

- ✓ Smart security systems
- ✓ Smart energy systems
- ✓ Smart signage
- ✓ Occupancy sensors
- ✓ Environmental sensors
- ✓ Robotics

✓ Digital Infrastructure

- ✓ Dedicated building networks
- ✓ Digital twin

✓ Software Applications

- ✓ Smart building management
- ✓ Workplace health & experience
- ✓ Space & facility management



The Power of IoT: Improving Productivity



Improve building security and management



Enhance energy efficiency



Boost workplace health, safety, & productivity



Optimize space planning and utilization

Automation is Key to Increase Quality and Overcome Workforce Shortages

What to look for:

- ✓ **Manual**
- ✓ **Repetitive**
- ✓ **Knowledge-based**
- ✓ **Critical**

Enabling Tech

Video
Analytics

AI

Access
Control

IoT

Use Cases

Physical
security
automation

Infrastructure
monitoring
and
maintenance

Operational
efficiencies

Automated
alerts and
notifications

Building
management

Workflow
automation

Automated
access
control

Predictive
maintenance

Data
aggregation

Building Security and Management

Prevent incidents before they escalate and protect people and assets with real-time monitoring and alerts.

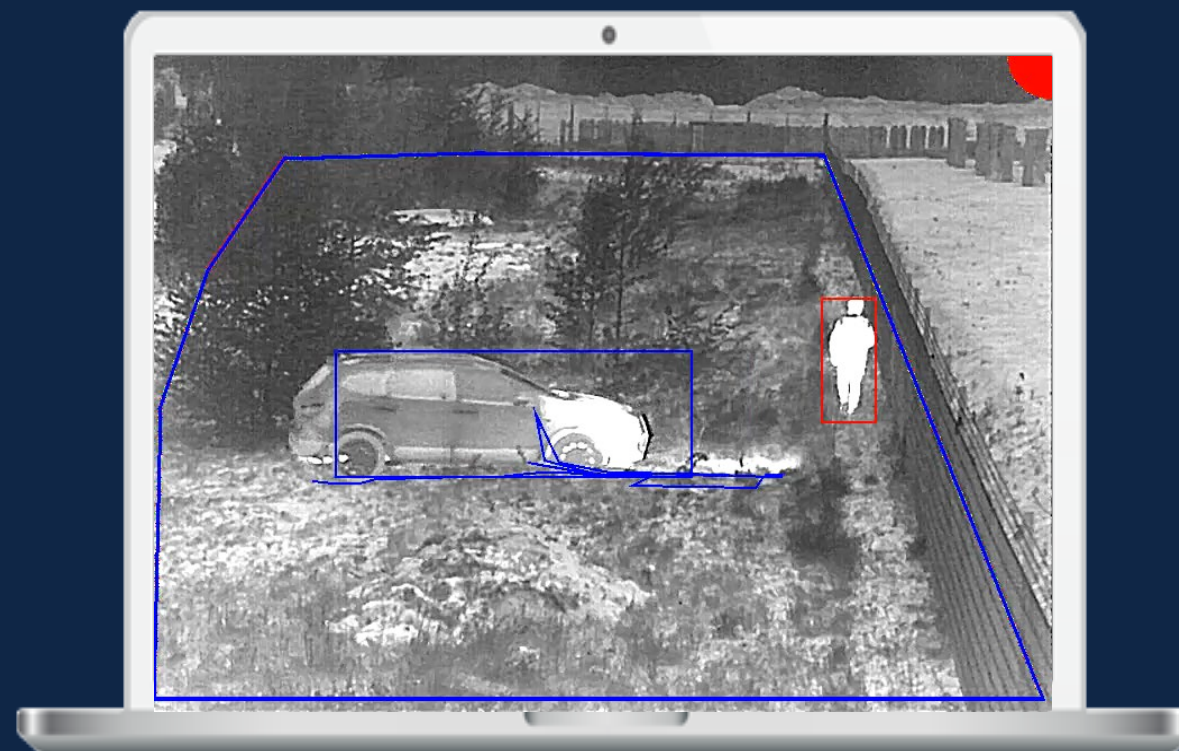
50%

Save up to 50%
on camera TCO¹

Smart Outcomes with Computer Vision:

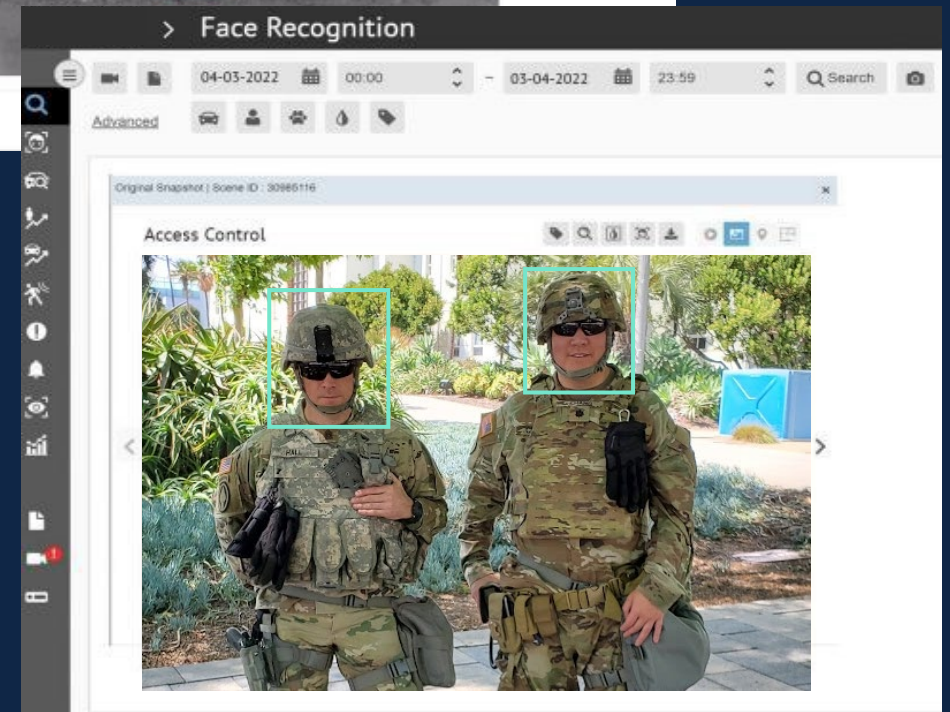
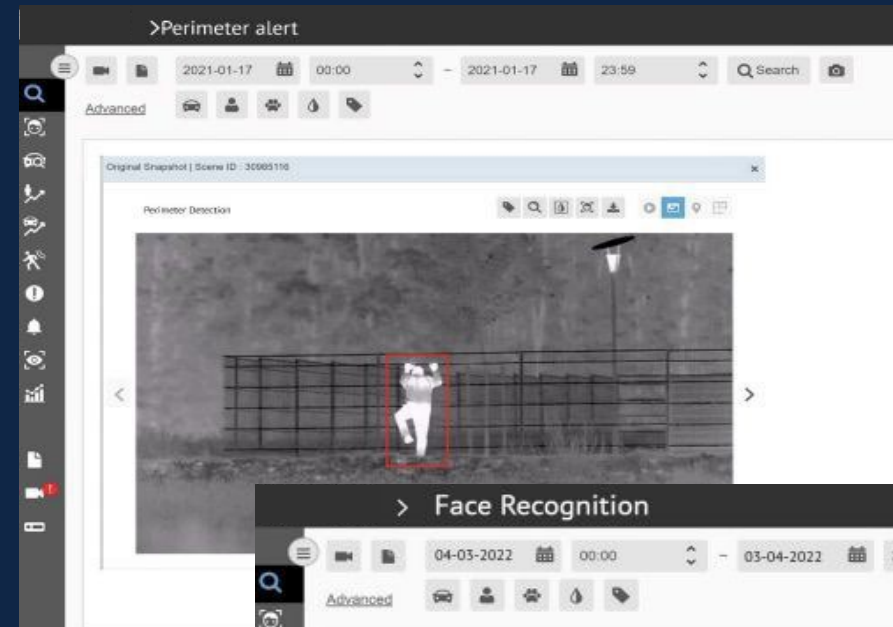
Track, people, vehicles, and suspicious objects in real-time to respond quickly

Real-time alerts and forensic capabilities to increase safety and security indoors and outdoors



Perimeter/Object Detection and Access Control

- Detect unauthorized objects, loitering, suspicious behavior, weapons, and active shooter detection warning, smoke, and fire, etc. in **real-time alerts**.
- Map-based **target tracking**, contact tracing for incidents, trigger actions to contact authorities
- **Access control** based on Real-time Face and License Plate Recognition, and gear (PPE) detection.
- **Integrate seamlessly** with third-party security and access control systems.



Smart Space Optimization

Draw deeper insights into employee occupancy and utilization of your facilities with office, conference room, parking, and other real estate analytics.

75%

of potential costs savings
from space optimization¹

Smart Outcomes with Space Optimization:

Data-driven insights and visualizations

Improve availability of shared spaces

Establish meaningful real estate and policy savings

Reduce maintenance costs and improve cleanliness



Smart Conference Room

Knowing how a space is being used, such as dwell time and utilization rates, can better influence future design choices, such as reducing the amount of large 10+ person meeting spaces and focusing on smaller 1- or 2-person huddle rooms.

Smart Outcomes with Conference Room Optimization

- Book conference rooms via the application
- Measuring occupancy and dwell time metrics to get multiple ROIs from conferencing infrastructure.
- Tablets at conference room entrance for scheduling and last-minute reservations
- Remove a hold on the room if no one has occupied the space within the first 10 minutes of a meeting.



Close the Gap:

Not Ready to Ready

We are Not Ready!

Challenge for the Federal
Agency who operates in
that facility



Opportunity for the
Federal Contractor
working with that Agency



Engagement Process: “Never Lose Touch”

Audit

Design

Deploy

Manage



Audit: Services

- People Management
 - Badging, Access Credentials, Network Access, Training and Certifications
- Facility Management
 - Access Control, Intrusion, Locking, Video Surveillance, Signage, Sensors (IoT)
- Process Management
 - Parking Management, Emergency Management Protocols, Connected Safety Solutions , Crowd flow Management.



Design: Services that convert Audit Results to Actionable Plans

Detect

Deter

Delay

Defend

Deny



Design for Current AND Future Needs

Deploy: Hardware, Software and Services for Project Execution

- Access Control
- Video Surveillance
- Perimeter Security
- Emergency Preparedness
- Asset Protection



Manage: Recurring Services and Renewals that establish constant client engagement.

License
Management
Tools

Asset
Lifecycle
Management
Tools

Facility Sub
Systems
Management
Tools

Connected Devices

IoT
Solutions

Physical Layer
Connectivity



Wins for Your Agency

- Improved employee experience
- Improved maintenance scheduling and reporting
- Improved budgeting and planning
- Improved technician productivity
- Improved leadership visibility into solution investments





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