



Keynote Presentation – Paul Sheeran, Johnson Controls



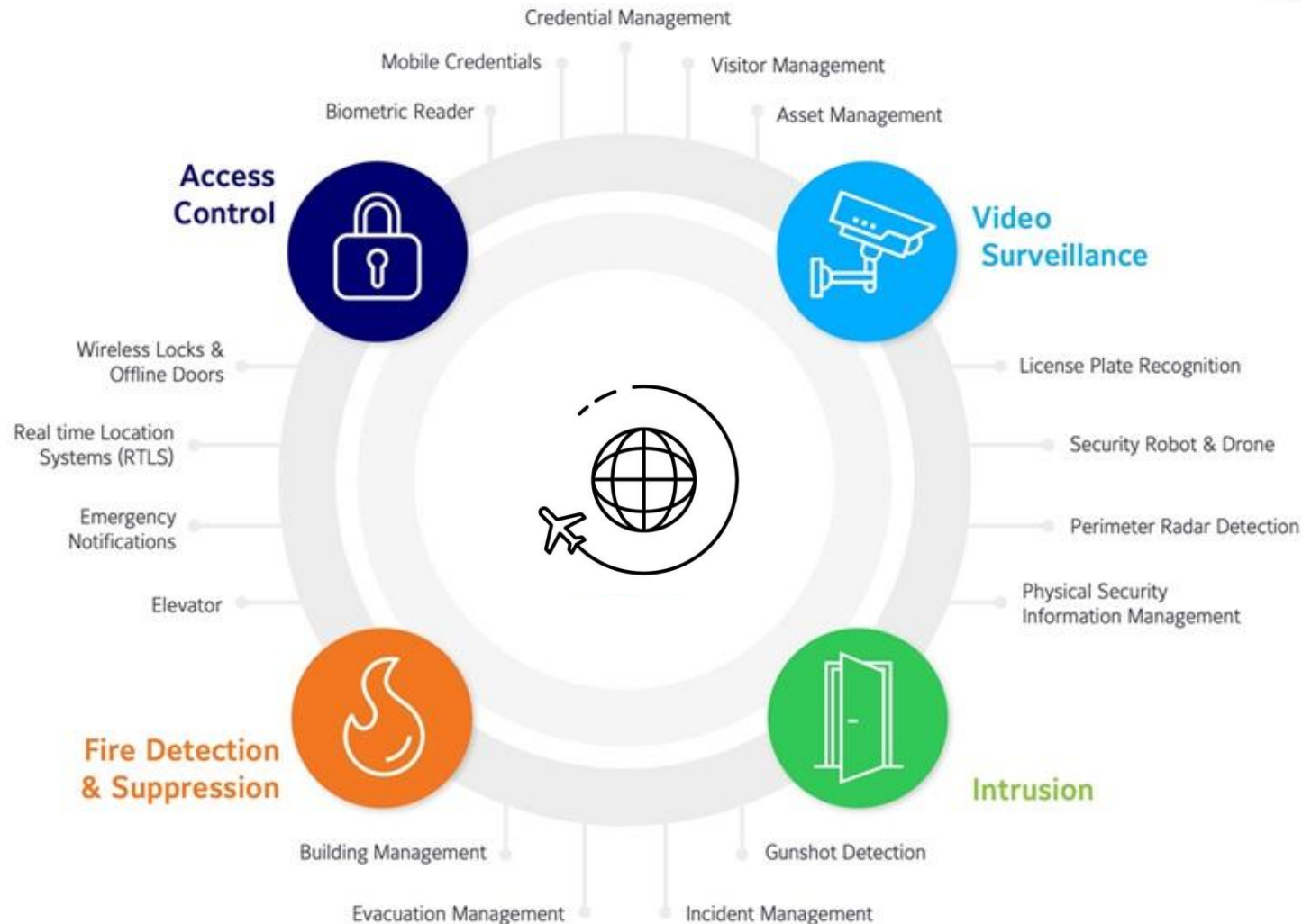
“Intelligent Security – A Catalyst for Event-Driven Autonomous Airport Operations”



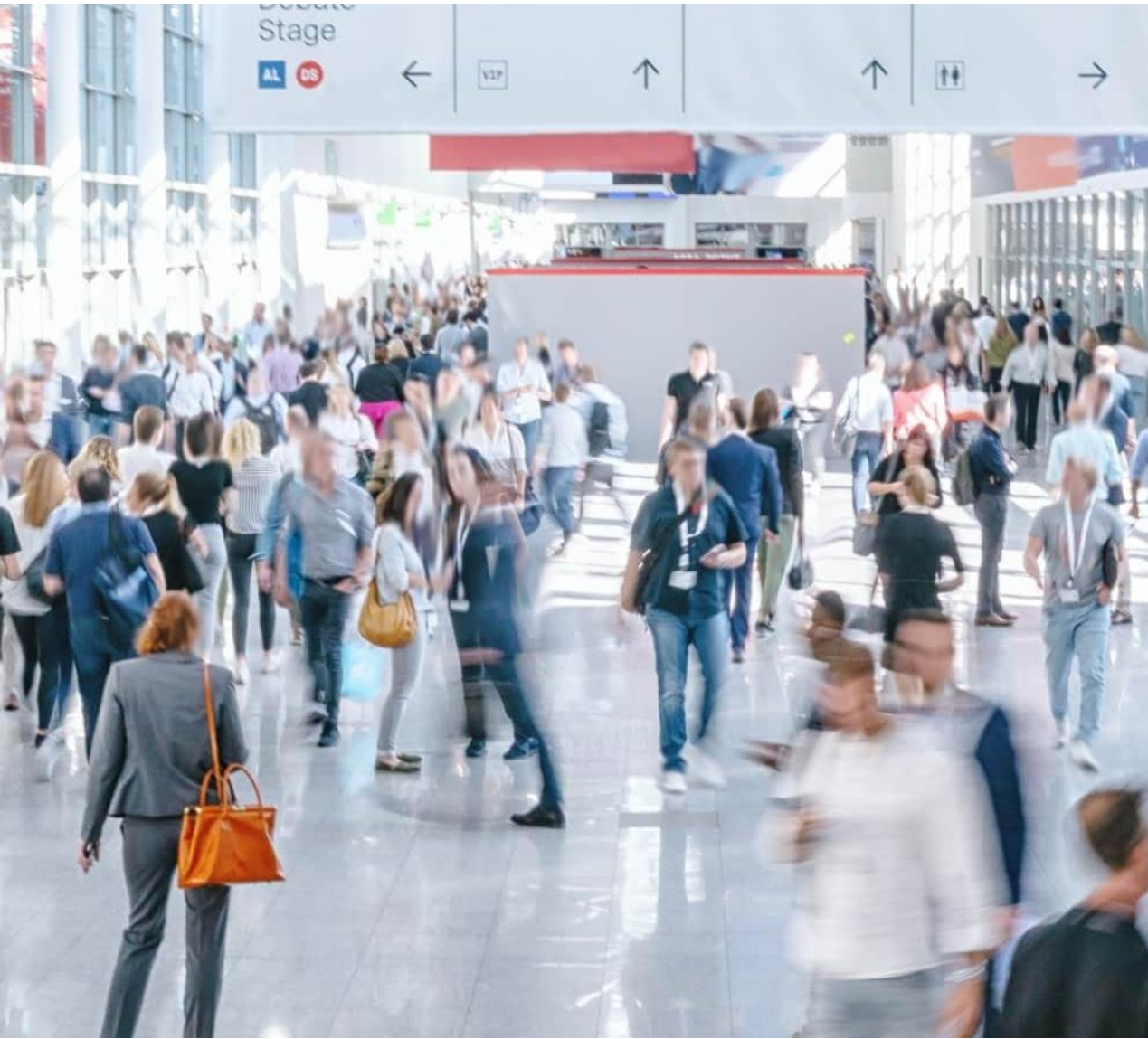
**“We secure
1 billion + global
passengers
each year”**



So what is Intelligent Security?



- “Security as part of an Intelligent Airport Operational Eco-System.”



- Airports face passenger growth, aging infrastructure, at times limited physical expansion. Traditionally security is siloed, reactive, operationally burdensome.

Solution

- Use Intelligent airport infrastructure beyond just Security and integrate with other airport systems to enhance operational areas of the airport. This will allow airports to scale capacity safely, efficiently & maximise ROI.

Build intelligence at key airport areas for: Passenger Flow Optimisation, Seamless Identity Management & Airside/Landside Integration.



Passenger Flow



Intelligent Arrivals



Secure card technology & Pass issue



Boarding & Deplaning



Biometrics



Fixed Ground Power & Radar

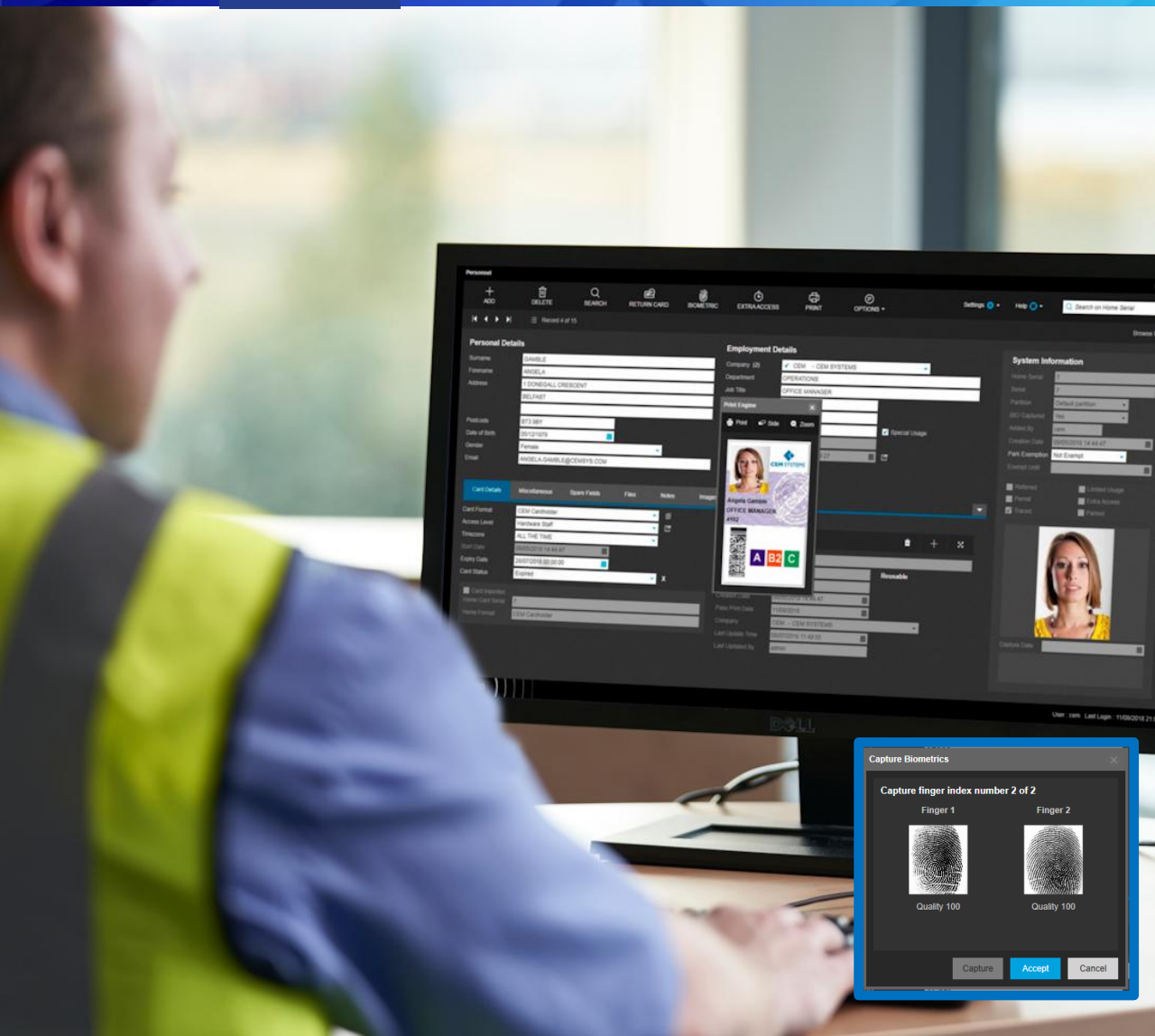




Pass Office

inter airport
FOCUS
CONFERENCE

inter
airport
europe  25TH
EDITION



“Seamless Identity Management & Staff Vetting Checks”

Use an Airport-specific User Interface - IATA code etc, Reduce administrative burden of Staff Pass Issue. Integrate with other airport vetting systems, biometrics and government background checks. Airport Systems Link – staff can travel between Co-owned airport sites with same ID card.

The power behind **your mission**



Pass Office

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airport
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EDITION



“Ensure latest secure smart card technology with advanced encryption”

- Latest DESFIRE EV3 standard.
 - End to end encryption from the ID card to the security server.
 - Use hardware & software encryption methods to secure comms & keys. Airports decide whether to own & control secure keys. For use by multiple system providers without compromise.

The power behind **your mission**

Biometrics

Intelligent touch screen
biometric access card
reader and door controller
in one:

- For added Fingerprint verification
- One enrolment process for ID card & biometric at pass issue office
- Ideal for High Security Staff Entry areas – Air Traffic Control, Security Cleared



Passenger Flow Optimisation

Use access control to manage passengers at gates & dual use corridors.

- To allow extended door opening for embarking and disembarking passengers

...legislative compliance & controls whilst avoiding bottlenecks or passenger delays.



Arrivals

Integrate access terminals with AOBD Integration

Link to live Airport Operational Database (AOBD) data for gate crosscheck and allocations:



- Terminals can check that the flight agent is selecting the correct flight information for the correct gate
- Fully automated process for Dynamic Gate allocations with error checking

...automatically prevent the mixing of international and domestic passengers





Arrivals

Wed 9 14:19:03 00010

BDRM Control



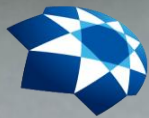
A380 Arrivals

29:55

Present card



bud Budapest
Airport



**Dubai
Airports**

Advanced Boarding & Deplaning Route Management (BDRM)

Intelligent solution for Interlocking of door sets to control and manage passenger flows

Segregation of Arrivals and Departures / Domestic and International passengers

Interactive Touchscreen GUI for airport staff to manage and view door status within airport areas

Fully customisable to individual airports requirements

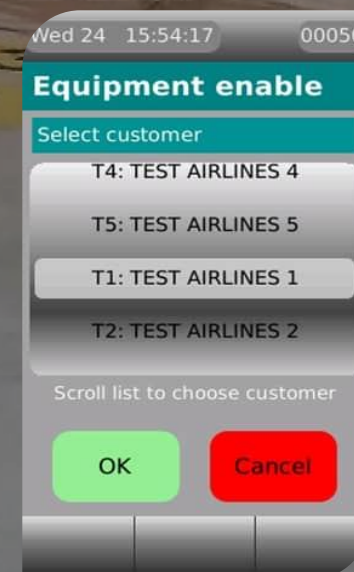
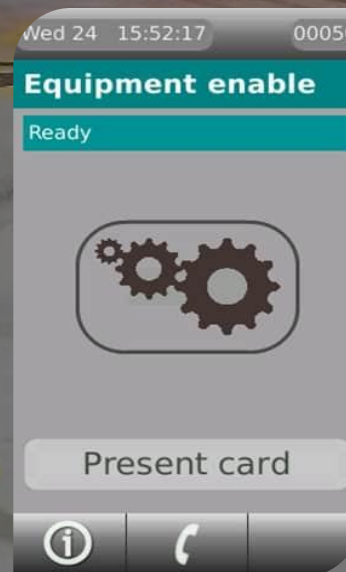




Airside

Fixed Ground Power

Airport Authority can use security to control access to ground power stations and run system usage reports to charge accordingly.



Video Solution Overview

End to End Solution

inter airport
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CONFERENCE

inter
airport
europe  25TH
EDITION



 **illustra**
From Tysa Security Products
Cameras



VIDEOEDGE
Recording Servers & Appliances



Unified Command, Control,
Management & Monitoring

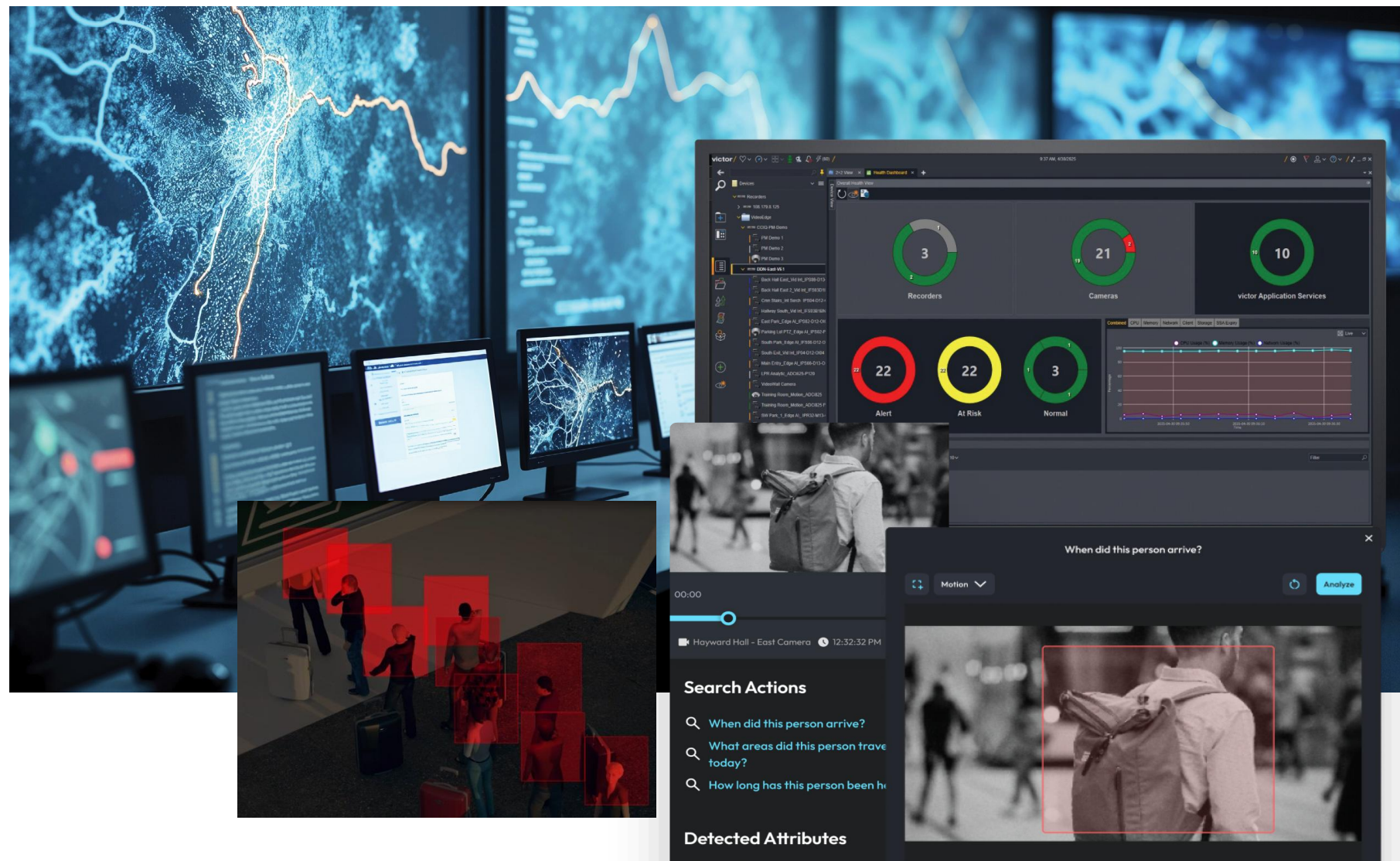
AI Analytics Use Cases – Central Command Central



inter airport
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inter
airport
europe **25TH**
EDITION

- Object classification
- Person loitering
- Abandoned objects
- Abandoned vehicle
- Perimeter breach
- Fall detection
- Person clothing searches
- AI based person search
- Person redaction
- Background redaction
- Occupancy count
- License plate recognition
- Crowd Formation





CONTEXTUAL SEARCH

Analytics Driven Actions

- ↑ Next actions presented in context of workflows
- ↑ Leveraging AI to ask questions of the system

00:00

Hayward Hall - East Camera 12:32:32 PM

Search Actions

- When did this person arrive?
- What areas did this person travel today?
- How long has this person been here?

Detected Attributes

- ☒ Person
- ☒ White Top
- ☒ Black Bottom

When did this person arrive?

Motion

Analyze

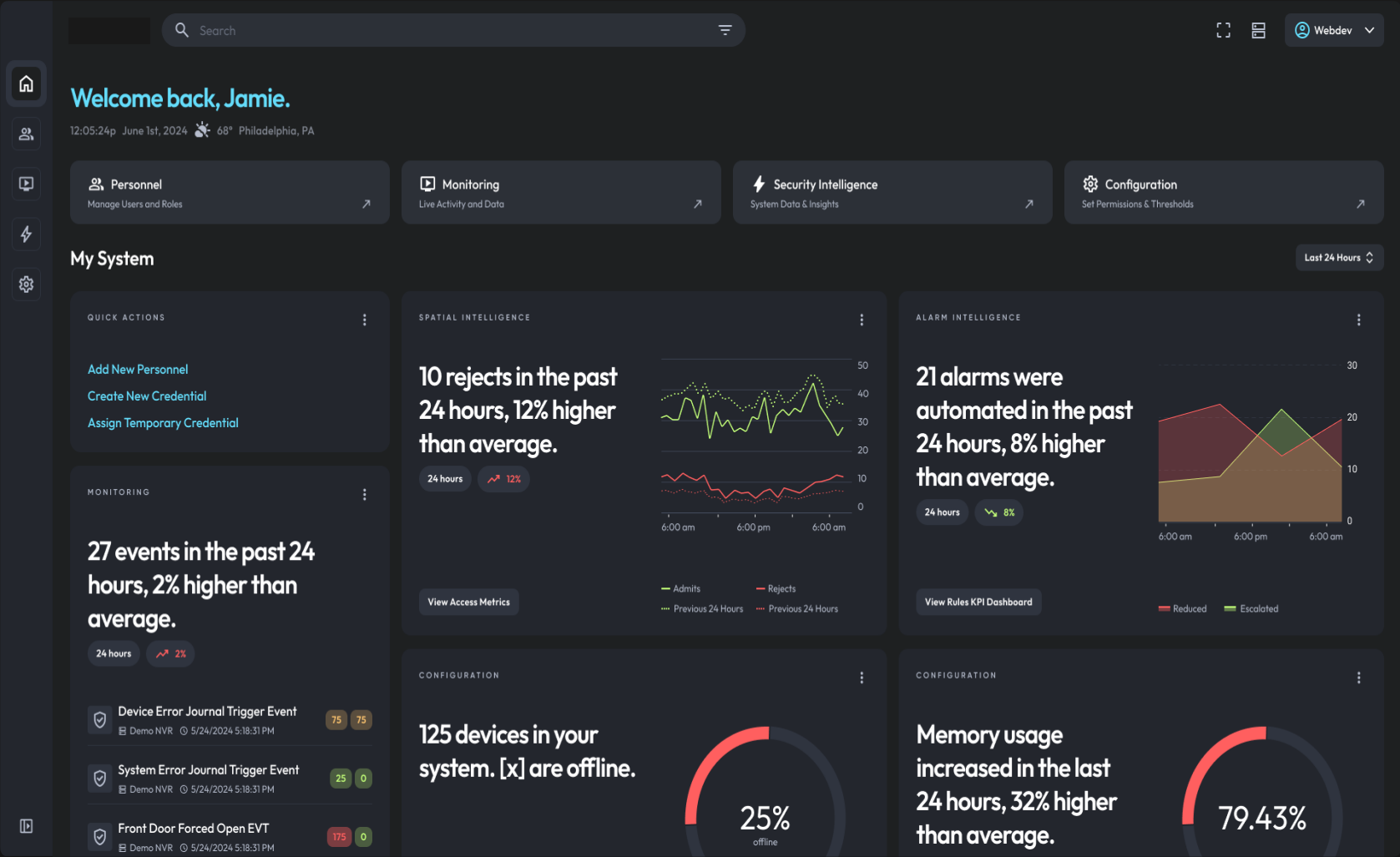


Next Gen CEM | #2 UI/UX

INTELLIGENT SECURITY

Effortless Access to Answers

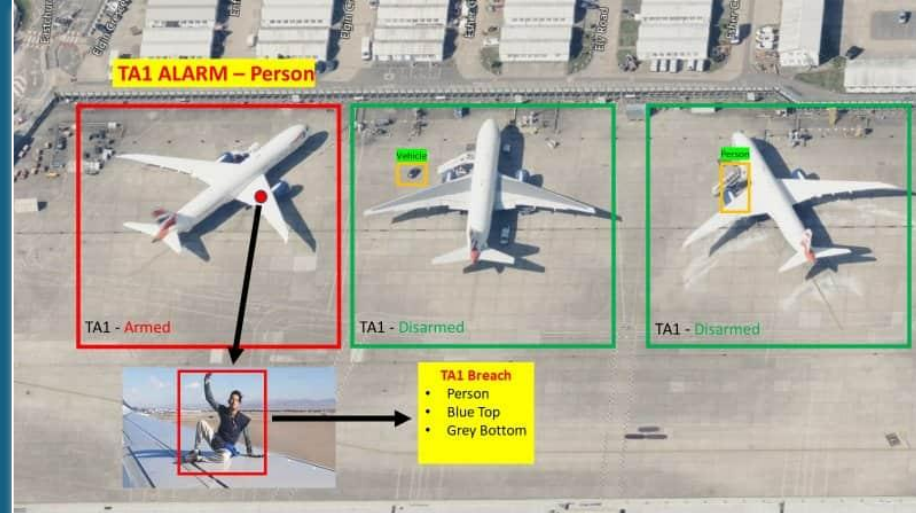
- ↑ Research-Driven Design
- ↑ Workflow-Oriented Experience
- ↑ Extendable Design System
- ↑ Personalized insights based on role
- ↑ Instant value and metric-driven insights
- ↑ Visual rich data presentation





Airside

Use radar
technology
integrated with
access control &
video for central,
preventative
security of airport
perimeter.



**BELFAST INTERNATIONAL
AIRPORT**

BRITISH AIRWAYS



Final thought...

“Intelligent Security – Is a Catalyst for Event-Driven, Autonomous, Airport Operations”

Use Smart, Integrated Airport Systems that talk to each other – Automate where possible, tighten processes in ID Management and intelligently manage passenger flow to handle and assist with your increased capacity.

The power behind **your mission**