

FUTURE PROOFING SECURITY, SAFETY & DATA PRIVACY IN THE AGE OF DIGITAL TRANSFORMATION AND THE NEW NORMAL

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Challenge – Organizations Respond to Threats in Silos. Attackers Don't Think That Way.



When Customers Say They Can Do The Integration On Their Own...

ACCESS MANAGEMENT
COMPLIANCE
SECURITY

IT


IT Systems



ACCESS MANAGEMENT
COMPLIANCE
SECURITY

PHYSICAL

Physical Security



ACCESS MANAGEMENT
COMPLIANCE
SECURITY

OT

Control Systems

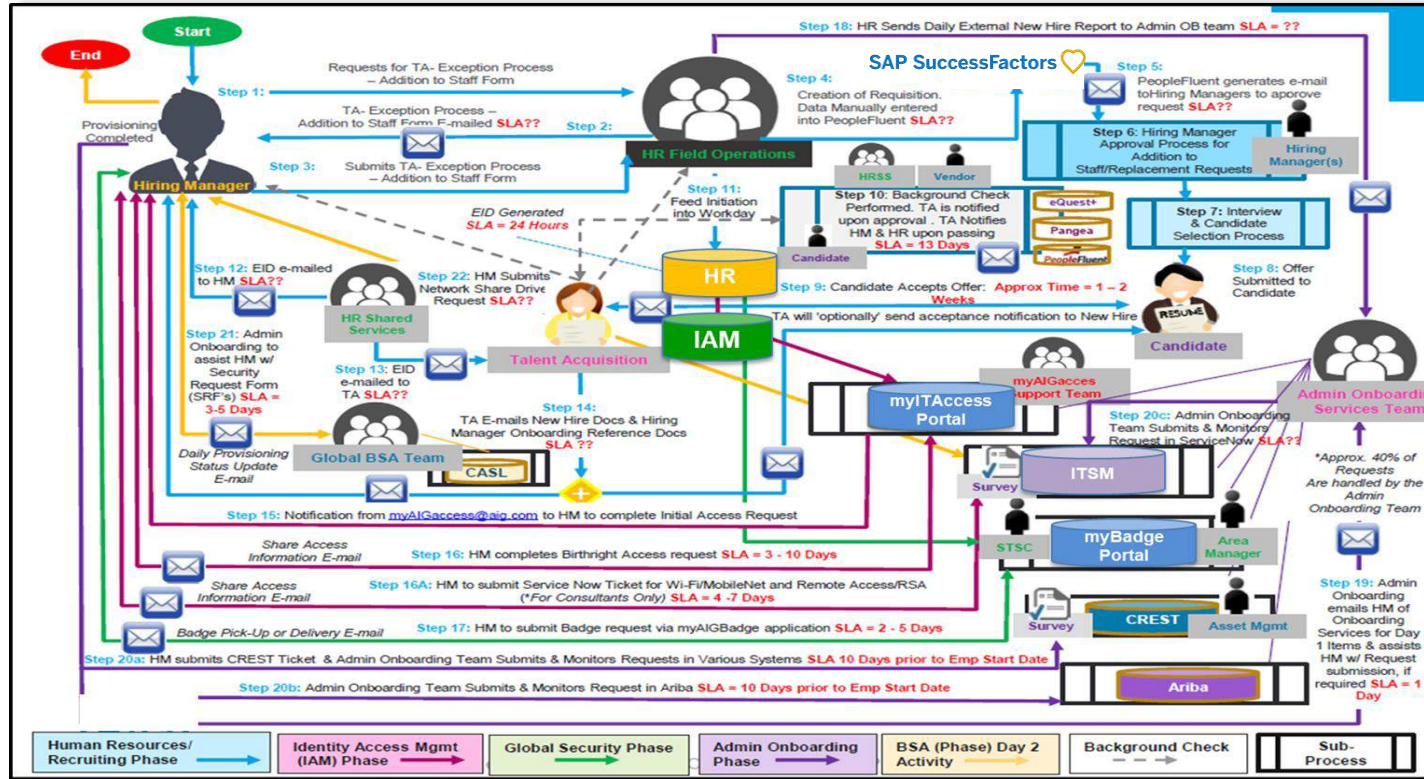


Manual way of bridging the silos can be as painful as....

Building your own smart phone by wiring a Pager, Camera & old Phone



A Customer's Painful Journey – laborious, error prone, complex 'Hire to Retire' process...



IT Resources

- SAP SuccessFactors
- SAP Fieldglass
- SAP Concur
- SSO
- servicenow
- IAM
- Microsoft

Physical Security

- LEVEL-52
- tyco
- Genetec
- Honeywell
- SIEMENS
- VANDERBILT
- johnson controls
- AMAG

OT Systems

- Honeywell
- SIEMENS
- Schneider Electric
- ABB
- GE
- Johnson Controls
- Rockwell Automation
- EMERSON

'Recruit to Retire' Process Simplified – Workforce Productivity and Frictionless Secure Access



ALLEN VINER

Global Head of Physical Security
AIG

"We went from 84 locations on our corporate standard access control system (all within the United States) in 2011 to more than 185 locations in 34 countries in 2018. AlertEnterprise has been a great partner and force multiplier for us. Their platform has enabled us to provide independence and autonomy to the customers we support while ensuring a safe and secure process by ensuring the process flow is in alignment with our policies and standards."

The screenshot displays the AlertEnterprise web interface. At the top, there are navigation tabs for Home, Identity, Risk Analysis, Reports & Dashboards, and System Center. Below the navigation, there are three main sections: Identity & Access (Allows you to create new identity and assigning/requesting access), Trainings & Certifications (Create and manage Trainings & certifications), and Privilege (Create privilege existing users). A dropdown menu is open, showing a list of users with their names and roles, such as 'Allen Viner, Global Manager, Physical Security, Florida' and 'Allen Jones, Manager, Access, Florida'. Below the navigation, there are several request options: Contractor Hiring, Change Access, New/Modify/Remove access, Emergency Termination, Termination, Training/PRA For Contractor/Employee, Enterprise Role, Change In Post, New/Modify/Remove Database Access, Remove Standard Network Access, Remove Physical Access, and New/Modify/Remove Standard Access. Below the screenshot is a process flow diagram for 'Requesting CIP Access for (Request)'. The diagram shows a flow from 'Request' through 'Employee' and 'PRA Expired?' to 'CIP Issued/Not Issued'. Another path goes from 'Request' through 'CIP Sponsor' and 'Request Approved?' to 'CIP Issued/Not Issued'. A third path goes from 'Request' through 'Training/PRA Expired?' to 'CIP BRCC' and then to 'CIP Issued/Not Issued'. The diagram also includes 'CIP Policy Owner' and 'Token Management' steps.



Frictionless, Safe & Secure Access (With IT, Physical & OT Security Convergence)

HR

- Joiners
- Movers
- Leavers

Learning

- Vetting
- Safety
- Training
- Certification

SAP SuccessFactors 



HR

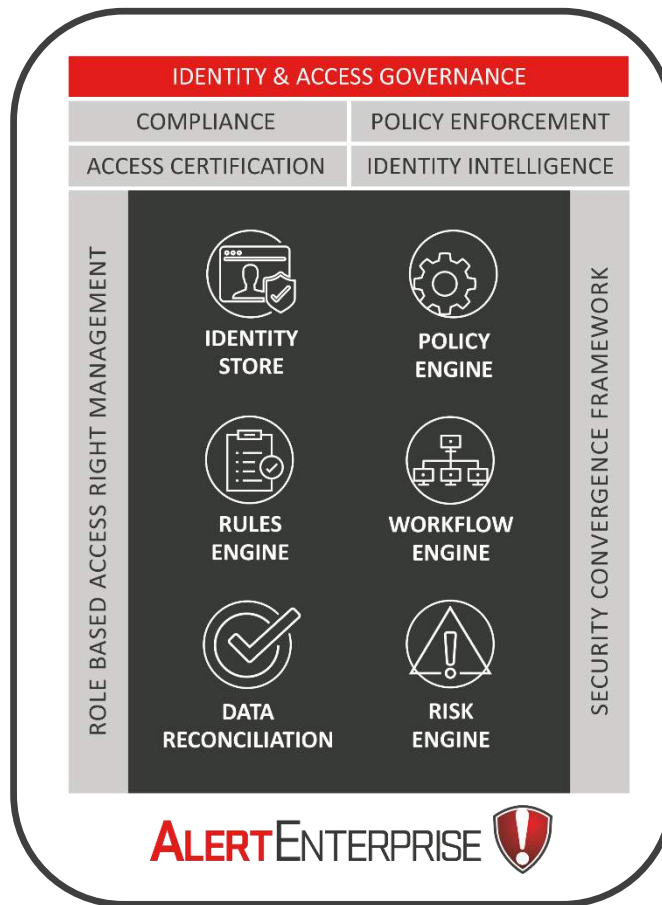


SELF SERVICE



EMPLOYEES
NON-EMPLOYEES

SAP Fieldglass 



IT



PHYSICAL



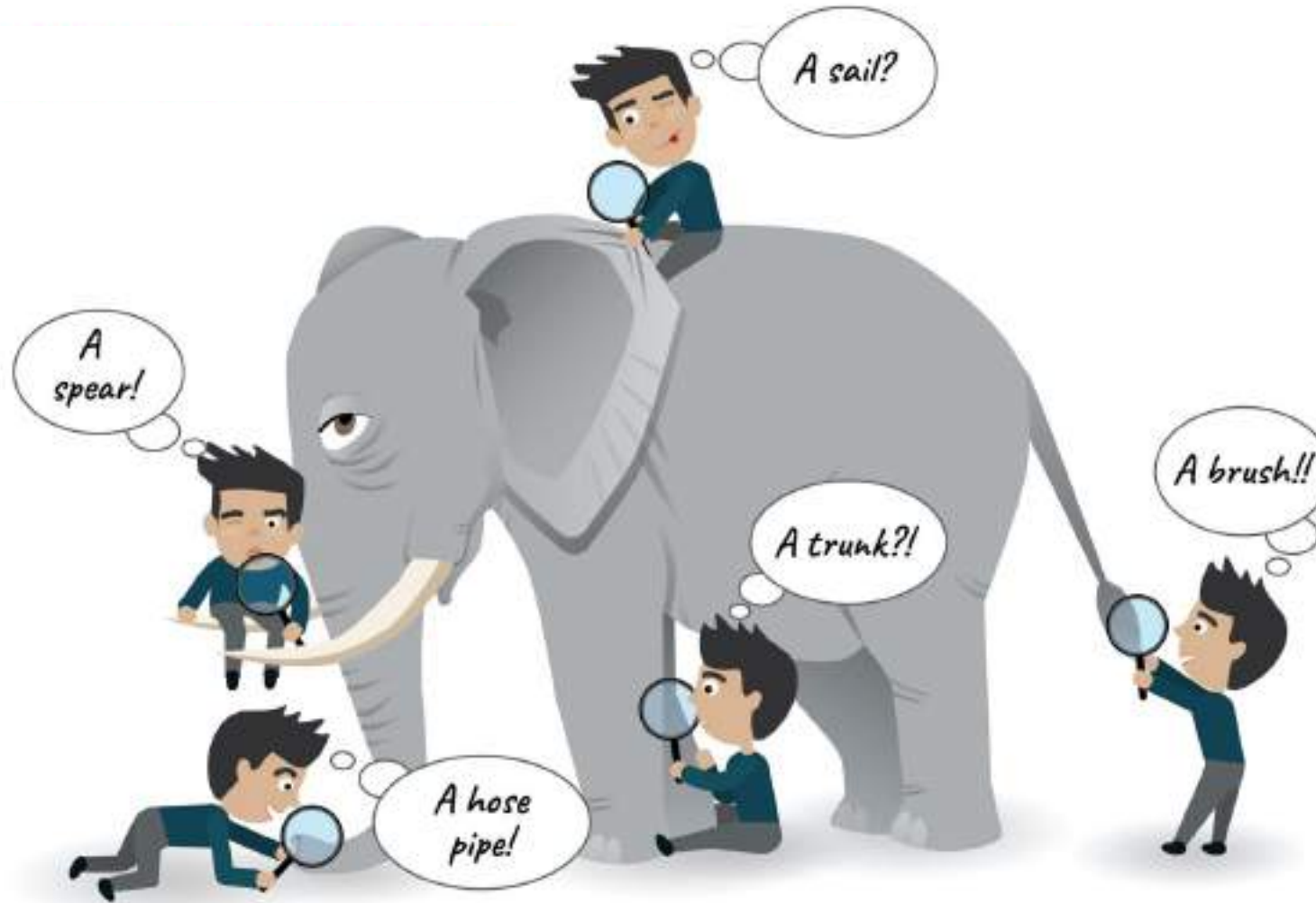
OT



NCCoE
NATIONAL CYBERSECURITY
CENTER OF EXCELLENCE

NIST NCCoE Reference Deployment leverages AlertEnterprise Unique Ability to Manage IT, Physical and OT Identities. Copyright © 2015, AlertEnterprise, Inc.

Silos – Root Cause for most security issues (No one has the Big Picture...)

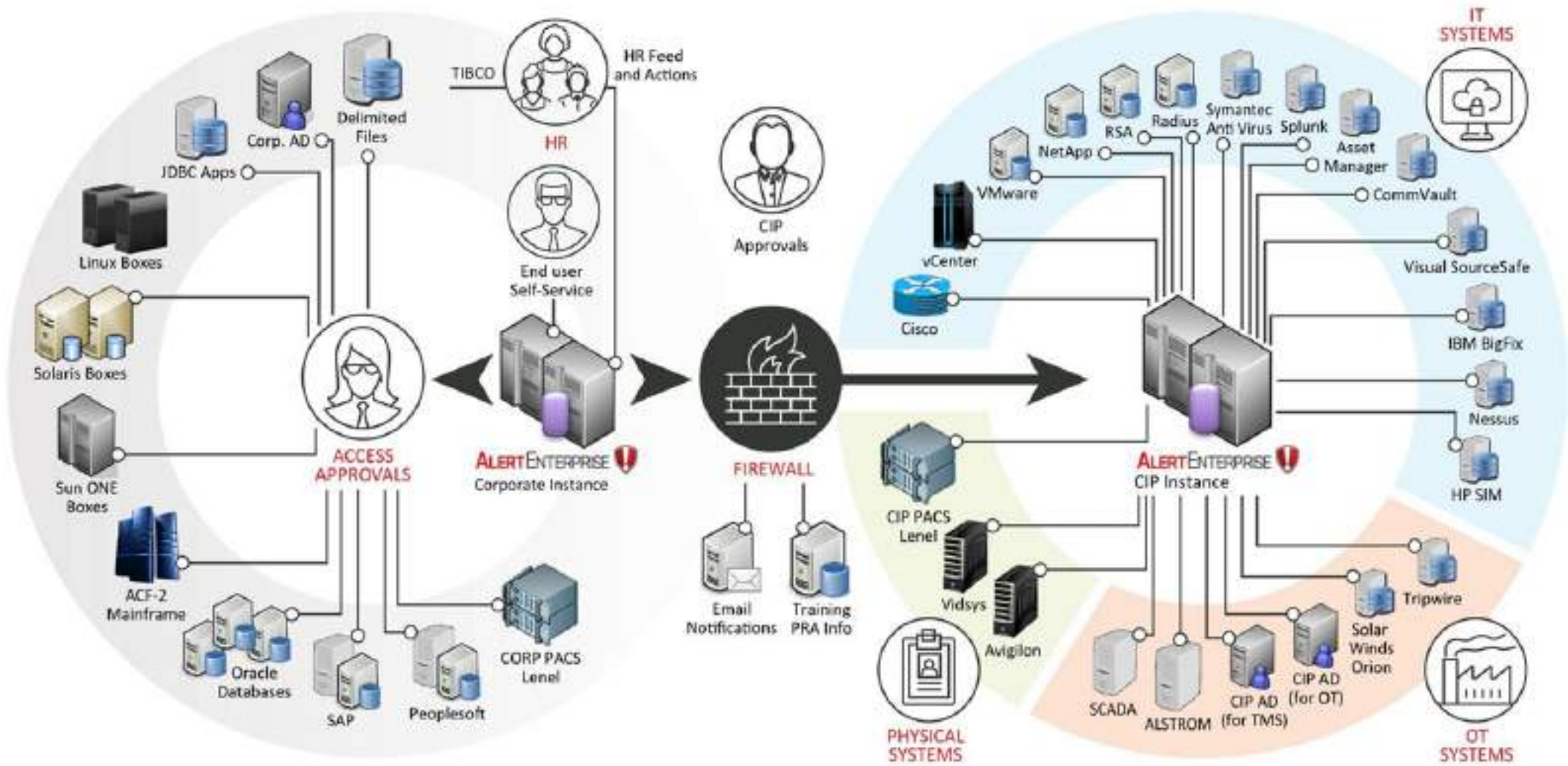


SHOULD YOU SEND A WRENCH OR A GUN?

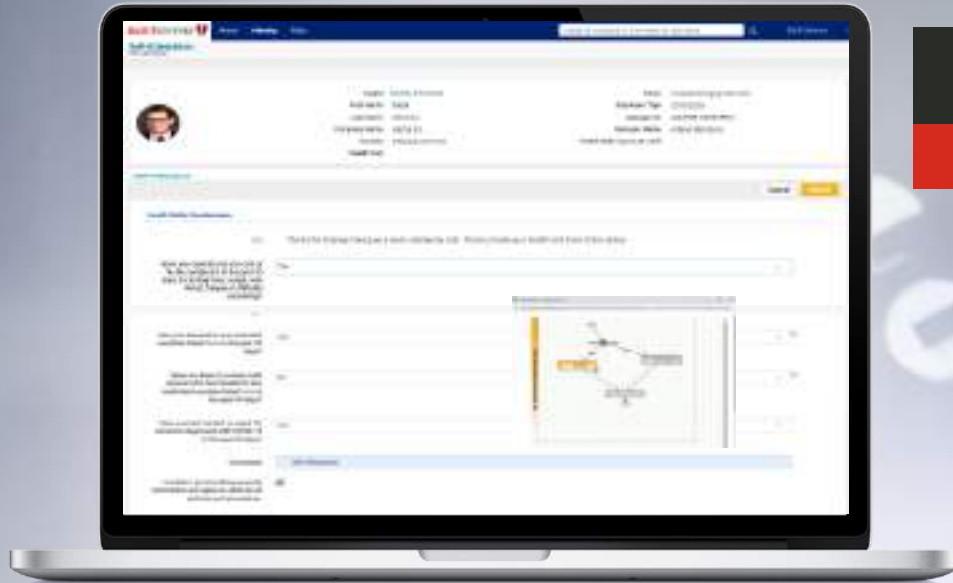
**Detection/Mitigation - Cyber/Physical Attacks
(Protection of crown jewels, Data Centers, Research
Labs, Refineries, Mining Sites, Control Rooms,
Precious Inventory...)**



Converged Security & Safety Accelerates Digital Transformation



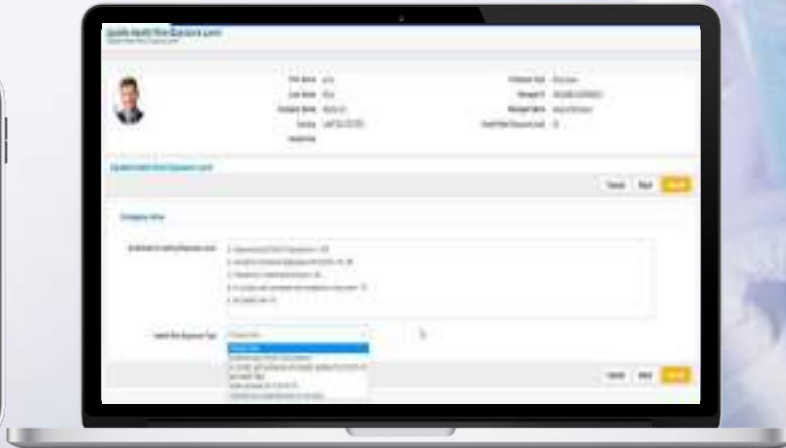
Automated Workforce Self-Attestation for controlled access for Entry / Re-Entry !



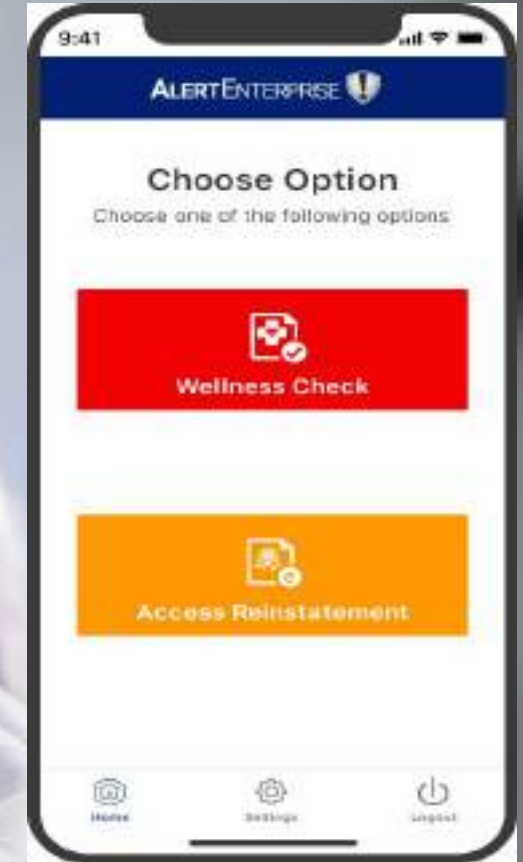
Self Attestation
and
PREVENTION



Site Entry
Attestation
Physical Access
PREVENTION



Manage Exposure
Level
PREVENTION
Access



Real Estate/Experience Management – savings in tens of millions of dollars

IT RESOURCES

LOGICAL IDENTITY
AUTHENTICATION



IT / WORKFLOW



INTELLIGENT ENTERPRISE



PHYSICAL / OT SYSTEMS



SMART, HEALTHY BUILDINGS

SECURITY CONVERGENCE

PHYSICAL IDENTITY
ACCESS GOVERNANCE,
RISK & COMPLIANCE




EMPLOYEES
NON-EMPLOYEES
VISITORS



IT BUSINESS DATA

- Utilization X
- Leasing X
- Employee Experience X
- Maintenance X

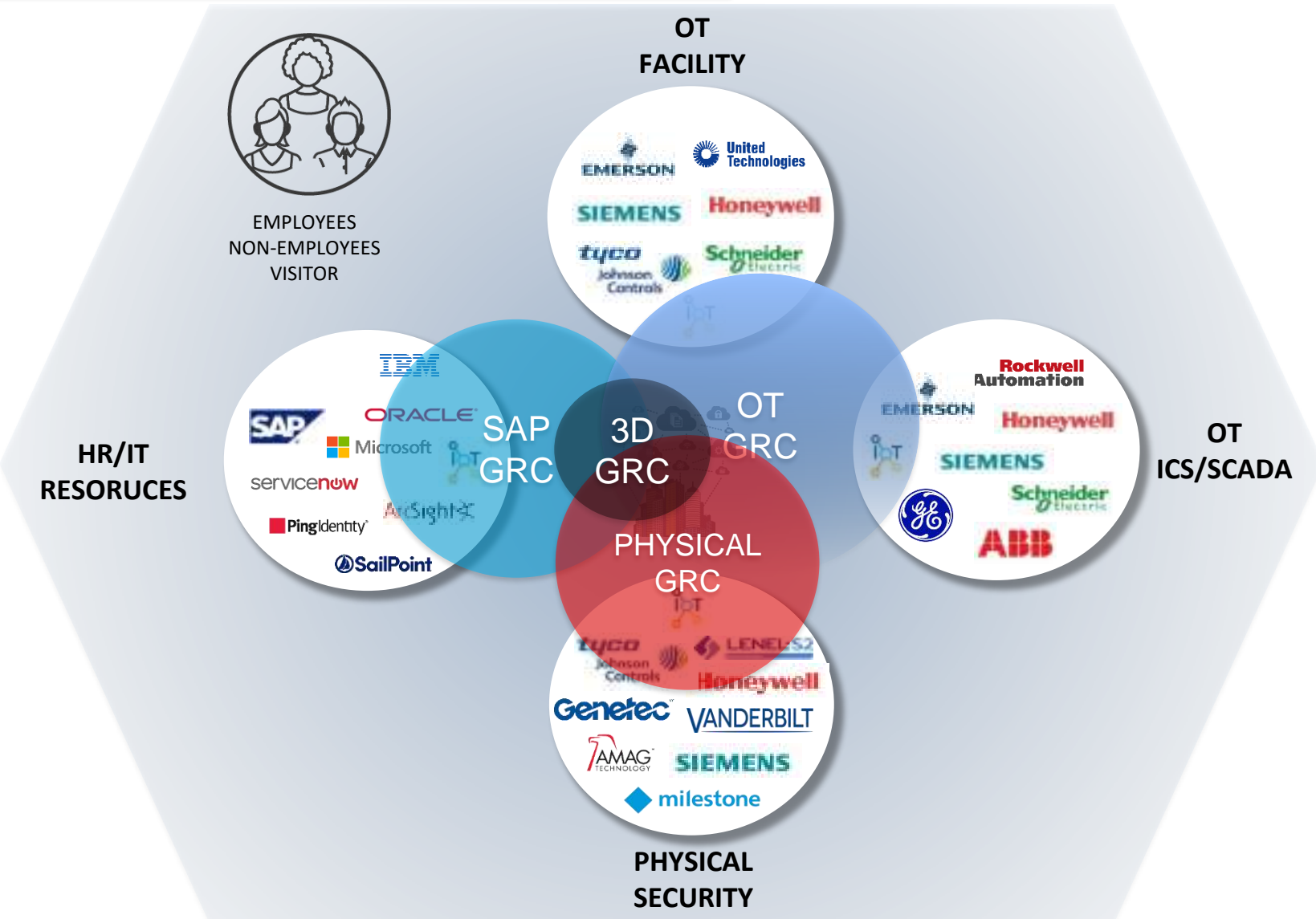


OPERATIONAL TECHNOLOGY DATA

- Wired Multitenant Services X
- Security Services X
- Lighting X

HEALTH SURVEY, COVID TEST, VACCINATION, SEAT BOOKING, RISK SCORE, CONTACT

3D GRC Across Smart Buildings and Intelligent Enterprises of the Future.



Why Converged Security, 3D GRC?

Security/Safety is the Hottest Topics in the New Normal

- HR, Physical Security reporting to same C level executive (Trend driven by GDPR, COVID-19)
- Workforce Experience is very important - **“If I can board a flight with my smart phone, why can’t I use it to enter a building?”**
- Heavy fines/liability (Gartner report **“75% CEOs will be held liable for cyber/physical attacks”**)
- Compelling Value Prop – “Living in Silos is a recipe for getting fired. Imagine your CFO finds out you are spending 3 times more money & living with 3 times more risk.”)
- COVID-19 - a huge catalyst for 3D GRC – “Never let a crisis go waste” (Winston Churchill)





International SAP Conference: Mining & Metals

Casper Eloff

Head of Mosaic Corporate & Global Security



Mosaic Overview

<https://www.mosaicco.com/Home>

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FEEDING CUSTOMERS AROUND THE WORLD

FROM MINE TO MARKET - WE HELP THE WORLD GROW THE FOOD IT NEEDS

Mosaic's Physical Global Locations



Physical Security in Mining & Metals

- Physical Security versus Cyber Security
- Security Being Seen as Guards & Guns for Force Protection.
- Valuable Data hiding in plain sight.
- Not a cookie cutter scenario where 1 size fits all.



Mergers & Acquisition Challenges

- A Mosaic (Multiple) of Access Control Systems
- Getting everyone on the same system?
- Hardware & systems are expensive to Rip & Replace
- Justifying the overhead security spend & proving the ROI in the mining & metals environment is challenging.



Technology Requirements

- A system that can link all the various systems we are using without having to Rip and Replace anything.
- Cost Effectiveness.
- System platform needed to be versatile enough to benefit other departments need/requirements.
- Covid -19 came along & further played a role in the technology we needed.
- Using 1 source of truth & 1 identity across the company.



The Challenge With New or Modern Technology & Industry

- Vehicles were first introduced for public around 1893 & were not widely accepted.
- People didn't understand how vehicles worked or how to use them.
- Certain groups sought to protect their livelihoods by drafting laws that would be frowned upon today as extreme or crazy. The laws were:
 - When traveling on a farm road at night – send a rocket every mile
 - If horses approach – cover your vehicle with a blanket on the side of the road.
 - If horses are still to spooked to pass - the driver must take the car apart & conceal parts in bushes next to the road.

First Cars 1893+



Technology Review

- Technology can often be intimidating
- To put it into perspective, similar to the introduction of the first vehicles example
- Finding the right technology for your specific use cases
- Detailed ROI and reasoning needs to be put together well.



Technology Selection

- Carry the Security Department into the future for the next 10 years at least.
- The technology of the future for Mosaic is the Alert Enterprises, due to the platform utilization of a “soft-backend” and customizable options.
- System workability & API integrations (Application Programming Interface).
- Understanding API Connections in Layman Terms
- Implementation Conundrum
- The Covid-19 ideal opportunity
- Current Buildout in Mosaic
- Procurement Buildout to Maximo, iSNet, Fieldglass & Areba.
- Capability by integrating Training Records to the Access Control System

IDENTITY ACCESS GOVERNANCE





When to Kick-Off Such a Project

- ❖ Opportunity Selection
- ❖ We used Covid-19 as the springboard time to start the project,
 - ❖ Our installation consisted of Thermal Cameras & automation technology
 - ❖ We had a \$4Mil USD per year savings on Temperature screeners
- ❖ The automation software being deployed further allowed for guard positions or hours reduction adding to permanent ROI

— Future Targeted Area's

- a. Repetitive Transactions: Mine to Facility or Mine/Facility to Port
- b. Insider Threat: During reduction in Force or purely behavior changes
- c. Visitor Safety Videos
- d. QR Codes
- e. Automation of Kronos time keeping



