# Convergence of Identity and Access Management

Jan Lindquist, Cryptomathic

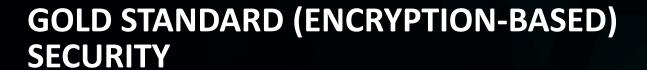
Won Jun, Intercede

**Robert Lydic, Wavelynx** 

Natalie Bannon, Gallagher

Moderator: Jatin Deshpande, Giesecke & Devrient







We craft solutions that protect the most sensitive personal data from unauthorized access and meet strict compliance regulations. Our expertise spans four product lines:









The art of cryptographic security requires us to be at the cutting edge of data and computer science. Every year, we invest millions into Research and Development to keep you and your customers safe.



#### **WALLET APP SERVICES**



#### **Qualified Providers (Issuers)**



National eID



Education/ Qualifications





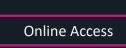






#### Consumer $\circ$





Consent

Selective Disclosure

#### **Relying parties (examples)**





Officials

Alcohol retailers





Signatures

**Online Services** 





Loans

Well-being

#### **Other Providers (Examples)**

**Employment** 



Health/Medical







#### **Other Relying Parties (Examples)**







Services

Retail



#### **EU Funded Large Scale Projects**











### POTENTIAL – Pilots for European Digital Identity Wallet Consortium

Access to government services
Opening of a bank account
Registration for a SIM card
Mobile driving licence
eSignatures
ePrescriptions

- EWC EU Digital Identity Wallet Consortium
   The storage and display of digital travel credentials
   The organisation of digital wallets
   The organisation of payments
- 3. NOBID Nordic-Baltic eID Wallet Consortium

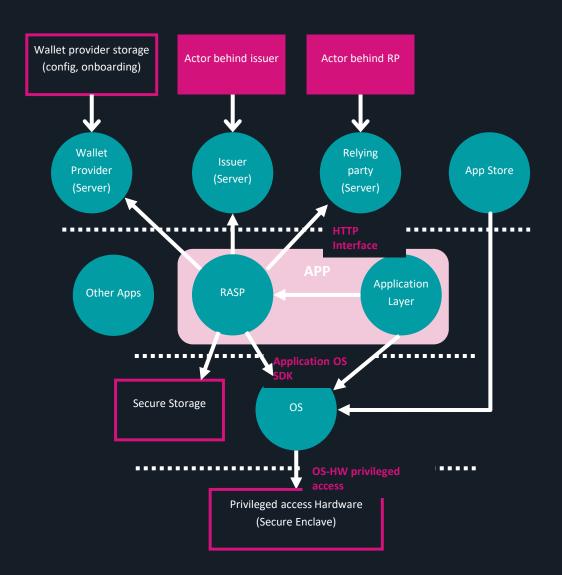
  Authorisation of payments for products and services
- 4. <u>DC4EU Digital Credentials for Europe Consortium</u> Educational sector and the social security domain.

#### **APP(WALLET) VULNERABILITY ASSESSMENTS AND THREATS**





OWASP Threat Dragon is a modelling tool used to create threat model diagrams as part of a secure development lifecycle.



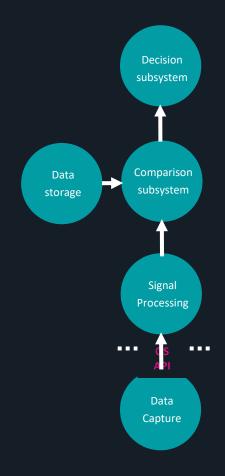


#### VIDEO CAPTURE VULNERABILITY ASSESSMENTS AND THREATS





OWASP Threat Dragon is a modelling tool used to create threat model diagrams as part of a secure development lifecycle.



How video injection attacks can even challenge state-of-the-art Face Presentation Attack Detection Systems (2023)





**Store** 

**Actor** 

#### **THANK YOU**





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JAN LINDQUIST
Product Manager
Mobile Application
Security Core

# wavelynx



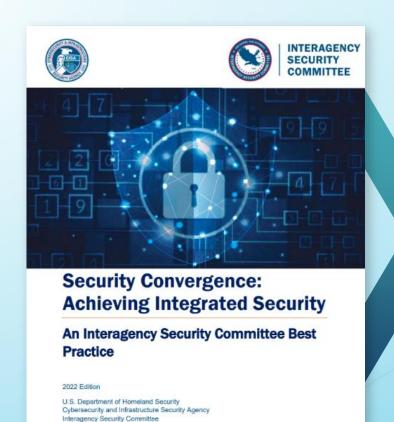
#### **Robert Lydic**

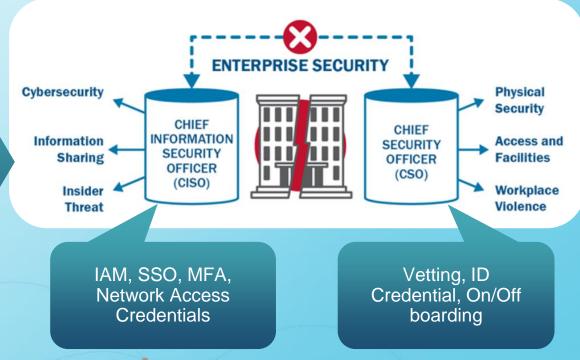
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#### wavelynx wavelynx

# Convergence is Happening: Physical & Wallet Credentials



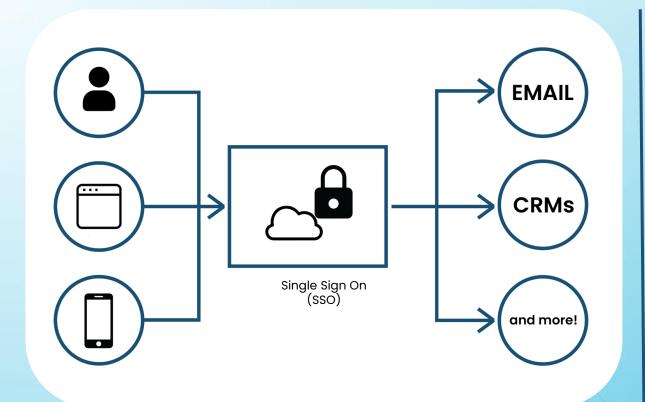






#### Access?

#### All Access to Systems, IP, Documentation



#### **All Access to Facilities**





#### **Converged Physical Credential**



HYPR







CONFIDENTIAL



#### **How Do Wallet Credentials Solve this?**

- Leverage IT platforms for endpoint management to ensure device security
- Leverage IT platforms for SSO to ensure authenticated user
- Integrate physical access control software to automate lifecycle management of users, credentials, and permissions





**Wallet Credentials** 





#### **Corporate SSO Identity**





#### Why wallet?

- More secure than all other credentials
- Superior provisioning and administration
- Unparalleled user experience for all users





# Convergence of Identity and Access Management

Won J. Jun
Solutions Architect
Intercede



### **About Intercede**



MyID software manages millions of digital identities worldwide



Trusted by governments, large enterprises, military and police



More than 20 years domain expertise feature-rich product and expert staff



Supported by a global partner network and our own UK and US offices



## Intercede capabilities



#### Registration and ID Verification

- · Biographic data capture
- · Fingerprint capture
- · Facial biometric capture
- · ID document validation
- · Background checks
- · 1:Many biometric matching



#### Credential Management

- Issuance policy
- · Central and local issuance
- · Lifecycle management
- · Audit and reporting
- · Key management
- PKI integration
- · FIDO



#### Multi-Factor Authentication

- · FIDO
- · Hardware OTP
- Push notifications app
- · Software OTP
- · Deviceless PIN grid OTP
- OTP over SMS

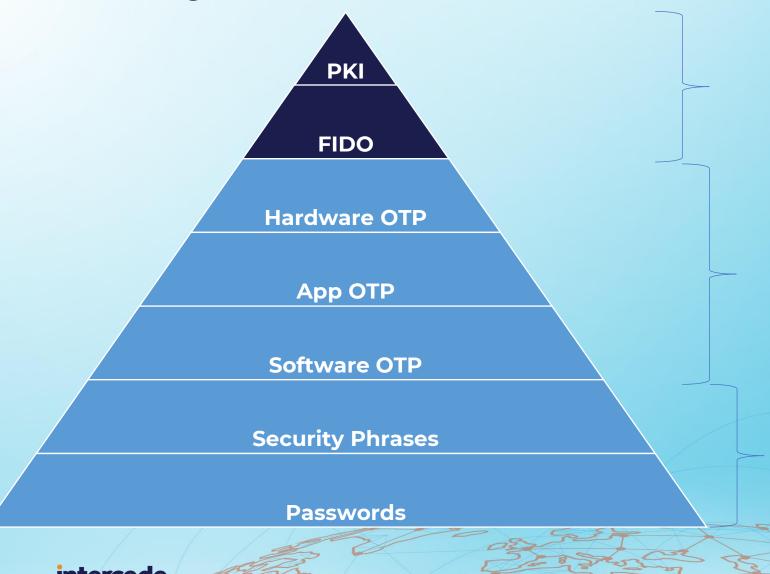


#### Password Security Management

- Compromised password check
- Password policy
- · Policy enforcement



Stronger authentication from passwords to PKI











### History of convergence in LACS and PACS

1990's: PACS was king. LACS was emerging.

• 2000's: LACS became more prominent. Visions of integrated LACS

and PACS. iPhone introduced (2007).

• 2010's: More advancement in convergence. FIDO introduced (2012).

The mobile team emerges.

2020's: Disparate LACS and PACS convergence.



## Reasons for slow convergence

- The tale of "two kingdoms"
- Shifting requirements
- Infrastructure changes
- Different vendor sets
- Technological advancements



# Evolving requirements and landscape

- Mobile technology "the third kingdom"
- Multiple personas (identities) and roles
- MFA options (software, hardware, hybrid)
- FIDO (Consumer → Enterprise)
- Password security management





# Current trends in convergence

- Federated IDs and open specifications
- Smart cards and tokens
- Mobile (MDMs)
- FIDO (Enterprise)
- Biometrics
- Digital wallets

"Everything is converging" - One size does not fit all.





# Convergence from our customers' view

- Higher assurance logical and physical access (Gov, Intell)
- Modernization of PACS. REST API integration. (e.g., Ondemand revocation)
- Identity and access management governance
  - On-boarding
  - Process integration
     (Ex.: Onboard in Sailpoint, pass identity into CMS, then to LACS and PACS.)
  - Central identity orchestration point
  - Can reduce cost, increase security
- Data breaches addressed



# Thank you!

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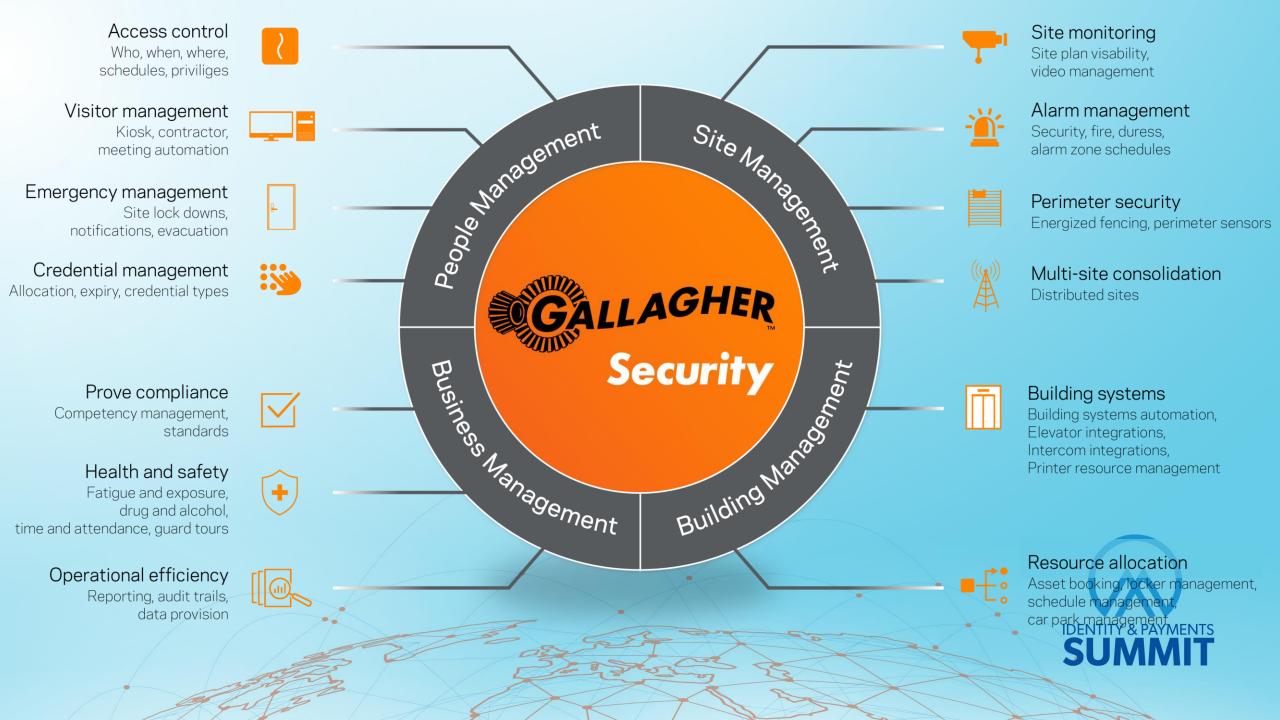
# Business Value of Identity Convergence in Physical Access



#### **Natalie Bannon**

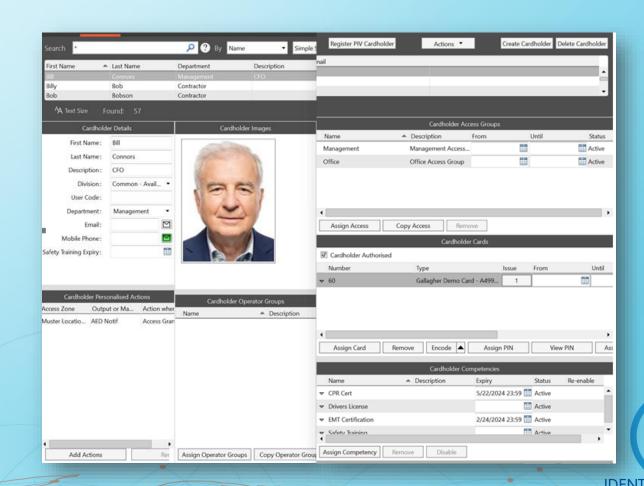
Director Strategic Alliances, Americas Gallagher Security natalie.bannon@gallagher.com | 314.591.4605





# Cardholder Info Pull from Systems

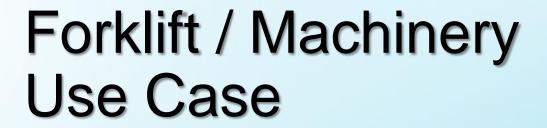
- Personal Information
- Competencies
  - Trainings
  - Certificates
- Access
  - Locations
  - Machines
  - Workstations
  - Parking Spots
- Personal Data Fields
  - Computer User ID
  - Parking Pass #
  - Contractor Name
  - Favorite Ice Cream Flavor
- Credentials





Shuttle Bus Use Case

- Access control not to open doors
- Identity leveraged to know who they are
- Business continuity benefits
  - Show up for shift
    - Tied to HR scheduler
  - Additional worker needed
  - Mining ability to clear blast zones quickly

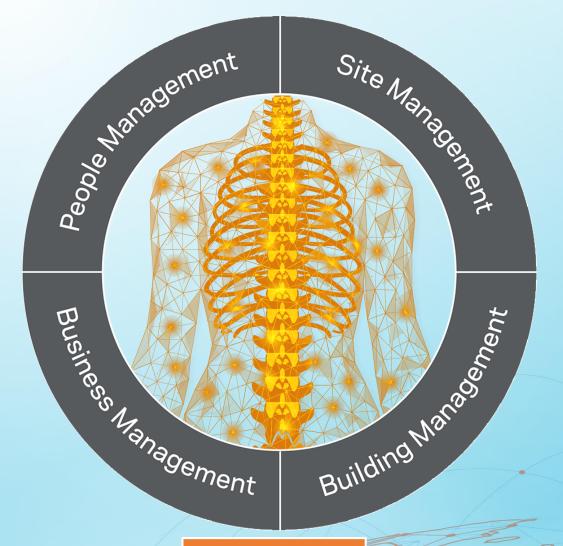


- Enforcing compliance requirements
- Tied to LMS
- Notifications & alerts, warnings

Audit trails & reports



# Global Customer Example



- Automatic provisioning & access from AD & HR systems
- Space Utilization conference rooms, parking spaces, lockers
- Employee location tracking
- Shuttle bus
- · Ordering corporate clothing
- Time & attendance
- Credential management
- Competency management machine safety, workstation access
- Randomized drug testing
- Temperature checks during pandemic
- Reports, event data analysis
- BACnet integration for HVAC & lights
- Access control & intrusion
- Perimeter detection multiple solutions



14 Systems 26 Integrations