Convergence of Identity and Access Management

Jan Lindquist, Cryptomathic Won Jun, Intercede Robert Lydic, Wavelynx Natalie Bannon, Gallagher Moderator: Jatin Deshpande, Giesecke & Devrient



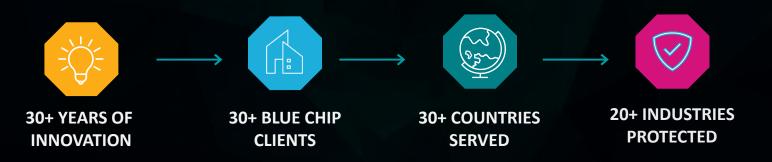
GOLD STANDARD (ENCRYPTION-BASED) SECURITY



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

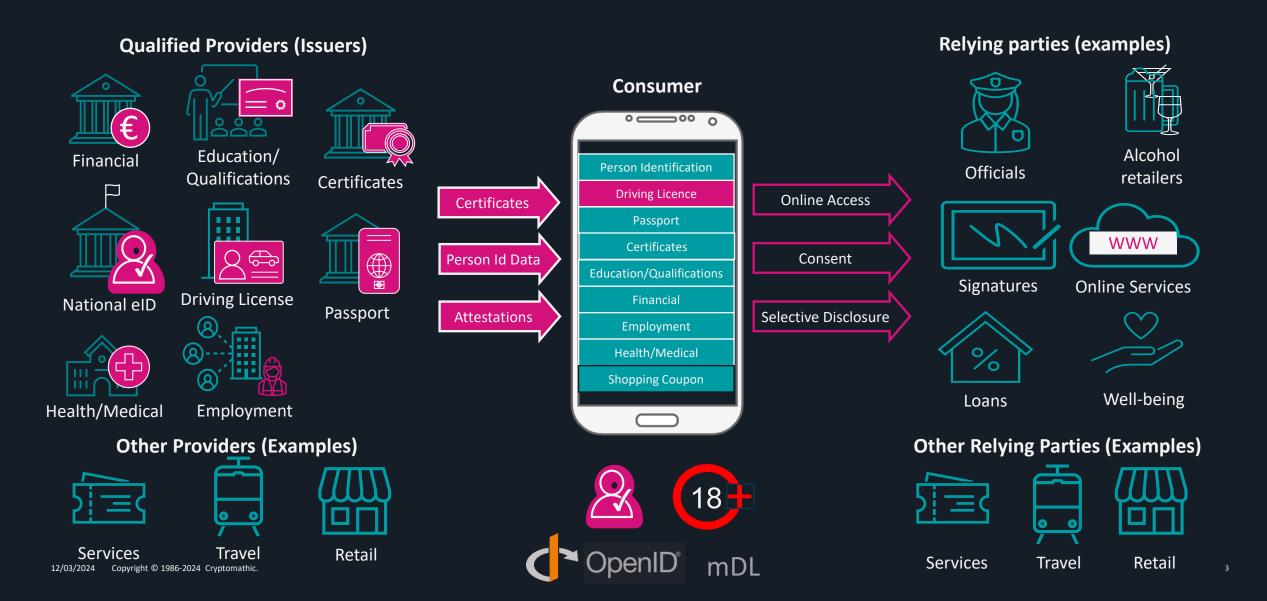


The art of cryptographic security requires us to be at the cutting edge of data and computer science. Every year, we invest millions into Research and Development to keep you and your customers safe.



WALLET APP SERVICES







EU Funded Large Scale Projects



Potential For European Digital Identity







- POTENTIAL Pilots for European Digital Identity Wallet Consortium

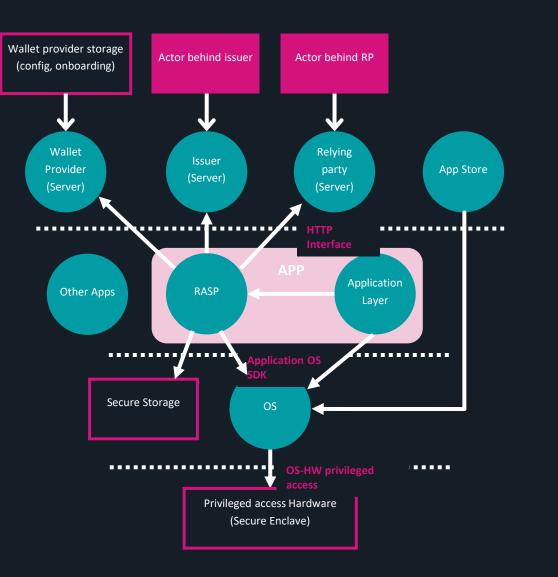
 Access to government services
 Opening of a bank account
 Registration for a SIM card
 Mobile driving licence
 eSignatures
 ePrescriptions
- <u>EWC EU Digital Identity Wallet Consortium</u>
 The storage and display of digital travel credentials
 The organisation of digital wallets
 The organisation of payments
- 3. <u>NOBID Nordic-Baltic eID Wallet Consortium</u> 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.



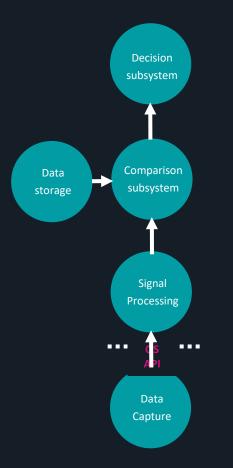


VIDEO CAPTURE VULNERABILITY ASSESSMENTS AND THREATS



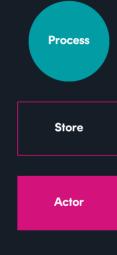


OWASP Threat Dragon is a modelling tool used to create threat model diagrams as part of a secure development lifecycle.



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





----- Data Flow

THANK YOU







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Convergence is Happening: Physical & Wallet Credentials

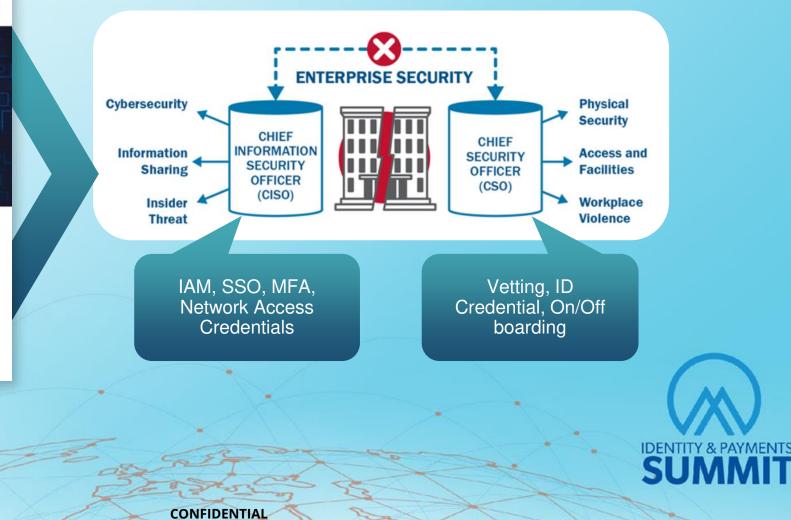


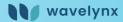
Security Convergence: Achieving Integrated Security

An Interagency Security Committee Best Practice

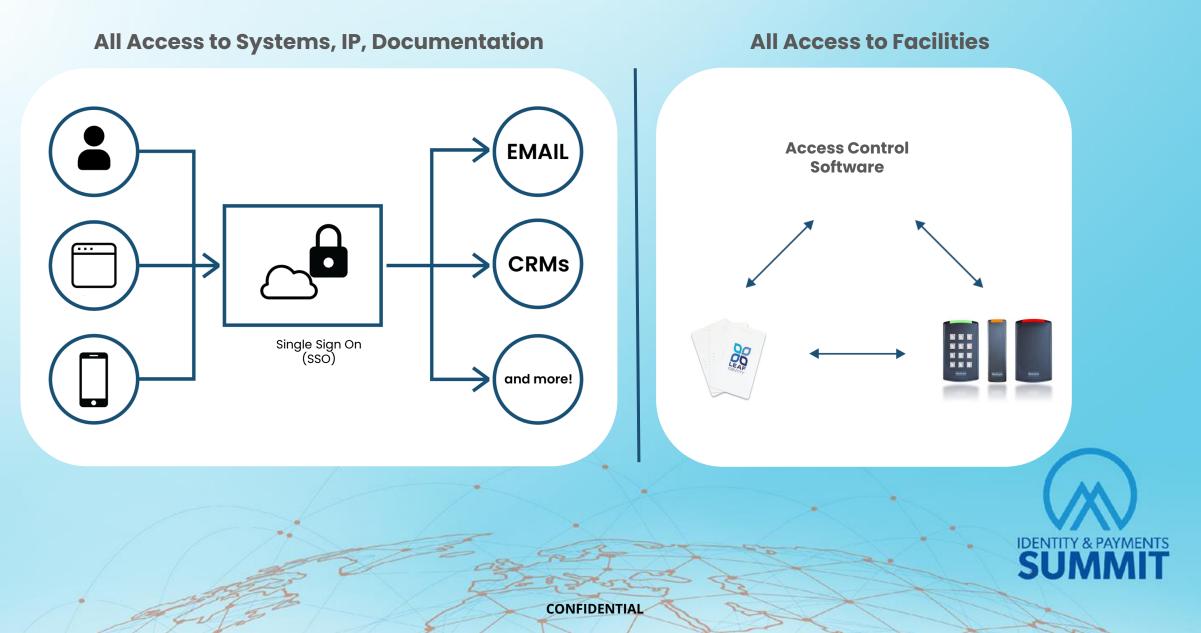
2022 Edition

U.S. Department of Homeland Security Cybersecurity and Infrastructure Security Agency Interagency Security Committee





Access?



Converged Physical Credential



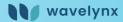
How Do Wallet Credentials Solve this?

- 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
- \cdot PKI integration
- FIDO



Multi-Factor Authentication

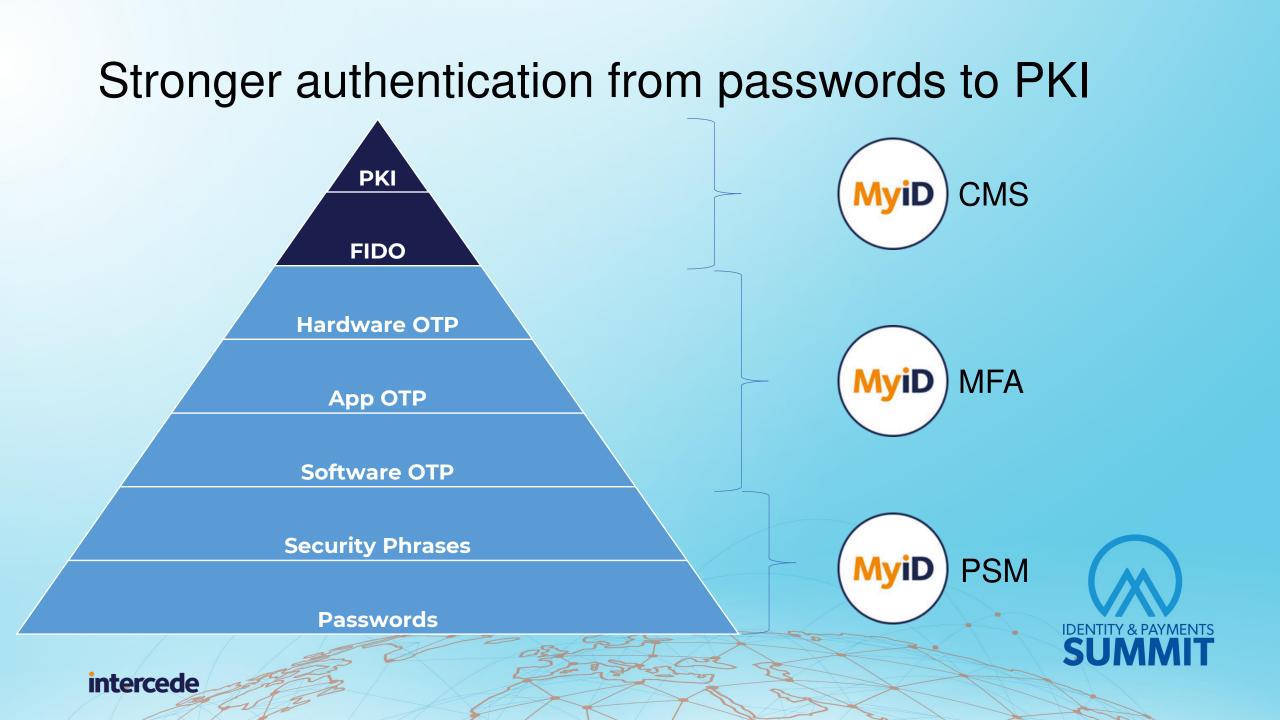
- FIDO
- Hardware OTP
- Push notifications app
- Software OTP
- Deviceless PIN grid OTP
- OTP over SMS



Password Security Management

- Compromised password check
- Password policy
- Policy enforcement





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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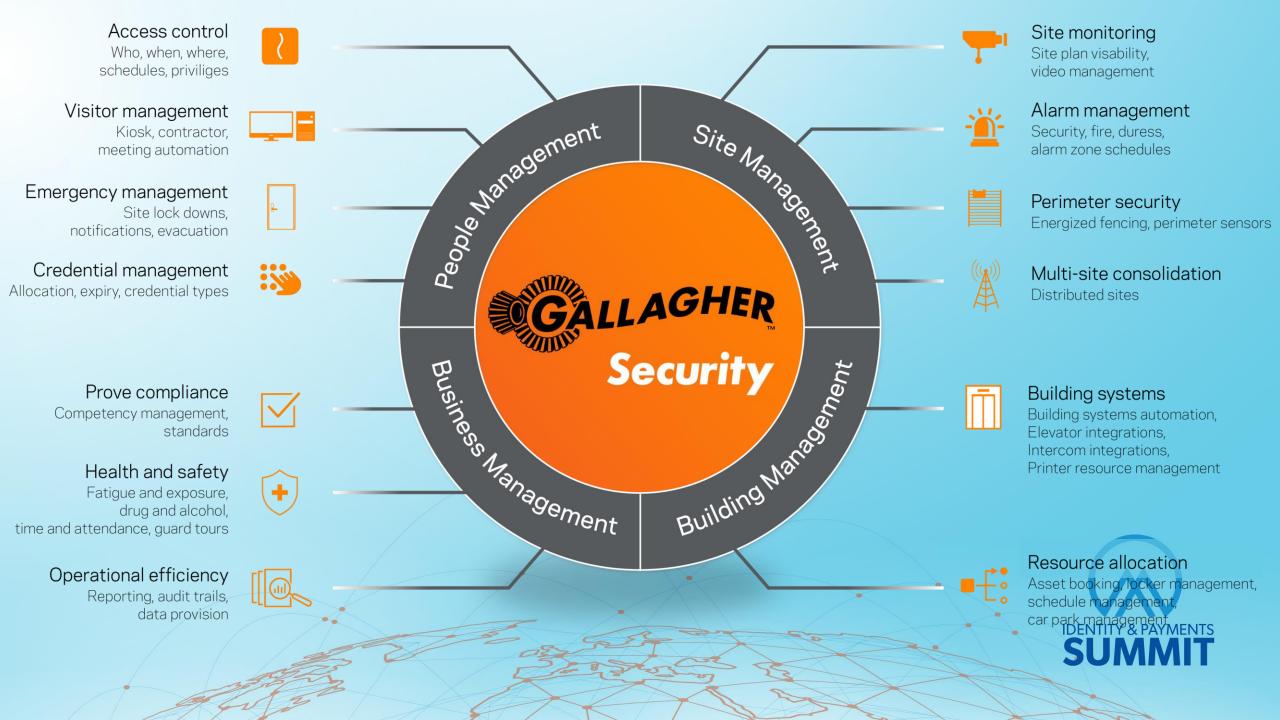
Business Value of Identity Convergence in Physical Access



Natalie Bannon

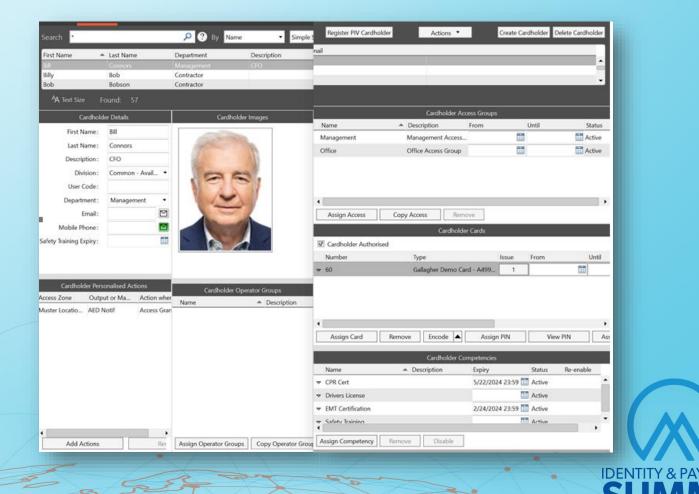
Director Strategic Alliances, Americas Gallagher Security natalie.bannon@gallagher.com | 314.591.4605





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



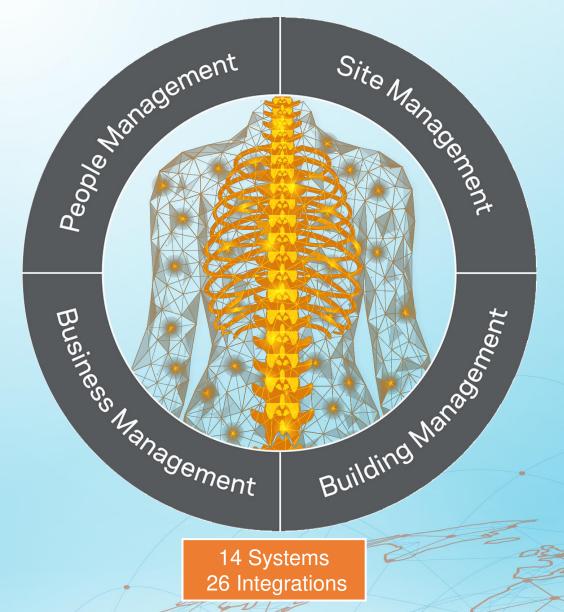
Shuttle Bus Use Case

- 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

Forklift / Machinery Use Case

- 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

