

Identity Proofing

Current Processes and Need for Automation



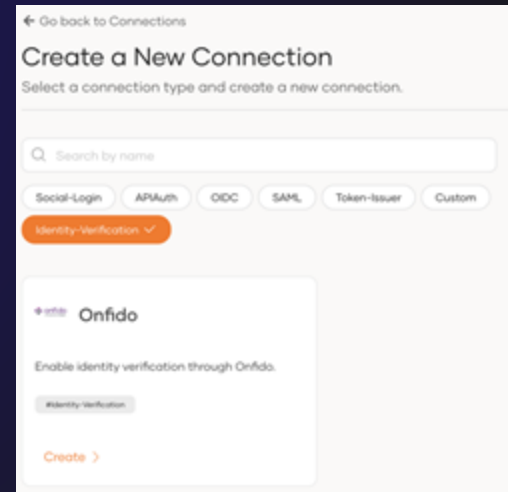
CC by fauxels

03.19.2025
WSO2CON 2025 Barcelona

PRESENTATOR: Lec Maj

AGENDA

- Background on Identity Proofing
- Different types of Identities
- Why use Identity Proofing?
- Where is it being used?
- What is being done today?
- Where is it used?
- Direction(s) & Process
- Automation
- WSO2 Identity Server IDVP



Identity Proofing aka. Identity Verification

Process of verifying that someone is truly who they claim to be during remote interaction. It's a critical security measure, especially in our increasingly digital world. Fundamental goal is to establish with a high degree of certainty that a person's claimed identity matches their real-world identity.

* **However**, not all identities are created equal

Different types of Identities

In case of large organization as global company or University we must consider different types (in some organizations 100+ types) of individuals:

- Faculty / Researchers
- System Administrators
- Staff (ie. Finance, HR)
- Contractors
- Degree Students
- Non-Credit Students
- Alumni
- Volunteers
- Housing Residents
- Visitors

Why use Identity Proofing?

- Onboarding (Joiner-Mover-Leaver Lifecycle)
- Account Security (Password recovery & MFA)
- Compliance (NIST 800-63 Levels of Assurance)
 - IAL1: Minimal identity verification; self-asserted
 - IAL2: Evidence supporting the real-world existence, typically involving remote or in-person identity proofing.
 - IAL3: Requires in-person or supervised-remote identity proofing.
- Mitigating Fraud (Identity Theft, Application Fraud)
- Establishing Trust (For users and applications)

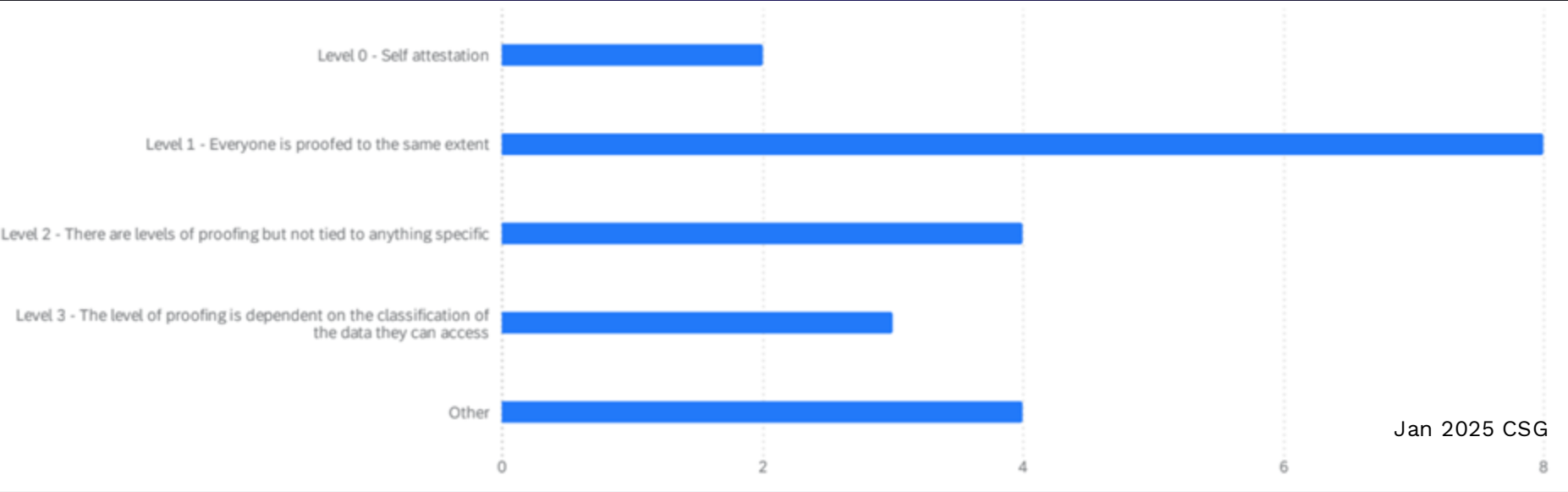
Where is it used?

- EU Government and Bank interactions
- Onboarding by HR or Third Party
 - In USA as part of I-9 verification process
 - Consultant background checks
- Service support desk / team
 - Password recovery email address updates
 - MFA tokens for replacing broken devices
- Other places? (**Audience Participation**)

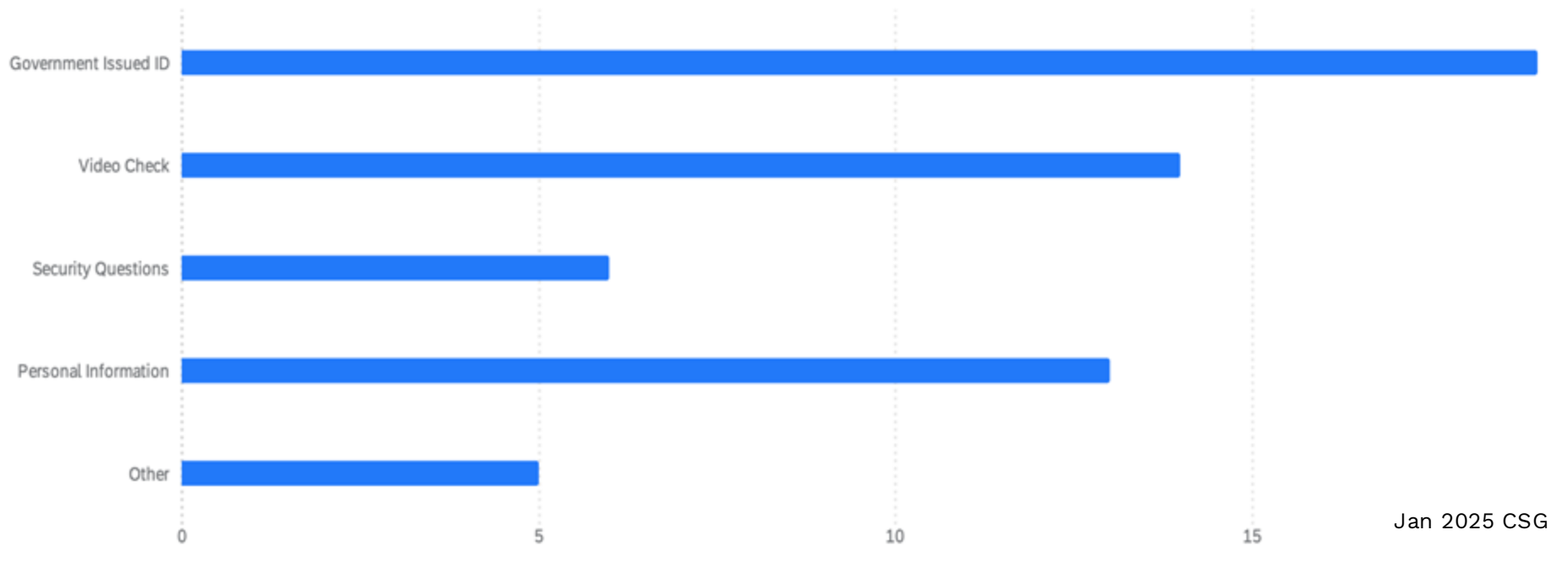
What is being done today?

- No Identity Proofing
- Self-Attestation via email token / confirmation
- Security questions
- MFA verification
- In Person at local office with GOV or Company ID
- Via web video conference with GOV or Company ID
- Using 3rd Party Services and automation

Highest level of Proofing among 30+ Universities



Universities Identity Proofing Mechanisms Poll



Direction(s)

- Many companies are getting into this space
 - Persona,
- Governments are trying as well
 - EU, China very much forward
 - USA with Global ID, yet digital slow progress
- Transition from centralized to individual
 - Google, Apple Wallet and similar solutions

Automation

- Many companies/partners are getting into this space
 - Persona, Onfido, Id.me, Jumio, 1Kosmos, etc.
- Governments are trying as well
 - EU, China very much forward
 - USA with Global ID, yet digital slow progress
- Transition from centralized to individual
 - Google, Apple Wallet and similar solutions

Identity Proofing Process Automation



Capture Photo

Vendors store** in SaaS system for future quicker re-verification



Document Authenticity

Visually captured or data retrieved from the document via NFC



Corroborate Info

Connectivity with external data sources, i.e. gov agencies, credit bureaus, banks



Human Liveness Detection

Live video biometric face comparison with the photo similar to TSA airport system

**Possible University privacy concerns, vendor policy adjusted. TSA does not store with exceptions

WSO2 Identity Server IDVP

- Identity Verification - IDV is a critical aspect of security and risk management
- Major Identity Governance (IGA) systems integrate with third-party partners to accomplish verification.
- It is important to pick the correct partner, Gartner has many recommendations in terms of how to pick correct partner
- Configure Identity Verification Provider
- Identity Verification Provider Management API (v1)

Identity could
be boring...

Thank you!



Questions / Discussion?