

# The FIDO Alliance

## An introduction

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Biometrics Institute Showcase Australia  
Canberra, 18 November 2014

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Lockstep Group

LOCKSTEP



# The power of secure devices

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**fido**<sup>TM</sup>  
alliance

# The power of secure devices



- Megatrend: “*simpler strong, local device authentication*”
- Leverage trusted execution environments & embedded PKI
- Leverage local biometrics

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# FIDO Alliance Mission

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- *Developing technical specs for open, scalable, interoperable mechanisms that reduce the reliance on passwords.*
- *Operating industry programs for worldwide adoption of the specs.*
- *Submitting mature specs to recognized standards bodies.*

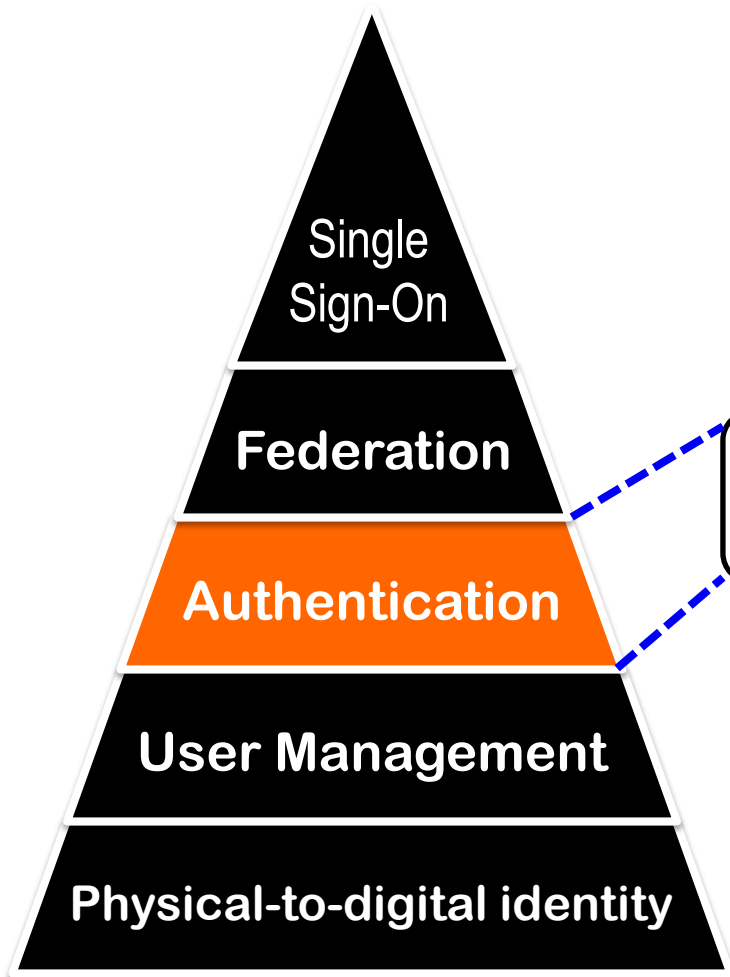
# The role of FIDO

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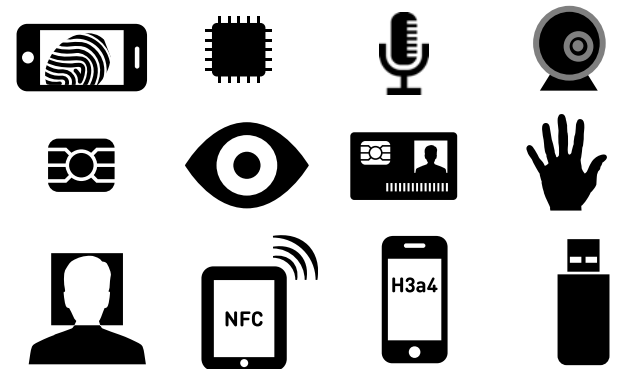


- **Develop paper specs ... open standards**
- **Interop and conformance testing**
- **Thought leadership, nurture ecosystem**
- **The Alliance does not ship products!**
  1. **Certification WG**
  2. **Marketing WG**
  3. **Privacy & Public Policy WG**
  4. & 5. **Protocols**

# Identity or Authentication?



## Modern Authentication

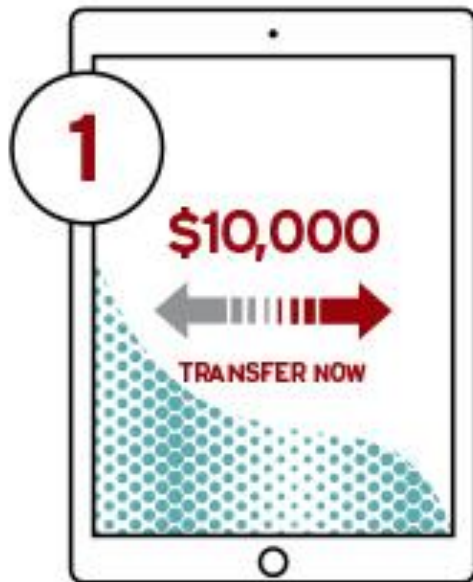


# 1 of 2 FIDO protocols: UAF



## PASSWORDLESS EXPERIENCE (UAF standards)

ONLINE AUTH REQUEST



TRANSACTION DETAIL

LOCAL DEVICE AUTH



SHOW A BIOMETRIC

SUCCESS

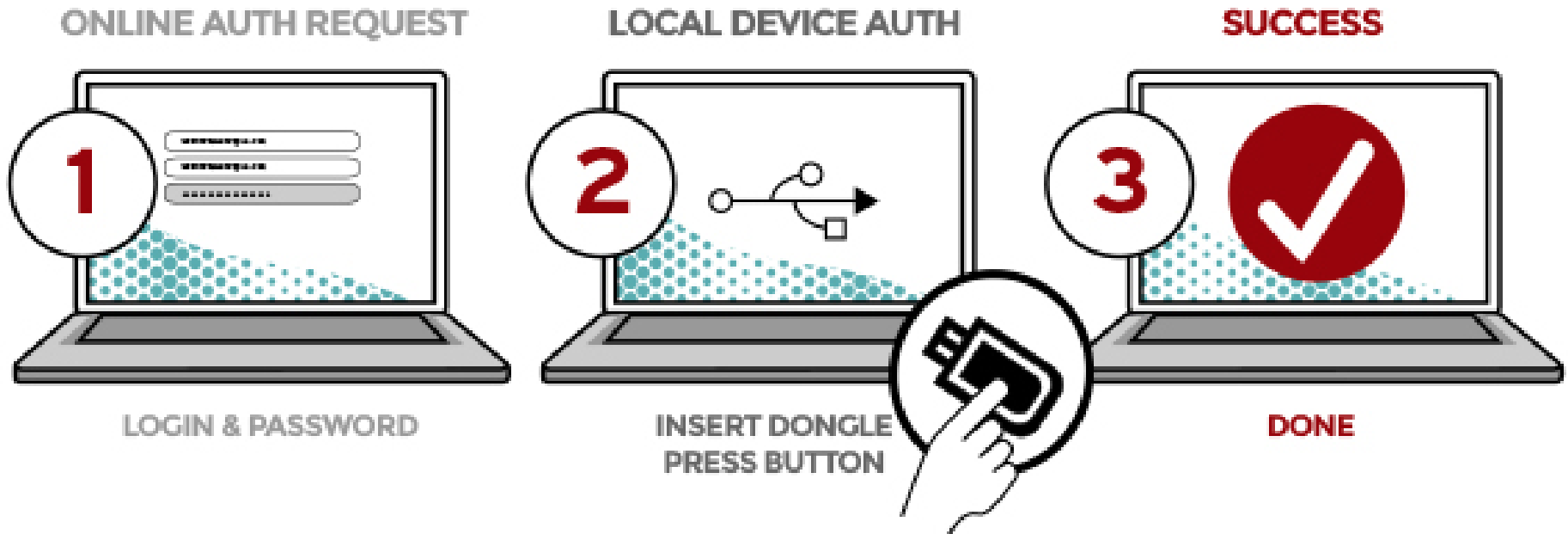


DONE

# 2 of 2 FIDO protocols: U2F



## SECOND FACTOR EXPERIENCE (U2F standards)





# FIDO Board Members



# FIDO Sponsor Level



# FIDO Associate Level



# Biometrics members

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- **AGNITiO**
- **Bionym**
- **BehavioSec**
- **Beijing Techshino**
- **BIO-key**
- **Biomatiques**
- **CBA Japan**
- **Check2Protect**
- **CrucialTec**
- **Cyberextruder**
- **Dermalog**
- **Diamond Fortress**
- **Digital Development**
- **Egis Technology**
- **Entersekt**
- **Egistec**
- **EyeVerify**
- **EyeLock Inc.**
- **Fingerprint Cards AB**
- **Fingerprint Cards AB**
- **Facebanx**
- **FacePhi Biometria**
- **findBIOMETRICS.com**
- **Identity X**
- **IDEX**
- **Integrated Biometrics**
- **Monkeetech**
- **Morpho**
- **Next Biometrics**
- **Onevisage**
- **Paycasso Verify**
- **Precise Biometrics**
- **Sonavation**
- **STC Innovations**
- **Synaptics**
- **Startek**
- **VoiceVault**
- **Zhejiang Wellcom**
- **Zwipe**

# PayPal - Samsung

An advertisement for the Samsung Galaxy S5, featuring a blurred background of a person at a counter. The Samsung logo is in the top left. The main text reads "Pay faster. With your fingerprint." Below this is a blue button that says "Check Out Samsung Galaxy S5" and the text "Sign Up for PayPal". On the right, a Samsung Galaxy S5 is shown with the PayPal app interface. The app screen displays the user's name "Abbie Mills" and email "ab...ts@paypal.com", a large fingerprint icon, and the instruction "Swipe your finger to log in".

**SAMSUNG**

**Pay faster.**  
With your fingerprint.

[Check Out Samsung Galaxy S5](#)

Sign Up for PayPal

**SAMSUNG**

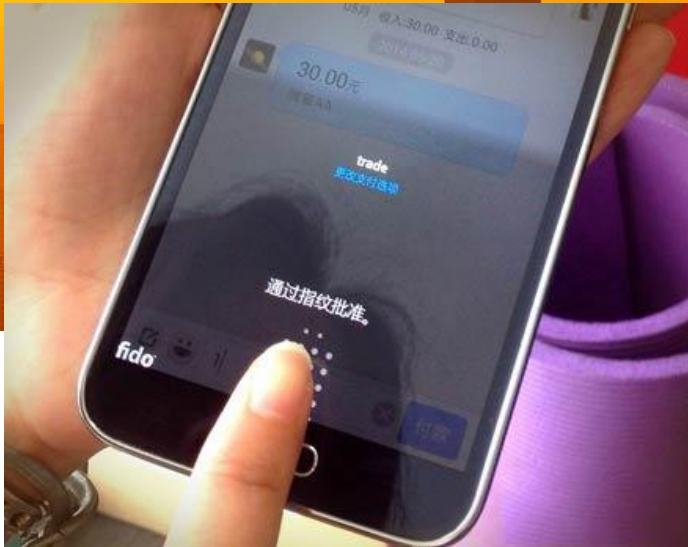
m.hudsonandve

**PayPal**

Abbie Mills  
ab...ts@paypal.com

Swipe your finger to log in

# Alipay – Nok Nok Labs



# Korea plenary, October

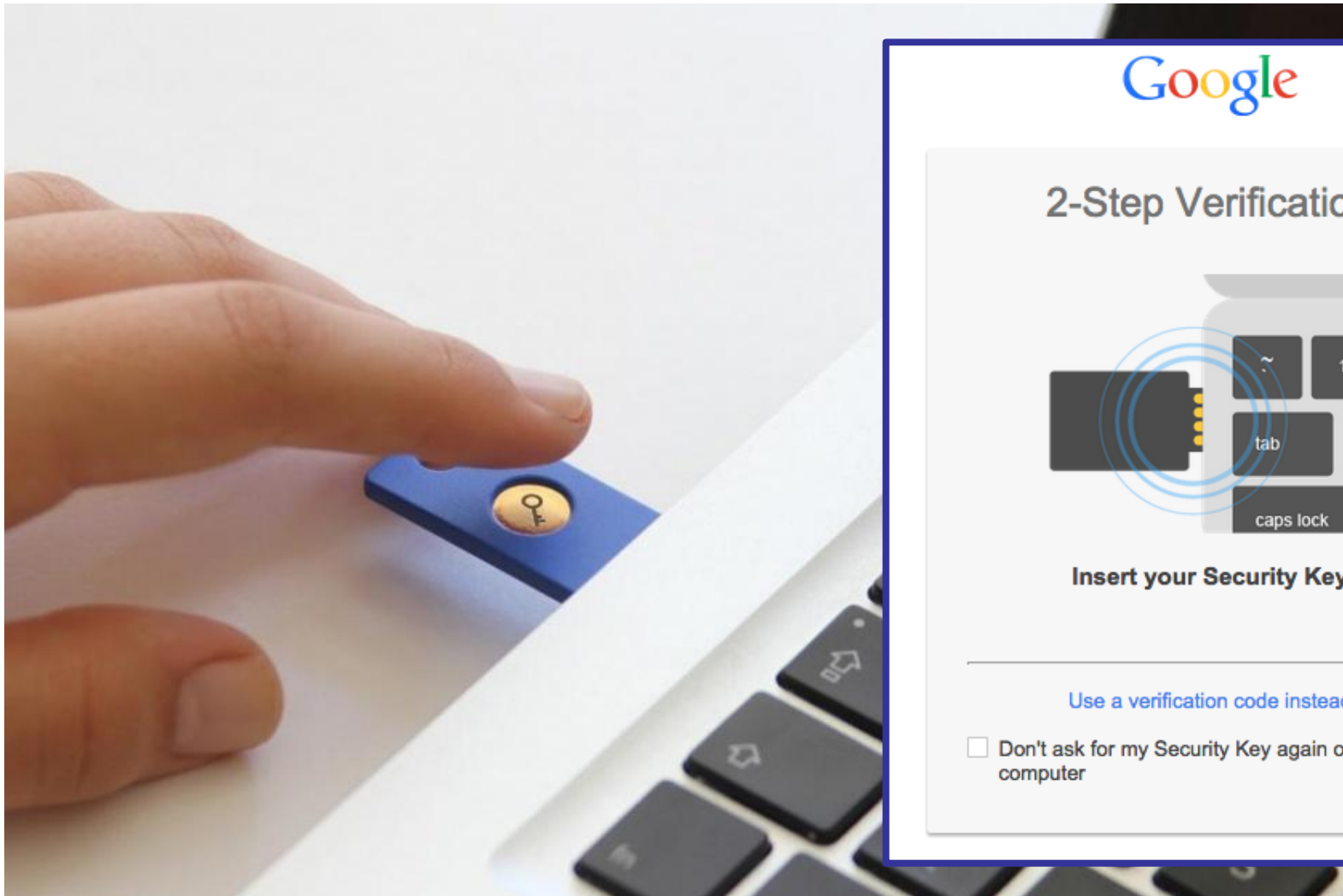


# Google – Yubico



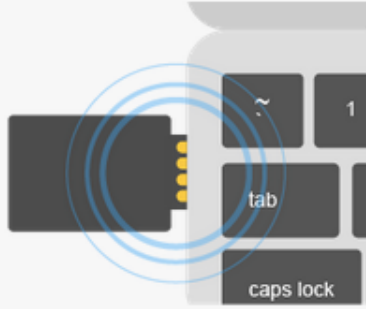


# Google – Yubico



Google

## 2-Step Verification



**Insert your Security Key**

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[Use a verification code instead](#)

Don't ask for my Security Key again on this computer

# Conclusion

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- New standards – large & small
- Formalises template storage
- Match on Device
- Leveraging personal hardware
- RP representation
- Membership road show 1Q15 TBC

TM

# Discussion



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