



# FIDO ALLIANCE: UPDATES & OVERVIEW

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EXECUTIVE DIRECTOR

# 250+ MEMBER & PARTNER ORGANIZATIONS GLOBALLY



FIDO board members include leading global brands and technology providers



+ SPONSOR MEMBERS

+ ASSOCIATE MEMBERS

+ LIAISON MEMBERS

# THE WORLD HAS A PASSWORD PROBLEM

**81%**

Data breaches in 2016 that involved **weak, default, or stolen passwords**<sup>1</sup>

**65%**

Increase in **phishing attacks** over the number of attacks recorded in 2015<sup>2</sup>

**1,093**

Breaches in 2016, a **40% increase** over 2015<sup>3</sup>



CLUMSY | HARD TO REMEMBER | NEED TO BE CHANGED ALL THE TIME

<sup>1</sup>Verizon 2017 Data Breach Report | <sup>2</sup>Anti-Phishing Working Group | <sup>3</sup>Identity Theft Resource Center 2016

# HOW OLD AUTHENTICATION WORKS



ONLINE CONNECTION



The user authenticates themselves online by presenting a human-readable “shared secret”

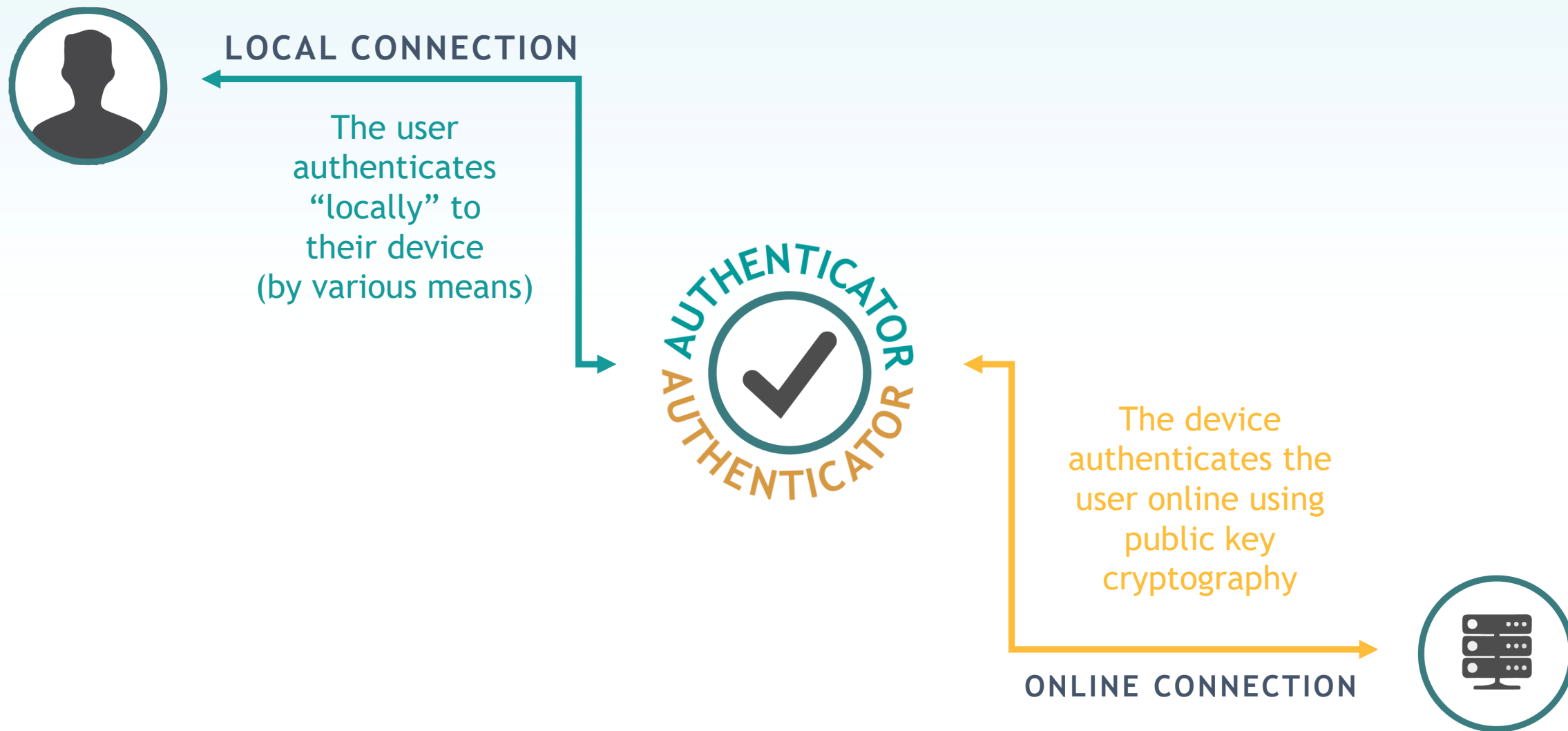


# THE NEW MODEL

**F**ast  
**ID**entity  
**O**nline

open standards for  
simpler, stronger authentication  
using public key cryptography

# HOW FIDO AUTHENTICATION WORKS



# SIMPLER AUTHENTICATION



Reduces reliance on complex passwords



Single gesture to log on



Works with commonly used devices

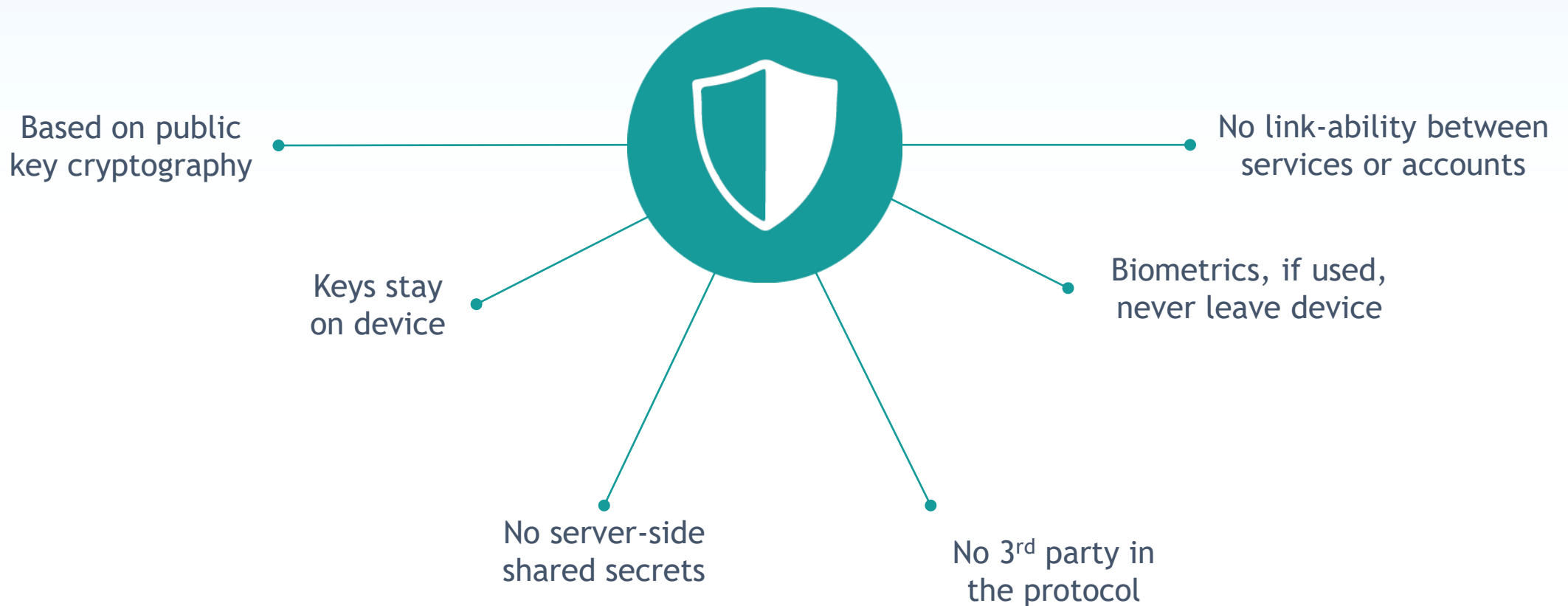


Same authentication on multiple devices



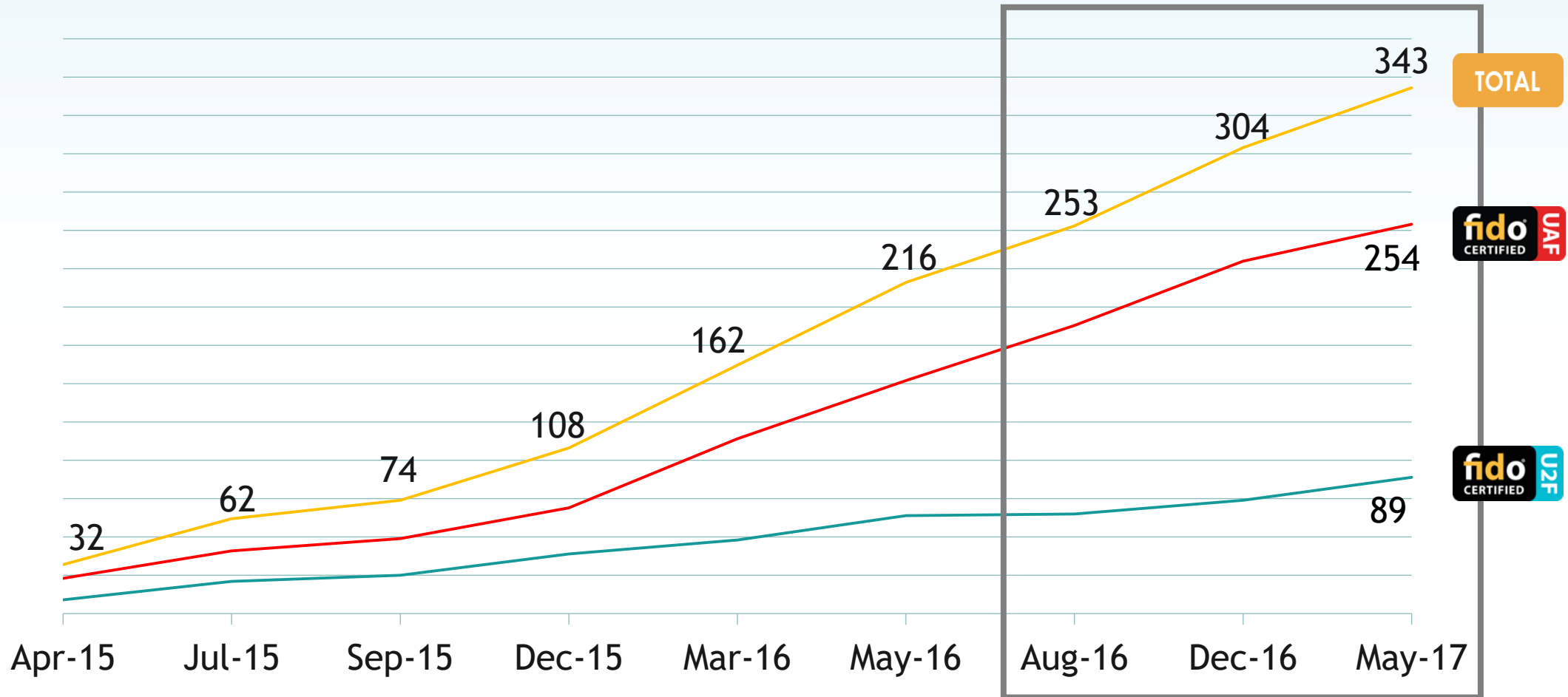
Fast and convenient

# STRONGER AUTHENTICATION





# BY THE NUMBERS: CERTIFICATIONS



# SAMPLE: FIDO-ENABLED SERVICES



AVAILABLE TO PROTECT  
**3.5 BILLION+**  
ACCOUNTS WORLDWIDE



# FIDO Specifications Update

**FIDO 1.1**  
(FIDO UAF  
FIDO U2F)

**CTAP\***  
(FIDO)

**WebAuthn\***  
(FIDO+W3C)

\*FIDO 2 Project: In Development

# WEB AUTHENTICATION SPECIFICATION BRINGS FIDO TO THE PLATFORM

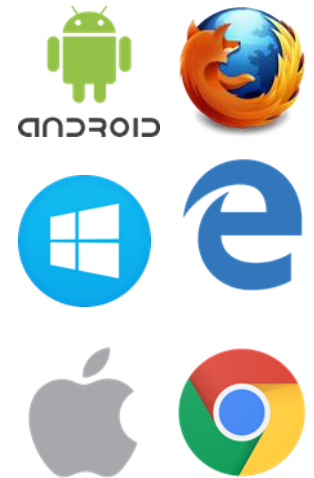


World Wide Web Consortium (W3C) developing a Web Authentication specification based on 3 FIDO Alliance technical specifications



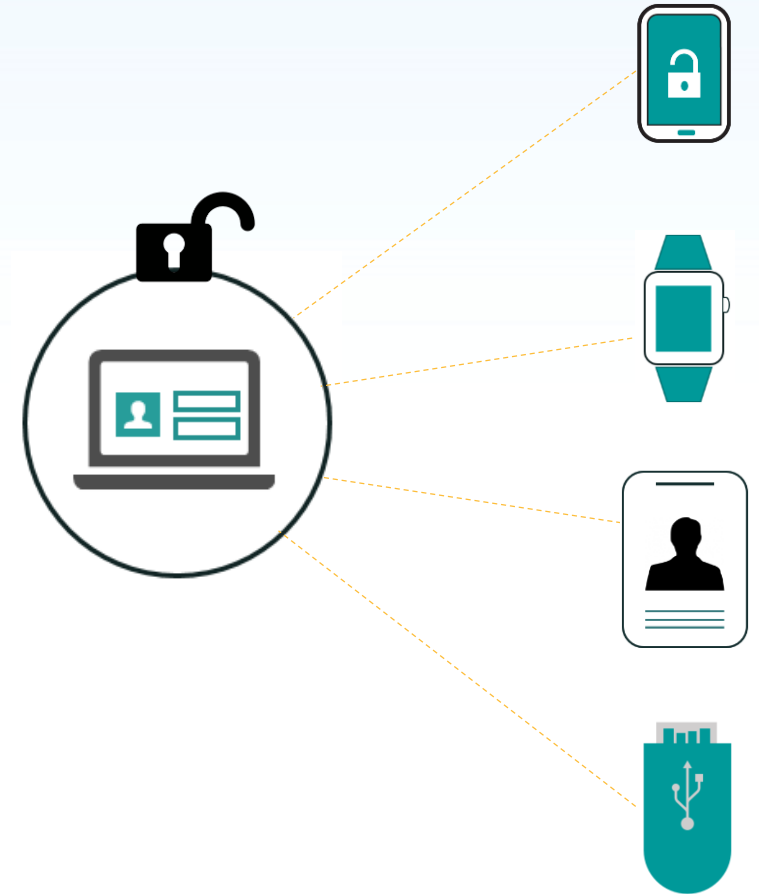
Standard web API enables web apps to move beyond passwords and offer FIDO strong authentication across all web browsers and web platforms

Sets model for native platforms to follow



# CLIENT-TO-AUTHENTICATOR PROTOCOL (CTAP)

- CTAP **expands** browsers and operating systems ability to talk to external authenticators like USB keys, NFC and Bluetooth-enabled devices
- Use a wearable or mobile device, for example, to log in to a computer, tablet, IoT device, etc.
- Removes requirement to re-register on every device



# ADDRESSES BROADER ARRAY OF USE CASES

FIDO standards provide support for user-friendly, privacy-aware user experiences across platforms to meet varying requirements

## PASSWORDLESS EXPERIENCES

- Biometrics authn via mobile device
- Biometric authn via PC
- Biometrics authn to PC via mobile device

## SECOND FACTOR EXPERIENCES

- External token to PC (USB, BLE)
- External token to mobile device (NFC/BLE)
- Embedded second factor on PC



# FIDO IMPACT ON POLICY

FIDO specifications offer governments newer, better options for strong authentication - but governments may need to update some policies to support the ways in which FIDO is different

## **POLICY CHANGES ARE HAPPENING TODAY:**

Example 1: U.S. NIST/OMB guidance

Example 2: European Banking Authority's PSD2

Example 3: e-IDAS

Example 4: Taiwan's Guideline for e-Banking Security Control

Example 5: South Korea



**As technology evolves,  
policy needs to evolve with it.**

# Join the **FIDO** Ecosystem

Build FIDO Certified Solutions

Deploy

Join the Alliance

Take Part in FIDO Events

[www.fidoalliance.org](http://www.fidoalliance.org)





# THANK YOU

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