Fast IDentity Online Alliance

LIZ VOTAW
The Fast IDentity Online (FIDO) Alliance is an open industry association of nearly 200 global member organizations.
✓ Services/Networks
✓ Devices/Platforms
✓ Vendors/Enablers

Board Members

-Alibaba Group
-MasterCard
-Bank of America
-PayPal
-VISA

-NTT docomo
-NTT

-LeNOVO
-SAMSUNG

-CrucialTec
-IdentityX

-ARM
-NOK NOK
-NXP

-Qualcomm
-RSA
-Synaptics
-yubico
FIDO Alliance Mission

1. Develop Specifications
2. Operate Adoption Programs
3. Pursue Formal Standardization
The world has a **PASSWORD PROBLEM**
ONE-TIME PASSCODES

Improve security but aren’t easy enough to use

- SMS Reliability
- Token Necklace
- User Confusion
- Still Phishable
WE CALL OUR NEW MODEL Fast IDentity Online (FID Online) for online authentication using public key cryptography.
HOW THE OLD AUTHN WORKS

The user authenticates themselves online by presenting a human-readable secret.
HOW FIDO AUTHN WORKS

The user authenticates "locally" to their device by various means

The device authenticates the user online using public key cryptography
Passwordless Experience (UAF Standards)

1. Authentication Challenge
2. Biometric Verification*
3. Authenticated Online

Second Factor Experience (U2F Standards)

1. Second Factor Challenge
2. Insert Dongle* / Press Button
3. Authenticated Online

*There are other types of authenticators
No 3rd Party in the Protocol

No Secrets on the Server Side

Biometric Data (if used) Never Leaves Device

No Link-ability Between Services

No Link-ability Between Accounts
FIDO 1.0 TIMELINE

- Alliance Announced: FEB 2013
- FIDO Ready Program: DEC 2013
- First UAF & U2F Deployments: FEB-OCT 2014
- FIDO 1.0 FINAL Specification: DEC 9 2014


2015 FIDO ADOPTION

“Microsoft Announces FIDO Support Coming to Windows 10”, Feb 23, 2015

“Qualcomm launches Snapdragon fingerprint scanning technology”, March 2, 2015

“Google for Work announced Enterprise admin support for FIDO® U2F “Security Key”, April 21, 2015

DOCOMO is first to offer multiple services using FIDO UAF standard, multiple FIDO certified devices, and multiple biometrics (fingerprint, iris scan) May 26, 2015

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FIDO Alliance Announces Government Membership Program
– US and UK Government Agencies are First to Join

"The fact that FIDO has now welcomed government participation is a logical and exciting step toward further advancement of the Identity Ecosystem; we look forward to continued progress."