

"The FIDO Alliance Today: status and news" November 20, 2015 | Tokyo, Japan

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alliance authentication

Why FIDO?

Data Breaches...

>780 data breaches in 2014

>1 billion records 2012-2014

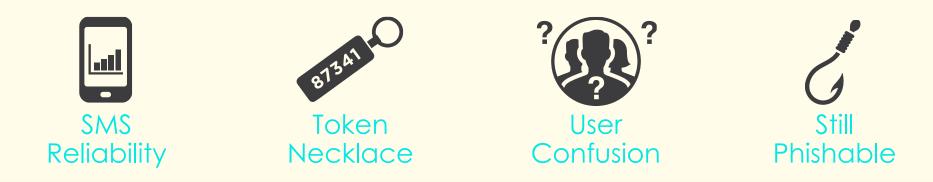
>\$3.5 million cost/breach

"76% of 2012 network intrusions exploited weak or stolen credentials" 2013 Data Breach Investigations Report



The world has a **PASSWORD PROBLEM**

ONE-TIME PASSCODES Improve security but aren't easy enough to use





WE CALL OUR **NEW MODEL** Fast IDentity Online

online authentication using public key cryptography

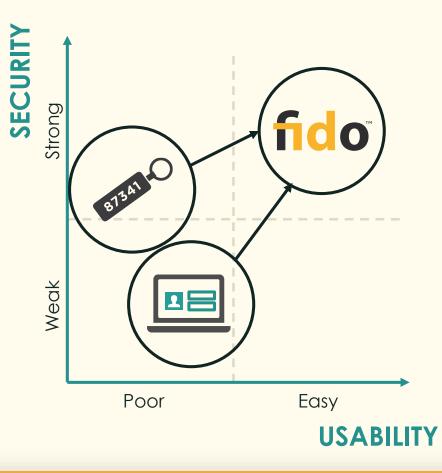
THE OLD PARADIGM



SECURITY

USABILITY

THE FIDO PARADIGM

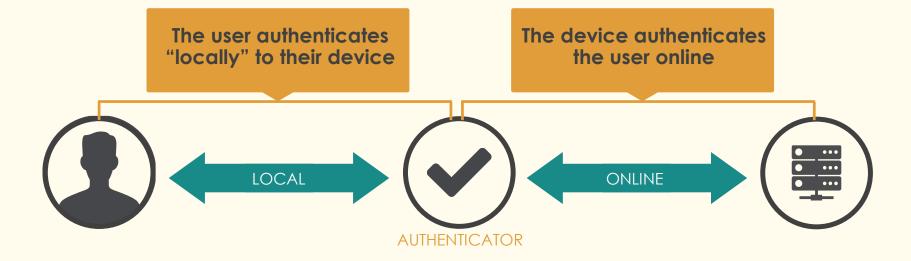


HOW OLD AUTHN WORKS

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

ONLINE

HOW FIDO AUTHN WORKS



online authentication using public key cryptography

Nindow Helo

Passwordless Experience (UAF Standards)



Authentication Challenge



Biometric Verification*

Second Factor Experience (U2F Standards)



Authenticated Online

Second Factor Challenge

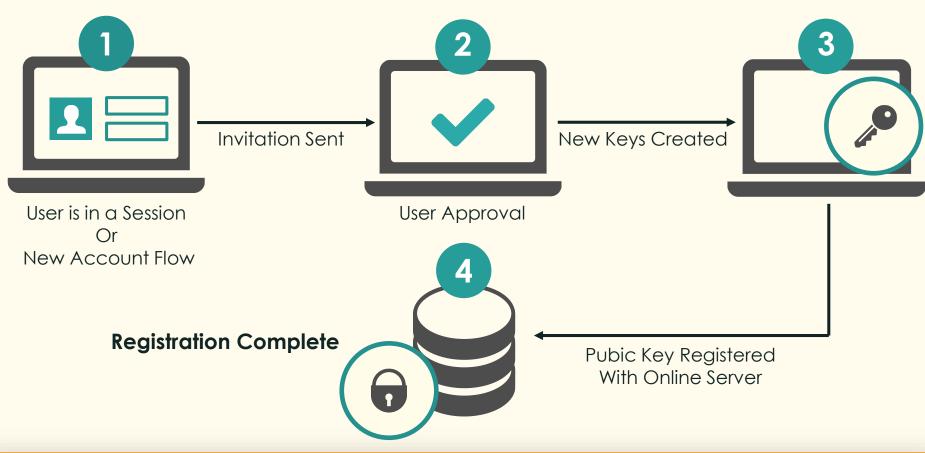
*There are other types of authenticators





Authenticated Online

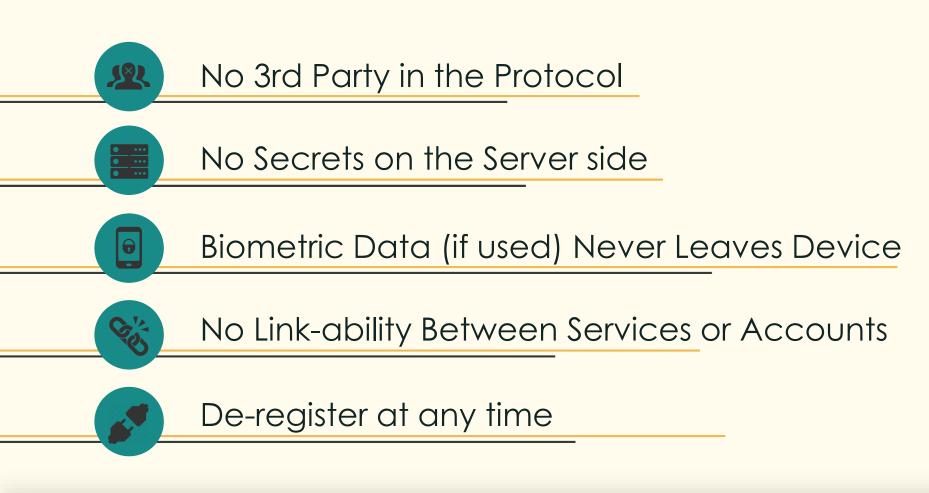
FIDO Registration



FIDO Authentication



USABILITY, SECURITY and PRIVACY



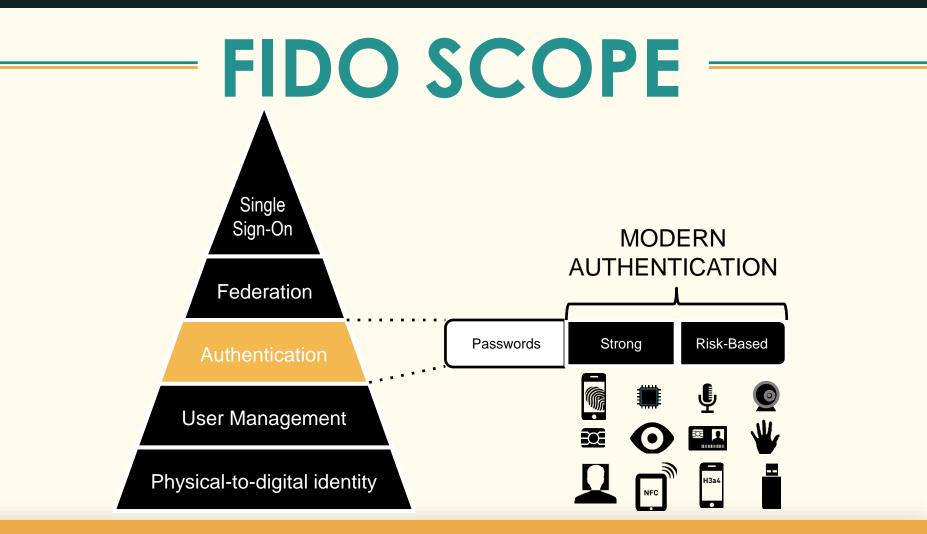
Better Security for online services
 Reduced cost for the enterprise
 Simpler and Safer for consumers

alliance simpler alliance

Who is FIDO Alliance?

The FIDO Alliance is an open industry association with **nearly 250** global member organizations





FIDO Alliance Mission

Develop Specifications

Operate Adoption Programs

2

Pursue Formal Standardization

3



✓ Public Sector



Government Members

"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." -- Mike Garcia, NSTIC NPO







Bundesamt für Sicherheit in der Informationstechnik



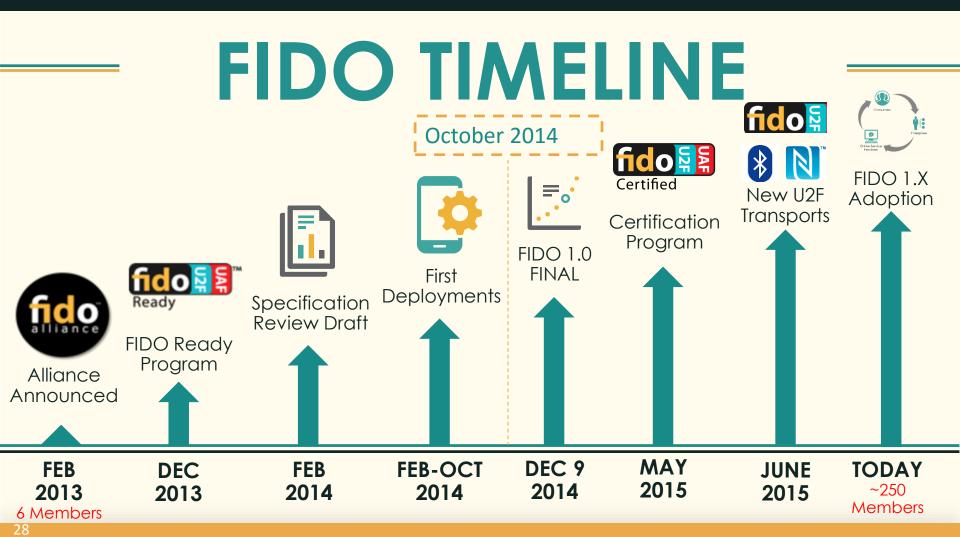
✓ Industry Partners

Our mission is highly complementary to many other associations around the world. We welcome the opportunity to collaborate with this growing list of industry partner organizations.



alliance authentication

What's New?



2014 FIDO ADOPTION "Secure Consumer Payments Enabled for Alipay Customers with Easy-to-Use Google Fingerprint Sensors on Recently-Launched Samsung Galaxy S5", September 17, 2014 F Alibaba Group "Google Launches Security Key, World's First Deployment of Fast Identity Online Universal Second Factor (FIDO U2F) Authentication", October 21. 2014 "PayPal and Samsung Enable **PayPal**[®] **Consumer Payments with Fingerprint** Authentication on New Samsung Galaxy S5", Feb 24, 2014

2015 FIDO ADOPTION



Deployments are enabled by **FIDO CertifiedTM Products** available today



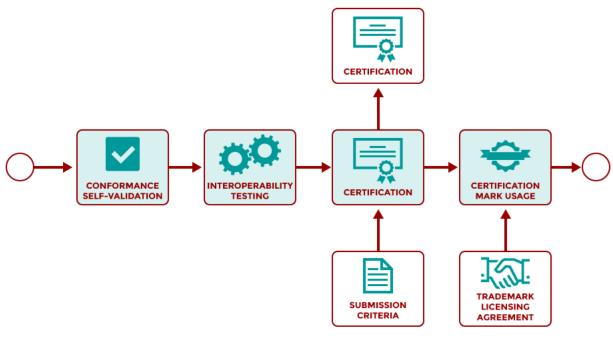


- $\checkmark\,$ Available to anyone
- ✓ Ensures interoperability
- ✓ Promotes the FIDO ecosystem

Steps to certification:

- 1. Conformance Self-Validation
- 2. Interoperability Testing
- 3. Certification Request
- 4. Trademark License (optional)

fidoalliance.org/certification



FIDO Alliance Mission



Develop Specifications

FIDO 1.X - UAF & U2F Technology Working Groups

Continue to release updates and enhancements such as de-registration and iOS support in UAF and NFC+BLE transports for U2F

FIDO 2.0 Technology Working Group

"The mission of the new FIDO 2.0 Specification Technology Working Group is to consider future requirements, and to ensure widespread interoperability within the authentication ecosystem among devices, clients, and servers."

Announcement

FIDO Authentication Poised for Continued Growth as Alliance Submits FIDO 2.0 Web API to W3C

- Today we announce the W3C has accepted our submission
- Specifications required to define a FIDO-compliant Web API
- Designed to extend FIDO's existing reach to all platforms
- OEM community should begin to plan their support now
- RP community should deploy FIDO 1.x now knowing FIDO standards are "future proof" -- strategically positioned as the de facto authentication scheme for the Web & OS Platforms

Announcement-

From W3C:

"Standardizing strong authentication in the Web Platform will help us to improve user and application security by moving beyond passwords. We thank FIDO Alliance members for bringing their work to W3C," said Wendy Seltzer, W3C Technology and Society Domain Lead.

_____Announcement = From FIDO Alliance President:

"The mission of the FIDO Alliance has always been stronger, simpler authentication: stronger to help protect data, and simpler to address the problems users face trying to create and remember multiple usernames and passwords. In order to achieve this mission, FIDO authentication needs to be available everywhere...on all the devices you use and with all of the apps & services you use," said FIDO Alliance president Dustin Ingalls. "With FIDO support in the browser and in the platform, it will be easier than ever for apps and services to take full advantage of FIDO authentication helping to free the world from passwords. Today's announcement showcases how the work we've been doing in FIDO 2.0, and the submissions we are making to W3C will help us meet our goal of enabling FIDO authentication everywhere."

FIDO Alliance Mission



Operate

FIDO Certification™ Program

Adding "security certification program" and exploring possible biometrics program

FIDO UAF Metadata Service

Launch of the UAF Metadata Service; will be adding Attestation Service for U2F

FIDO Alliance Liaison Program

Launched new program to foster collaboration, expecting organic growth

Adoption Programs FIDO Marketing & Education Programs

More webinars, seminars, conference talks, and targeted outreach – esp. in APAC

FIDO Alliance Mission



Submit mature technical Specification(s) to recognized SDO's...

- We will evaluate maturity for this purpose after more deployments
- We will use the Liaison Program to collaborate with SDO's, e.g. W3C
- All other specifications for FIDO 1.x & 2.x remain in the Alliance today

Pursue Formal Standardization

Relying Parties – deploy FIDO 1.X now
OEMs – plan for FIDO 2.x now
Vendors – get FIDO Certified™

simpler stronger alliance authentication

JOIN THE FIDO ECOSYSTEM

simpler stronger alliance authentication

JOIN THE FIDO ALLANCE

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Thank You