

"The FIDO Alliance Today"

Brett McDowell, Executive Director, FIDO Alliance brett@fidoalliance.org

- AGENDA

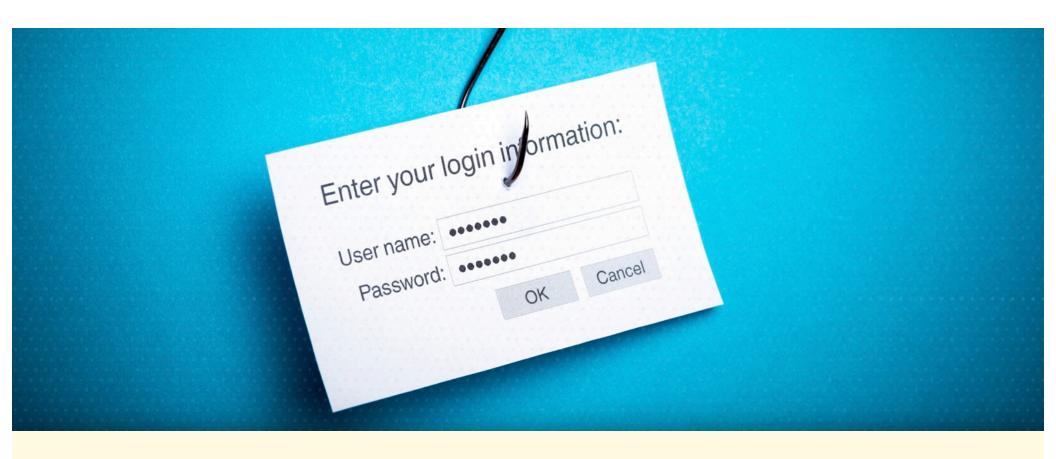
The Problem

The Solution
The Alliance
Updates

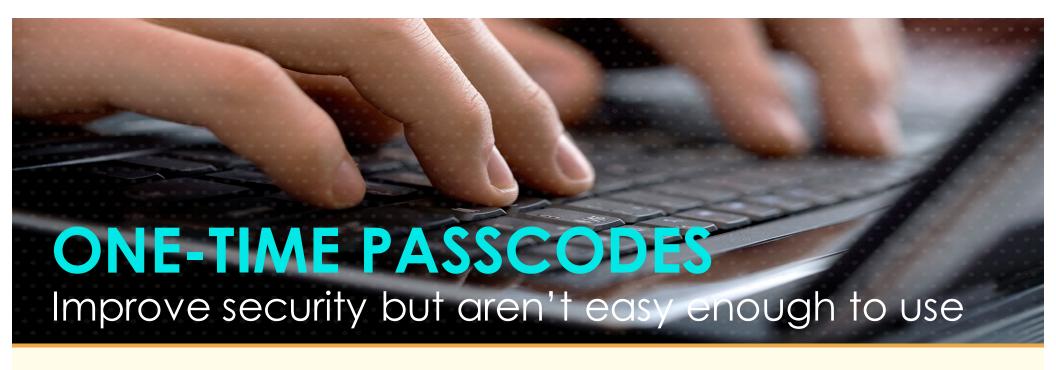
Data Breaches...

- 783 data breaches in 2014
 - >1 billion records since 2012
 - \$3.5 million cost/breach





The world has a PASSWORD PROBLEM



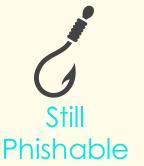




Token Necklace



User Confusion







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THE OLD PARADIGM

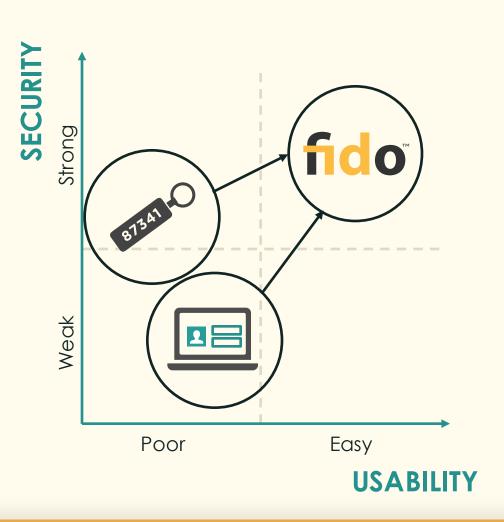




SECURITY

USABILITY

THE FIDO PARADIGM

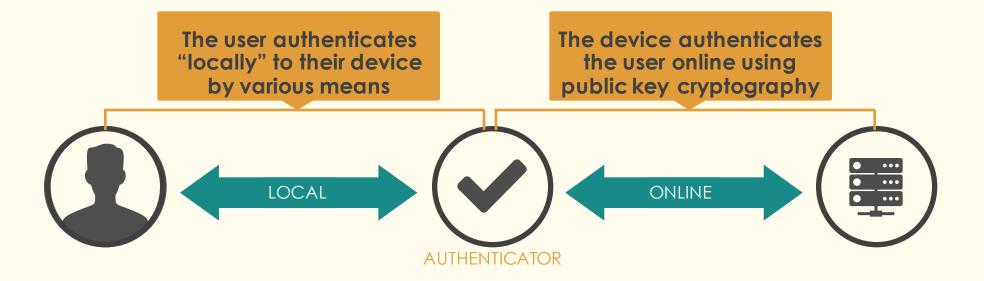


HOW OLD AUTHN WORKS

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



HOW FIDO AUTHN WORKS





Passwordless Experience (UAF Standards)







Biometric Verification*



Second Factor Experience (U2F Standards)



Second Factor Challenge



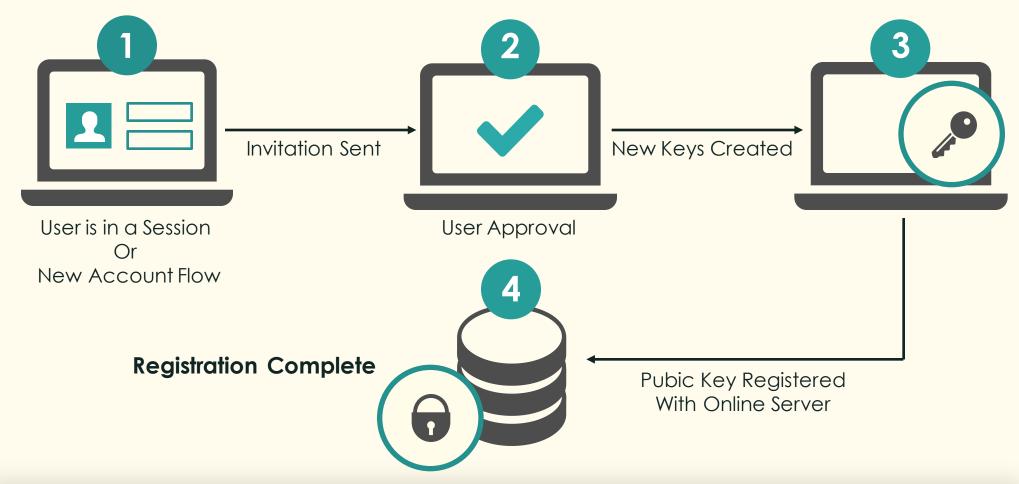
Insert Dongle* / Press Button



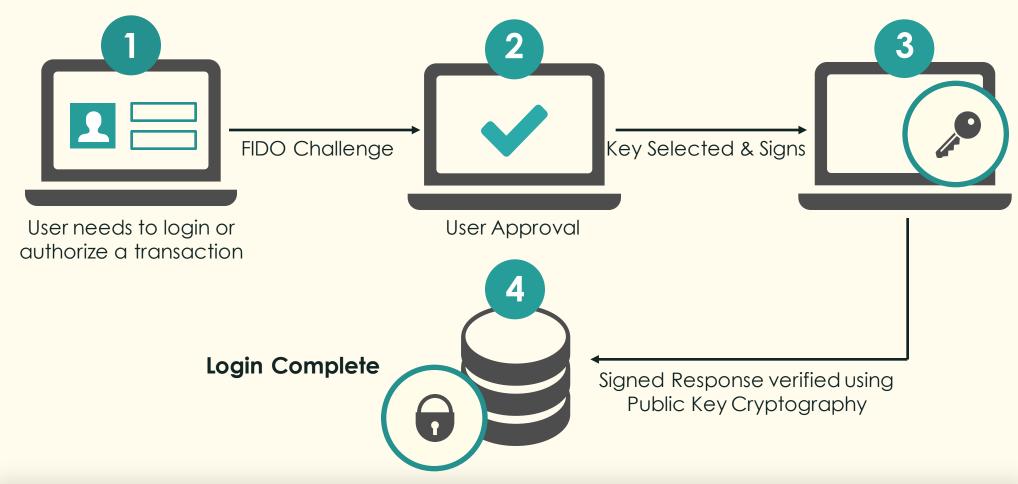
Authenticated Online

^{*}There are other types of authenticators

FIDO Registration



FIDO Authentication







No 3rd Party in the Protocol



No Secrets on the Server side



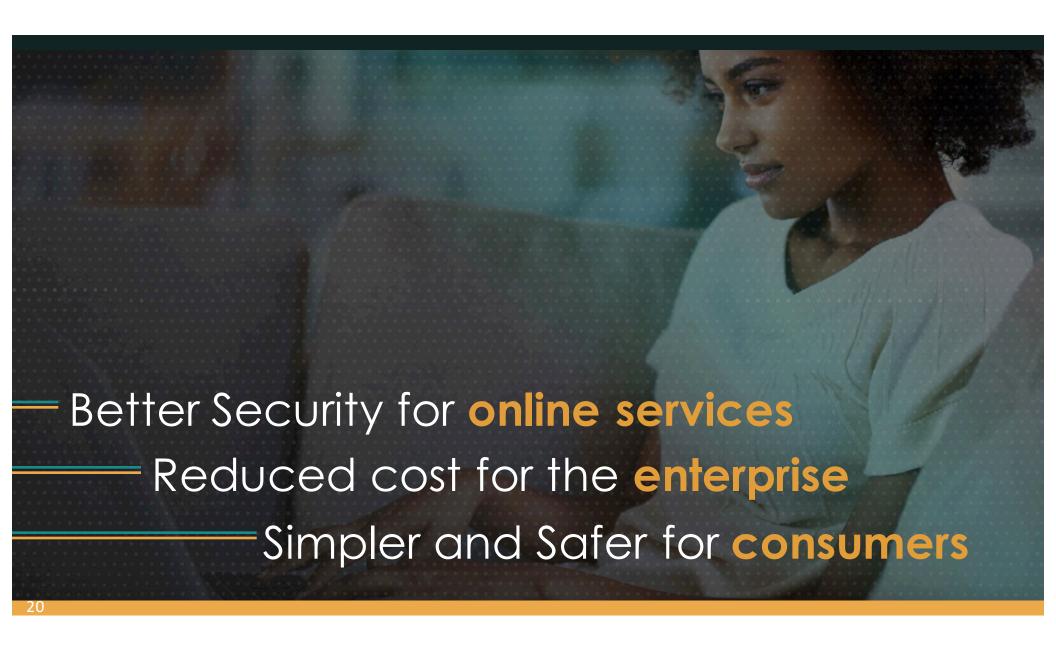
Biometric Data (if used) Never Leaves Device



No Link-ability Between Services



No Link-ability Between Accounts



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- ✓ Services/Networks
- ✓ Devices/Platforms
- ✓ Vendors/Enablers



Board Members























































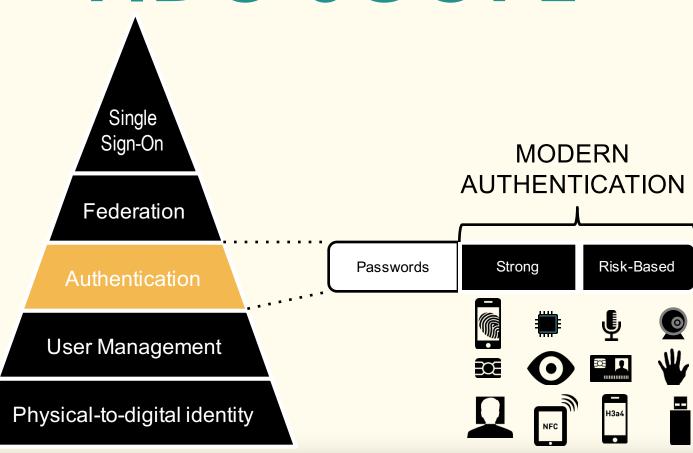
Develop Specifications 2

Operate Adoption Programs



Pursue Formal Standardization

FIDO SCOPE



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FIDO TIMELINE



-2014 FIDO ADOPTION -

Google

"Secure Consumer Payments Enabled for Alipay Customers with Easy-to-Use Fingerprint Sensors on Recently-Launched Samsung Galaxy \$5", September 17, 2014



"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 Consumer Payments with Fingerprint Authentication on New Samsung Galaxy \$5", Feb 24, 2014

-2015 FIDO ADOPTION -

"Today, we're adding Universal 2nd Factor (U2F) security keys as an additional method for two-step verification. giving you stronger authentication protection." August 12, 2015

"Google for Work announced **Enterprise admin support for** FIDO® U2F "Security Key". April 21, 2015



Snapdragon fingerprint scanning technology". March 2, 2015

Microsoft

OLIALCONNO.

"Microsoft Announces FIDO **Support Coming to Windows 10"** Feb 23, 2015

Google

dŏcomo

"Largest mobile network in Japan becomes first wireless carrier to enhance customer experience with natural, simple and strong ways to authenticate to DOCOMO's services using FIDO standards" May 26, 2015

Dropbox

Bank of America.



"the technology supporting fingerprint sign-in was built according to FIDO (Fast IDentity Online) standards." **September 15, 2015**

"GitHub says it will now handle what is called the FIDO **Universal 2nd** Factor, or U2F, specification" October 1, 2015

GitHub



























































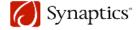




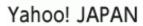














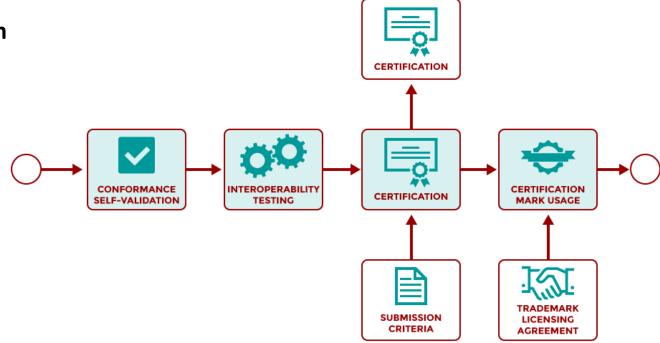


- ✓ Available to anyone
- ✓ Ensures interoperability
- ✓ Promotes the FIDO ecosystem

Steps to certification:

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

fidoalliance.org/certification



New in 2015



Government Members

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

Government Agencies to Participate in Development of FIDO Standards for Universal Strong Authentication

"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."











JOINTHE FIDO ECOSYSTEM



JOINTHE FIDO ALLIANCE



EXPERIENCE SIMPLER, STRONGER AUTHENTICATION