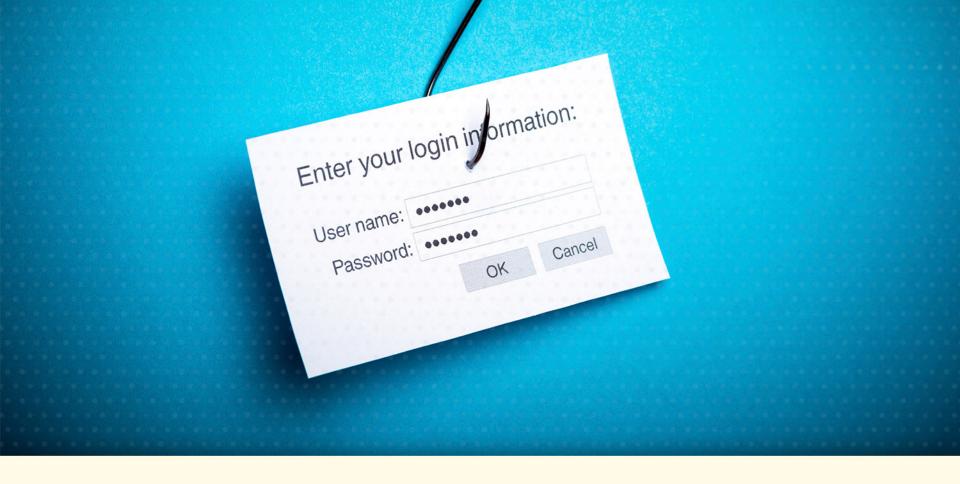
## alliance simpler alliance

**The Authentication Revolution** 



### We have a **PASSWORD PROBLEM**

# Data Breaches are out of control

### Anthem now says 78.8M were affected by breach

Hacked

### MORE LIKE THIS



Health insurer Anthen discloses customer an employee data breach



State-sponsored Chine hackers suspected in A breach

U.S. states want Anthem to provide quickly to customers

#### on IDG Answers 🔶

Mitt Romney thinks we need more do you agree?

Simplify IT with the Cisco Unified

### JPMorgan Chase Hacking Affects 76 Million Households

y JESSICA SILVER-GREENBERG. MATTHEW COLDSTEIN and NICOLE PERLROTH OCTOBER 2, 2014 12:50 PM 528 Comments

Hev

save

A lo Son Not







# TOO MANY TO REMEMBER, DIFFICULT TO TYPE, AND TOO VULNERABLE



**Re-used** 

Phished

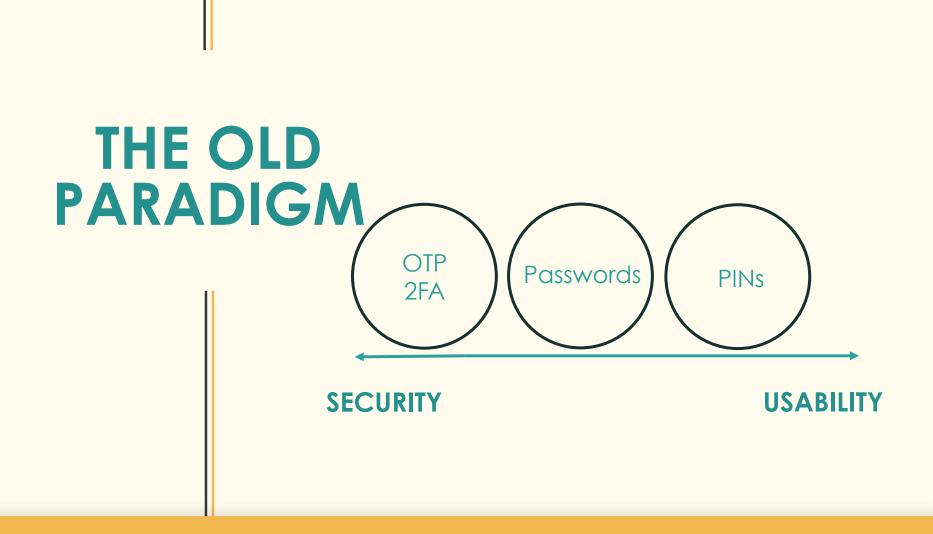


Keylogged

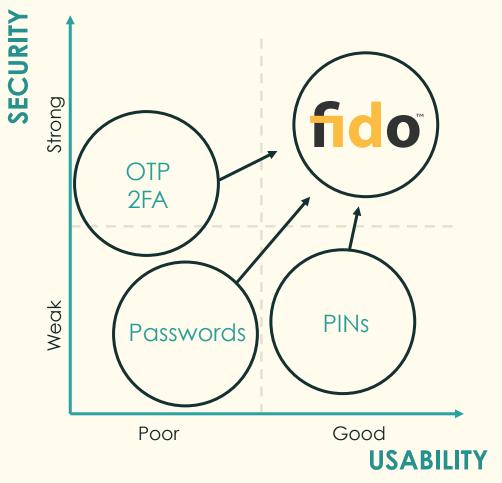
A Password	
Remember me	LOGIN

# Adding more authentication has largely been **rejected by users**

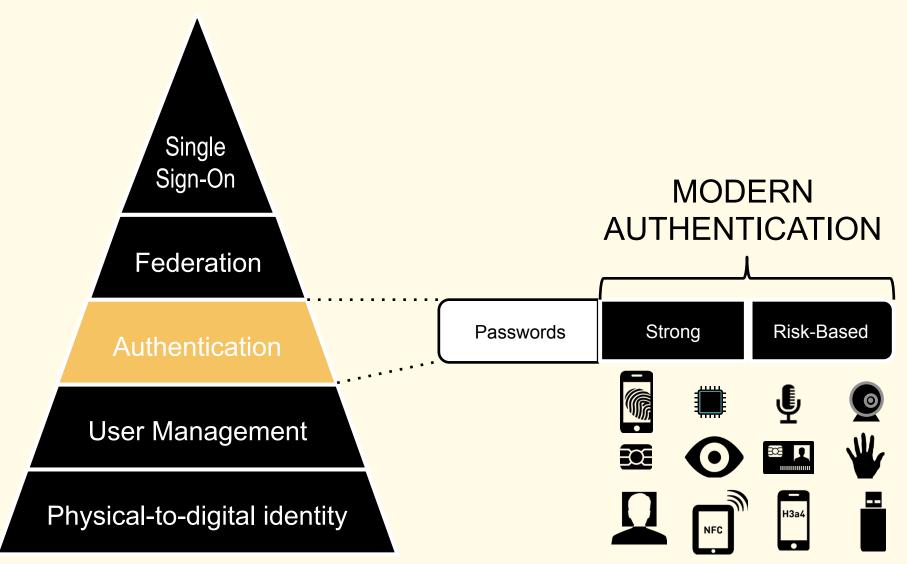
# WE NEED A **NEW MODEL** Fast Dentity Online



## THE FIDO PARADIGM



8



HOW DOES FIDO WORK? =



# online authentication using public key cryptography

### **Passwordless Experience (FIDO UAF Standards)**



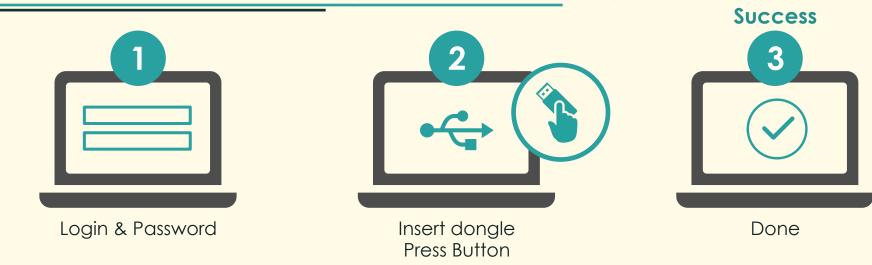


User Authentication

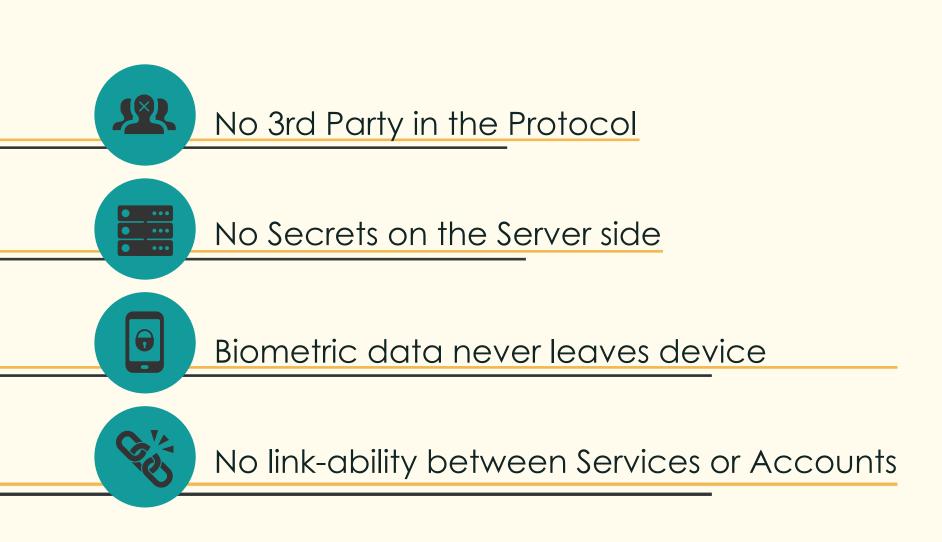


Done

### Second Factor Experience (FIDO U2F Standards)



# USABILITY, SECURITY and PRIVACY



# Better Security for online services Reduced cost for the enterprise Simple & Safe for consumers

The FIDO Alliance is an association of more than 180 diverse corporate members

- ✓ Online Services
- ✓ Chip Providers
- ✓ Device Providers
- Biometrics Vendors
- ✓ Enterprise Servers
- ✓ Platform Providers

lliance

Board Members



# **FIDO in 2015**

107

106

### The significance of early 2015 announcements

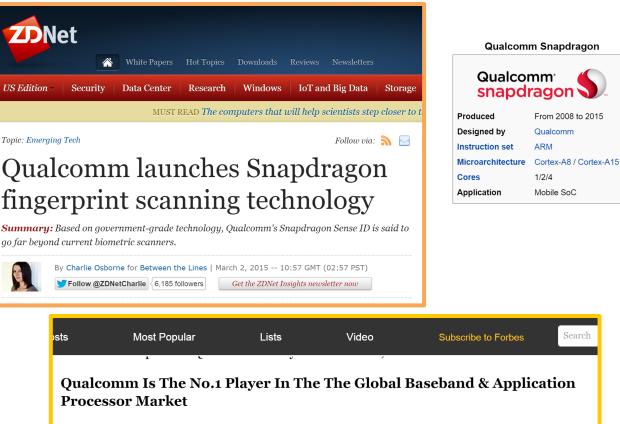


.√**」**∃:₹⊂¶: TRENDING NOW NASA's wild experimental plane wing has 18 propellers attached to it TECH \_ SCIENCE \_ ENTERTAINMENT \_ DESIGN \_ BUSINESS \_ US & WORLD LONGFORM -VIDEO . REVIEWS \_ PREVIOUS STORY NEXT STORY FCC chairman tries to convince Congress that Obama US scientists can soon run experiments or doesn't have a secret plan... marijuana Windows Hello lets you sign into Windows 10 devices with your face or By Tom Warren on March 17, 2015 12:00 pm 🔰 @tomwarren HOME BLOGS VIDEOS WINDOWS.COM NEWSROOM Windows For Your Business Microsoft Announces FIDO Support Coming to Windows 10 February 13, 2015 by Dustin Ingalls // PC // 6 Comments

- ✓ Market leader to ship FIDO client
- ✓ 85+ OEMs as of Q4
- ✓ >1 billion Android devices shipped
- Innovative sensor



FIDO in Snapdragon



Qualcomm is currently the leader in the global cellular baseband chip market as well as the smartphone applications processor market, with a <u>64% and 51%</u> share in the two segments, respectively. According to research firm Strategy Alalytics, LTE basebands

- ✓ First healthcare deployment
- Physician access to health records
- ✓ up to 50 million
   Healthcare users



### FIDO in Healthcare

FIDO Allia	ation to F	ibers MedImpa	s Tech Personal Finance act and Nok Nok I Industry First for	_abs to Deliv		U.S. Editio
The FIDO (Fast IDentit	y Online) Alliance (h	ttps://www.fidoalliance.org/), an i	ndustry consortium launched in 2013 to	revolutionize online security	WIAKKEIV with open standards f	for simpler
Me <b>ģi</b> i	mpa	ct	MedImp	act Direct Client	Member Pł	ems and N enable who neec DO Vliance f FIDO yments of
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Press Releases View new and archived corporate press releases.						
Events		A Modern	act First in Hoalthea	ro to Doploy El		
Publications		MedImpact First in Healthcare to Deploy FIDO Authentication, with Nok Nok Labs Enabling				
Experts		Physicia	n Access Portal			
ndustry Resources	5	Print National PBM to Provide FIDO Authentication for up to 50 Million Healthcare Consumers				
Multimedia		San Diego—March 23, 2015				

- Google for Work announced Enterprise admin support for FIDO® U2F "Security Key" – April 21
- Google for Work is used by over 5 million businesses worldwide
- "The Security Keys are a great step forward, as they are very practical and more secure." – Woolsworth IT



FIDO in Enterprise

#### 2,300,578 +2,710 (4 amazon Brett's Amazon.com Today's 1:26 / 1:45 Shop by "FIDO U2F Securi All Search Department • 1-16 of 18 results for "FIDO U2F Security Key" Show results for FIDO U2F Security Key fido Electronics > by Yubico Security Access-Control \$17.99 *Irime* Keypads In Stock Computers & Accessories > More Buying Choices SecureDigital Memory Cards \$10.00 new (2 offers) USB Flash Drives + See All 4 Departments FIDO U2F Security Key by Plug-up International Refine by \$5.99 Amazon Prime More Buving Choices Aprime Eligible \$5.99 new (2 offers) Brand Limefuel fido Plug-up International

### The Key for working smarter, faster and more securely

**S+1** < 83

Posted: Tuesday, April 21, 2015



Posted by Eran Feigenbaum, Director of Security, Google for Work

It's easier than ever to share ideas across the world. But as technology keeps advancing to connect us, so do the techniques of those with bad intentions. The number of records breached in 2014 was staggering; weak usernames and passwords remain the leading cause. The introduction of 2-Step Verification added a layer of security for your Google Account, but we knew more could be done.

That's why Google, working with the FIDO Alliance standards organization, developed the Security Key - an actual physical key used to access your Google Account. It sends an encrypted signature rather than a code, and ensures that your login cannot be phished. And using this key saves you time - when you need to verify your Google Account on a Chrome browser, the key's light will flash. Just tap it and the signature sends automatically. In fact, when we rolled the Security Key out to Googlers last year, they loved that it was so much faster than when they had to enter a code.



### New Google Apps controls to manage Security Keys

Businesses like Yelp and Woolworths started piloting the Security Key at work and have been looking for ways to



- ✓ Governments worldwide are looking at FIDO
- ✓ FIDO featured at White House Summit
- ✓ No collaboration framework...

lian

FIDO & Government

NEWS & MORE PRESS RELEASES EVENTS STA

STAY INFORMED MEDIA KIT

### Governments Prioritize Strong Authentication in Cybersecurity and Consumer Protection

by Ramesh Kesanupalli, FIDO Alliance Vice President



2013 Data Breach Investigations Report (conducted by Verizon in concert with the U.S. Department of Homeland Security) noted that <u>76% of 2012 network</u> <u>intrusions exploited weak or stolen credentials.</u>

-- NIST Roadmap for Improving Critical Infrastructure Cybersecurity, 12-Feb-2014

## New Government Membership Class

Reflecting an increased focus on Government collaboration worldwide

Details are now published in the new FIDO Alliance Membership Agreement

## A range of FIDO PRODUCTS is now available

Online Services	E Alibaba.com	PayPal	Google	() PushCoin
Chip Providers	ARM	infineon	NP	
Device Providers		SAMSUNG FEIT		Sonavation
Biometrics Technology Providers	AGNITIO Cru Øgis	ucialTeč 👽 🖫		



Enterprise Servers	Nok Nok	DUC	e Entersekt	F SurePass	CDevs
Open Source	Google	e	yubio	0	WordPress
Mobile Apps/Clients	SAMSUNG	Nok Nok	e Entersekt	Google	
WWW Browsers				٩	

### PayPal Use a verification code instead Don't ask for my security key again on this SAMSUNG computer Nok Nok Alibaba Group Synaptics<sup>®</sup> 🖬 P 🗈 1 55% 21:35 GOOS**PayPal** bico Pat Johnson Samsung Galaxy S6 will feature touch Plugpat@example.com sensor for fingerprint scanning Written by Aleksa Miladinovic 🥝 Change login option Keep me logged in on this device 2014 Deployments Log in to your account with your fingerprint.

2-Step Verification

Tip: You may need to tap or re-insert your security key.

Confirm using your security key

- **PayPal** continues FIDO enablement in improved mobile wallet app.
- Google has FIDO in Chrome and  $\checkmark$ 2-Step Verification.
- **Samsung** adds touch to Galaxy® S6  $\checkmark$ and pre-loads its own FIDO client

# JOIN THE Authentication Revolution

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### **EXPERIENCE SIMPLER, STRONGER AUTHENTICATION**