

EXPERIMENTAR SENCILLO, AUTENTICACIÓN FUERTE

¿Quién es el Gringo?

- John Bradley
- Yo trabajo en la Oficina CTO de Ping Identity
- Yo soy un autor de OAuth y OpenID Connect
- Yo vivo en Santiago de Chile
- En palabras de mi esposa "Hablar Inglés por favor"

Data breaches

are out of control





■ 528 Comments

IN 2014...

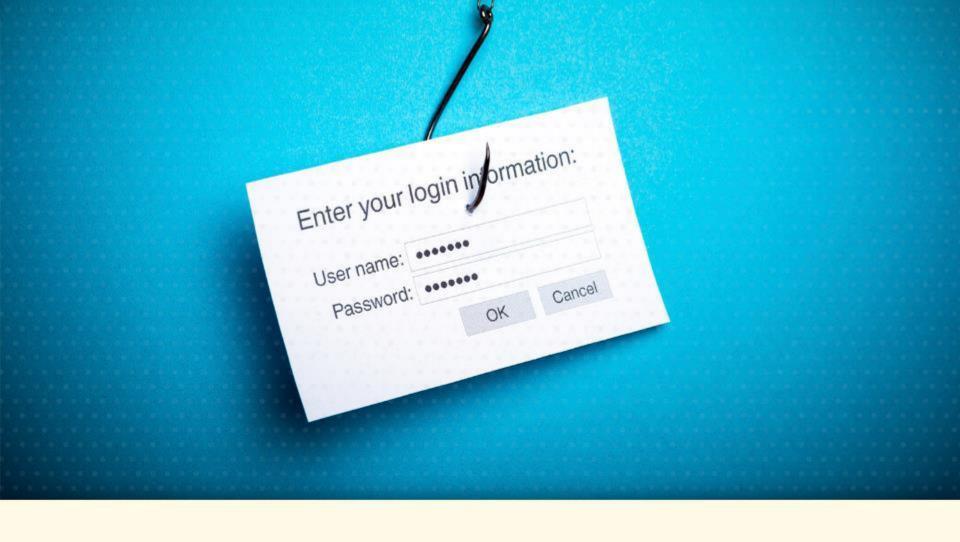
708 data breaches

82 million

personal records stolen

\$3.5 million

average cost per breach



We have a **PASSWORD PROBLEM**

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



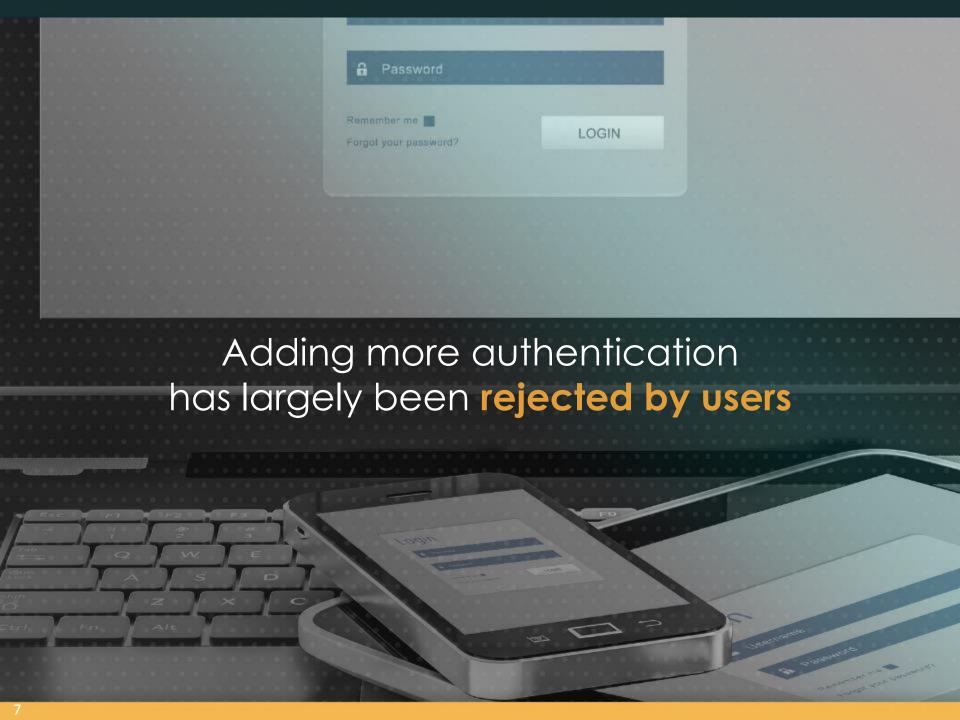
Re-used



Phished



Keylogged



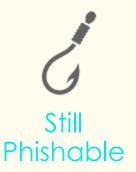






Token Necklace

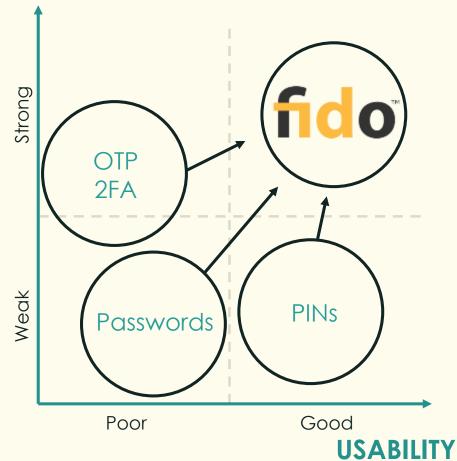






THE FIDO PARADIGM

SECURITY



HOW DOES FIDO WORK? =



Passwordless Experience (FIDO UAF Standards)







Second Factor Experience (FIDO U2F Standards)



Login & Password

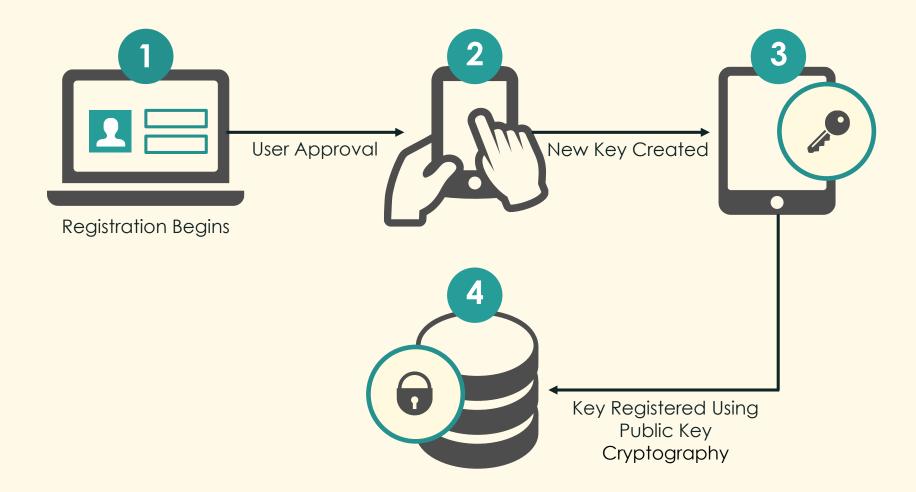


Insert Dongle Press Button

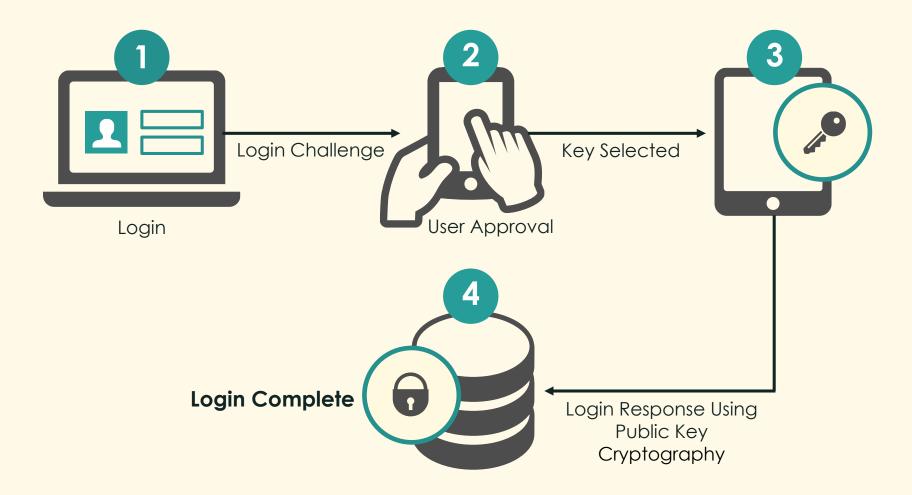


Done

FIDO Registration

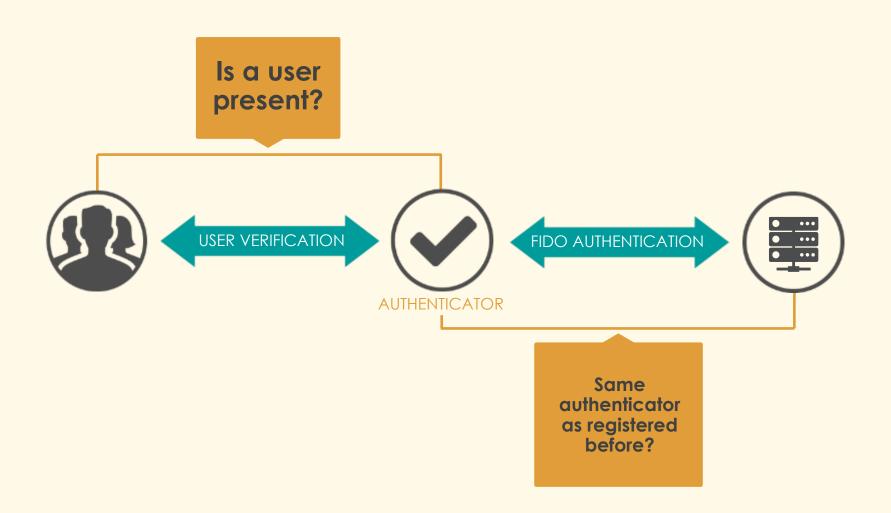


FIDO Login

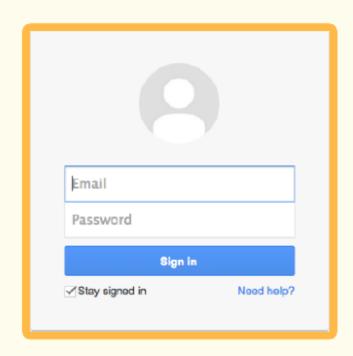




FIDO UNIVERSAL 2ND FACTOR



Step 1 U2F AUTHENTICATION DEMO EXAMPLE



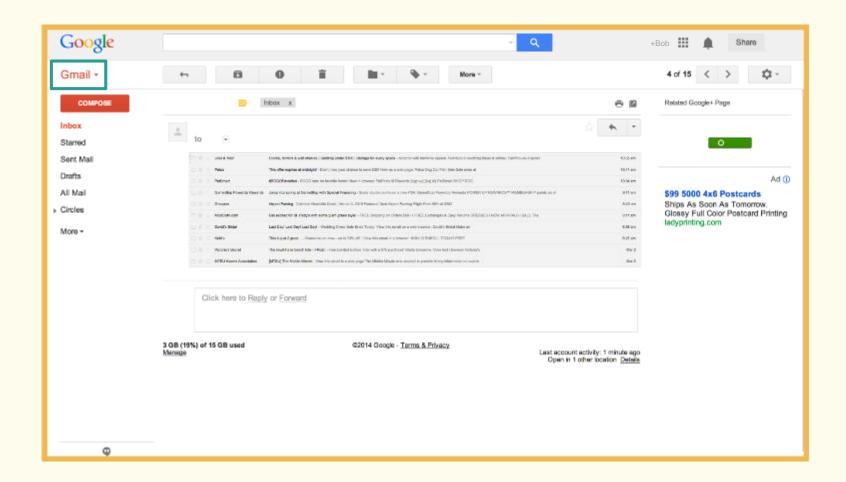
Step 2 U2F AUTHENTICATION DEMO EXAMPLE



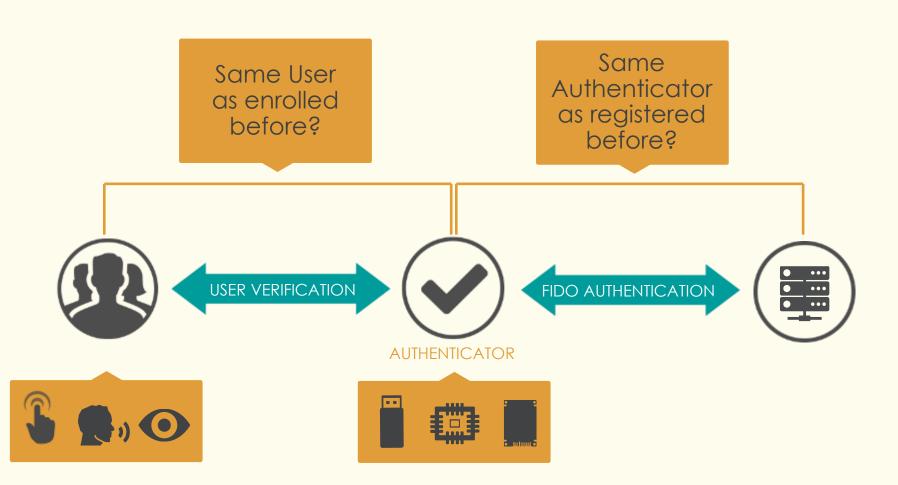
Step 3 U2F AUTHENTICATION DEMO EXAMPLE

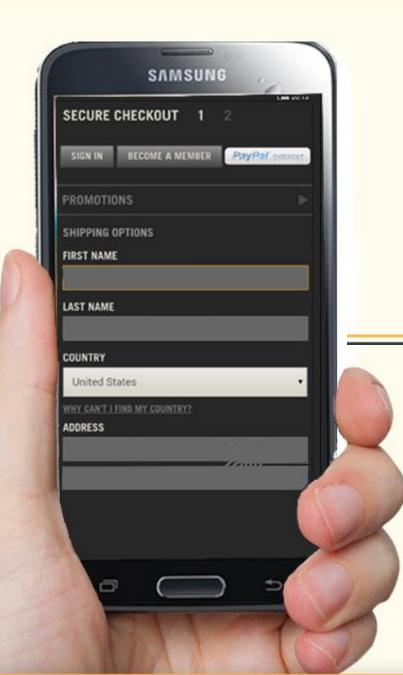


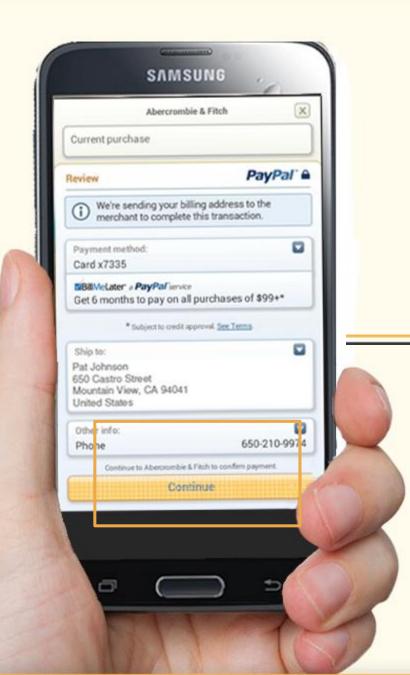
Step 4

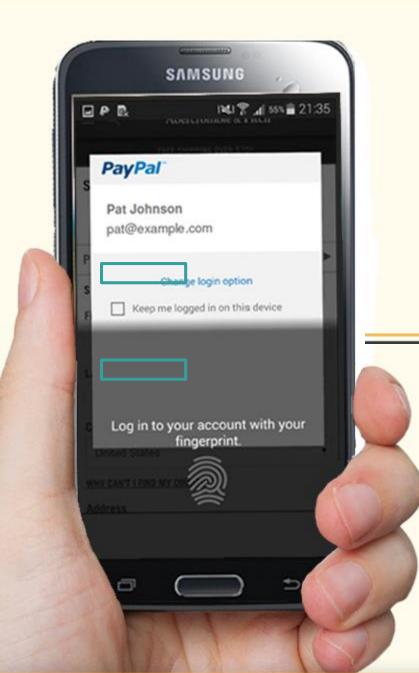


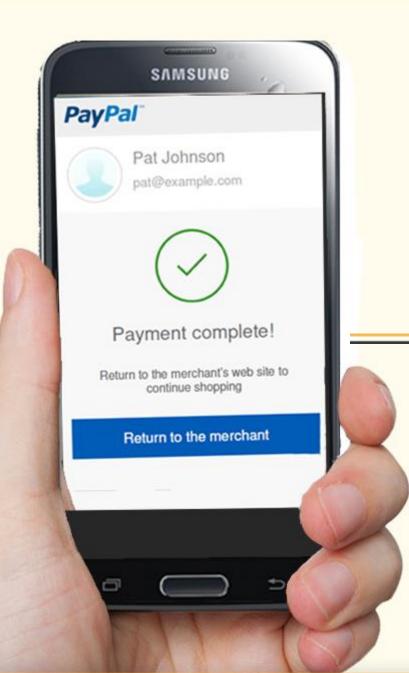
FIDO UNIVERSAL AUTHENTICATION FRAMEWORK (UAF)















No third party in the protocol



No secrets on the server side



Biometric data (if used) never leaves device



No link-ability between services or accounts





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



Board Members













Bank of America.













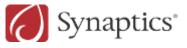




















FIDO TIMELINE





FIDO Ready Program



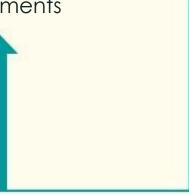




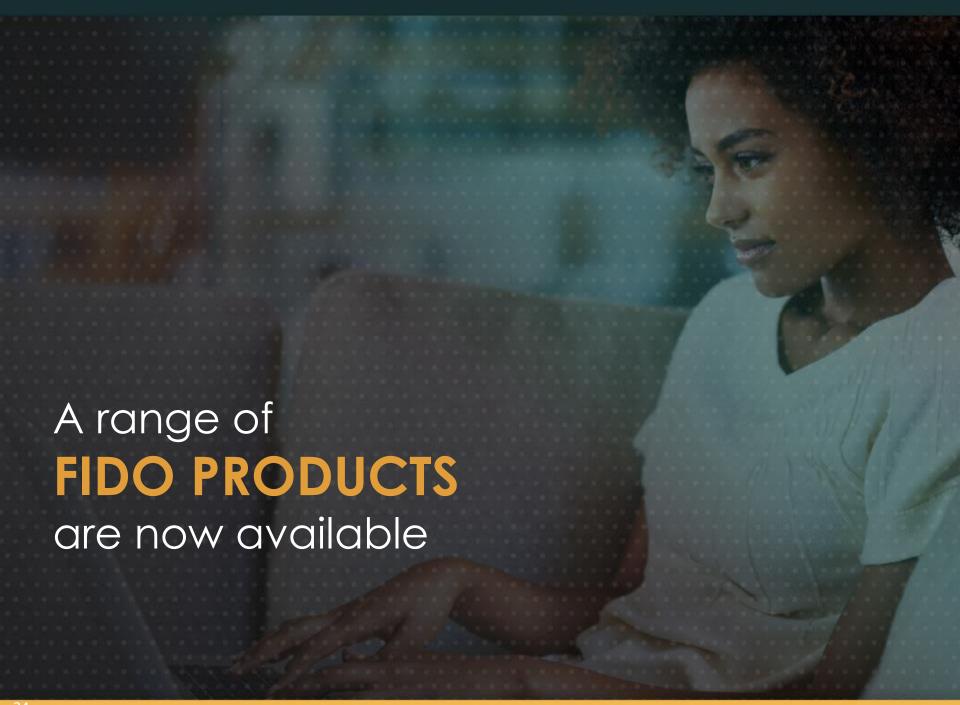








FEB 2013 (6 Members) DEC 2013 (59 Members) FEB 2014 (84 Members) FEB-OCT 2014 (129 Members) DEC 9 2014 (152 Members)







Implementing 1.0 Specifications

(this is only a subset of active implementations)

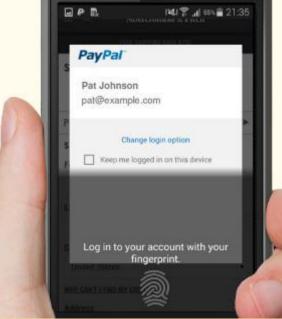
Enterprise Servers	Nok Nok	Entersekt	RCDevs SurePass		StrongAuth	
Open Source	Google	yubic	yubico		WordPress	
Mobile Apps/Clients	SAMSUNG NOK N	Jok Entersekt	Google	73	CIOFCND	
WWW Browsers	<u></u>					

- ✓ PayPal continues FIDO enablement in improved mobile wallet app.
- ✓ Google has FIDO in Chrome and 2-Step Verification.
- ✓ Samsung adds FIDO enabled Touch authentication to Galaxy® \$6

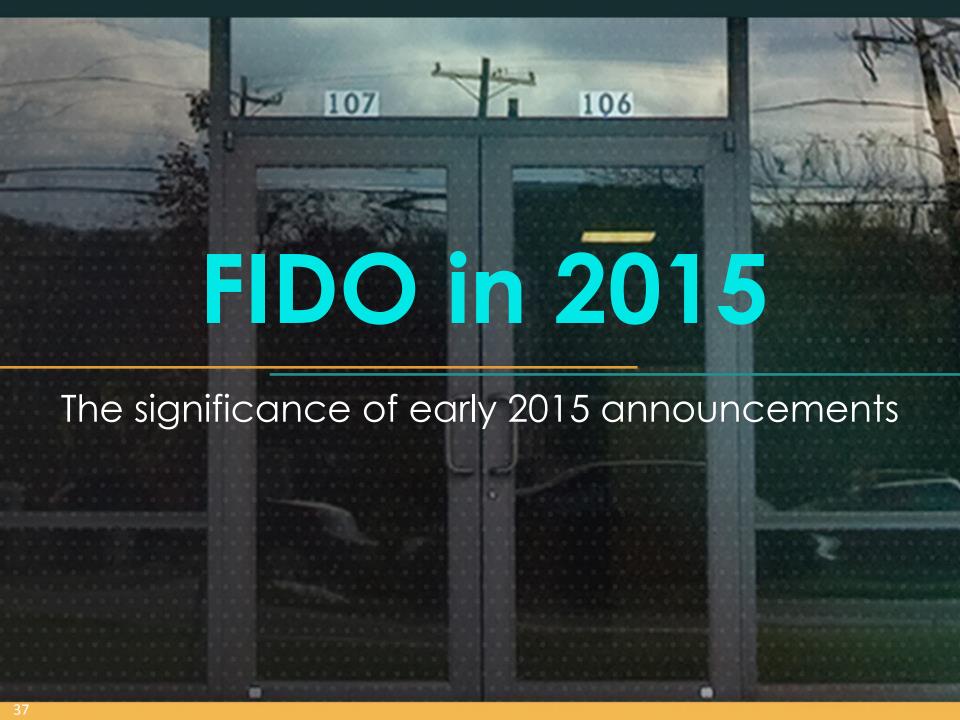


2014 Deployments









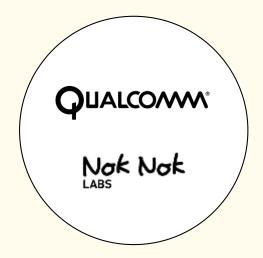
- ✓ Windows used by 1.5 billion users
- ✓ Windows 10 in 190 countries by Q3
- Free upgrade for consumer



FIDO in Windows 10



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

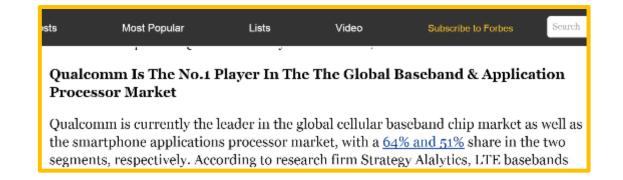


FIDO in Snapdragon



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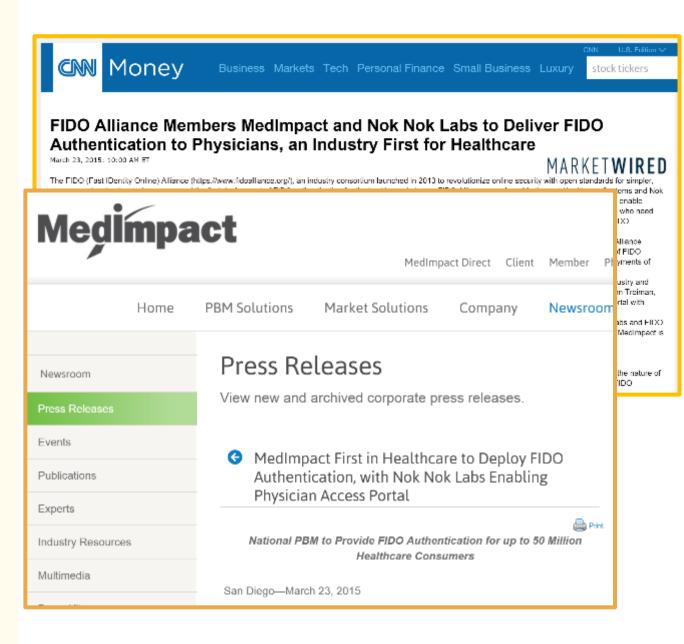
Follow @ZDNetCharlie 6,185 followers



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



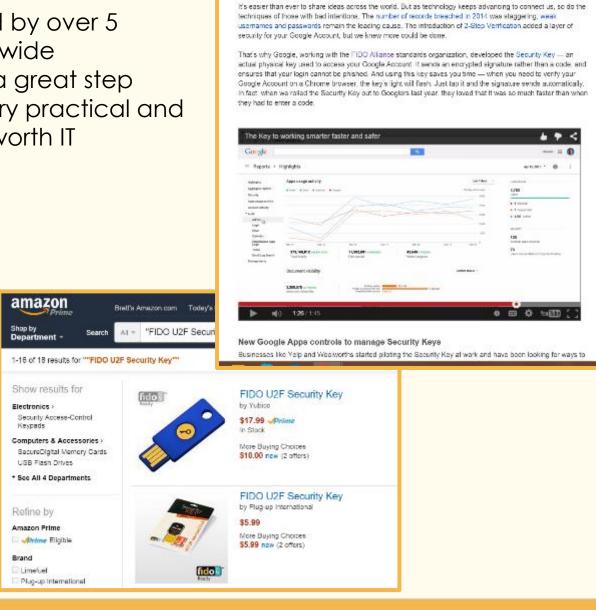
FIDO in Healthcare



- ✓ 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



Posted: Tudsday, April 21, 2015

The Key for working smarter, faster and more securely

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

F Live (13 in Share 72

- ✓ Deployed multiple FIDO Certified™
 Handsets (from Sharp, Samsung &
 Fujitsu
- ✓ Deployed Multiple Biometric Modalities (Iris & Fingerprint)
- ✓ Deployed Multiple Services including carrier billing and digital goods
- ✓ Joined FIDO Alliance Board of Directors



FIDO in Mobile

























- ✓ Governments worldwide are looking at FIDO
- ✓ FIDO featured at
 White House Summit
- New collaboration framework...



FIDO & Government

NEWS & MORE PRESS RELEASES EVENTS 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 76% of 2012 network intrusions exploited weak or stolen credentials.

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

Telco

- GSMA Mobile Connect initiative
 - Working on Using FIDO + Push notification for authentication
 - Standard Global platform based on OpenID Connect.
 - Telefonica/Movistar currently running a pilot in España





EXPERIENCE SIMPLER, STRONGER AUTHENTICATION