

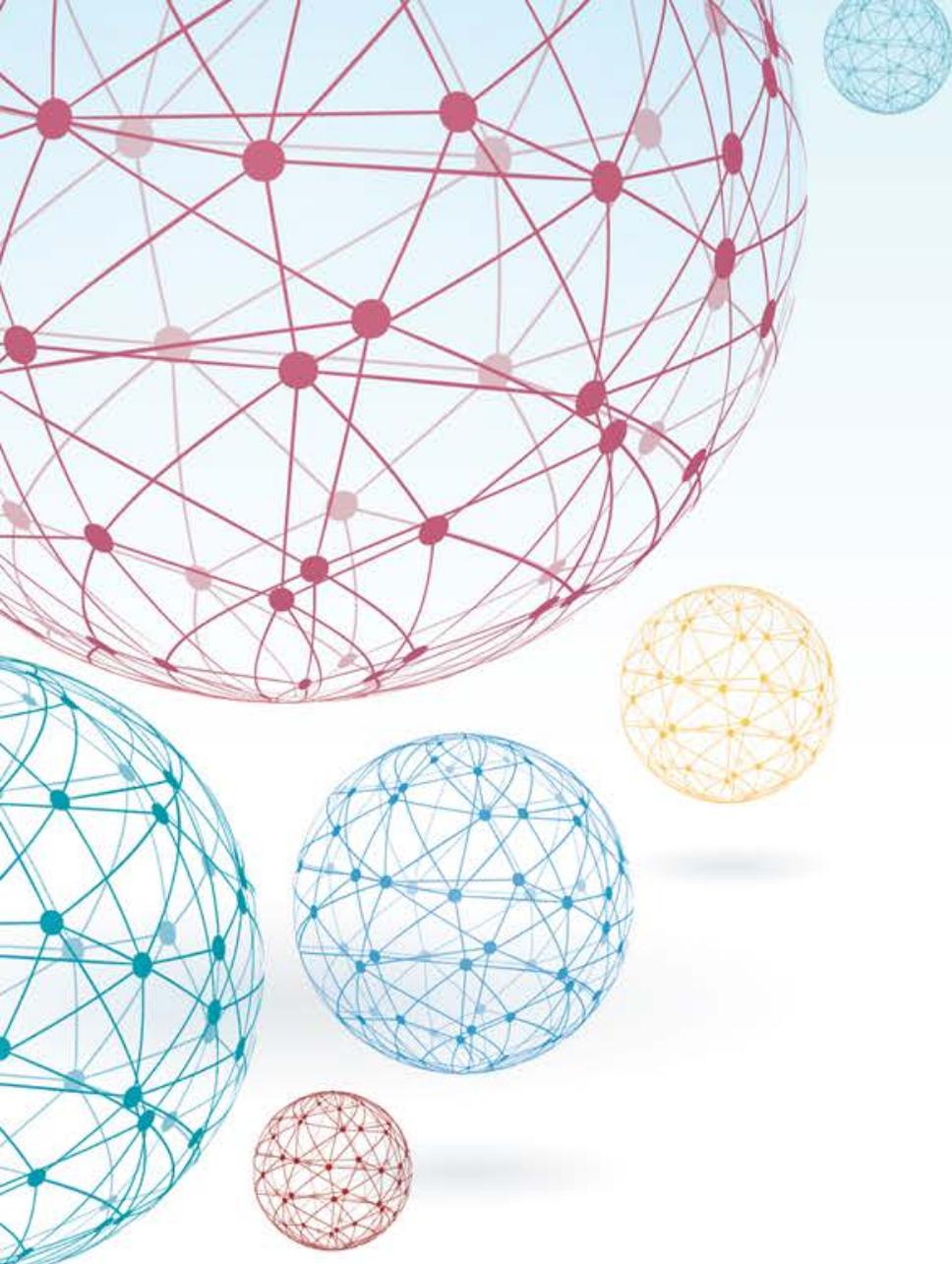
# FIDO AUTHENTICATION FOR GAMING

FIDO ALLIANCE WEBINAR  
JUNE 27, 2017

# TODAY'S AGENDA

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- FIDO Overview
- Intel Online Connect for Gaming: Dave Singh
- Synaptics Fingerprint Sensor for Gaming: Sean Lin
- Q & A



# INTRODUCTION TO THE FIDO ALLIANCE

ANDREW SHIKIAR  
SENIOR DIRECTOR OF MARKETING  
JUNE 27, 2017

# THE FACTS ON FIDO

The FIDO Alliance is an open, global industry association of 250+ organizations with a focused mission:

Today, its members provide the world's largest ecosystem for standards-based, interoperable authentication

## AUTHENTICATION STANDARDS

based on public key cryptography to solve the password problem

**350+**

FIDO Certified solutions

Available to protect

**3.5 BILLION+**

user accounts worldwide

# DRIVEN BY 250+ MEMBERS WORLDWIDE



Board of Directors comprised of leading global brands and technology providers



+ SPONSOR MEMBERS

+ ASSOCIATE MEMBERS

+ LIAISON MEMBERS

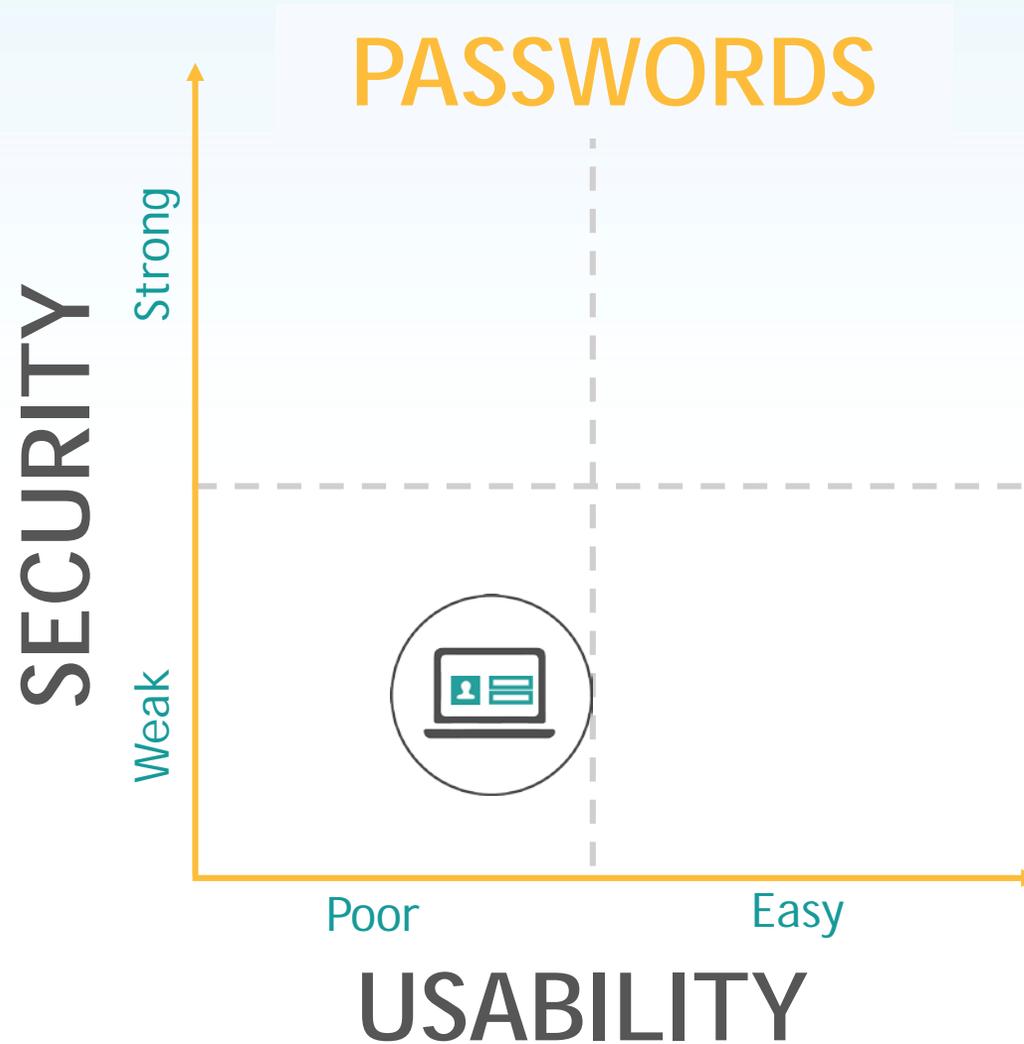
# WHY FIDO?

## The World Has a Password Problem



### Usability

For users, they're **clumsy**, **hard to remember** and they **need to be changed** all the time



### Security

**63%** of data breaches in 2015 involved weak, default, or stolen passwords  
-Verizon 2016 Data Breach Report

**65%** Increase in phishing attacks over the number of attacks recorded in 2015<sup>2</sup>  
-Anti-Phishing Working Group

There were **1093** data breaches in 2016, a **40% increase** from 2015  
- Identity Theft Resource Center, 2016

# WHY FIDO?

OTPs improve security but aren't easy enough to use - and are still phishable



## Usability



TOKEN NECKLACE



USER CONFUSION

## SECURITY

Strong

Weak

OTPs



Poor

Easy

## USABILITY

## Security



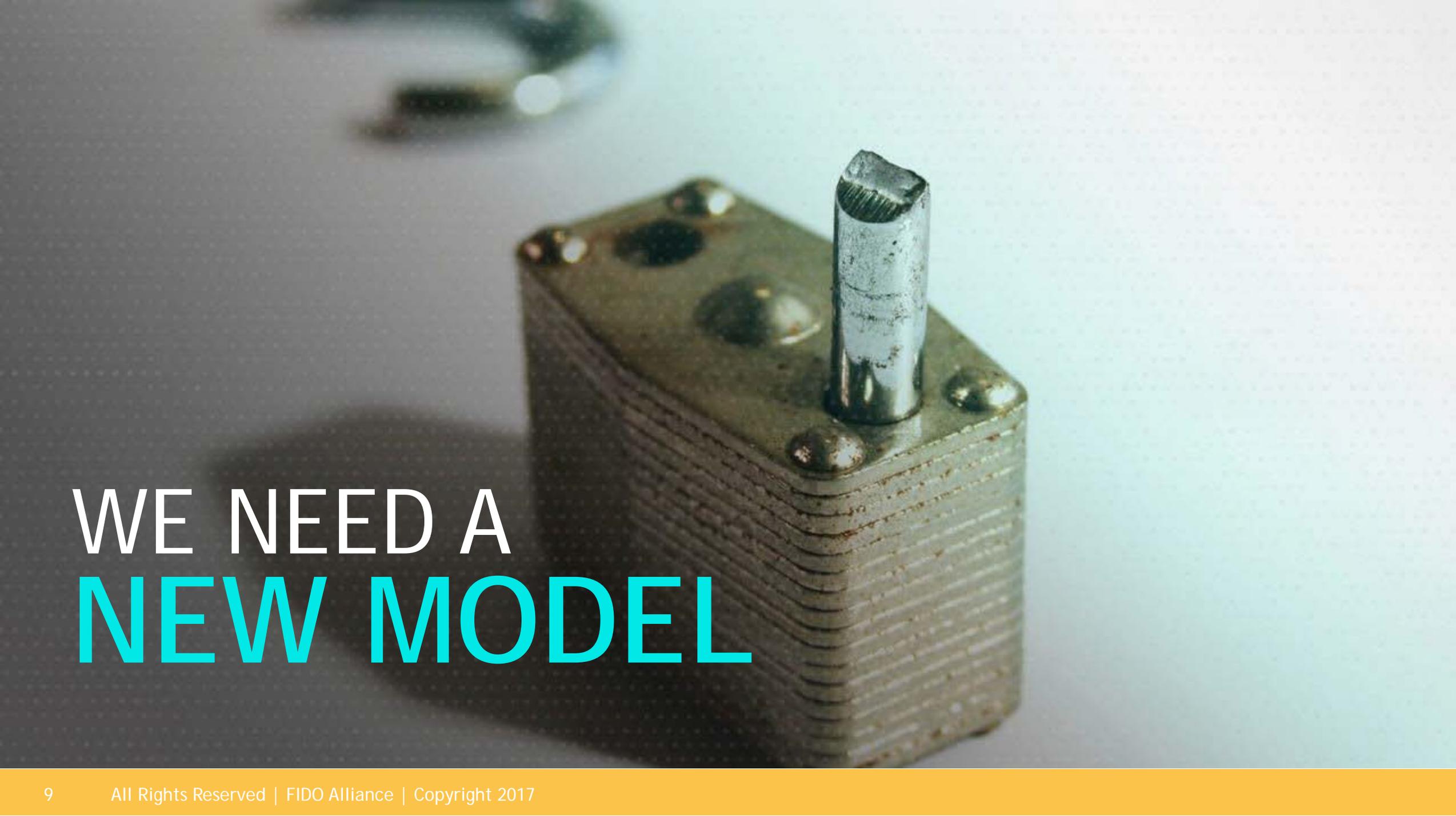
STILL PHISHABLE



SMS RELIABILITY

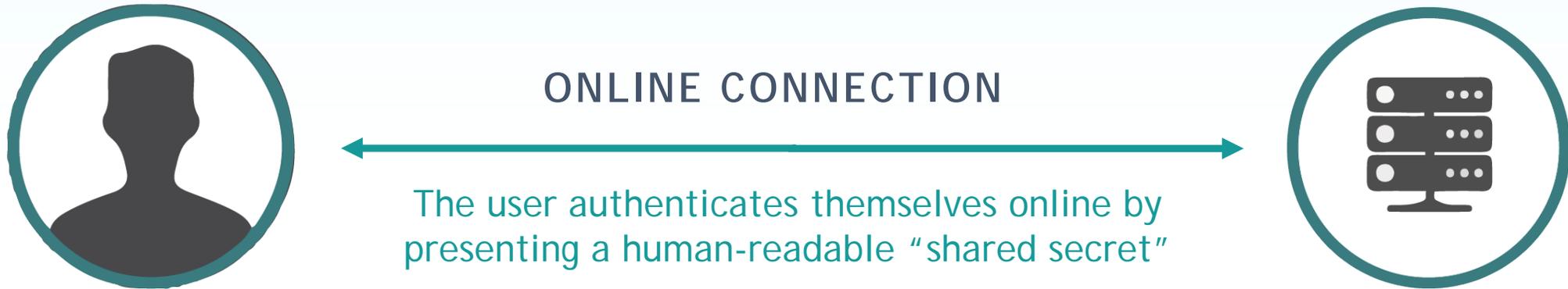


# THE WORLD HAS A “SHARED SECRETS” PROBLEM

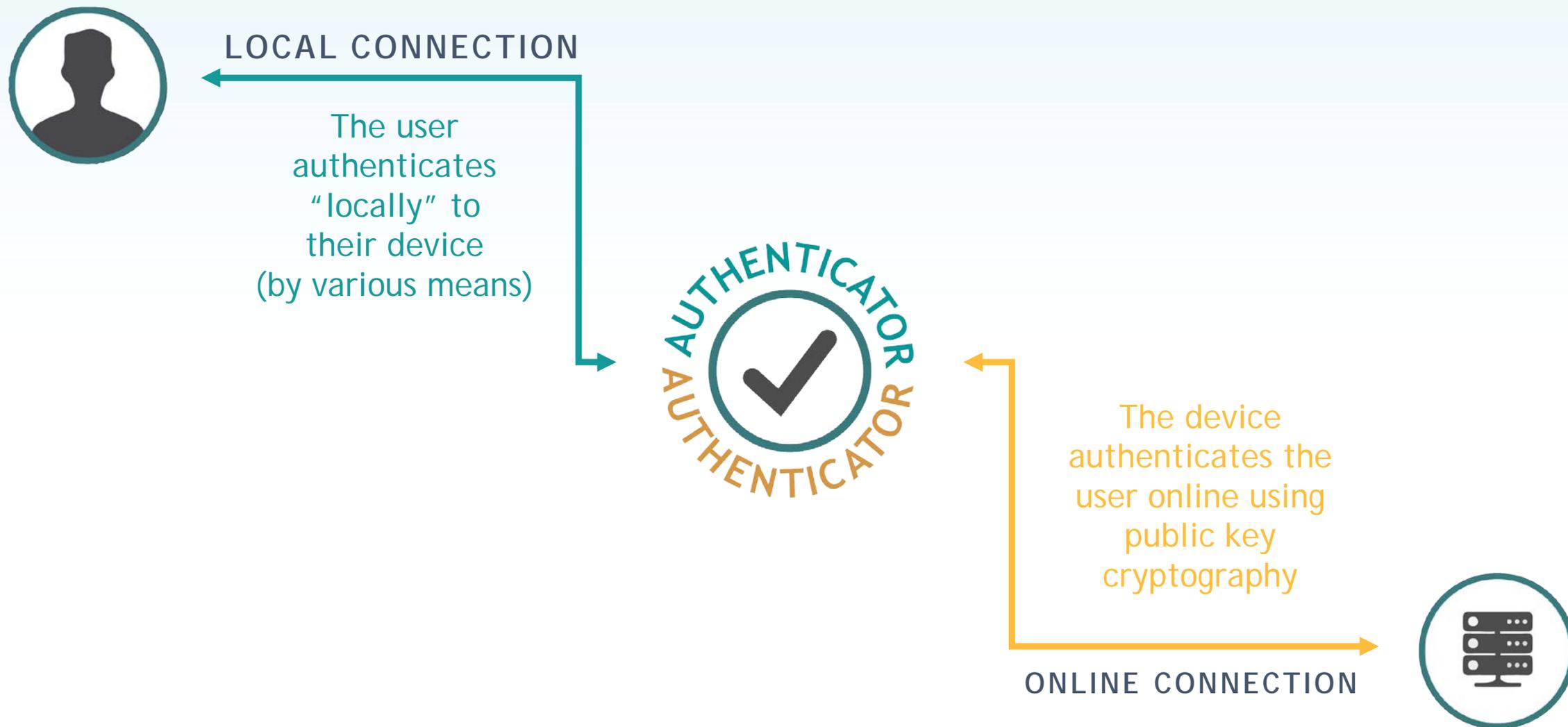


WE NEED A  
**NEW MODEL**

# HOW OLD AUTHENTICATION WORKS



# HOW FIDO AUTHENTICATION WORKS



# SIMPLER AUTHENTICATION



Reduces reliance on complex passwords



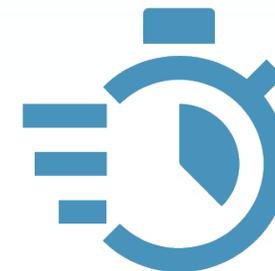
Single gesture to log on



Works with commonly used devices

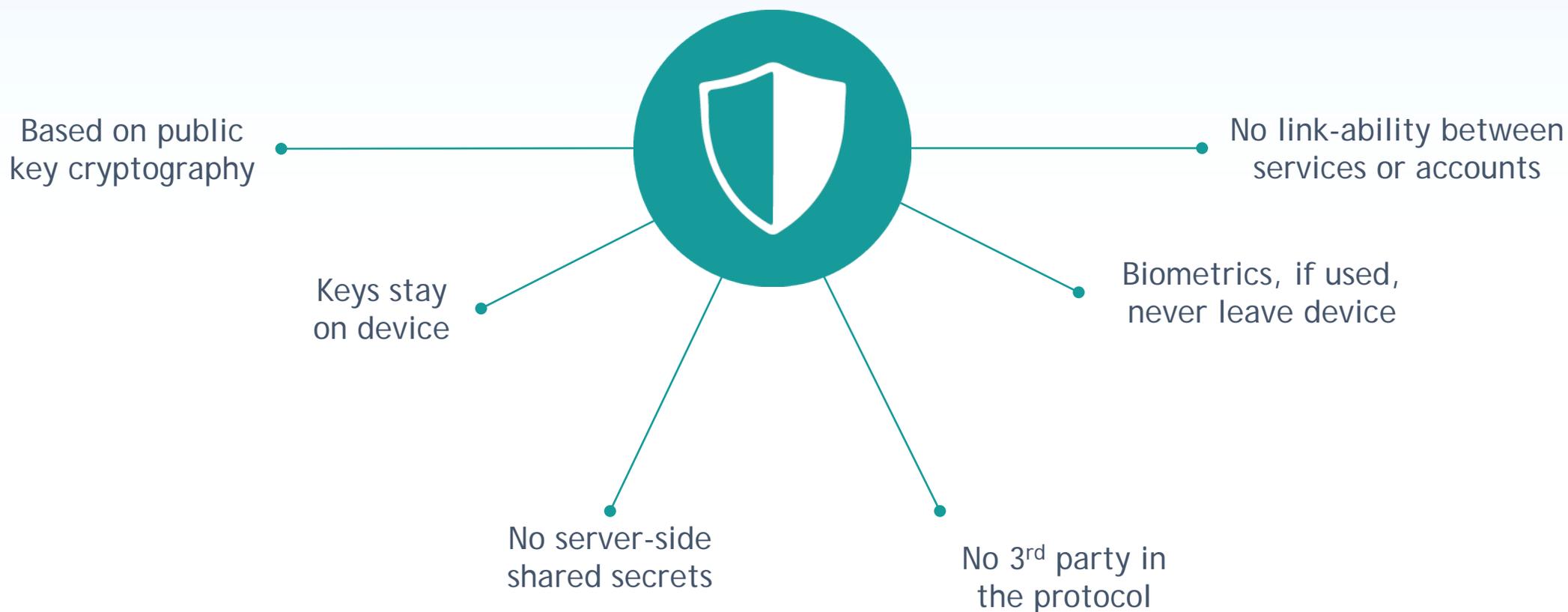


Same authentication on multiple devices

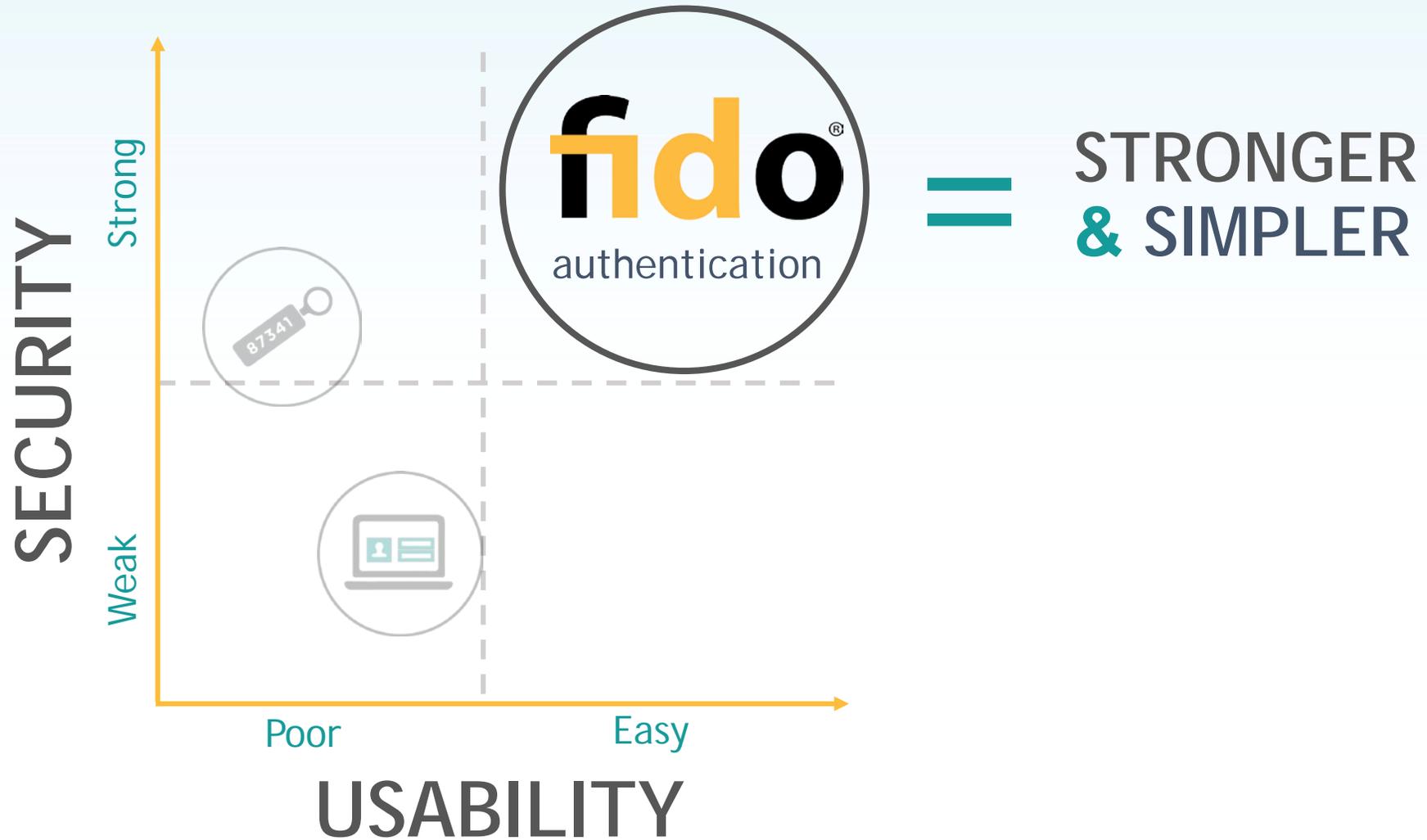


Fast and convenient

# STRONGER AUTHENTICATION



# FIDO — A NEW PARADIGM:



# FIDO CERTIFIED MOBILE DEVICES



S5, Mini Alpha Note 4,5 Note Edge Tab S, Tab S2 S6, S6 Edge S7, S7 Edge



Arrows NX Arrows Fit Arrows Tab  
F-01J F-04G F-04H F-02H F-01H MO1T



Mate 8



Z2, Z2 Pro



Xperia Z5 SO-01H



Xperia Z5 Compact SO-02H



Xperia Z5 Premium SO-03H



Xperia X Performance



Xperia XZ



Xperia X Compact SO-02J



LG Electronics



V10



G5



Vernee Thor



Phab2 Pro Phab2 Plus



Aquos Zeta SH-03G SH-01H SH-02J

# FIDO CERTIFIED TOKENS - SAMPLE



Akisec



infineon



bluink ltd.



Ledger



龙脉科技  
LONGMAI



NEOWAVE



e-gis  
Technology



SECURE  
METRIC  
TECHNOLOGY



FEITIAN  
WE BUILD SECURITY



VASCO



H HYPERSECU®



yubico



# FIDO IN THE WINDOWS + WEB ECOSYSTEMS



## Windows Platforms



## Web



# FIDO-ENABLED APPS + SERVICES

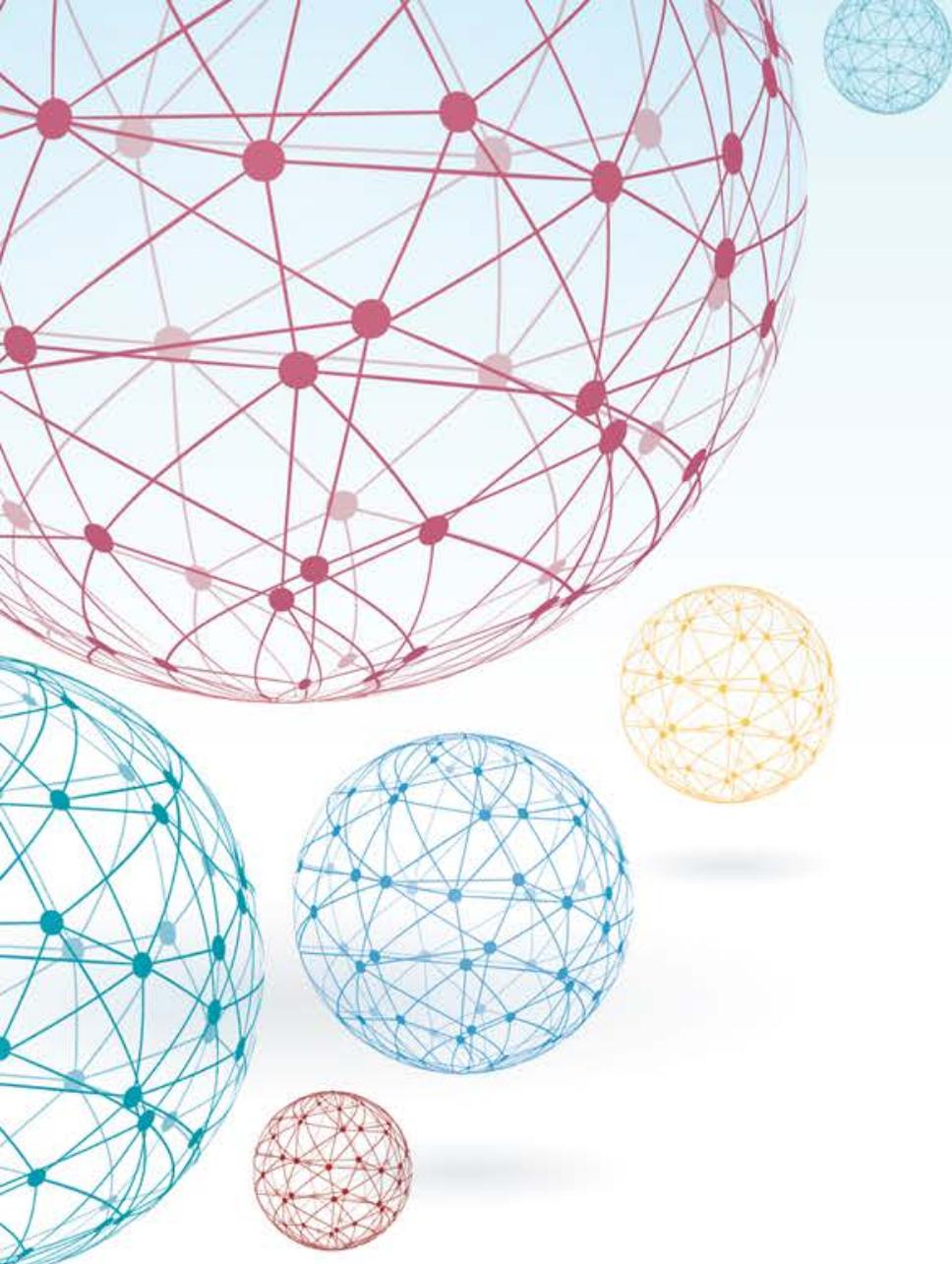


AVAILABLE TO PROTECT

**3.5 BILLION+**

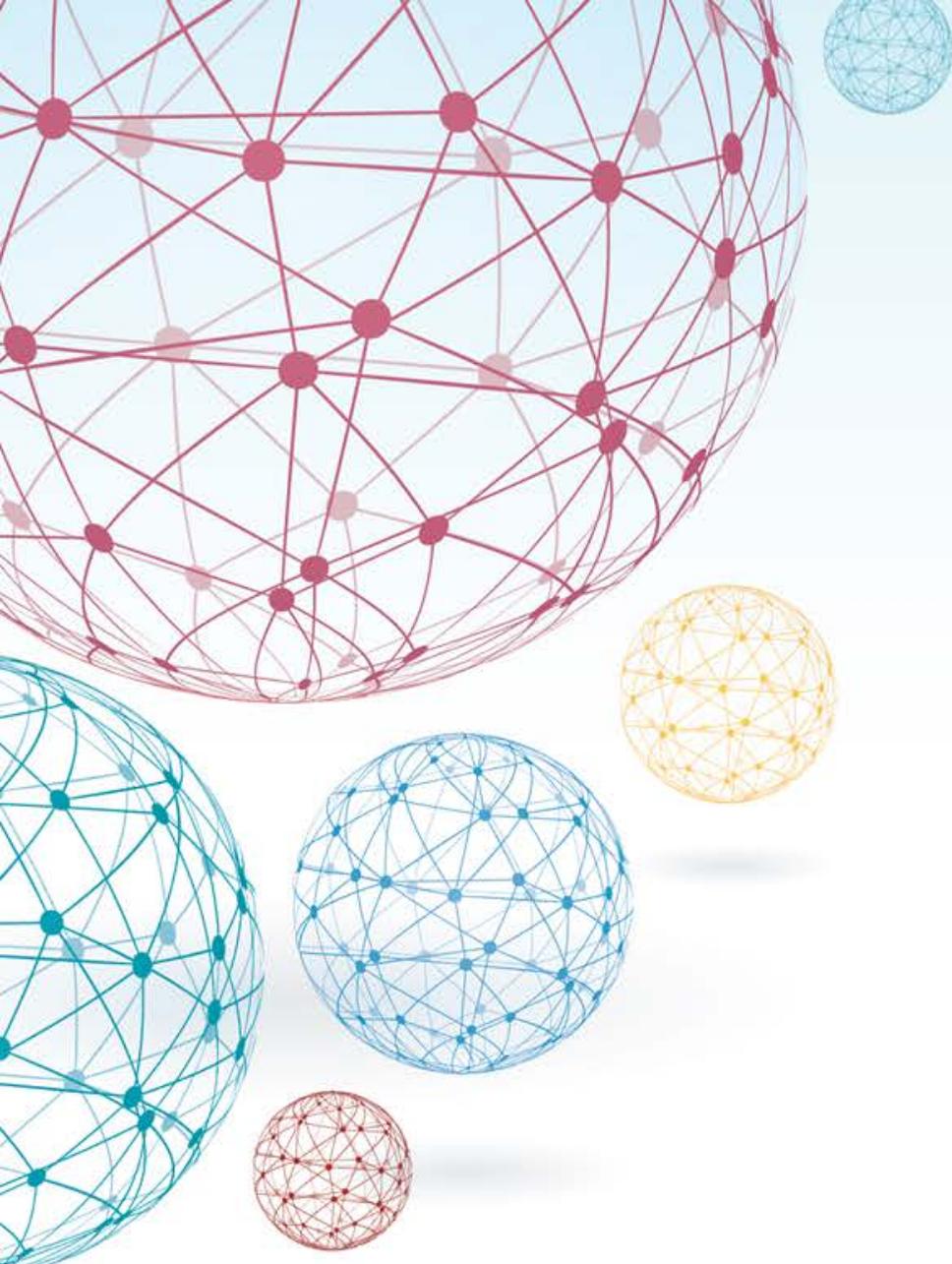
ACCOUNTS WORLDWIDE





# THANK YOU

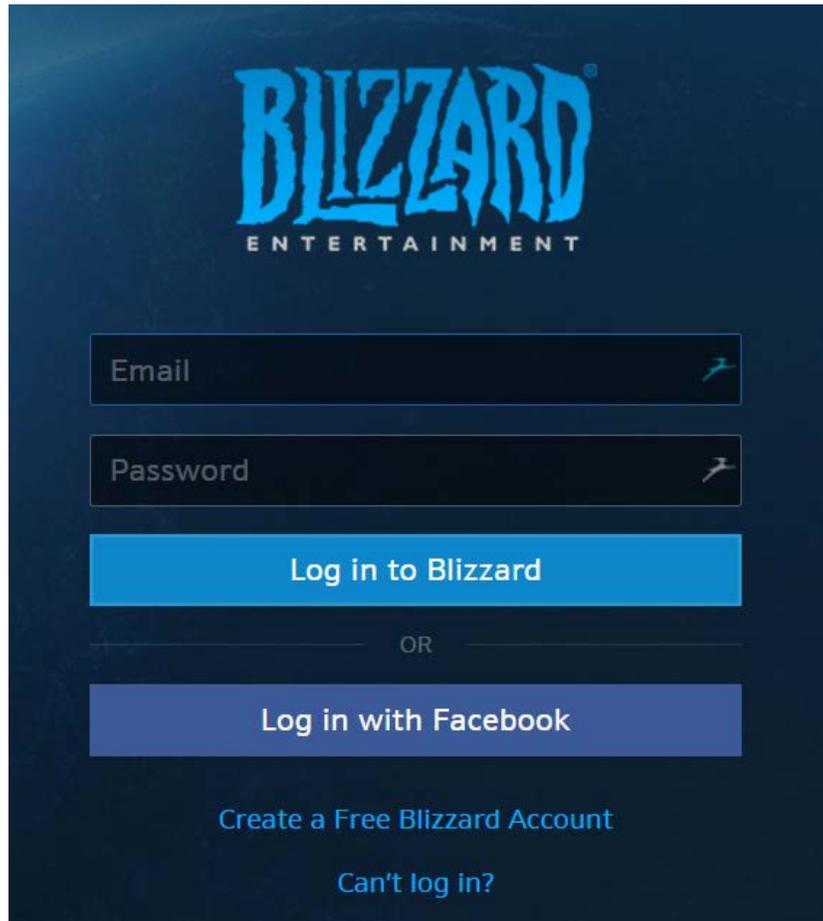
ANDREW SHIKIAR  
SR. DIRECTOR OF MARKETING  
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# INTEL ONLINE CONNECT FOR GAMING

DAVE SINGH, INTEL ONLINE CONNECT  
PRODUCT OWNER

# Current state



[“As more money flows into games, criminals are targeting this new and lucrative market with the tools and techniques they once used to hack online banks and Internet retailers.”](#)

[“The gaming community has become a highly desirable target for cybercriminals,”](#) Santiago Pontioli, of Kaspersky Lab’s Global Research & Analysis Team, said.

[In certain underground forums, hackers target online games and cash out by selling the virtual gold and other unique virtual goods obtained by the victim’s character for real-world money. Steam accounts \(Steam being the most popular store for PC games\) are also sold on the black market and can be used for cash-outs or simply to gain access to games purchased by the victim](#)

Late last year, one of the world’s largest online video game platforms, admitted that [77,000 of its gamer accounts are hacked every month](#). This revelation represented the first time that a major video game company acknowledged cyber crime.

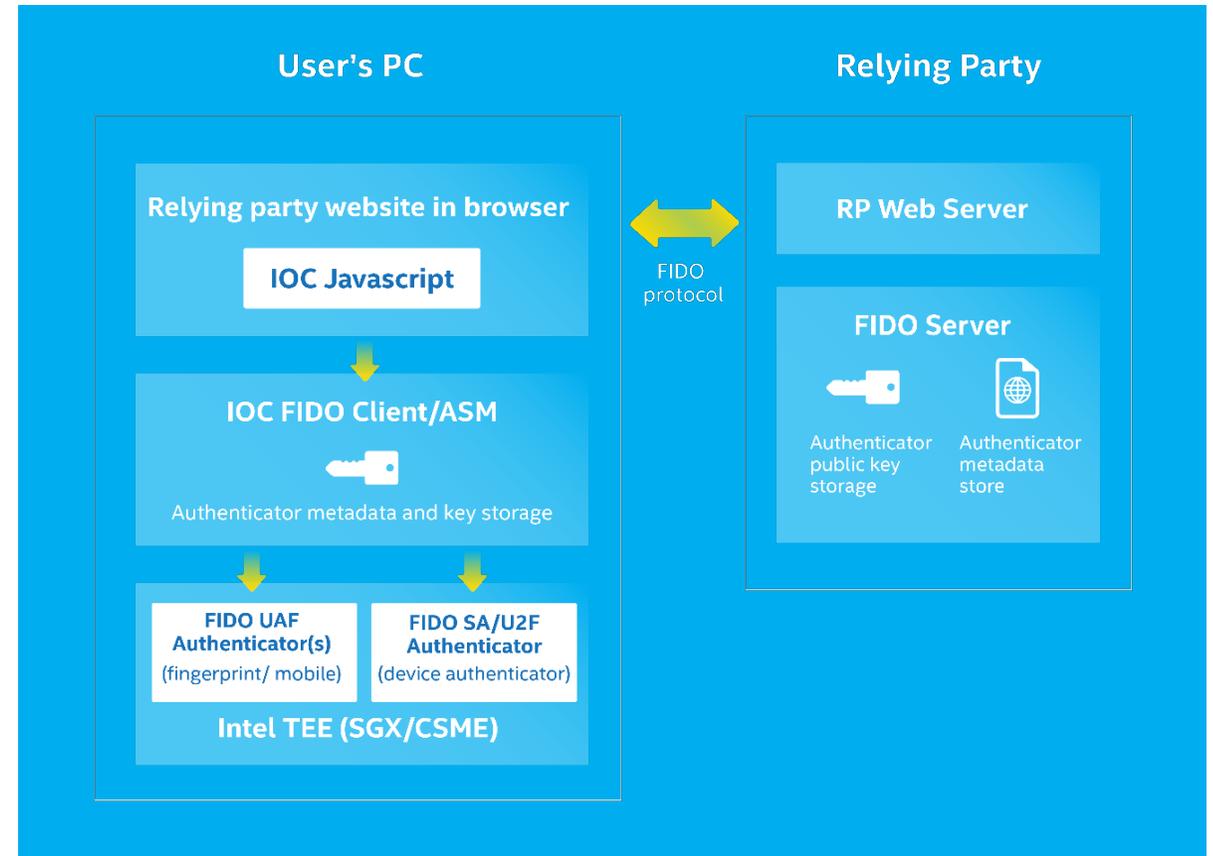
*Online gaming must move beyond the Password – Simple | Easy | Secure*

# Introducing - Intel Online Connect:

*Hardware Enhanced Multi-Factor Authentication for Web Services & Payments*

Intel Online Connect offers standards based, hardware protected options for website authentication and payments on online gaming:

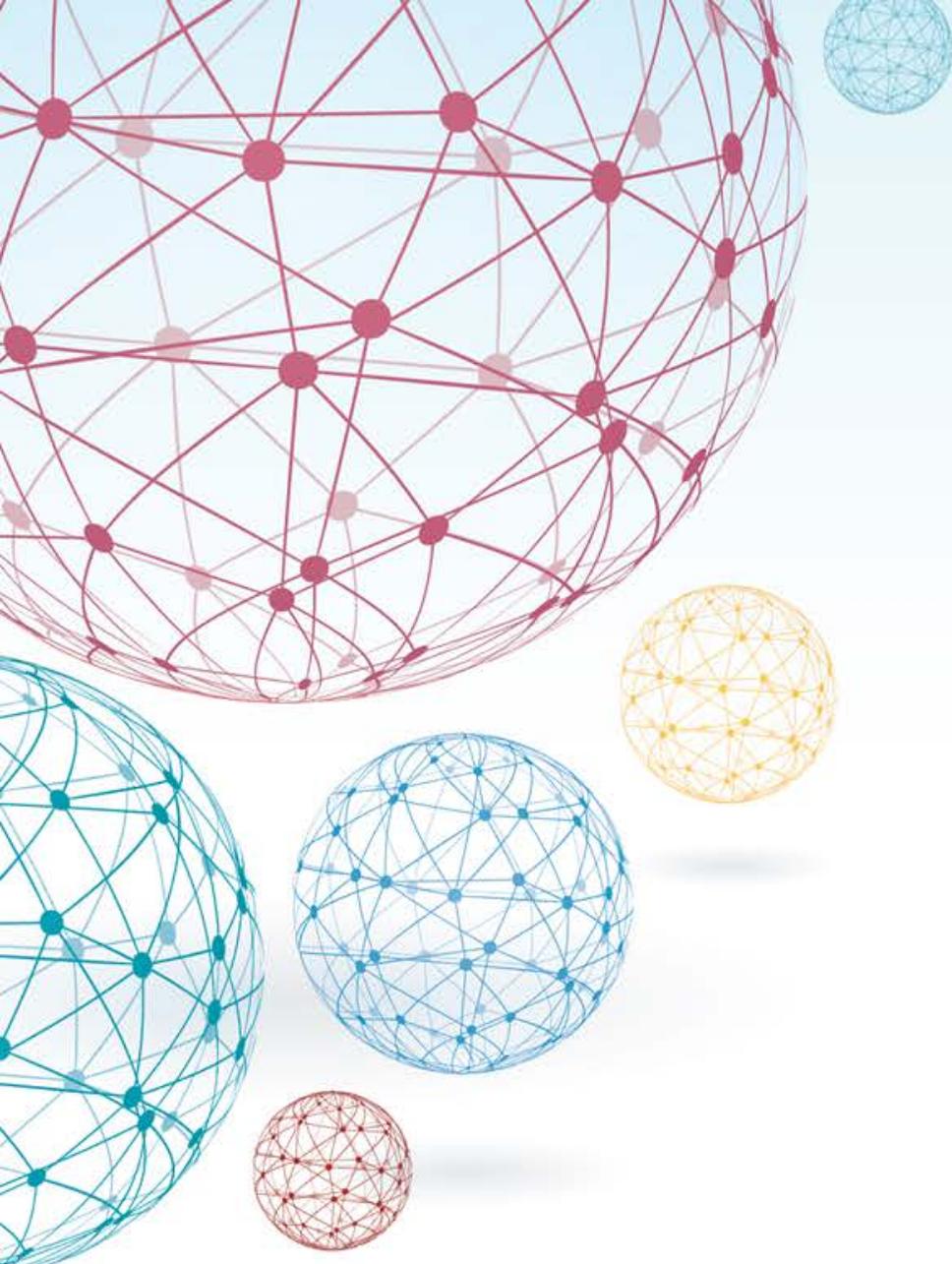
- Device Identification (UAF)
- Device Identification + User Presence (U2F)
- Device Identification + Biometric Authentication (UAF)



*Cross-Browser | Hardware Protected TEE | FIDO Certified*

# For more information

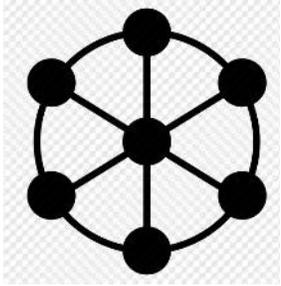
- Contact our Security Alliance Team: Kibibi Moseley | [kibibi.moseley@intel.com](mailto:kibibi.moseley@intel.com)
- Web Link: [www.intel.com/hardwaresecurity/intelonlineconnect](http://www.intel.com/hardwaresecurity/intelonlineconnect)



# SYNAPTICS FINGERPRINT SENSORS FOR GAMING

SHAWN LIN,  
*PRODUCT SUPPORT ENGINEER*

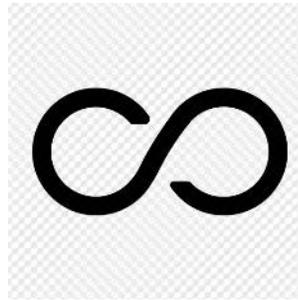
# Why Fingerprint? Commercially successful Biometric Technologies



Universal



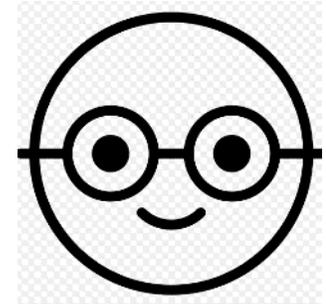
Unique



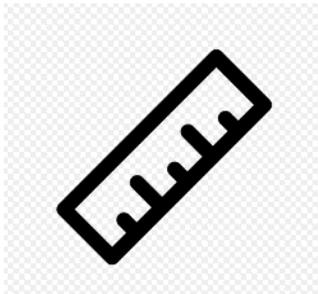
Permanent



Reproducible



Unobtrusive



Measurable



Timely

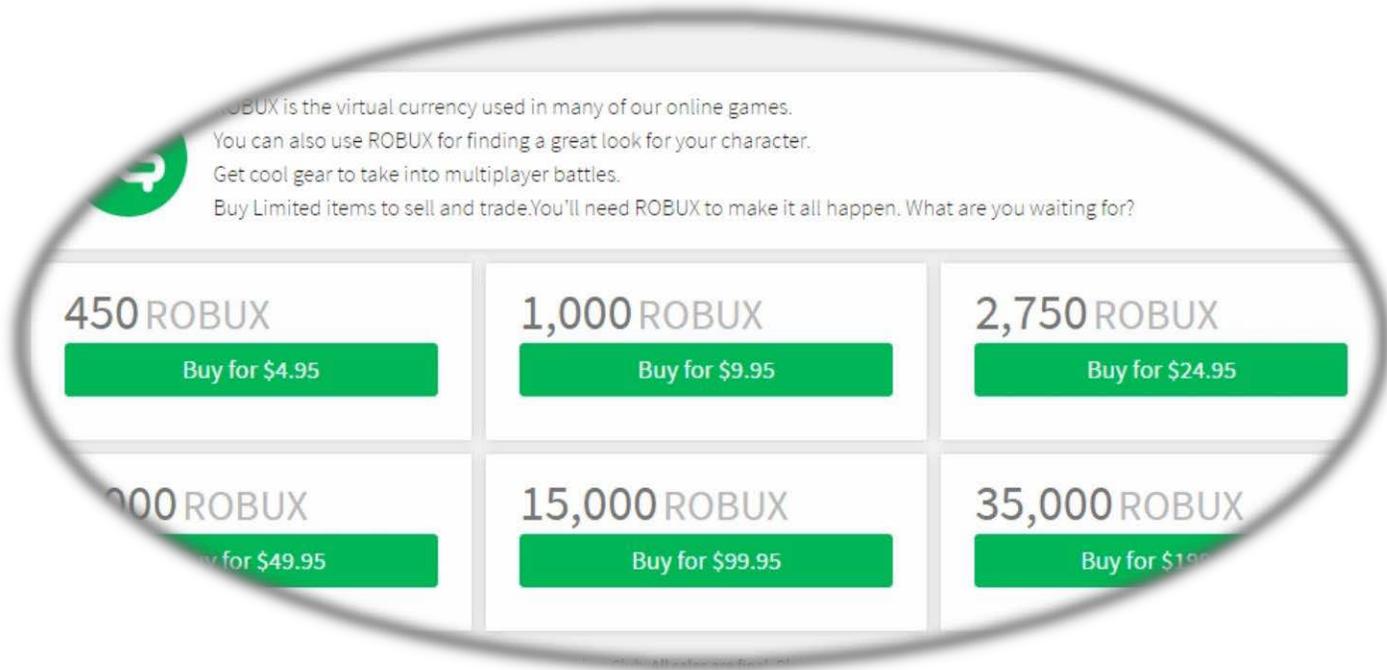


Spoof Resistant

➤ **Fingerprint** is the most widely used biometric for mobile, PC/Laptop platforms, given the above considerations



# Fingerprint for Trade in Gaming



FP to **authenticate** the trading transaction for gaming **digital goods** and **virtual currency** (e.g. Robux in Roblox)



# FP prevents impersonation

# Fingerprint to Combat Smurfing

- In online gaming, a smurf is an experienced player who uses a new account to deceive other players into thinking he's a noob (newbie)
- The 'smurf' will dominate his opponent and humiliate them further as they have now been beaten by an apparent noob
- This could become a more significant issue as cash prize tournament and eSports gambling expand



FP blocks fake identity

# Synaptics Fingerprint Biometrics Solutions

- **Biometrics**

- No more passwords (stolen, forgotten)
- Something unique about you (same authentication on multiple devices)
- Simple, fast and convenient (single gesture to log on)
- Multiple factors for maximum strength

- **Secure architecture**

- Match in Sensor
- Authenticate locally / transact globally

- **Ecosystem**

- Common worldwide solution



# Synaptics Fingerprint Solution for Desktop PC (Thermaltake Gaming) Mouse

- Synaptics Extending the company's market leading fingerprint sensing technology for smartphones into desktop PC peripherals
- Synaptics is meeting an emerging desktop PC ecosystem demand for easy and secure authentication driven by factors such as the security requirements defined by Windows 10 biometric integration and FIDO compliance.
- It provides users with a fast and secure passwordless experience to login into their system and web pages with the utmost of ease.

<http://www.synaptics.com/company/news/fingerprint-mouse>



# Kensington, PQI Launch Synaptics-Enabled USB Fingerprint Dongles

- Add simple, swift and secure fingerprint authentication to Notebook PCs lacking integrated biometric sensor implementation
- The dongles are fully housed, ready-to-use fingerprint modules small enough to remain unobtrusively installed in any notebook USB port
- After secure authentication is completed with a single touch of a finger, enabling fast PC access and the full use of Windows Hello.

<http://www.synaptics.com/company/news/kensington-pqi--usb-fingerprint-dongles>





# Q & A