May 26th, 2015

Ramesh Kesanupalli

Vice President of FIDO Alliance, Founder of Nok Nok Labs

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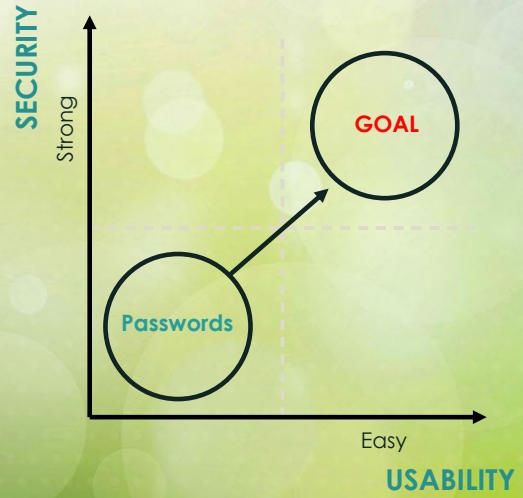
Apple v. Carbyne
IPR2024-00334

2009: The Start of the FIDO Vision

Ramesh Kesanupalli
Former CTO
Validity Sensors

Michael Barrett
Former CISO
PayPal

Shared View of Problem



Adoption Drivers:

- Easy to use
- Reduce fraud
- Benefits to consumers and businesses

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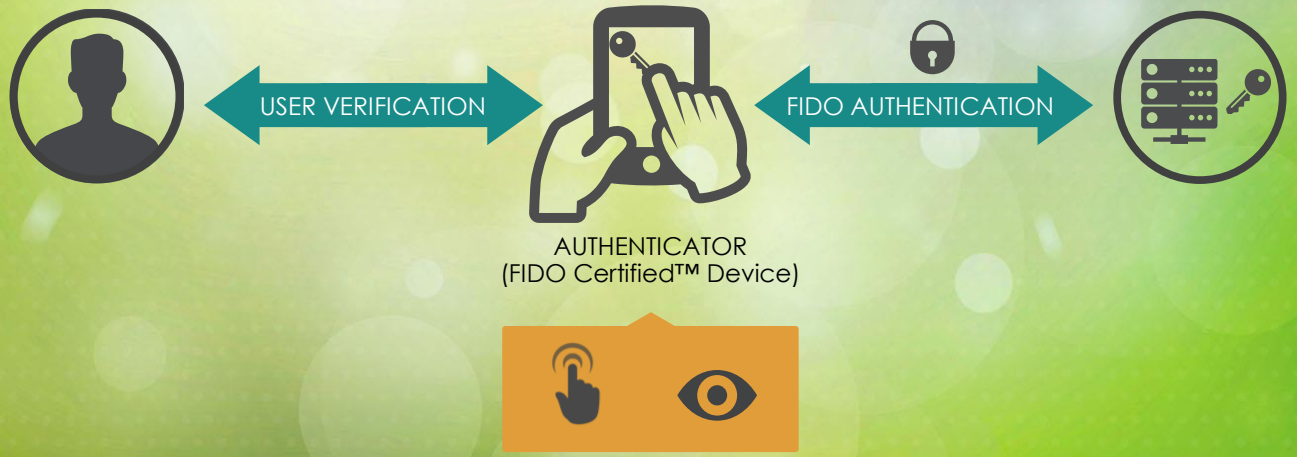
WE CALL OUR
NEW MODEL
Fast IDentity Online
online authentication using
public key cryptography
3

HOW DOES FIDO WORK?



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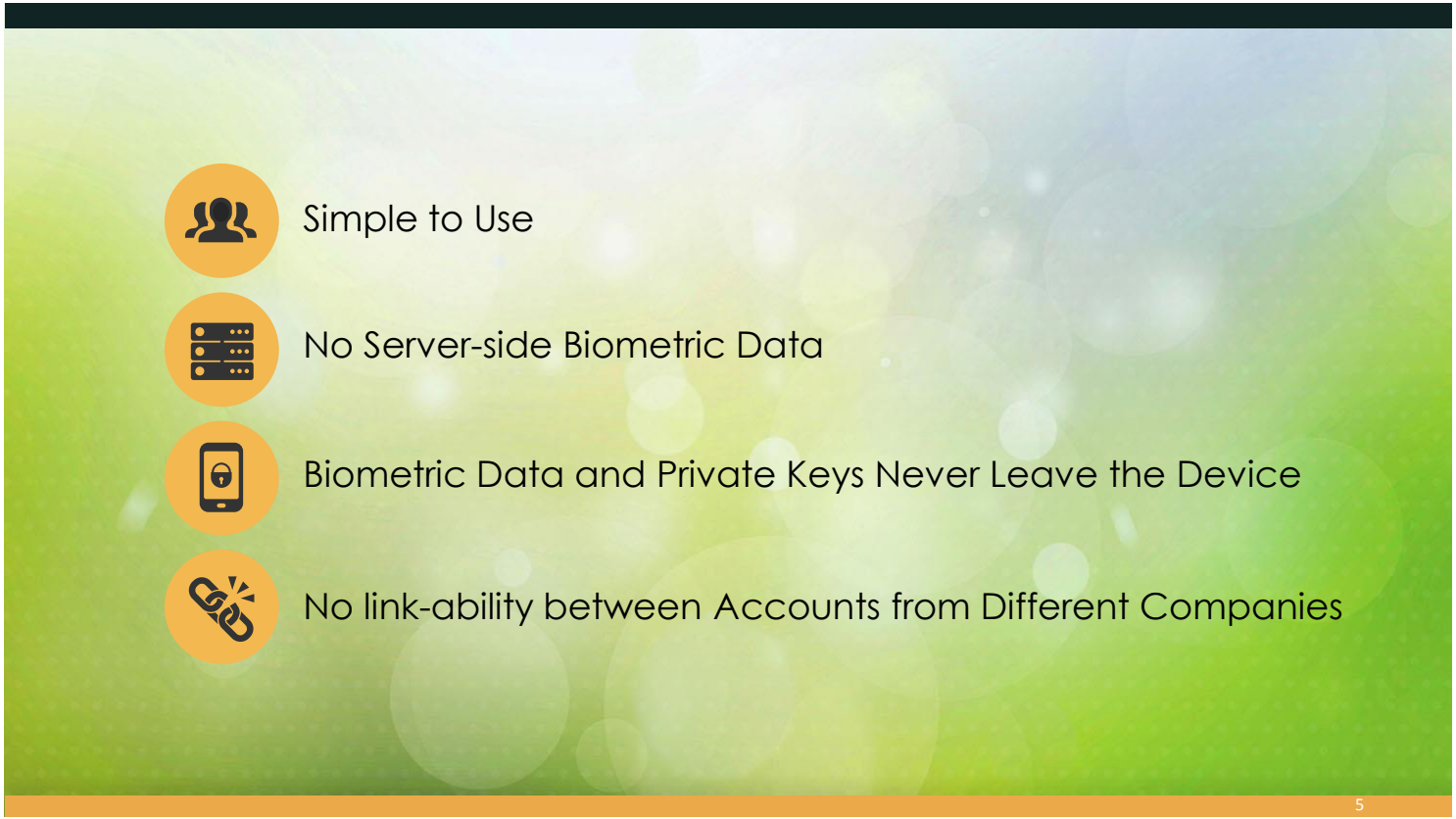
Simple to Use
No Server-side Biometric Data
Biometric Data and Private Keys Never Leave the Device
No link-ability between Accounts from Different Companies
5

Brett McDowell

Executive Director of FIDO Alliance

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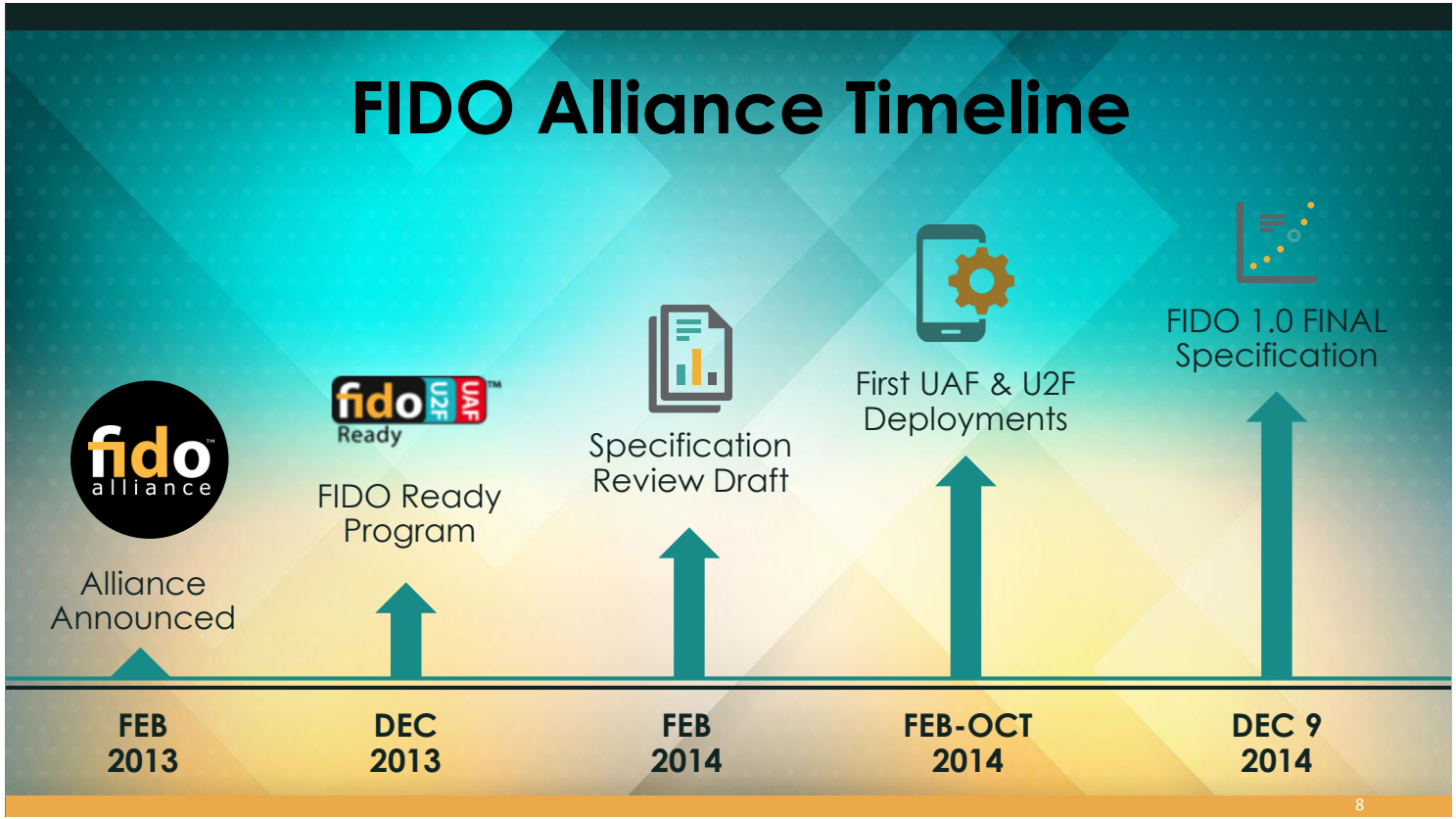
The **F**ast **ID**entity **O**nline (FIDO) Alliance is an open industry association of nearly 200 global
member organizations
fido™ alliance
simpler stronger authentication
7


FIDO Alliance Timeline
Alliance Announced
FEB 2013
FIDO Ready Program
DEC 2013
Specification Review Draft
FEB 2014
First UAF & U2F Deployments
FEB-OCT 2014
FIDO 1.0 FINAL Specification
DEC 9 2014
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2015 news from the Market

LEADERS FROM AROUND THE WORLD

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NTT docomo

fido alliance
simpler
stronger
authentication
1st MNO to Join
FIDO ALLIANCE
Board of Directors
10

NTT docomo

docomo ID
docomo ID
ログイン
¥
dマーケット
ケータイ
払い
dゲーム
dトラベル
TRAVEL
dミュージック
dブック
dデリバリー
1st to Enable
MULTIPLE SERVICES
Using FIDO UAF 1.0 Standards
ドコモの
ペット保険
11

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1st to Launch Multiple
FIDO CERTIFIED™
Devices from Multiple OEMs
fido UAF
Certified
13

- ✓ Strategy
- ✓ Governance
- ✓ Leadership

fido alliance

Board Members

NTT docomo
DISCOVER
PayPal
MasterCard
SAMSUNG
Bank of America
Google
Microsoft
lenovo FOR THOSE WHO DO.
Synaptics
ARM
Nok Nok LABS
oberthur TECHNOLOGIES THE M COMPANY
NXP
CrucialTec
IdentityX
RSA
yubico Trust the Net.
Alibaba Group
QUALCOMM
VISA

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Ramesh Kesanupalli

Vice President of FIDO Alliance, Founder of Nok Nok Labs

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NTT docomo

fido™ docomo ID = Ecosystem

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Future Goal

Mobile Devices as Your Key to Life

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Changing the World
Requires an Ecosystem
Principles
A new industry standard needed
Must support multiple types of authentication
Adoption at scale requires an interoperable ecosystem
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