

Reducing Fraud through Secure Authentication and ID Verification Services

September 12th 2018







Evolution of identity in the digital space: the need for stronger authentication

Ana Tavares Lattibeaudiere, SVP and Head of North America - GSMA

Digital Identity:

An evolving market place



Growing awareness of privacy and data protection is driving demand



Cyber crime is driving up the value of secure identity verification with users' attributes



Digital Identity is cornerstone of digital business transformation

Digital identity in the US



Privacy under development state by state



22.4 million exposed records in US in H1 2018



16.7 million Americans victims of identity theft in 2017

Employment / tax fraud 34% / credit card 33%



US at top of the Enabling Digitalisation Index 2018



NIST MC proof of concepts delivered



Adding value with Mobile Connect



Fraud Reduction



Payment Authorisation



New Account Opening



Proving Identity



GDPR Consent Capture



Password-less Login

AGENDA			
13:00-13:10	Evolution of identity in the digital space: the need for stronger authentication	Ana Tavares Lattibeaudiere, GSMA	
13:10-13:20	Reducing fraud through enhanced mobile security and ID authentication	Johannes Jaskolski, AT&T	
13:20-13:50	Panel: #BetterTogether: Taking digital identity to the next level	Host: Marie Austenaa, GSMA Rodger Desai, Payfone Eric Woodward, Early Warning Dr. Khan Siddiqui, higi	
13:50-1400	Identity: Avoiding fraud in banking in the US	Lyndi Long, Zumigo Hrishi Talwar, Equifax	
14:00-14:10	Global service providers: views on strong ID authentication	Morgan Webb, Microsoft Robert Blumenthal, Enstream	
14:10-14:30	Panel: Intelligent authentication: US carriers make headway on challenging unauthorised access	Host: Ana Tavares Lattibeaudiere, GSMA Bill O'Hern, AT&T Services, Inc. Michael Goo, T-Mobile Doug Garland, Sprint Pavan Challa, Verizon	
14:30-14:40	Future identity trends: IoT and ID management	Rikard Strid, Clayster	
14:40-15:00	Panel: What is next in digital identity? From RCS to Blockhain	Host: Mark Harvey, GSMA Jim Greenwell, Danal Simon Wakely, Giesecke+Devrient Anatoly Kvitnitsky, Trulioo	

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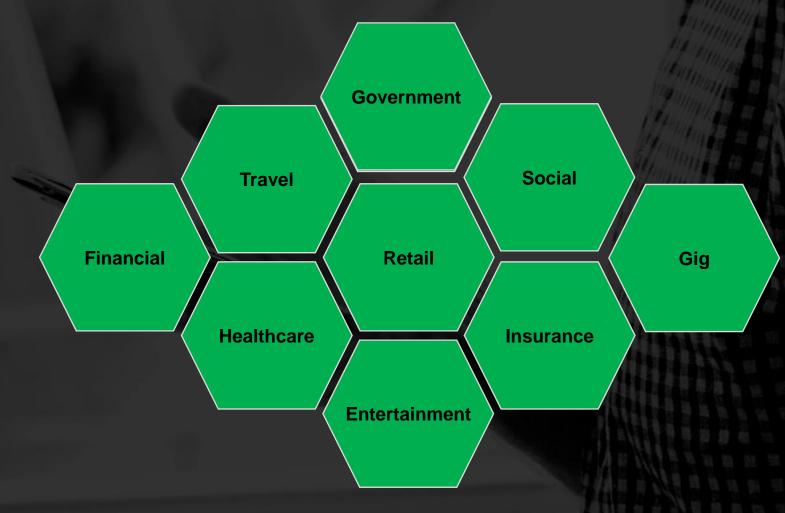
0000 100000 200000 **Mobile Authentication Taskforce**

Reducing Fraud through Enhanced Mobile Security and ID Authentication



The Global Economy is Going Digital

Consumers are conducting more and more sensitive transactions online, resulting in a need for higher confidence and security.



But there is a problem.

Actually, there are two... The information contained herein is not an offer, commitment, representation or warranty by the Mobile Authentication Taskforce and is subject to change.

Weak Security

86%

Of users expressed concern over security in online purchases

81%

Of Data breaches were due to weak or stolen passwords

High Friction

87%

Of consumers left a website when asked to register

63%

Of logins failed due to forgotten credentials

The Mobile Authentication Taskforce can help

Meet Project Verify

CREATED BY THE MOBILE AUTHENTICATION TASKFORCE





More Specifically:









verizon√

T··Mobile





Built on existing carrier authentication (SIM)



SIM Swaps

> 450 M Subscribers



Stolen / Lost Devices



Carrier Threat Analytics



Authenticated Location



WIFI Supported

Integration not Replacement

We understand that identity is core to your business.



Integration not Replacement

We are not looking to replace the service provider identity.



We are going to strengthen it with ours.

Core Functions for Service Providers

Register

Sign Up using



Authenticate

Log In using

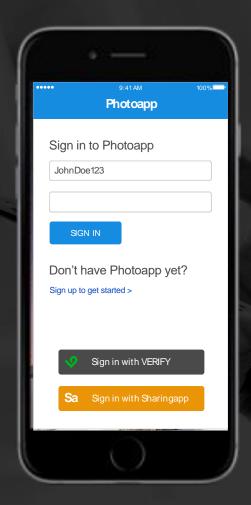


Authorize

Approve using



Sample Authentication Experience



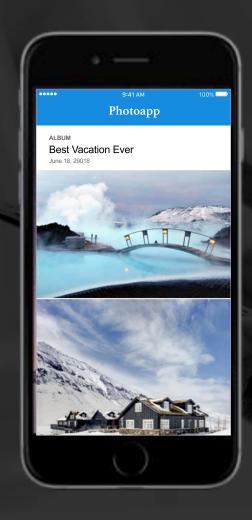
User choses Project Verify option

Sample Authentication Experience



User confirms the link and approves

Sample Authentication Experience





Done.

<u>User is able to use the service.</u>

How can we help your business?

Visit our Demo Booth:

Innovation City
Identity Section, Stand 14

www.MobileAuthTaskforce.com

Discussion: #BetterTogether: Taking digital identity to the next level

Moderator:

Marie Austenaa

VP and Head of Identity Business Development, GSMA

Rodger Desai

Founder and CEO, Payfone

Eric Woodward

Group President of Risk Solutions, Early Warning

Dr Khan Siddiqui

Founder and CTO, higi





Banking Case Study in the US

Presented by: Lyndi Long, Zumigo & Hrishi Talwar, Equifax

Emergence of One-time Passcodes

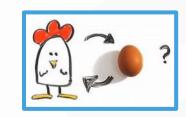


- Many US banks are phasing out email password reset links and challenge questions
 - Email accounts are easily hacked, allowing fraudsters to intercept the link
 - Challenge questions are cumbersome and customers often forget the answers
- Instead, banks are now sending one-time passcodes (OTPs) via voice or text message to the customer
 - In theory, the customer's ability to enter the one time passcode proves that they are who they say they are since they have possession of the phone

Challenges with OTPs



- OTPs have their own set of challenges...
- Fraudsters have learned how to hijack phone numbers to intercept voice and text OTPs
 - Porting Scams
 - > SIM Swaps
 - > Call Forwarding
- Some banks don't have the customer's current phone number on file
 - How does the bank know it is safe to send an OTP to a new phone number if they aren't sure the person giving them the phone number is the real person?!



Carrier Data

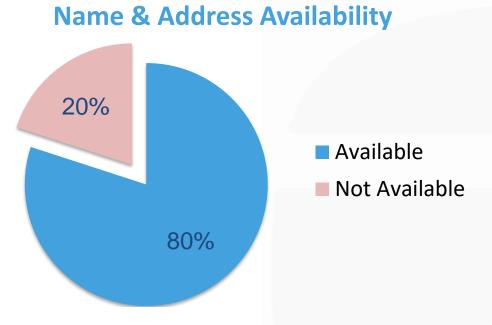


- The introduction of carrier data has helped with many of these challenges:
 - **✓ Detecting Ports**
 - ✓ Detecting SIM Swaps by looking for changes in IMSI & IMEI
 - ✓ Detecting Call Forwarding
 - ✓ Detecting "Riskier" Phones by checking for brand new accounts and prepaid phones
 - ✓ Verifying Ownership by checking the name and address associated with the phone number...but it's not perfect....

Phone Ownership Issues



 Phone ownership can be difficult to assess due to gaps in the data returned by the carriers

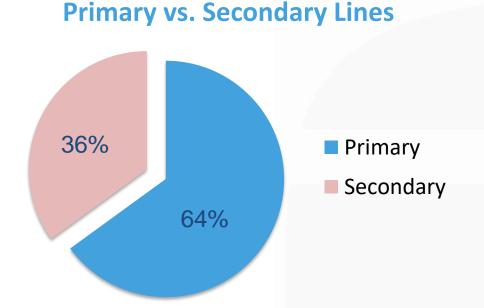


- Sprint does not return information for business or government accounts
- Many prepaid accounts don't have name and address information

Phone Ownership Issues



 Phone ownership can also be difficult to establish due to family plans



- Secondary lines are not always updated with the information of the person using the phone
- The primary account holder's information gets returned by the carrier instead

Phone Ownership Issues



Often, there is no obvious relationship between the name and address returned by the carrier and the person claiming ownership of the phone

- ✓ Mixed families have different last names due to divorce and remarriage
- √ Kids go away to college
- √ 41% of millennials (21-37 years old)
 are still on their parent's plan*
- ✓ Other "framily" (friends and family) are added to existing plans because it's cheaper to add a line









Householding for Matching

phone



 Zumigo has partnered with Equifax to offer householding to solve these problems





- Householding improves match rates in cases where the carrier returns information for the primary subscriber -instead of the person using the phone
- Credit and utility data is used to establish a link between the primary

 The linkage shows that they are part of the same household and are likely

subscriber and person using the



Householding: A Real-Life Example



Bank trying to verify:

Phone: 813-766-4054

Name: Isis Ash

Address...Sunnyvale, CA

MM/DD of Birth: 07/04



Phone: 813-766-4054

Name: Lyndi Long

Address...Plant City, FL

Nothing Matches!?



Equifax finds:

Name: Lyndi Long

Address...Plant City, FL

MM/DD of Birth: 05/31

Equifax looks for someone on a verified account with Lyndi with DOB=07/04 and finds:

Account: Sears Credit Card

Cardholder: Lyndi Long

Address...Plant City, FL

MM/DD of Birth: 05/31

Authorized User: Isis Ash

Address...Sunnyvale, CA

MM/DD of Birth: 07/04

Equifax Returns

Name: Isis Ash

Address...Sunnyvale, CA

MM/DD of Birth: 07/04

Zumigo compares the Bank and Equifax info:

Phone: 813-766-4054

✓ Name: Isis Ash

✓ Address...Sunnyvale, CA

✓ MM/DD of Birth: 07/04

✓ Name: Isis Ash

✓ Address...Sunnyvale, CA

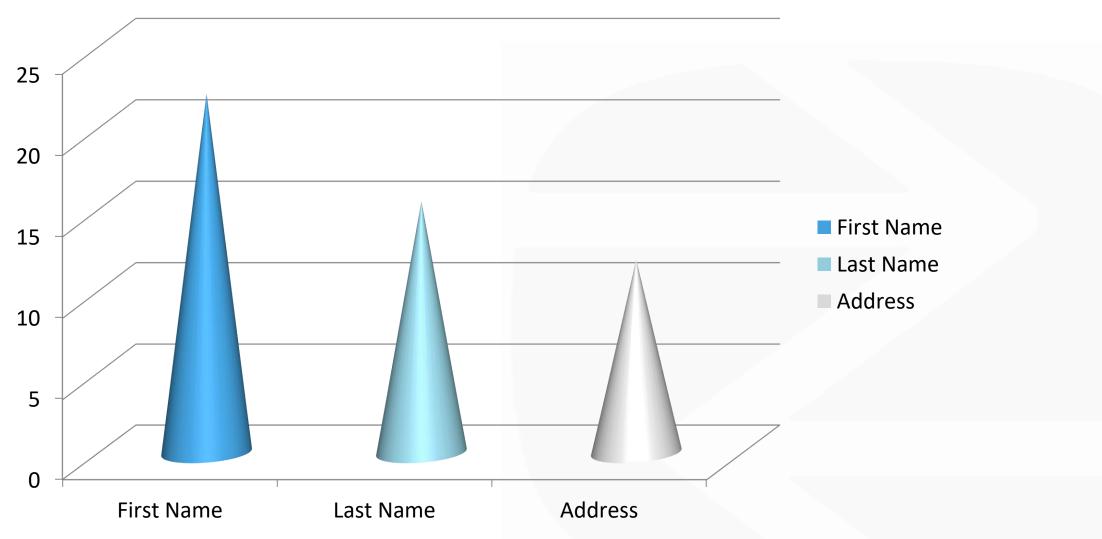
✓ MM/DD of Birth: 07/04

Isis is likely to be on Lyndi's family plan and this is likely to be Isis' number.

Case Study: Householding Statistics



% Match Rate Improvement for a Bank by Using Householding



Confidential & Proprietary – Zumigo & Equifax

Householding for Form Fill

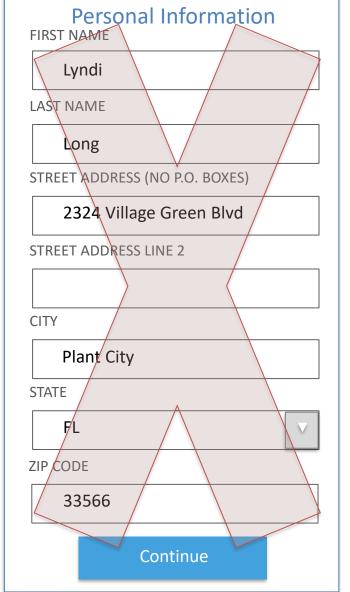


- Equifax uses carrier data in their InstaTouch offering
- InstaTouch is used by major retailers to automatically complete a credit card application on a mobile phone
- Householding improved the accuracy of the information that is filled out on the form

Form Fill: A Real-Life Example



BEFORE:



AFTER:

Personal Information FIRST NAME	
ı	sis
LAST	NAME
,	Ash
STREE	T ADDRESS (NO P.O. BOXES)
	1263 Lakeside Dr
STREE	T ADDRESS LINE 2
CITY	
9	Sunnyvale
STATE	
	CA
ZIP CC	DDE
9	94085
	Continue





Thank You





Mobile Connect for Microsoft Azure



Morgan Webb Senior Program Manager Identity

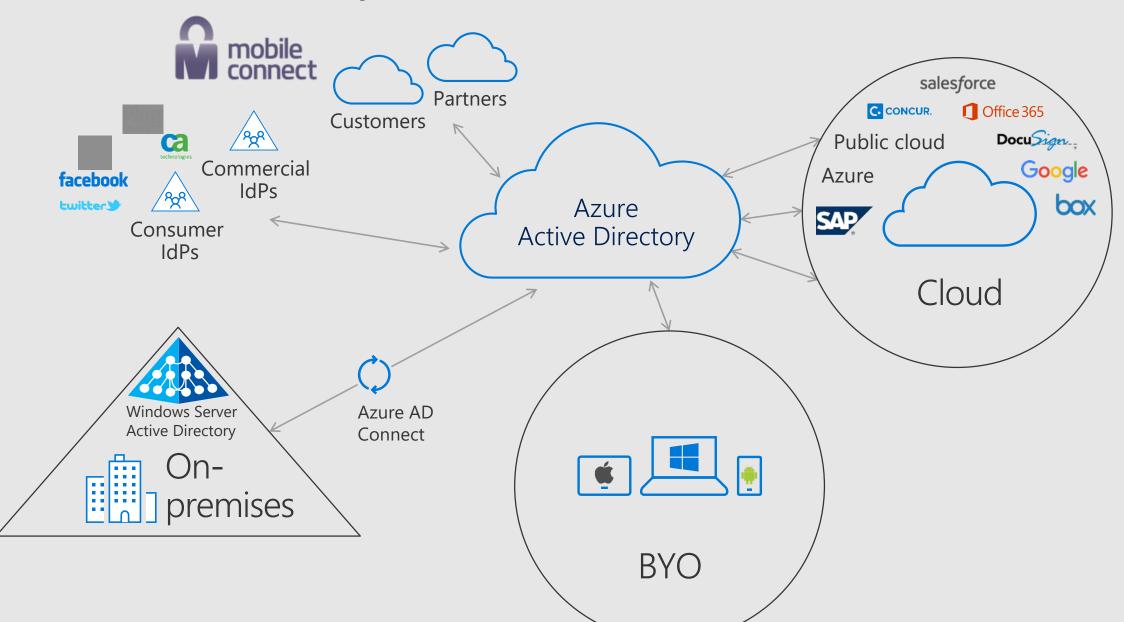


Robert Blumenthal
Chief Identity Officer





Identity as the Control Plane





MOBILE CONNECT CANADA

- Secure smartphone app authenticator (SAA)
- Deeply linked to telco-based authentication and IDV
- Multiservice account recovery and lifecycle management
- Supports web, mobile and call-centre channels
- National deployment planned for 2019











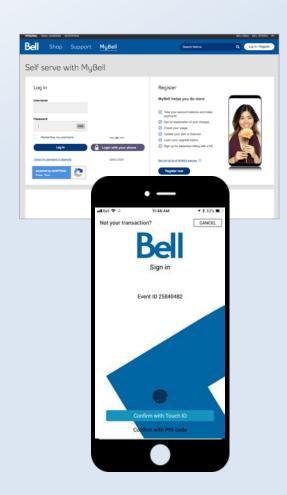


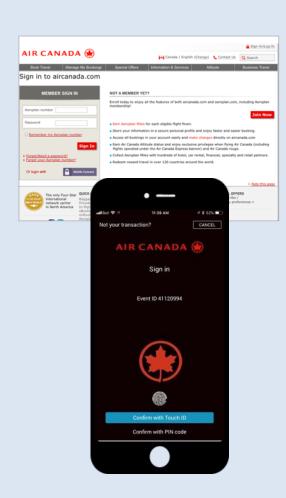


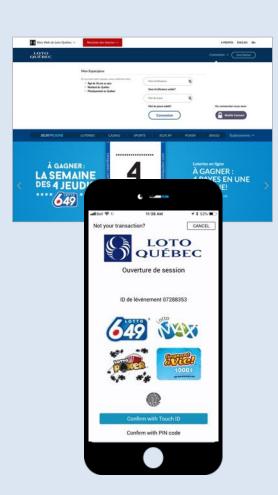


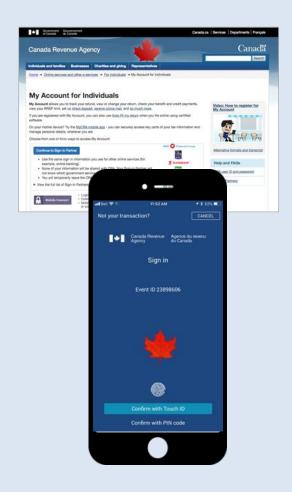


TRANSACTIONS WITH SERVICE PROVIDER BRANDING, DEVICE BIOMETRICS OR PIN





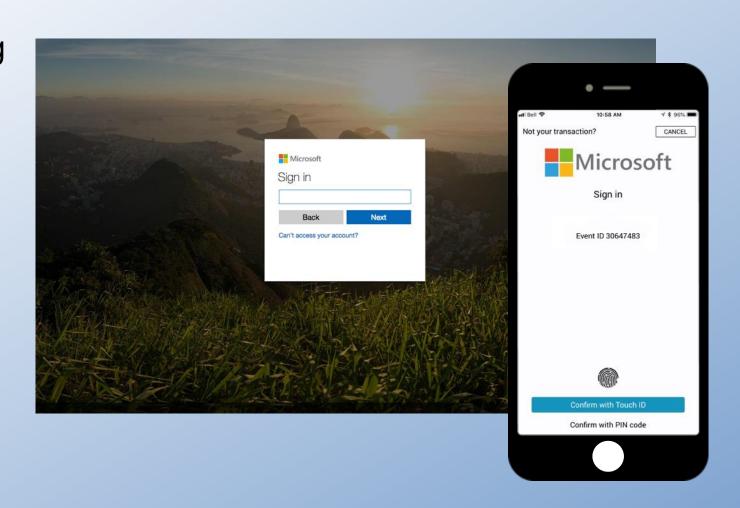






MICROSOFT PRIVATE PILOT

- Step-up authentication using Mobile Connect BYOD / BYOC
- Microsoft Azure, Azure AD, Office 365
- Configuration option for Administrators in supported markets
- Options for password-less authentication





Morgan Webb Senior Program Manager Identity



Robert Blumenthal
Chief Identity Officer

Discussion: Intelligent authentication US carriers make headway on challenging unauthorised access

Moderator:

Ana Tavares Lattibeaudiere

SVP and Head North America, GSMA

Bill O'Hern

Senior Vice President & Chief Security Officer, AT&T

Michael Goo

Vice President & General Manager, Emerging Businesses T-Mobile "" ""

Doug Garland

Vice President, Innovation & Partnerships, Sprint

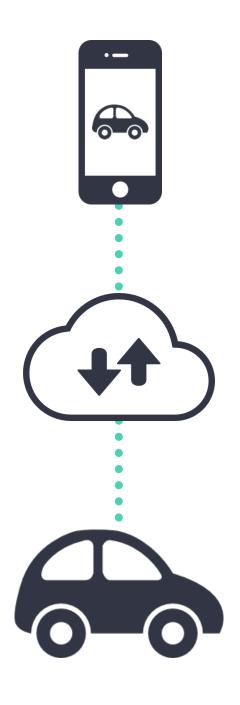
Pavan Challa

Director of Product Management, Verizon



DEBUNK MYTH No.1

M2M ≠ IoT







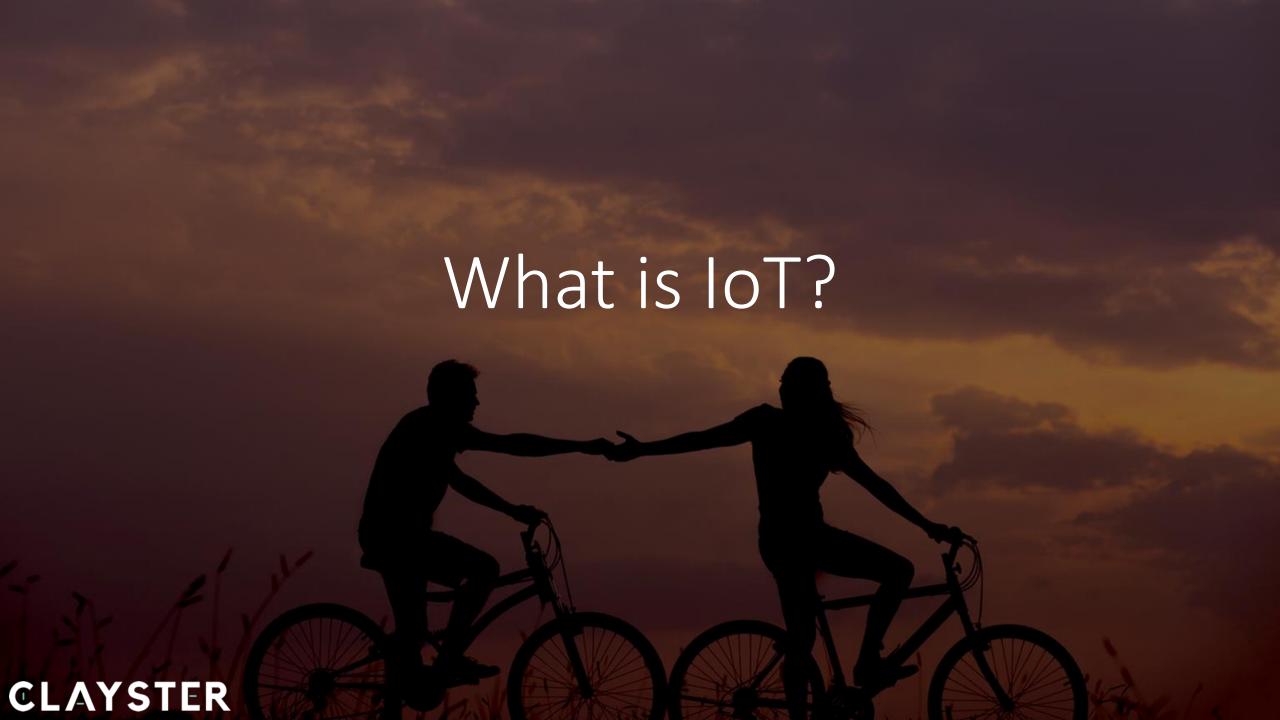
DEBUNK MYTH No.2

Product -> Service













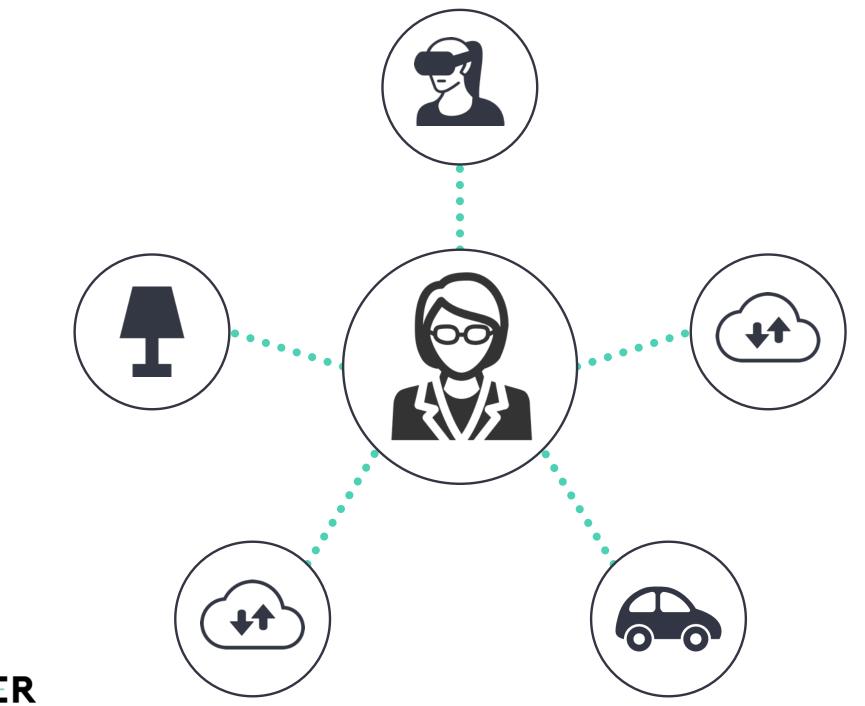


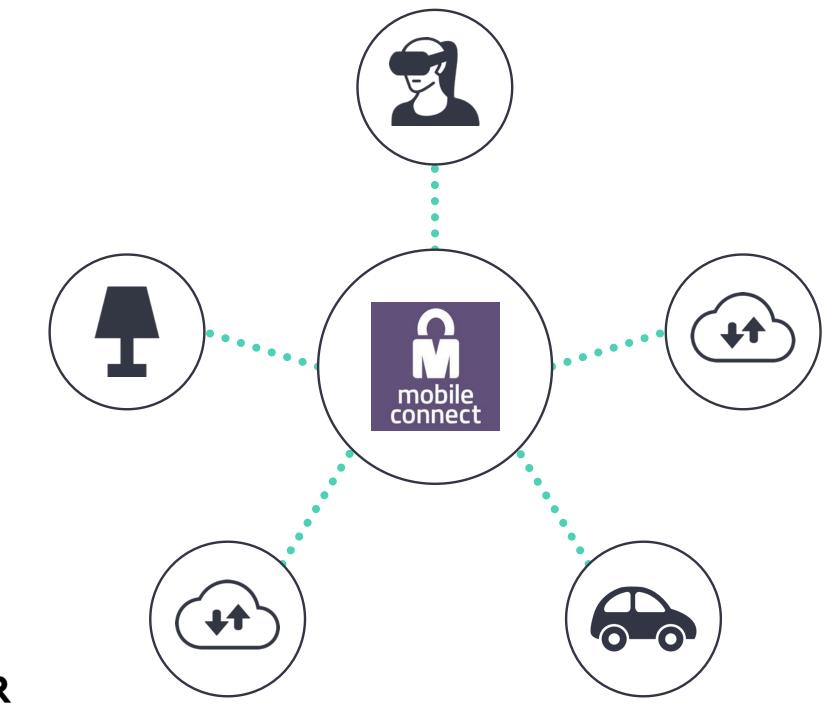




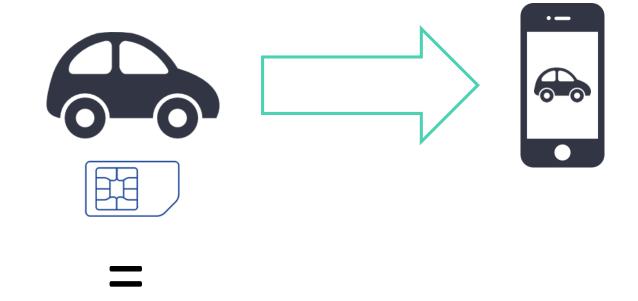




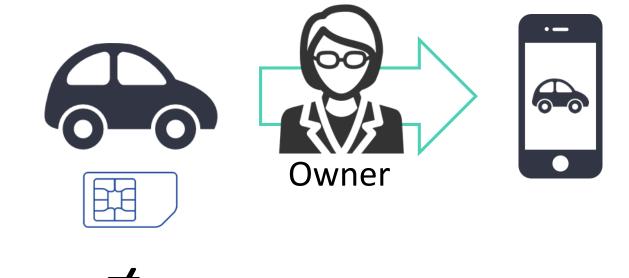






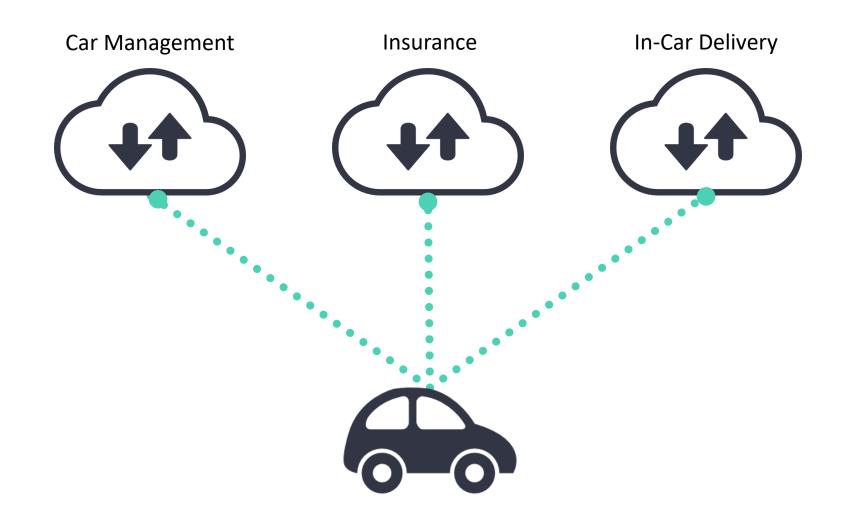


Revenue



Revenue









Brokering





Owner















Transfer Contract





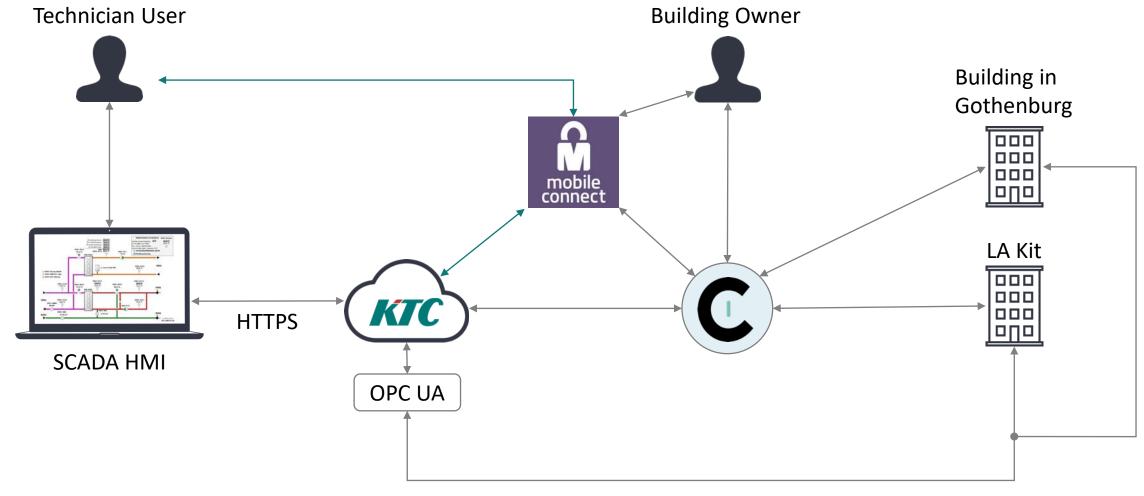
Service Providers



User



Use Case: Energy Management



Security: TLS

Transport: XMPP

Data model: LWTSD



Discussion: Future identity trends: IoT and ID Management

MILLIANTE

Moderator:

Mark Harvey

Global Engagement Director, GSMA

Jim Greenwell
CEO & President, Danal

Simon Wakely
SVP for Mobile Security, Gieseke+Devrient

Anatoly Kvitnitsky VP of Growth, Trulioo





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Summary & Thank You