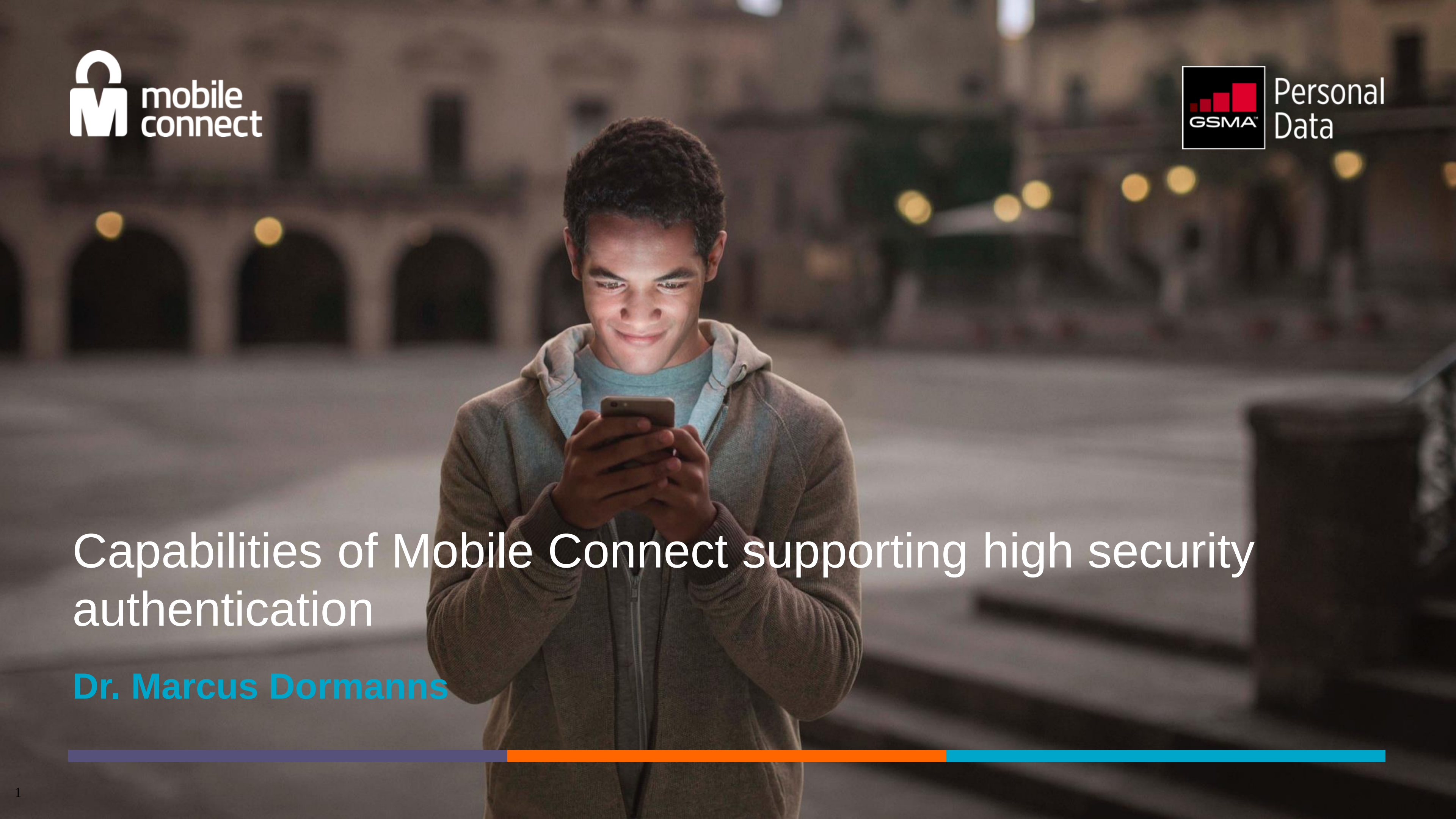


mobile connect

GSMA Personal Data

Capabilities of Mobile Connect supporting high security authentication

Dr. Marcus Dormanns

How to achieve high security – some initial observations

- Ability to achieve high security or enhance security is limited if you just optimize an Authentication of Identity product along one dimension

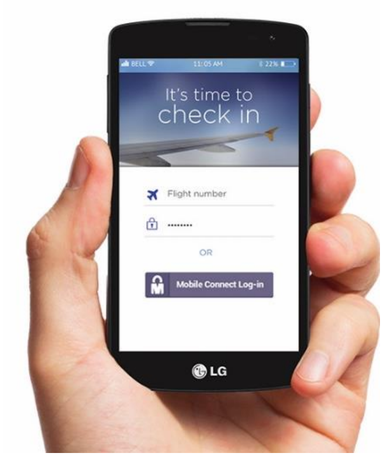
- Different use cases require different levels of security and different means to meet them

- Security is not a static feature – is requires the ability to increase the level of security and/or how it is achieved along with the evolution of:
  - Use cases
  - Technology
  - Risk assessment
  - Fraud scenarios

So let’s see what Mobile Connect offers to achieve high security

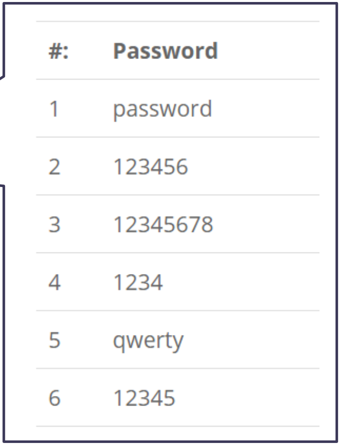
Ingredients for High Security - I

Mobile phone / SIM / MSISDN – “something you have” as the primary authentication factor



Prevents from:

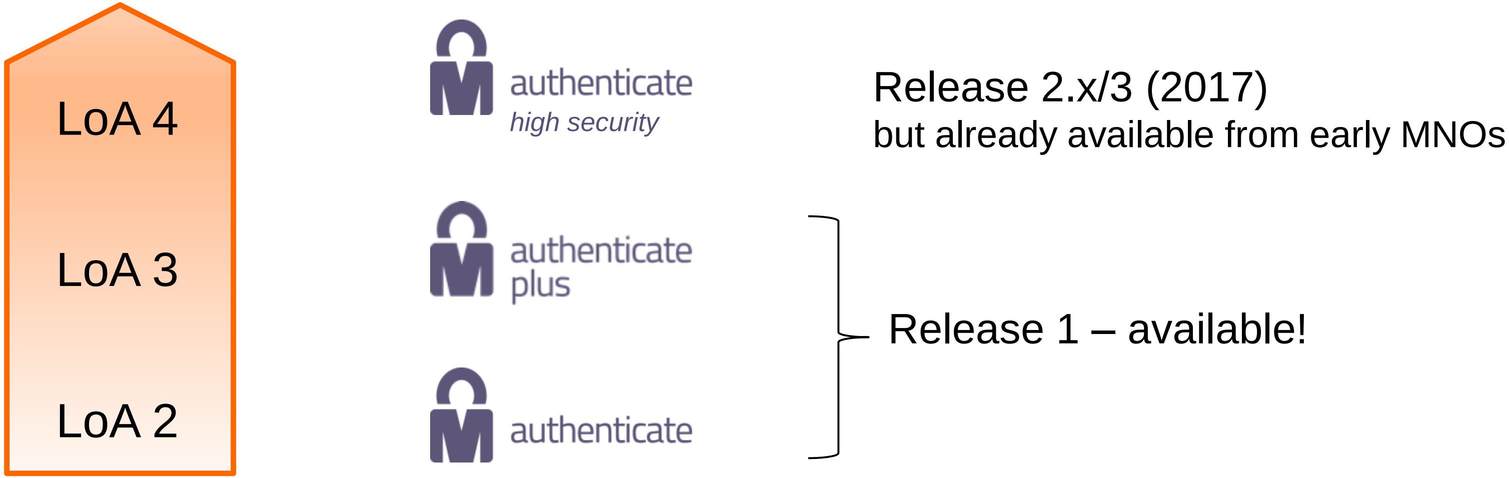
- “insecure” passwords
- Attacks which allow to steal 1000s of passwords in a single hack from a single database



#:	Password
1	password
2	123456
3	12345678
4	1234
5	qwerty
6	12345

Ingredients for High Security - II

Allows to authenticate to different Level of Assurance (LoA)



LoA 4

LoA 3

LoA 2

authenticate *high security*

authenticate plus

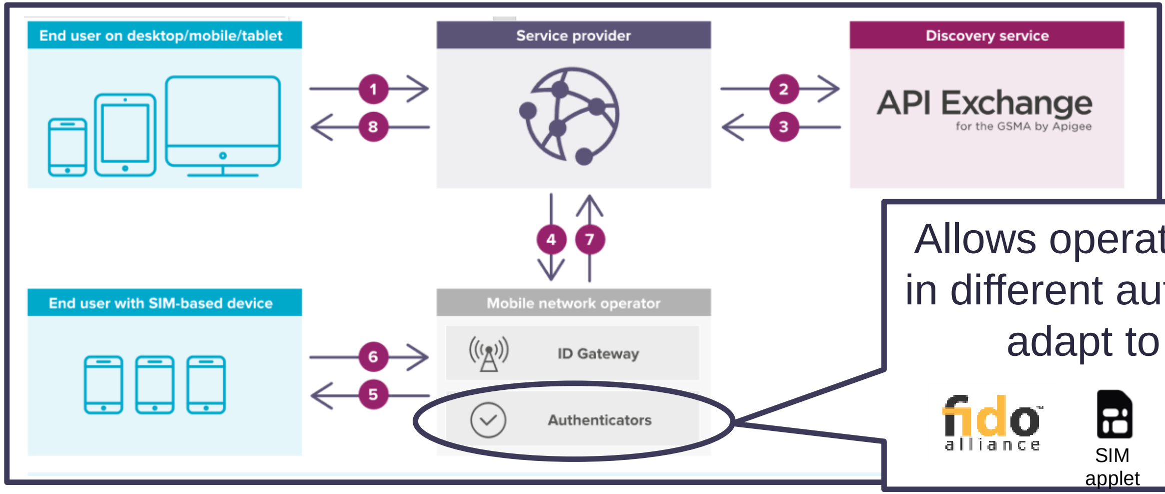
authenticate

Release 2.x/3 (2017)
but already available from early MNOs

Release 1 – available!

Ingredients for High Security - III

Modular / pluggable Authenticator architecture



Allows operators to easily plug-in different authenticators and to adapt to best-in-class

fido alliance

SIM applet

Smartphone app

SMS+URL

USSD

mobile connect

Ingredients for High Security - IV

Mobile Connect is not an Authentication Product – it is an identity solution based on a portfolio of products from different categories:

Authentication | Authorisation | Identity | Attributes

… allowing even more secure mash-ups, e.g.:

authenticate plus

α account protection

LoA3 authentication plus additional confidents that the account is really used by the “real” user

α KYC match

α Verified MSISDN

User attributes checked by Mobile Connect plus assurance that a transaction is really conducted on the phone which belongs to this user

α = This product name is still in alpha stage / will become available in 2017

Convinced - YES!