

About the GSMA

The GSMA represents the interests of mobile operators worldwide

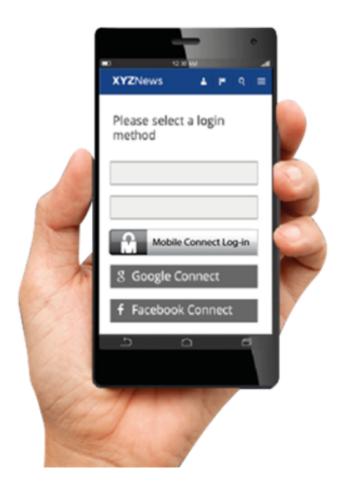
Spanning more than 220 countries, the GSMA unites nearly 800 of the world's mobile operators, as well as more than 230 companies in the broader mobile ecosystem





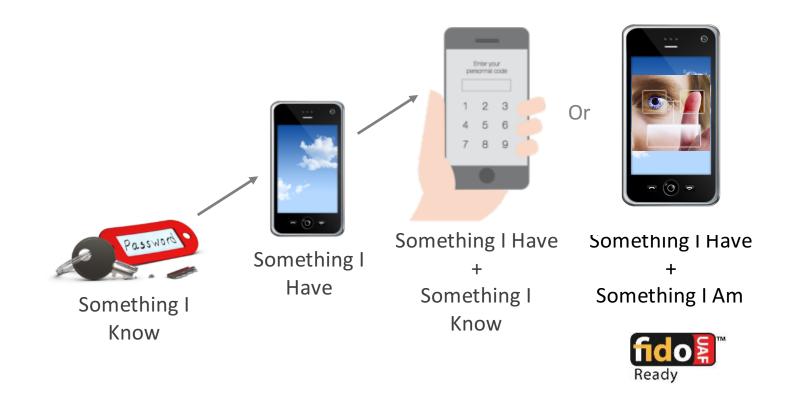
Mobile Connect: a convenient and secure alternative to passwords that also Protects consumers privacy

- Easy to use as it uses the mobile phone for authentication (i.e. no passwords)
- Anonymous but secure log-in (no passwords to steal, improved user experience, reduce friction)
- Adds trust into digital transactions (e.g. by confirming location, user identity, usage)
- Protects privacy (operator confirm credentials, user gives consent for sharing)
- Reduce SP fraud through assurance that there
 is as real person behind the account
- Simple and cost effective for MNOs to deploy, leveraging existing operator assets





Mobile Connect and FIDO both seek to replace passwords



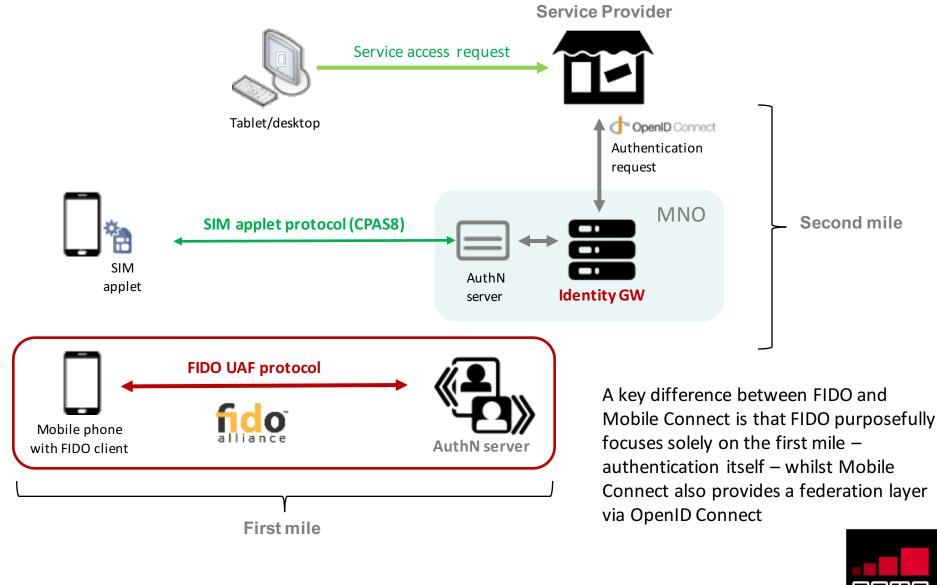


FIDO objectives align well with those of Mobile Connect

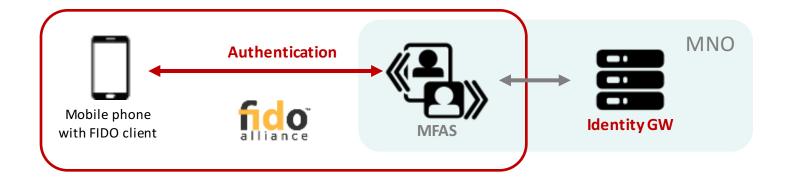
- Both FIDO and Mobile Connect are addressing the same problem: easier, safer online authentication
- Both FIDO and Mobile Connect leverage the mobile phone to achieve this
- Whilst Mobile Connect uses existing MNO services for authentication (SMS, USSD, SIM Toolkit)
- ... FIDO leverages the local device authentication on the phone itself
- In doing so, both provide easy, secure two-factor authentication
- Both also provide a pluggable framework that can support a variety of security levels as well as supporting new authentication methods as they arise



Synergistic fit using FIDO for the first mile of Mobile Connect



FIDO can be integrated into Mobile Connect to extend the range of authenticators



- Leveraging FIDO enables users to authenticate using existing authentication mechanisms on their mobile phone
- ...including biometrics the user becomes the credential (Something I am)









Mobile Connect and FIDO UAF integration: White Paper

Main objective:

- Overview of FIDO Architecture and use cases
- Integration of FIDO UAF authenticators into Mobile Connect arch

Status:

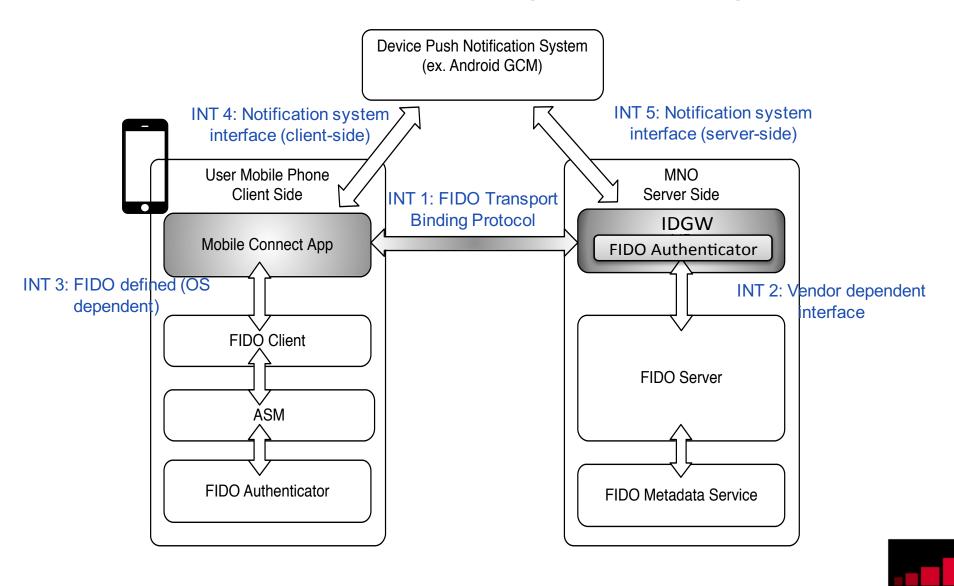
- Co-developed between GSMA, MNOs and FIDO members
- First draft finished and out for review within FIDO Alliance and GSMA; targeting publication by end June

Left for a second phase:

- UICC based FIDO authenticator
- Use of UICC to enhance FIDO implementation security
- FIDO U2F integration



Mobile Connect and FIDO UAF integration building blocks



Matching of FIDO policies to OpenID Connect 'acr_values'

- Service Providers need to be able to both specify and receive feedback on the type of authenticator used
- Mobile Connect
 - uses Level of Assurance (LoA) values (ISO 29115) in the OIDC request acr_values params, so the SP can indicate the authenticator class that should be used

FIDO

- uses the FIDO Policy to describe the required authenticator characteristics for accepted authenticators
- Options:
 - Expand the list of acr_values to accommodate additional LoA/policies
 - Capture SP requirements at registration to the Mobile Connect service and propagate via the Mobile Connect federation



Next steps



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GSMA White paper

- Continue Working on open issues related to the integration of the FIDO authentication framework with Mobile Connect
- Improve the document with feedback from the PoC

FIDO/GSMA/MNO PoC (June/July)

- Prototype of FIDO integration into an end-end Mobile Connect implementation: Telefonica + Nok Nok Labs
- Targeted for Mobile World Congress Shanghai

MNO/SP beta trial (post MWCS)

 Live implementation and trial of FIDO authenticators within a Mobile Connect service provided to an SP

