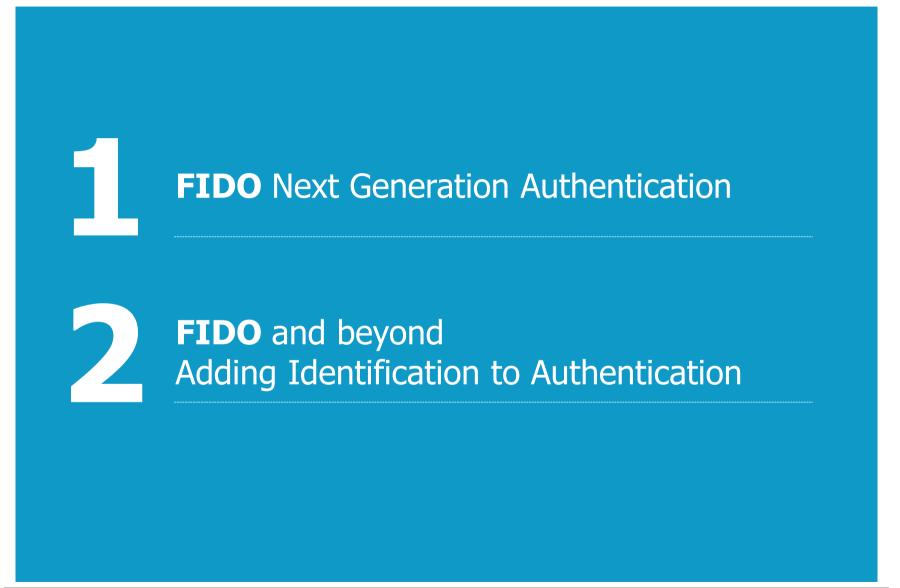


New Directions for Authentication & Identification

FIDO, PKI and beyond

11th of May 2015, FIDO Seminar, Dublin Dr. Kim Nguyen | Managing Director, D-TRUST GmbH





FIDO Next generation authentication







FIDO is an authentication system based on asymmetric cryptography without the typical PKI directory services on end user level. An ecosystem will be needed to establish trust in FIDO tokens for relying parties nevertheless. Elements of this ecosystem could be modelled closely after mechanisms successfully established in classical PKI systems.

Establishing Trust – Four Dimensions







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FIDO and beyond - joining authentication and identification.



Classical PKI based mechanisms typically mix elements of authentication and identification. FIDO mechanisms allow a clear differentation between authentication and identification. Positive aspects both for the relying party as well as the user (data protection, provide only the minimum amount of data required).





Typically, **no interaction** between these **two worlds**.

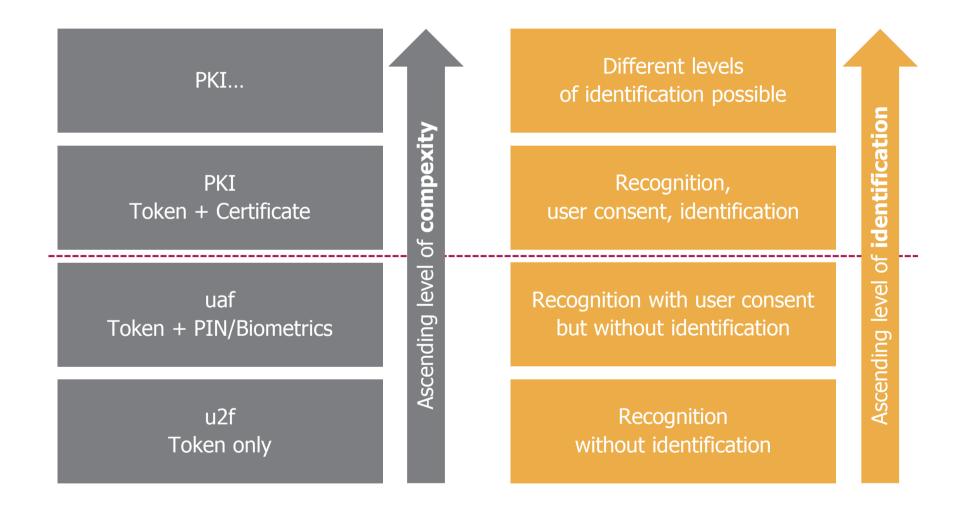




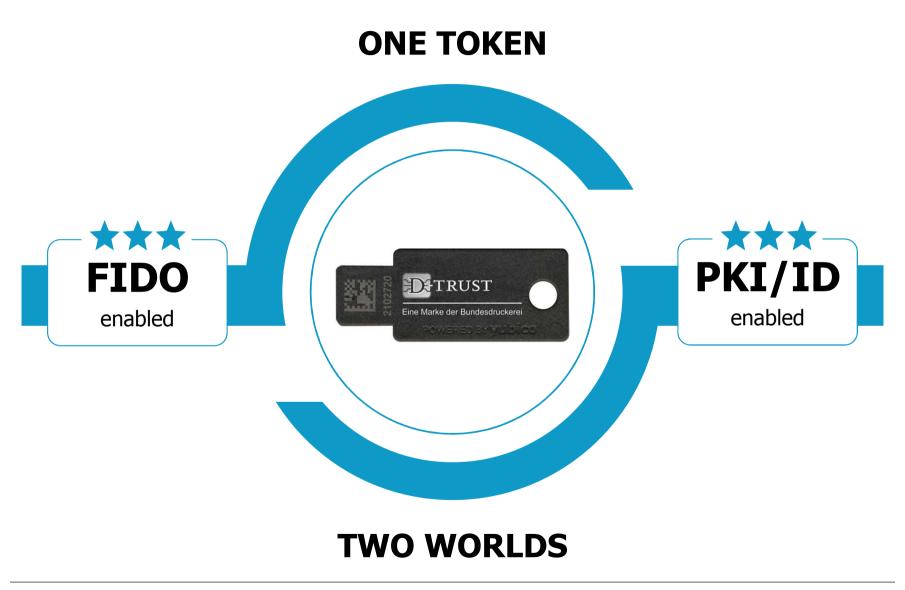
Bridging the world offers advantages for users and relying parties.

Layered Authentication/Identification model for FIDO and PKI

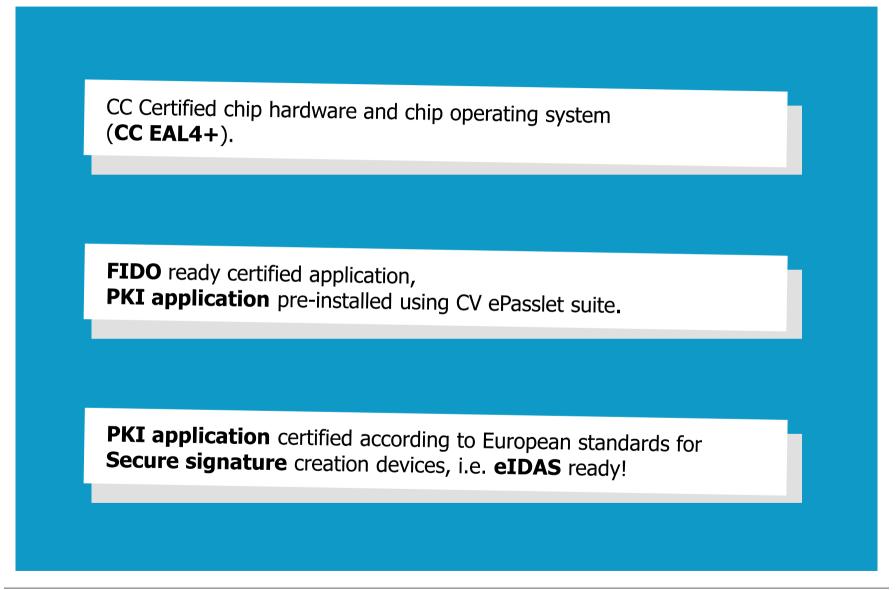






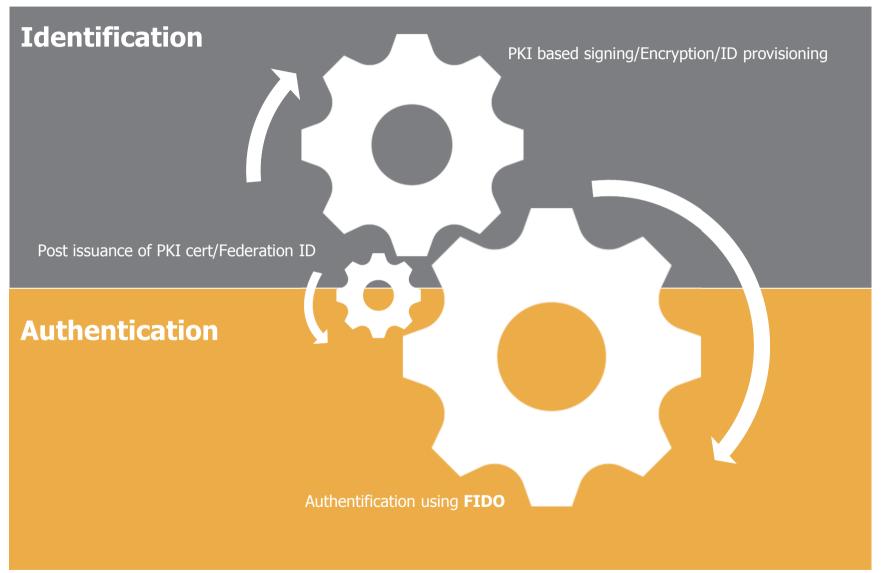






Use cases





Two interesting migration scenarios





Summary



FIDO offers a new userfriendly approach to authentication – **FIDO** is the future.

2

Trust in **FIDO** mechanism will rely both on trust into the token as well as in the ecosystem.



FIDO can be combined easily with (PKI/ID based) identification mechanisms – bridging two worlds.



Switch from device to user centric approach is vital – the success will largely depend on this!

Thank you very much for your attention.



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