



QWAC and QSeal – Identifying reliable sources

Swiss army knives for identity-based
online communication

Datum	28.10.2022
Ort	CA-Day
Verfasser	Enrico Entschew



Gefördert durch:
Die Bundesregierung

Antrag auf NRW-Soforthilfe 2020 an die Bezirksregierung

aufgrund eines Beschlusses des Deutschen Bundestages

Antrag auf Gewährung einer Soforthilfe für von der Corona-Krise 03/2020 besonders geschädigte Unternehmen und Angehörige Freier Berufe einschließlich Soloselbstständige aus dem Soforthilfeprogramm des Ministeriums für Wirtschaft, Innovation, Digitalisierung und Energie des Landes Nordrhein-Westfalen sowie dem Bundesprogramm „Soforthilfe für Kleinunternehmer und Soloselbstständige“ („NRW- Soforthilfe 2020“)

1. Antragsteller:

1.1

Antragsberechtigt sind Unternehmen, die wirtschaftlich und damit dauerhaft am Markt tätig sind, Angehörige freier Berufe im Haupterwerb mit jeweils bis zu 50 Arbeitnehmern sowie Soloselbstständige im Haupterwerb jeweils mit Hauptsitz in Nordrhein-Westfalen, die bei einem deutschen Finanzamt angemeldet sind und ihre Waren und Dienstleistungen bereits vor dem 31.12.2019 am Markt angeboten haben.

Nicht gefördert werden:
Unternehmen, die bereits vor dem 31.12.2019 in Schwierigkeiten gemäß Art. 2 Abs. 18 der Allgemeinen Gruppenfreistellungsverordnung (VO EU Nr. 651/2014) waren (vgl. hierzu Ziffer 6.8).

4 Wochen für 1€

29,99€

Zum Angebot

Handelsblatt

MEINE NEWS | HOME POLITIK UNTERNEHMEN TECHNOLOGIE FINANZEN MOBILITÄT KARRIERE ARTS & STYLE MEINUNG VIDEO SERVICE

Deutschland Konjunktur International Ökonomische Bildung

Handelsblatt > Politik > Deutschland > Kriminelle kopieren Website des NRW-Wirtschaftsministeriums

Suchbegriff, WKN, ISIN

CORONA-SOFORTHILFE

Betrug: Kriminelle kopieren Website des NRW-Wirtschaftsministeriums

Das NRW-Wirtschaftsministerium hatte die offizielle Website zu den Soforthilfen wegen Betrugsfällen vom Netz kommen. Nun zeigt sich: Es gibt eine täuschend echte Kopie.

12.04.2020 - 17:38 Uhr • Kommentieren • 6 x geteilt

Chronik Lesezeichen Extras Hilfe

Sectigo Limited (GB) https://crt.sh/?q=wirtschaft-nrw.info

Network Tools: DNS, IP, ... DNS Lookup Tool | Ult... Free online network to... CA/D-TRUST Issues - ... crt.sh | mozilla-disclos... Trusted Services

crt.sh Identity Search Group by Issuer

Criteria Type: Identity Match: ILIKE Search: 'wirtschaft-nrw.info'

Certificates	crt.sh ID	Logged At	Not Before	Not After	Matching Identities	Issuer Name
	2683337279	2020-04-08	2020-04-08	2020-07-07	www.wirtschaft-nrw.info	C=US, O=Let's Encrypt, CN=Let's Encrypt Authority X3
	2683334143	2020-04-08	2020-04-08	2020-07-07	www.wirtschaft-nrw.info	C=US, O=Let's Encrypt, CN=Let's Encrypt Authority X3
	2683335457	2020-04-08	2020-04-08	2020-07-07	soforthilfe-corona.wirtschaft-nrw.info	C=US, O=Let's Encrypt, CN=Let's Encrypt Authority X3
	2682700633	2020-04-08	2020-04-08	2020-07-07	soforthilfe-corona.wirtschaft-nrw.info	C=US, O=Let's Encrypt, CN=Let's Encrypt Authority X3

2020: Complete clone of the original website except for where the application was sent

Basis of the European digital trust space is the EU Regulation 910/2014 of 23 July 2014 / eIDAS

(electronic **ID**entification, **A**uthentication and trust **S**ervices)

- Coming into force in 2014
- Gradual extension of the scope until 2018
- Revision in progress since June 2021
- Adoption expected in 2023

Qualified trust services according eIDAS (2014)



Qualified certificate for electronic signature (QSignature)



Qualified validation service



Qualified preservation service



Qualified electronic time stamp



Qualified electronic registered delivery service



Qualified certificate for electronic seal (QSeal)



Qualified certificate for website authentication (QWAC)



Qualified certificate for electronic Seals (QSeal)

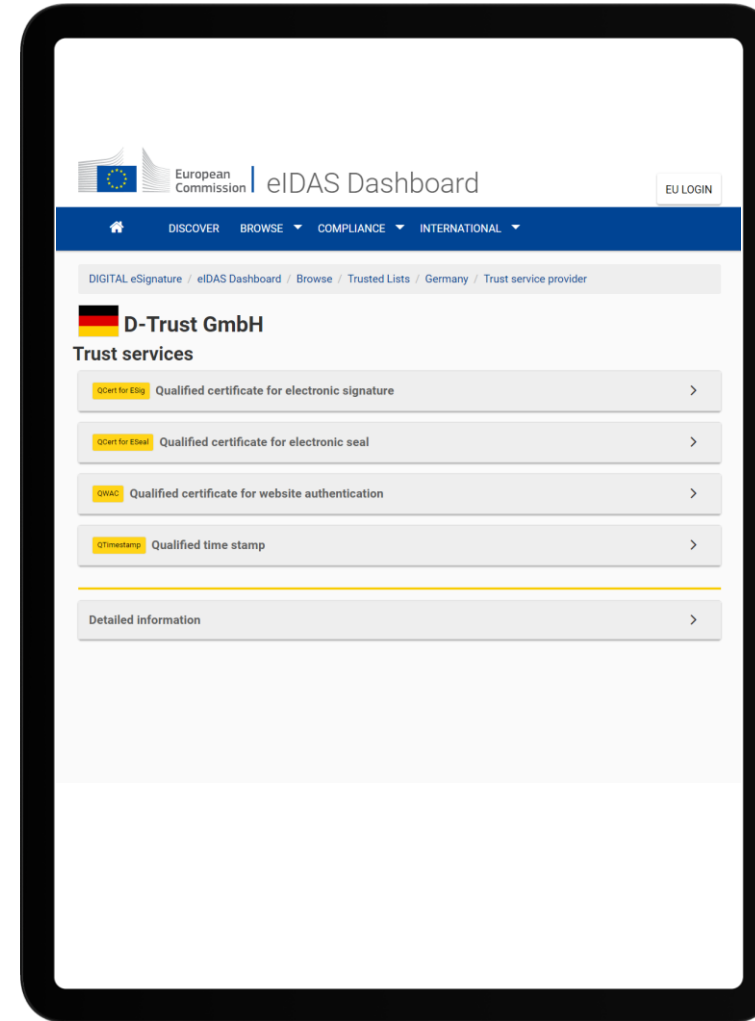
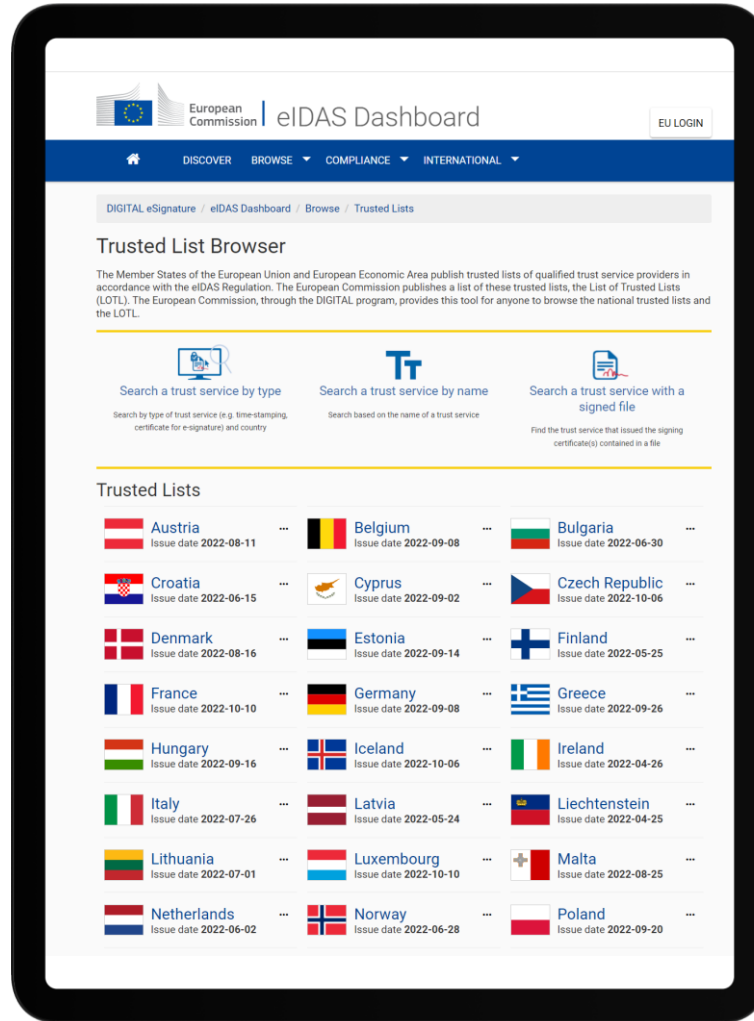
- Serves as evidence that the data was issued by a legal entity
- Proves the integrity and origin of the data (eIDAS Article 35)
- Legal effect and admissible as evidence in court proceedings
- A representative of the legal entity has been identified
- Secures the application layer



Qualified certificates for website authentication (QWAC)

- Assures the user that there is a genuine and legitimate entity standing behind the website (eIDAS recital 67)
- A representative of the legal entity has been identified
- Secures the transport layer

The EU Trusted List – The source of trust



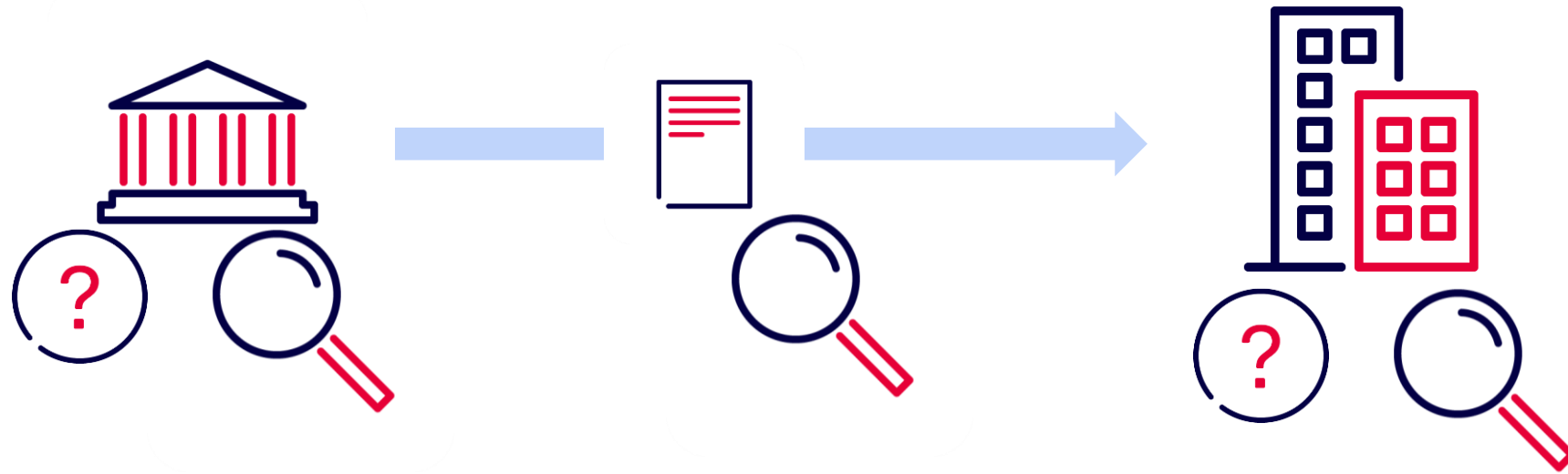
The EU Trusted List (EU TL) provides a European and vendor-independent directory of QTSPs

What are reliable sources?

All sources of information whose identity can be verified in a trustworthy manner as well as the integrity and authenticity of information or data provided by it

Authentic source according to the draft of eIDAS revision by the commission (June 2021) (Article 3 Nr. 46)

'authentic source' is a repository or system, held under the responsibility of a public sector body or private entity, that contains attributes about a natural or legal person and is considered to be the primary source of that information or recognised as authentic in national law;



Need for mutual authentication

The PSD2 Model

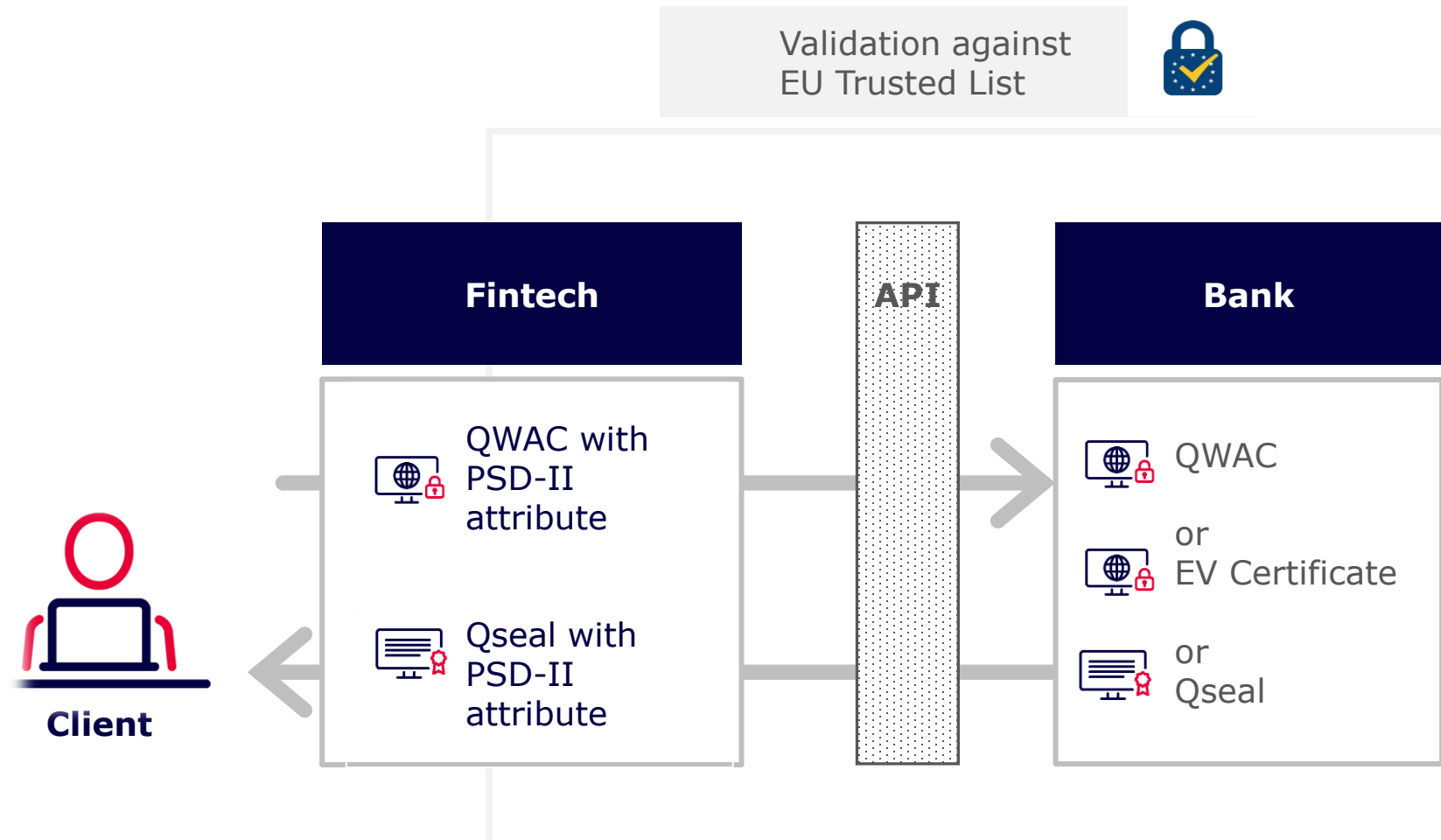
Problem was:

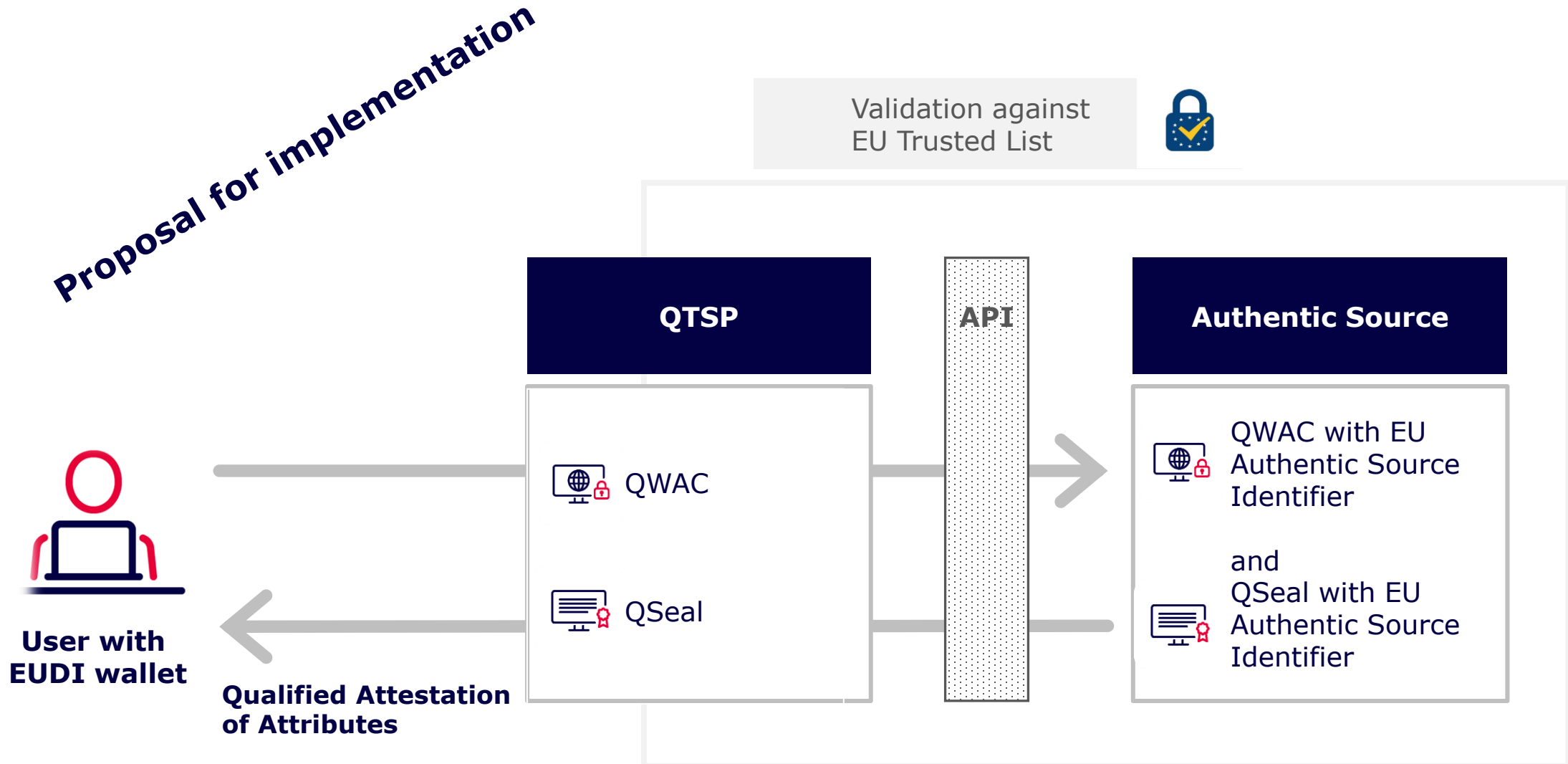
- Fintechs: unregulated access to banks' customer accounts
- Risk in IT security, data protection and consumer protection

Solution now :

- Activity of fintechs subject to licensing and government supervision
- Banks provide specific interfaces for online access by fintechs
- Regulatory technical standard for interfaces and mutual authentication

Mutual authentication with eIDAS means of verified and reliable market participants enables standardized, Europe-wide innovative business models in the financial industry





Take away

- Reliable sources must be protected in order to reduce the risk in IT security, data protection and consumer protection
- Mutual Authentication and integrity and authenticity proofs can support this
- The technical implementation can be done by QWACs and QSeals and should follow a common standard
- Relying on the PSD2 model can help build a secure ecosystem for the new qualified attestation of attribute trust service
- Authentic source attributes can provide a consistent labeling of authentic sources without the need to know the local environment

Thank you.

Enrico Entschew

D-Trust GmbH

Expert: Principal Industrial Standardization and Compliance

Email: e.entschew@d-trust.net or enrico.entschew@bdr.de

Please note: This presentation is the property of D-Trust GmbH.

All of the information contained herein may not be copied, distributed or published, as a whole or in part, without the approval of D-Trust GmbH.

© 2021 by D-Trust GmbH