

News about Qualified Certificates for Website Authentication Has the Gordian knot between QWAC and browsers been cut?

Date: 14.10.2021

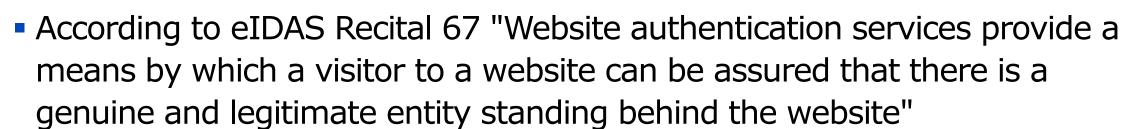
Place: Online / 54. F2F CA/B-Forum

Speaker: Enrico Entschew





- Trust service of eIDAS
- Classic TLS certificate according to RFC 5280
- Check against eIDAS Trusted List



QWAC is to be used in accordance with the rules of the EU

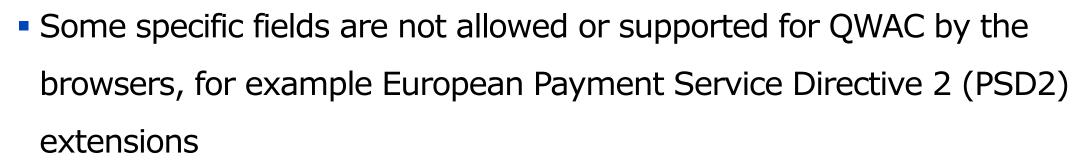
QWACs are an important technical tool for establishing the European Digital Single Market as part of the Digital Agenda for Europe.







- Rarely used in connection with the browser
- Use only if CA/B-Forum guidelines are followed
- Root CA must be included in the root store of the browser



There were intense discussions between the EU Commission and browsers on the recognition of QWAC.

- 14.10.2021





- Different and competing solutions for implementation
 - tls-QWAC, nt-QWAC, ac-QWAC, self-signed QWAC
 - Parties agreed to disagree



- Browsers' positions
 - Purpose of QWAC: provider of identity credentials, not tls-handshake
 - Different responsibilities: CA/B-Forum/ Browsers versus ETSI/ Supervisory Bodies
 - Fear of website certificate whitelisting by government dictate / External trust source

It was still an important and productive discussion to address the function and realization of the QWAC.



- 2020: Consultation process on an eIDAS revision
- 3 options for revision: Improvement,
 expansion to private sector or introduction of an EUid
- June 2021: release of proposal of eIDAS revision
 - Commission chose EUid!
 - Milestone for digital identity improvement in Europe



The introduction of an EUid-Solution is a major step ahead into the future of the European Digital Single Market.

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New Recital 32:

- Assurance that there is a genuine and legitimate entity standing behind the website
- Use of website authentication services is voluntary
- Browsers should ensure support and interoperability with QWAC
- Browsers should recognise and display QWAC to the user

Revised Article 45:

- Includes two new paragraphs
- Contains the rules in detail

The importance of QWAC for Europe is addressed in the new revision.





New paragraph 2 of Article 45:

- QWACs shall be recognized by the browsers
- Browsers shall ensure that the identity data provided is displayed in a user friendly manner



- Browsers shall ensure support and interoperability with QWACs
- Exception: microenterprises and small enterprises in the first 5 years of operation

New paragraph 3 of Article 45:

 Within 12 months after revision takes effect, implementing acts for QWAC will be published

The commission integrates the role of the browser with the need of the European Digital Single Market.

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We still need the bridge between the browsers and QWAC.



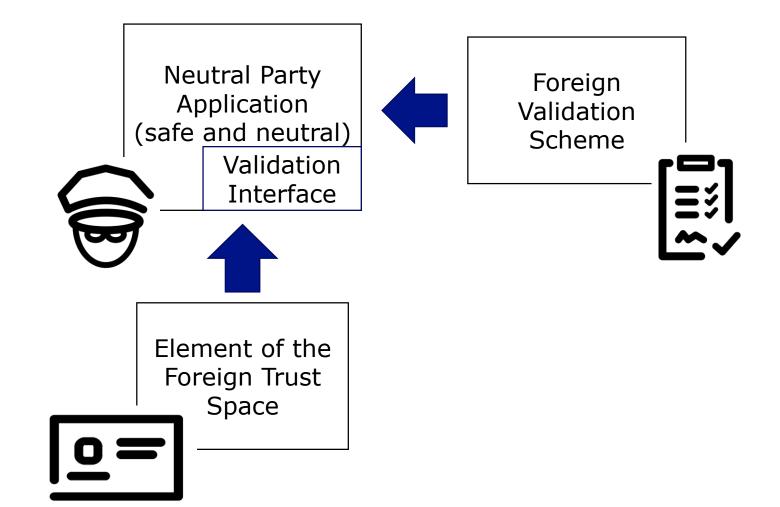
- Users and certificate holders can use QWACs in the browser
- Browser displays the QWAC information in a user friendly manner
- Browser ensures interoperability and support with QWACs
- EU retains sovereignty over the QWACs by providing the specifications and reference numbers of standards for QWACs



A bridge taking into account all these interests is needed.

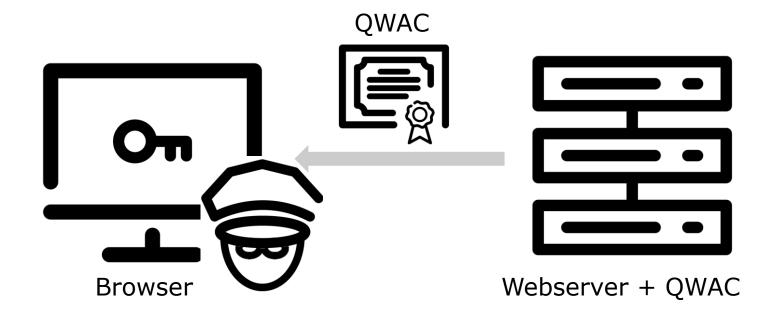


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So far, everything is the same as with the normal TLS certificate.

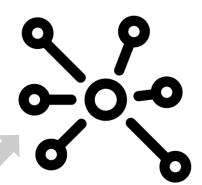
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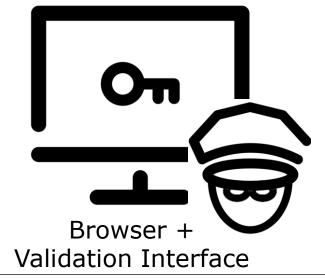
QWAC Validation Scheme



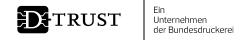


EU Trusted List +
National eIDAS
Trusted List





Thus a QWAC can be used in the browser without any risk for both parties.



- All conditions are favorable at the moment.
- The complicated problem of fully exploiting QWACs has not yet been solved.
- The trust space concept can clearly help solve this problem.
- ETSI can make a valuable contribution by creating standards for machine-readable validation schemes according eIDAS and visualization of QWACs, among others.



The QWAC journey is not over yet, but we are on a good path...

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