

TRUST SERVICE AUDITING

THE ART OF
SIMULTANEOUSLY FOLLOWING
MULTIPLE STANDARDS



Clemens Wanko - TÜV TRUST IT / TÜV AUSTRIA CERT

STATUS QUO

- Legal, technical, organizational rule sets

SITUATION FACING

- Challenge of simultaneously managing multiple standards

TSP SPECIFIC SOLUTION

- Get your bearings and find your way out

eIDAS started in 2016/17

By that time, we didn't have much...

- eIDAS legal requirements
- ETSI EN 319 401 v2.1.1 (2016-02)
- ETSI EN 319 411-1 v1.1.1 (2016-02)
- ETSI EN 319 411-2 v2.1.1 (2016-02)
- ETSI EN 319 421 v1.1.1 (2016-03)

...implementing acts?

Accreditation, certification,
audit schemes?

based upon ETSI TS 102 042, ETSI TS 101 456 and ETSI TS 102 023
covering issuance of public key certificates qualified certificates and time stamps



Today we have improved...

Commission Implementing Decision (EU) on Trust Services

- 2015/806
EU Trust Mark for Qualified Trust Services
- 2015/1505
Technical specifications and formats relating to trusted lists
- 2015/1506
Specifications relating to formats of advanced electronic signatures and advanced seals to be recognised by public sector bodies
- 2016/650
Standards for the security assessment of qualified signature and seal creation devices



...and we have...

A national legal implementation supporting eIDAS in several EU memberstates!

e.g. Germany:

- Vertrauensdienstegesetz
- Verordnung zum Vertrauensdienstegesetz



**...we have supporting ETSI / CEN Standards
for Trust Services in almost all areas...**

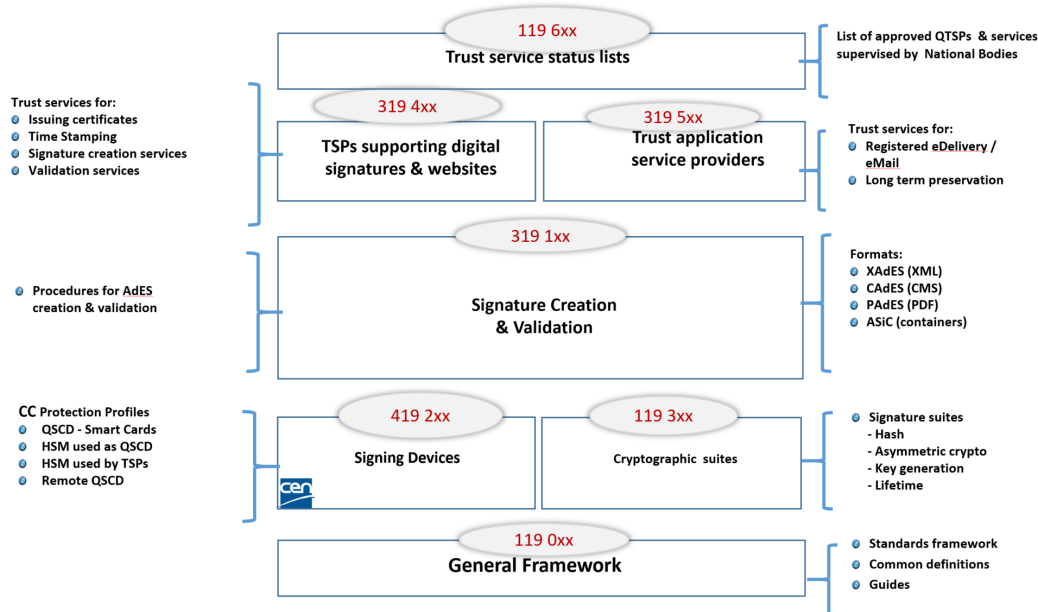
- **TSL**
- **TSP supporting digital signatures & websites**
(Issuing certificates, Time Stamping, Signature creation services, Validation services)
- **Trust application service provider**
(Trust services for: Registered eDelivery/eMail, Long term preservation)
- **Signature Creation & Validation**
(Procedures & Formats)
- **Signing devices**
(CC protection profiles)
- **Cryptographic suites**
(Signature suites)
- **General Framework**



Trust Service Auditing

The art of auditing multiple standards

...we have supporting ETSI/ CEN Standards for Trust Service in almost all areas ...



Trust Service Auditing

The art of auditing multiple standards

...and hey, we are
well structured...

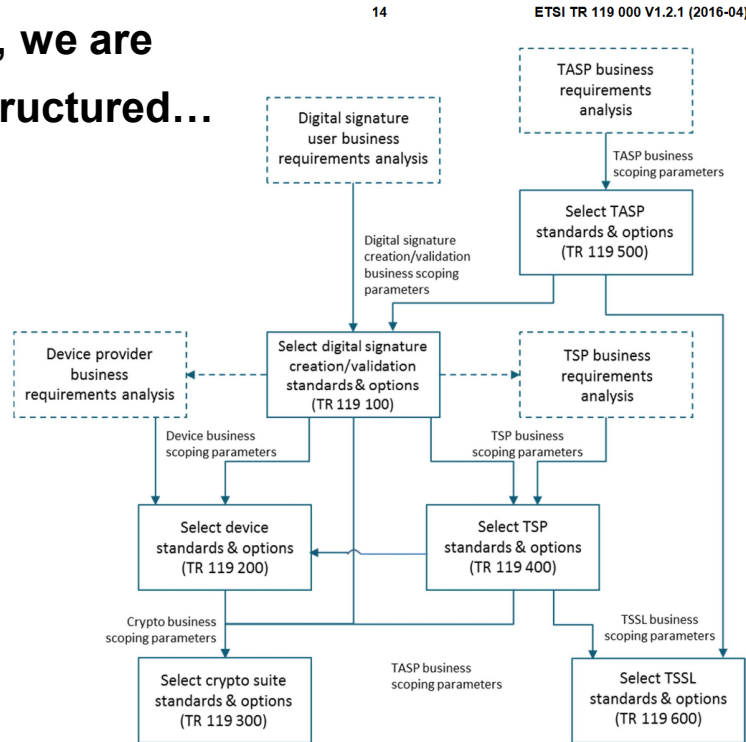


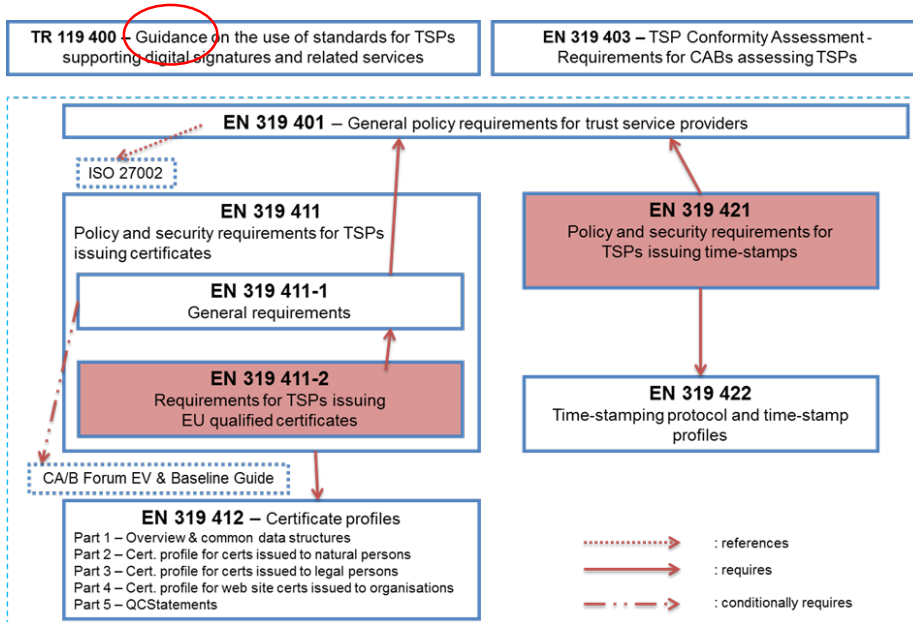
Figure 3: Dependencies of the business scoping parameters among the functional areas



Trust Service Auditing

The art of auditing multiple standards

...and luckily enough, we do have support and crystal clear guidance!



But hold on...

**that's only been the
eIDAS / ETSI / CEN requirements part!**



There is more to come!

Other TSP related requirements...

- **CA/Browser Forum Requirements**
(Baseline Requirements, EV Guidelines, Network security requirements)
- **Browser Root Store Programs**

AICPA (American Institute of Certified Public Accountants)

- **WebTrust**
(if not replaced by ETSI EN 319 411)
- **SOC2**
(Service Organization Control – SOC
Security, Availability, Processes, Integrity, Confidentiality, Secrecy, Data protection)
 - Type 1 (design)
 - Type 2 (design and effectiveness)



...and toppings up to your individual flavour:

- **ISO 27001**
Information Security Management Systems
- **GDPR**
General Data Protection Regulation requirements
- **ISO 14001**
Environmental Management Systems
- **ISO 50001**
Energy Management Systems
- ...



**Let's stop considering standards then...
...let's talk about their implementation:**

Audit schemes focusing at

- full scale past-present-future (eIDAS/ETSI)
- past period (public accountants)

Audit frequency, requiring

- yearly full audit (CA/B Forum)
 - bi-yearly audit (eIDAS/ETSI)
 - three-yearly audit (ISO27xxx)
- + supervision

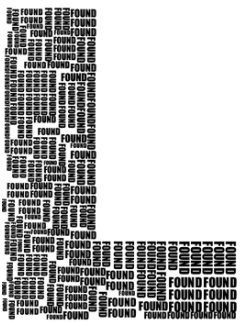
Certificate maintenance

- scheme to be agreed between CAB and TSP (ETSI EN 319 403)
- none, others



Trust Service Auditing

The art of auditing multiple standards



No universal solution!

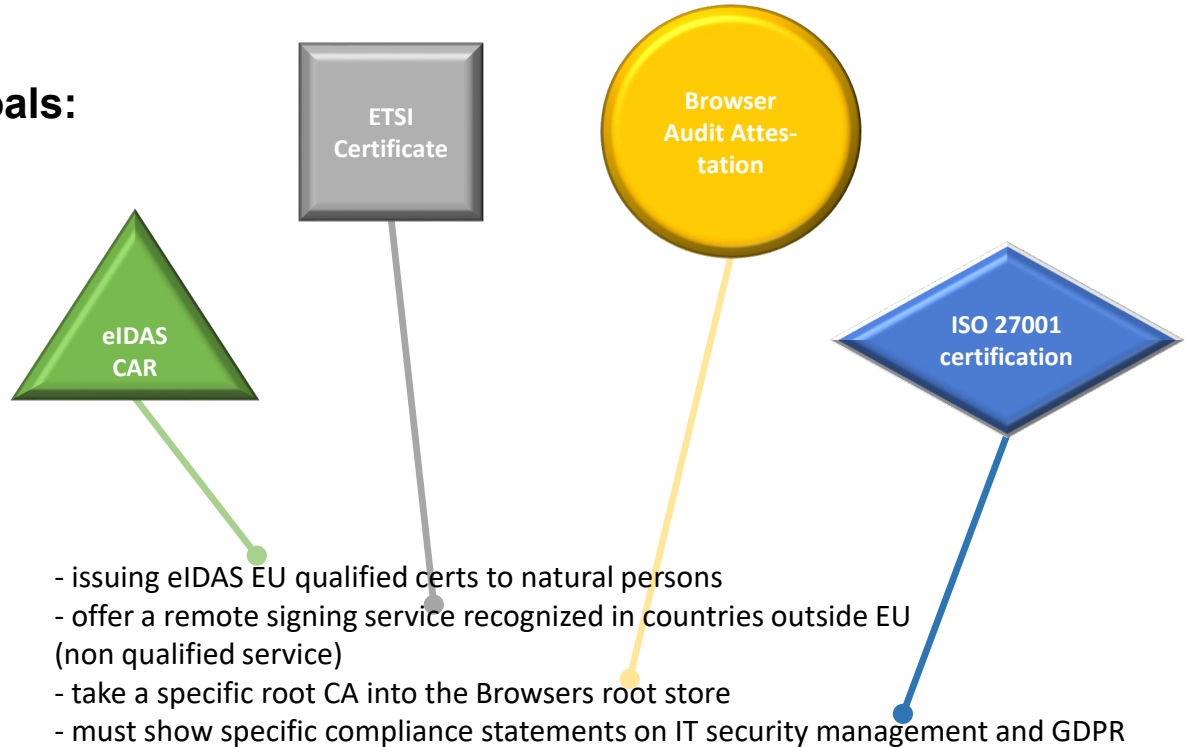
TSP approach to overcome the confusion:

Make sure you know...

- **where you are today**
 - experienced EU based PKI operator
 - issuing non qualified electronic certificates for natural persons
- **your goals**
 - issuing eIDAS EU qualified certs to natural persons
 - offer a remote signing service recognized in countries outside EU (non qualified service)
 - take a specific root CA into the Browsers root store
 - must show specific compliance statements on IT security management and GDPR



Transfer into focussed goals:

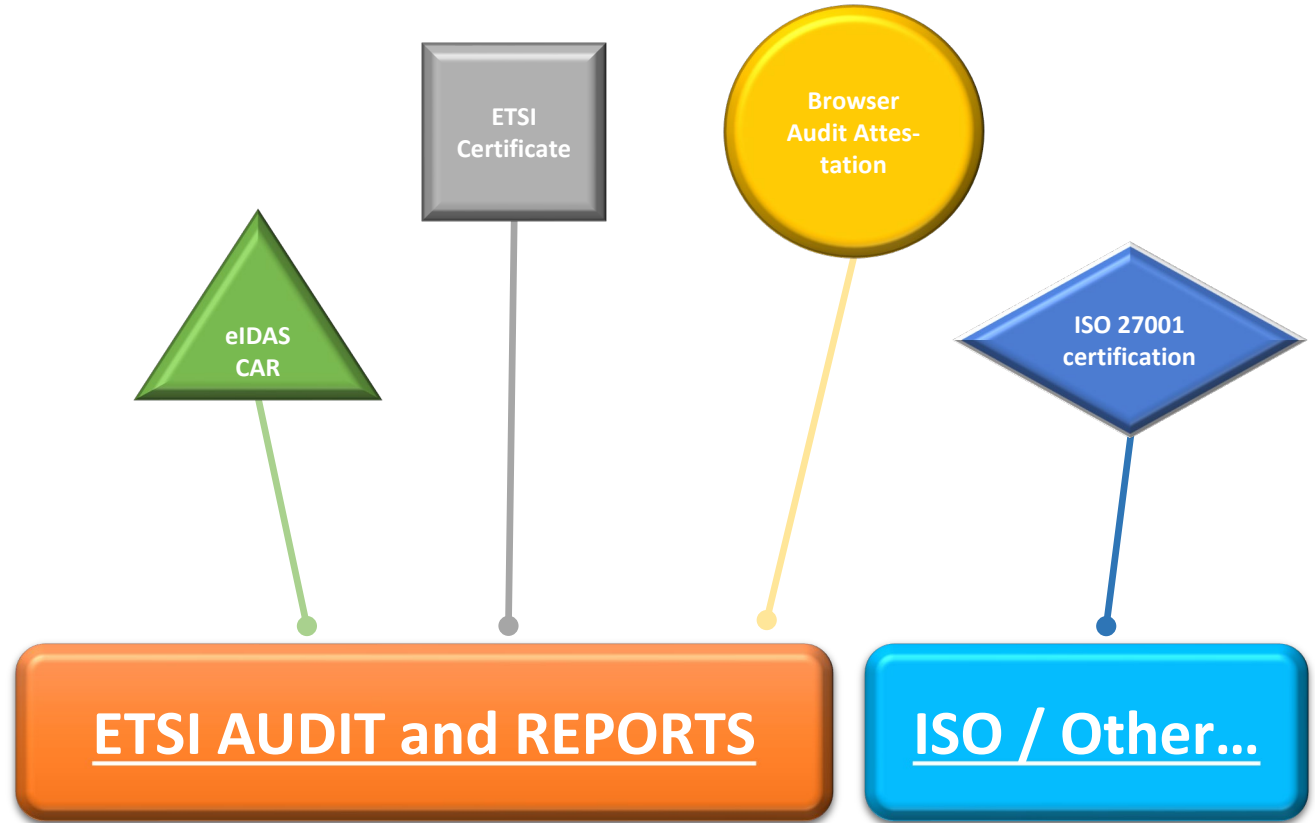


Trust Service Auditing

The art of auditing multiple standards

Focussed goals:

- Use case



- Audit base

Ask for joint & integrated auditing

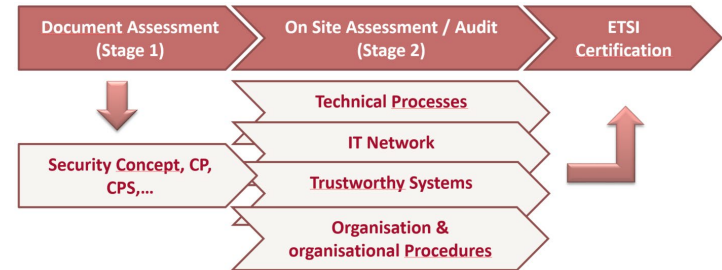
Makes perfectly sense for

- all standards with overlapping requirements

Even a synchronization of

- schemes
- audit frequency
- maintenance

is possible!



- **Audit base**

ETSI AUDIT and REPORTS

ISO / Other...



Goal:

**save time for your staff members
to work on the real stuff!**

Definition of „real stuff“ is up to U! 😊



**Use the support of
your
Conformity Assessment Body for that.**

We shall be happy to assist you!

Accredited Conformity Assessment Body

for Trust Service Provider under eIDAS



Clemens Wanko

TÜV TRUST IT
Waltherstr. 49-51
51069 Köln

Telefon +49 170 80 20 20 7
clemens.wanko@tuv-austria.com



www.it-tuv.com

