

ENISA TRUST SERVICES FORUM - CA DAY 2021

# EIDAS 2.0 - SERVICE MODULES RELOADED

## CROSS BORDER PROVISIONING OF SERVICE MODULES FOR TSP



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- I. What are „Modules“ and why are they a good idea?**
  
- II. eIDAS Regulation (EU) 910/2014 – what’s the state of play?**
  - Requirements for Module Operators
  
- III. eIDAS Regulation 2.0\* – what’s the future?**
  - New level of complexity
  - Variety of responsible bodies to serve

\*draft as of June 3rd, 2021

### **I. What are „Modules“ and why are they a good idea?**

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## Service Modules for Qualified Trust Services under eIDAS 2.0

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### I. What are „Modules“ and why are they a good idea?

Functional segregation of process elements for Qualified Trust Services (QTS)

Example:

QTS issuing qualified certificates



**Note:** the term “module” is synonymous with “component” as used within ETSI standards

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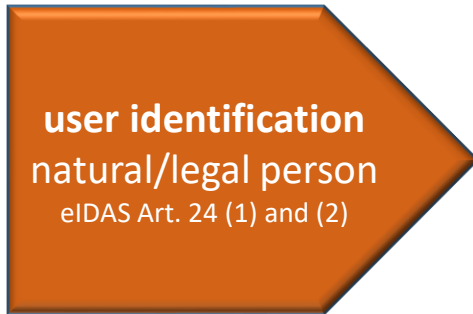


### I. What are „Modules“ and why are they a good idea?

Functional segregation of process elements for Qualified Trust Services (QTS)

Example:

QTS issuing qualified certificates



- dedicated specialized service provider (third party) may offer eIDAS compliant process elements of a QTS
- QTSP may rely on a third party, e.g. for verification of users identity and attributes – eIDAS Art. 24(1), 24(2 b)

**User identification at appropriate assurance level for natural/legal persons, provided by external party!**

### I. What are „Modules“ and why are they a good idea?

Example:

Module for user identification for QTSP issuing qualified certificates

- operated by external specialized ident service provider (IDSP)
- IDSP must be eIDAS compliant



**Option A: integrate IDSP**  
Compliance can be evidenced through integration in QTSPs policy model

#### Disadvantages for IDSP and QTSP:

- IDSP conformity assessment must be repeated for every QTSP serviced / IDSP is assessed multiple times
- QTSP must integrate IDSP in own policy and sync conformity assessments
- IDSP does NOT receive own compliance status document (e.g. a certificate)

**Integration**

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**Option B: modularize IDSP**  
IDSP receives own eIDAS Conformity Assessment Report (CAR) for the „Module“

#### Advantages for IDSP and QTSP:

- + IDSP can re-use Module CAR for different QTSP serviced
- + IDSP ensures eIDAS compliance independently from QTSP = QTSP can interface to IDSP without re-assessment of identification processes (only interfacing will be subject to assessment)
- + IDSP has own compliance status document CAR which can be accompanied by a corresponding certificate

establish independent  
**Module**



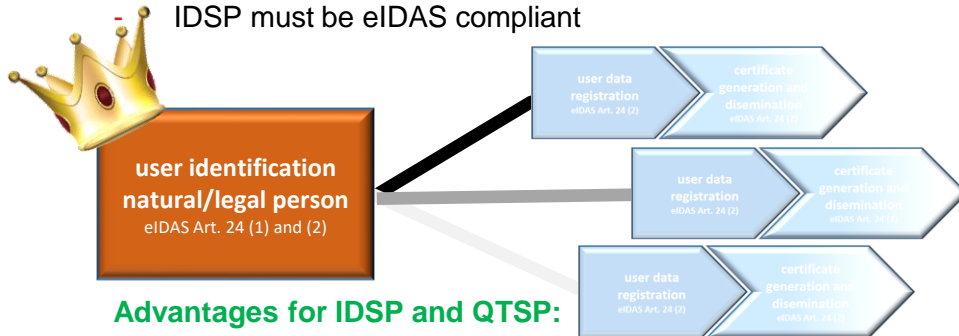
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### II. eIDAS Regulation (EU) 910/2014 – what's the state of play?

- Requirements for Module Operators as of today

- (1) eIDAS Regulation (EU) 910/2014
- (2) Technical/process related  
typ. ETSI EN 319 401, ETSI EN 319 411-1 and -2, etc.

Per EU memberstate:

- (3) **National law and regulations on Trust Services** = memberstate specifics  
Example: IDSP servicing QTSP in Germany and using video based identification must comply with supplementing criteria established by SB, BNetzA

### Upon successful assessment:

- **Issuance of Conformity Assessment Report for the TSP or Module SP**
- **National SB takes final compliance decision based upon CAR**

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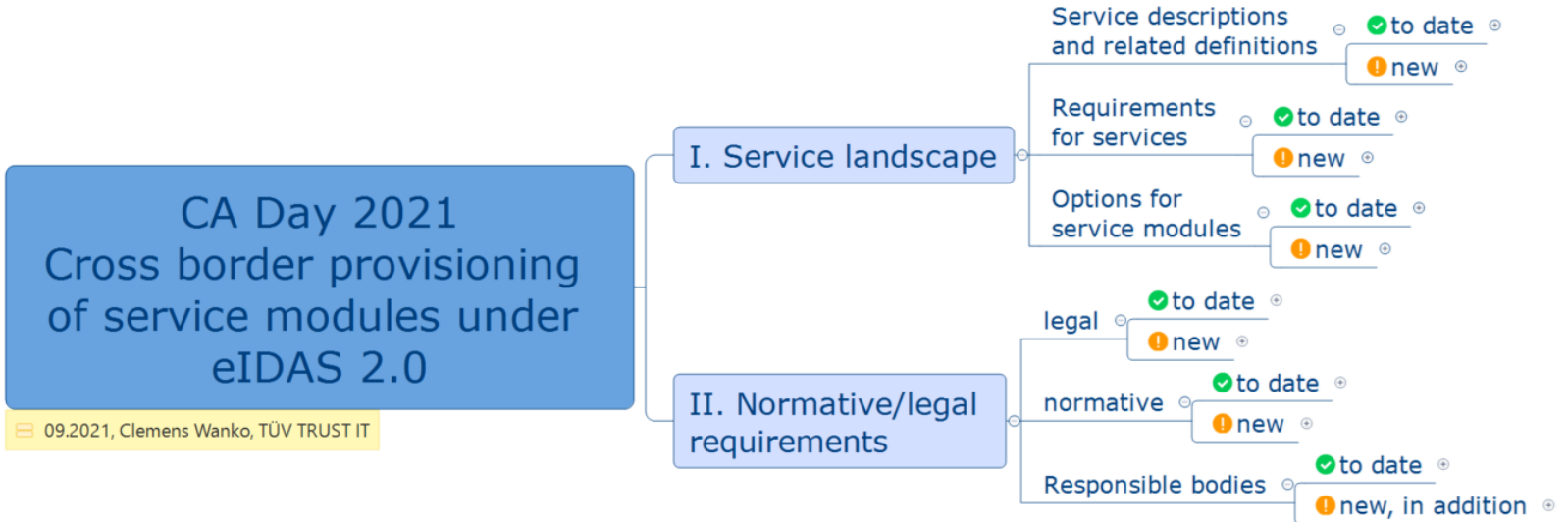
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## Service Modules for Qualified Trust Services under eIDAS 2.0

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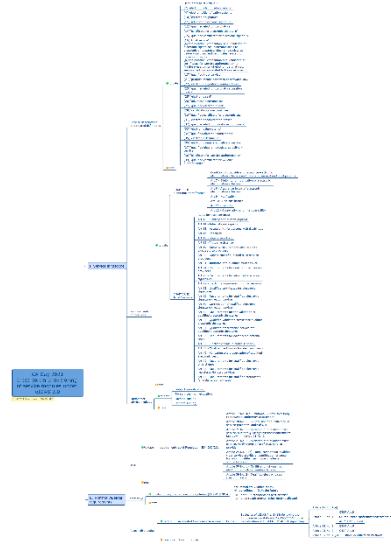
Complexity footprint



### III. eIDAS Regulation 2.0 – what's the future?

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Complexity footprint  
Current Regulation (EU) 910/2014



✓ to date

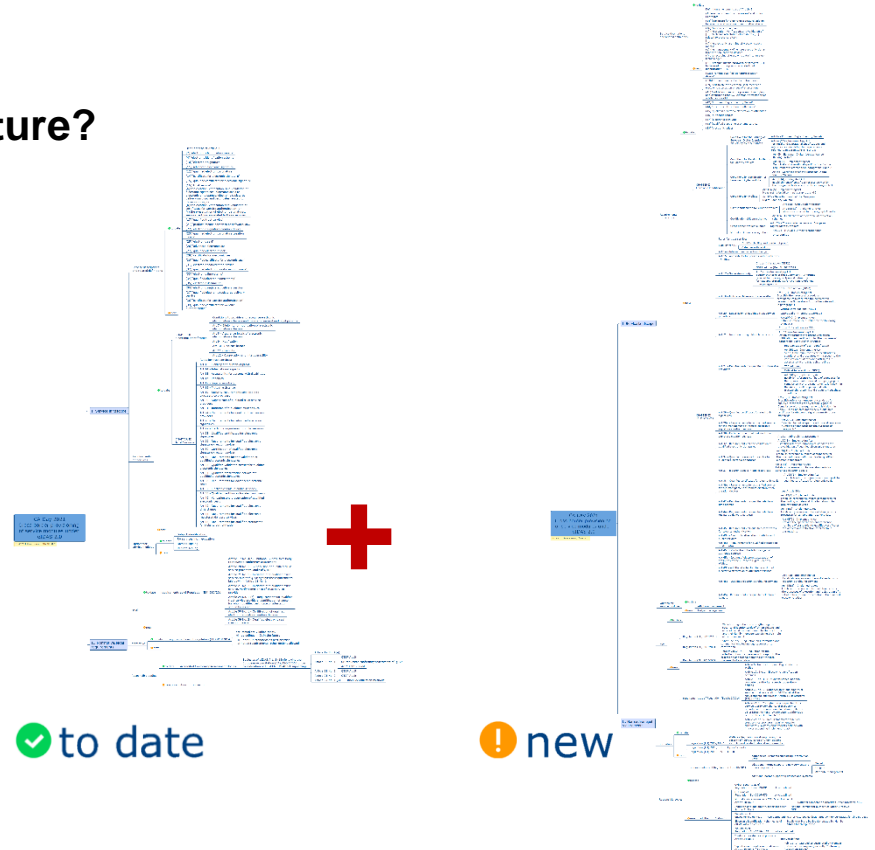
# Service Modules for Qualified Trust Services under eIDAS 2.0

## III. eIDAS Regulation 2.0 – what's the future?

- New level of complexity

Complexity footprint  
revised eIDAS Regulation 2.0\*

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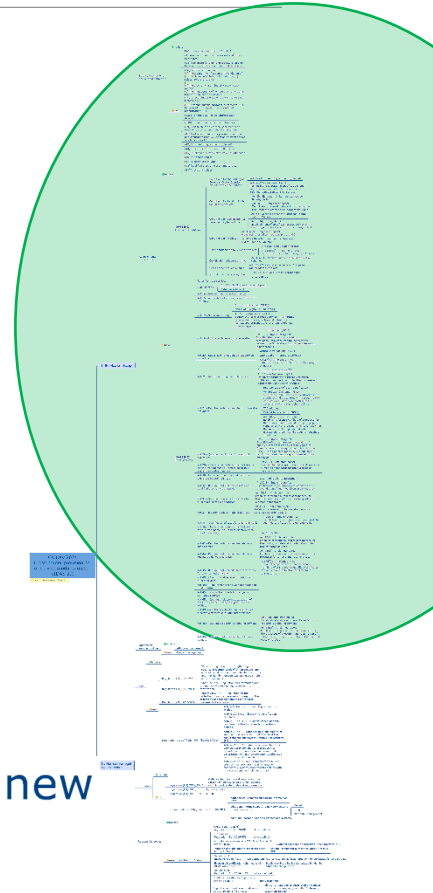
#### Really good news (1):

amended set of Services

- European Digital Identity Wallet
- electronic archiving
- electronic attestation of attributes
- management of remote electronic signature and seal creation devices
- electronic ledgers

**own TS =  
may replace  
Service  
Modules!**

**!** new



### III. eIDAS Regulation 2.0 – what's the future?

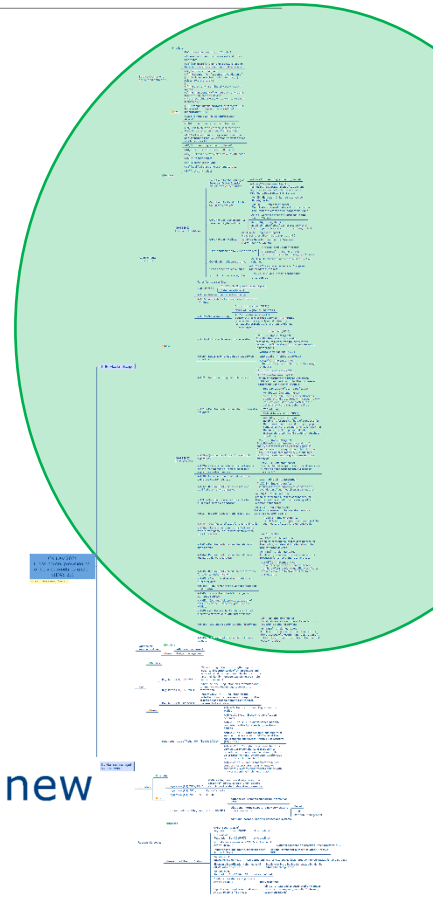
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draft as of June 3rd, 2021

#### Really good news (2):

- outsourcing and
- subcontracting (e.g. Art. 24 (2b))

are supported!

**= Modules for Trust Services**

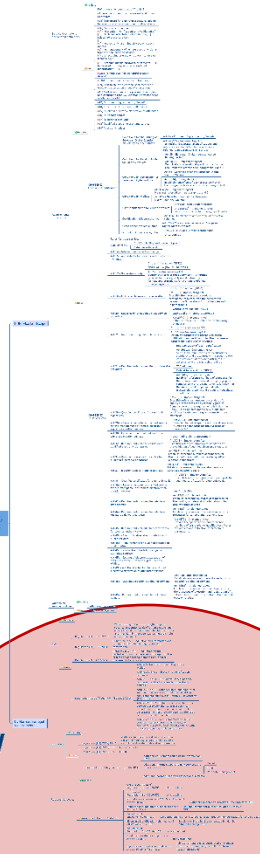


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- New level of complexity
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**Not so good news, really:  
services (all) map to more complex  
set of**

- a. responsible bodies and**
- b. requirements**



! new

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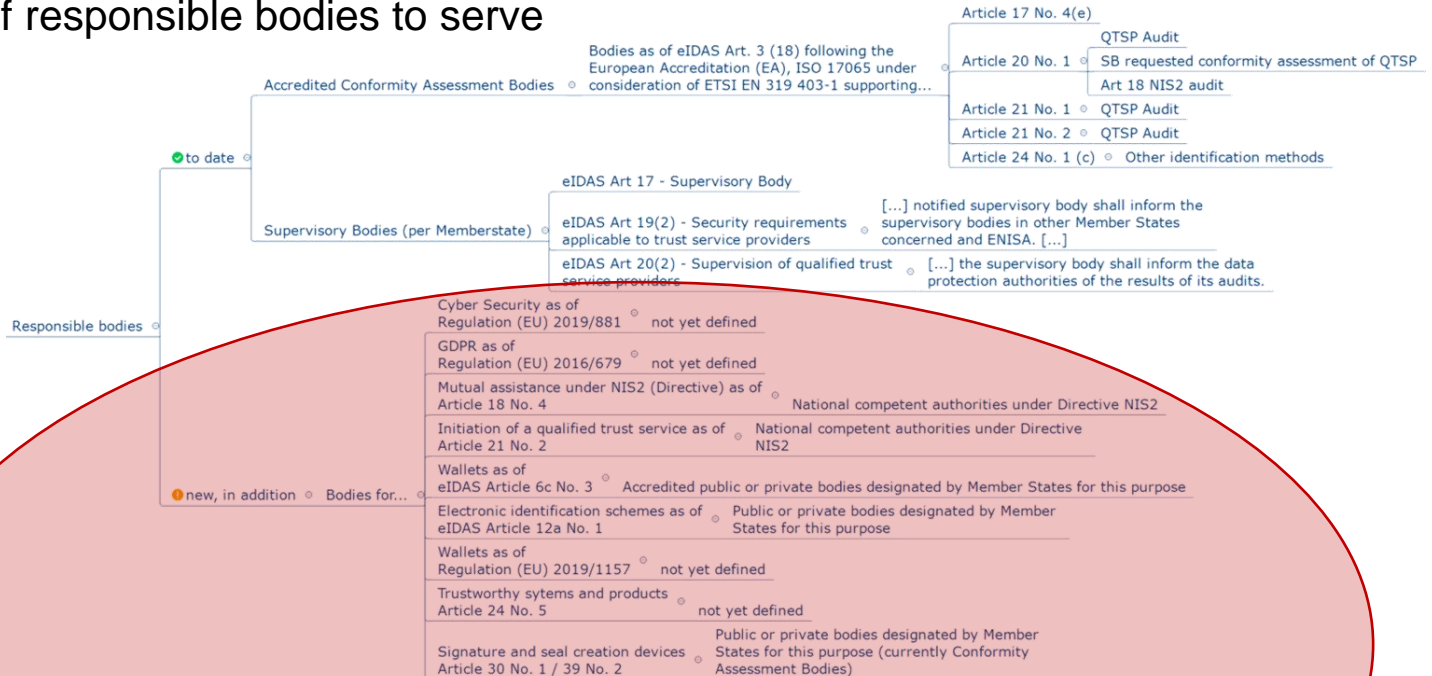
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## III. eIDAS Regulation 2.0 – what’s the future?

- Variety of responsible bodies to serve



**!** new

## Service Modules for Qualified Trust Services under eIDAS 2.0

### III. eIDAS Regulation 2.0 – what's the future?

- Additional responsible bodies...

	Cyber Security as of Regulation (EU) 2019/881 <sup>⊙</sup>
	GDPR as of Regulation (EU) 2016/679 <sup>⊙</sup>
	Mutual assistance under NIS2 (Directive) as of Article 18 No. 4 <sup>⊙</sup>
	Initiation of a qualified trust service as of Article 21 No. 2 <sup>⊙</sup>
Bodies for... <sup>⊙</sup>	Wallets as of eIDAS Article 6c No. 3 <sup>⊙</sup>
	Electronic identification schemes as of eIDAS Article 12a No. 1 <sup>⊙</sup>
	Wallets as of Regulation (EU) 2019/1157 <sup>⊙</sup>
	Trustworthy systems and products Article 24 No. 5 <sup>⊙</sup>
	Signature and seal creation devices Article 30 No. 1 / 39 No. 2 <sup>⊙</sup>

#### EU level? (process related)

responsible bodies (eIDAS) not yet appointed

#### National/MS level (process related)

responsible bodies:

- National comp. authorities as of Directive NIS2 for critical infrastructures
- Public or private bodies designated by memberstates for this purpose

#### Mixed EU or National/MS level (tech. related)

responsible bodies:

- Public or private bodies designated by memberstates for this purpose, currently CABs
- or not yet appointed for eIDAS

### II. eIDAS Regulation (EU) 910/2014 – what's the state of play?

- New requirement set – also for Module Operators

- (1) eIDAS Regulation (EU) 910/2014 (update)
- (2) Regulation (EU) 2019/881 (Cyber Security)
- (3) Regulation (EU) 2016/679 (GDPR)
- (4) Technical/process related for TSP
- (5) Technical/process related for wallets as of Regulation (EU) 2019/1157
- (6) Technical/process trustworthy systems and products (eIDAS Article 24 No. 5)

Per EU memberstate:

- (5) National law and regulations on Trust Services = memberstate specifics
- (6) NIS 2 National competent authorities

...plus others, depending on the specific service provided.

**Entity responsible  
for compliance  
and matters of  
harmonized  
implementation?**

**Upon successful  
assessment...**

...by whom?

...of what exactly?

And the final compliance  
decision is taken by...?

**Today**

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Per EU memberstate:

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### **Upon successful assessment**

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**Conclusion**

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## Service Modules for Qualified Trust Services under eIDAS 2.0

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### Cross border provisioning of Trust Service Modules

#### Rising demand for Service Modules under eIDAS 2.0

(Subject identification; RA services incl. revocation; attribute management; ...)

#### Services facing higher compliance complexity level

(eIDAS Regulation (EU) 910/2014 (update); Regulation (EU) 2019/881 (Cyber Security); Regulation (EU) 2016/679 (GDPR); NIS 2 Directive; ...)

#### Multiple additional responsible bodies to serve (also nationals)

(Cyber Security; GDPR; NIS2; systems and devices; ...)

**Assessing service elements in form of Modules (Components) is preserved**

**But: Clear set of requirements and resp. bodies necessary to be defined!**

**Established Conformity Assessment Bodies (CAB) are ready to implement**

**But: CAB need to be mandated by EU Commission!**

**Conclusion**  
eIDAS 2.0, draft as of June 3rd, 2021

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# Accredited Conformity Assessment Body

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eIDAS eID schemes and Trust Services



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