CAB-FORUM #39 IN REDMOND

Status Update ETSI eSignature Standardization

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-ETSI Slides from Nick Pope-

Topics

- Clarifications
- eIDAS Standards Status
- ETSI Ongoing / Future Activities

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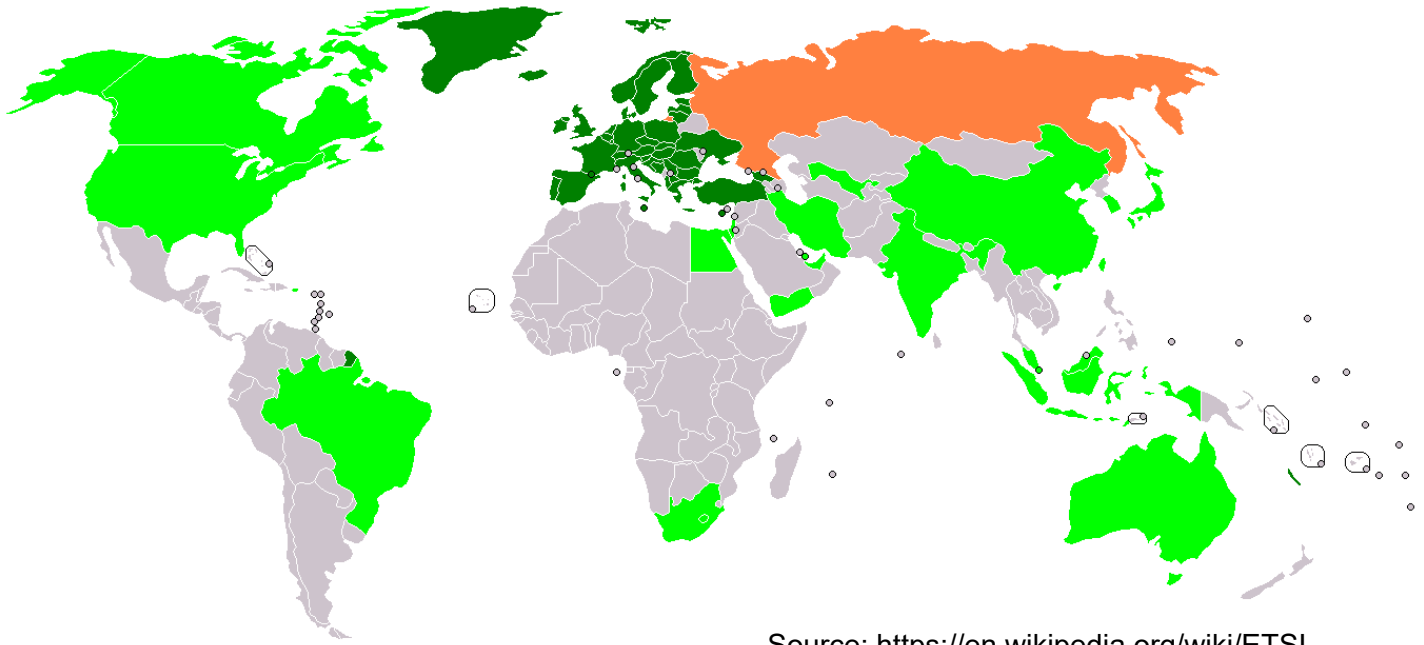
Clarifications 1

ETSI Standards are aimed at the International community and are adopted globally e.g. GSM , DECT, TETRA, smartM2M…..



Source: https://en.wikipedia.org/wiki/ETSI

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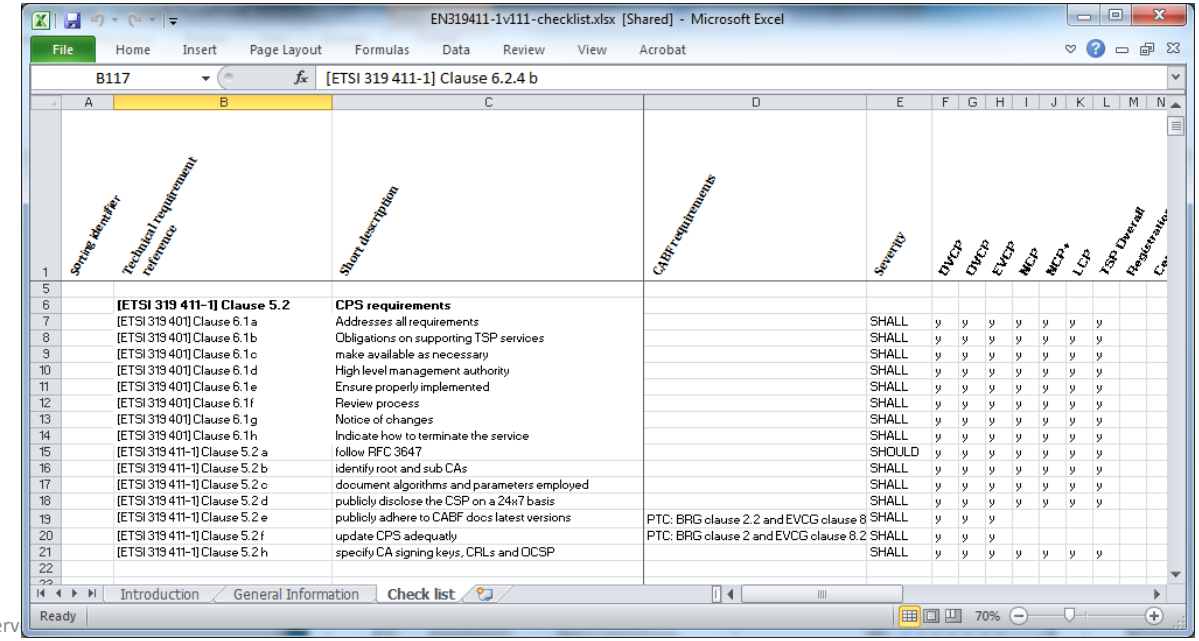
Clarifications 2

- ETSI standards provide precise audit criteria
  - Linked to Specific policy: OV/DV/EV ….
  - 395 specific items in audit check list



EN319411-1v111-checklist.xlsx [Shared] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

B117 [ETSI 319 411-1] Clause 6.2.4 b

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Spring identifier	Technical requirement reference	Short description	CABF requirements	Severity	OVCP	DVCP	EVCP	NCP	NCP+	LCP	TSP Overall	Registration	Ce
5														
6		**[ETSI 319 411-1] Clause 5.2**	**CPS requirements**											
7		[ETSI 319 401] Clause 6.1 a	Addresses all requirements		SHALL	y	y	y	y	y	y	y		
8		[ETSI 319 401] Clause 6.1 b	Obligations on supporting TSP services		SHALL	y	y	y	y	y	y	y		
9		[ETSI 319 401] Clause 6.1 c	make available as necessary		SHALL	y	y	y	y	y	y	y		
10		[ETSI 319 401] Clause 6.1 d	High level management authority		SHALL	y	y	y	y	y	y	y		
11		[ETSI 319 401] Clause 6.1 e	Ensure properly implemented		SHALL	y	y	y	y	y	y	y		
12		[ETSI 319 401] Clause 6.1 f	Review process		SHALL	y	y	y	y	y	y	y		
13		[ETSI 319 401] Clause 6.1 g	Notice of changes		SHALL	y	y	y	y	y	y	y		
14		[ETSI 319 401] Clause 6.1 h	Indicate how to terminate the service		SHALL	y	y	y	y	y	y	y		
15		[ETSI 319 411-1] Clause 5.2 a	follow RFC 3647		SHOULD	y	y	y	y	y	y	y		
16		[ETSI 319 411-1] Clause 5.2 b	identify root and sub CAs		SHALL	y	y	y	y	y	y	y		
17		[ETSI 319 411-1] Clause 5.2 c	document algorithms and parameters employed		SHALL	y	y	y	y	y	y	y		
18		[ETSI 319 411-1] Clause 5.2 d	publicly disclose the CSP on a 24x7 basis		SHALL	y	y	y	y	y	y	y		
19		[ETSI 319 411-1] Clause 5.2 e	publicly adhere to CABF docs latest versions	PTC: BRG clause 2.2 and EVCG clause 8	SHALL	y	y	y						
20		[ETSI 319 411-1] Clause 5.2 f	update CPS adequatly	PTC: BRG clause 2 and EVCG clause 8.2	SHALL	y	y	y						
21		[ETSI 319 411-1] Clause 5.2 h	specify CA signing keys, CRLs and OCSP		SHALL	y	y	y	y	y	y	y		
22														

Introduction | General Information | Check list

Ready 70%

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Clarifications 3

- Audit based on ETSI standard uses existing International framework for Conformity Assessment
  - ISO 17065 Conformity assessment — Requirements for bodies certifying products, processes and services
  - Accreditation of auditor through national body coordinated through
    - European Cooperation for Accreditation (EA)
    - International Accreditation Forum (IFA)
  - It is required that “certification report” identifies the national body accrediting the auditor
  - ACAB’C Setting up list of Accredited Conformity Assessment Bodies under ETSI standards

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ASSESSMENT RESULTS VALIDATION

Audit Attestation

- Auditor and Accreditation

ISO/IEC 17065
- ETSI EN 319 401
- ETSI EN 319 411-1
- ETSI EN 310 411-2

Assessments based upon ETSI EN 319 403

ASSESSMENT RESULTS VALIDATION

Audit Attestation

- Auditor and Accreditation

Website: www.finas.fi
E-mail: akkreditointi@finas.fi

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Website: www.eak.ee
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75012 PARIS
Phone: (33) 01.44.68.82.20
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Website: www.cofrac.fr
E-mail: information@cofrac.fr

GREECE

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Hellenic Accreditation System

GREECE

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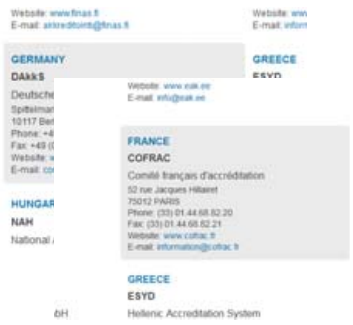
7 Thisseos s
17676 Kallith
Phone: + 30 2
Fax: + 30 210

http://www.european-accreditation.org/ea-members

ASSESSMENT RESULTS

ETSI Certificate under EA Accreditation



Clarifications 4

- Precise certification reports and supporting documentation
  - Basic Requirements of content in ISO 17065 + ETSI EN 319 403
    - Scope including policy (OV/DV/EV)
    - Requirements fulfilled
    - Source of accreditation of auditor
  - ACAB'C providing template

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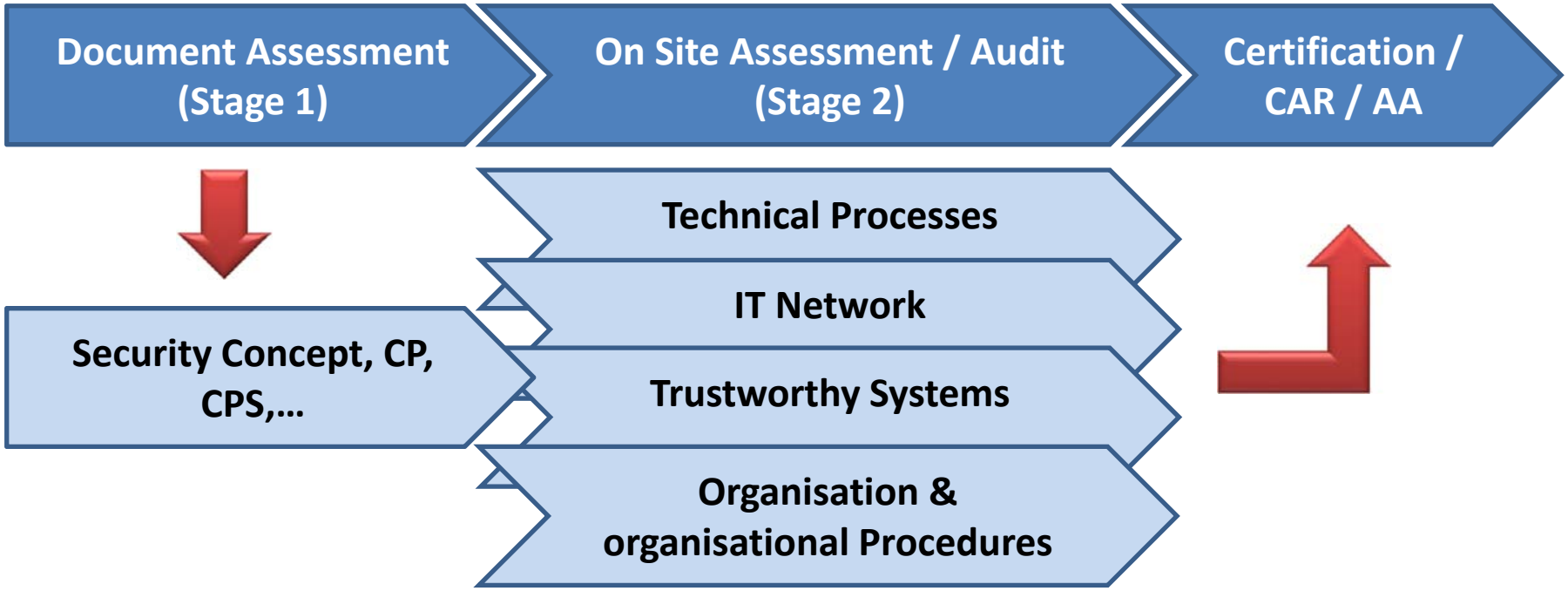
AUDIT PROCESS



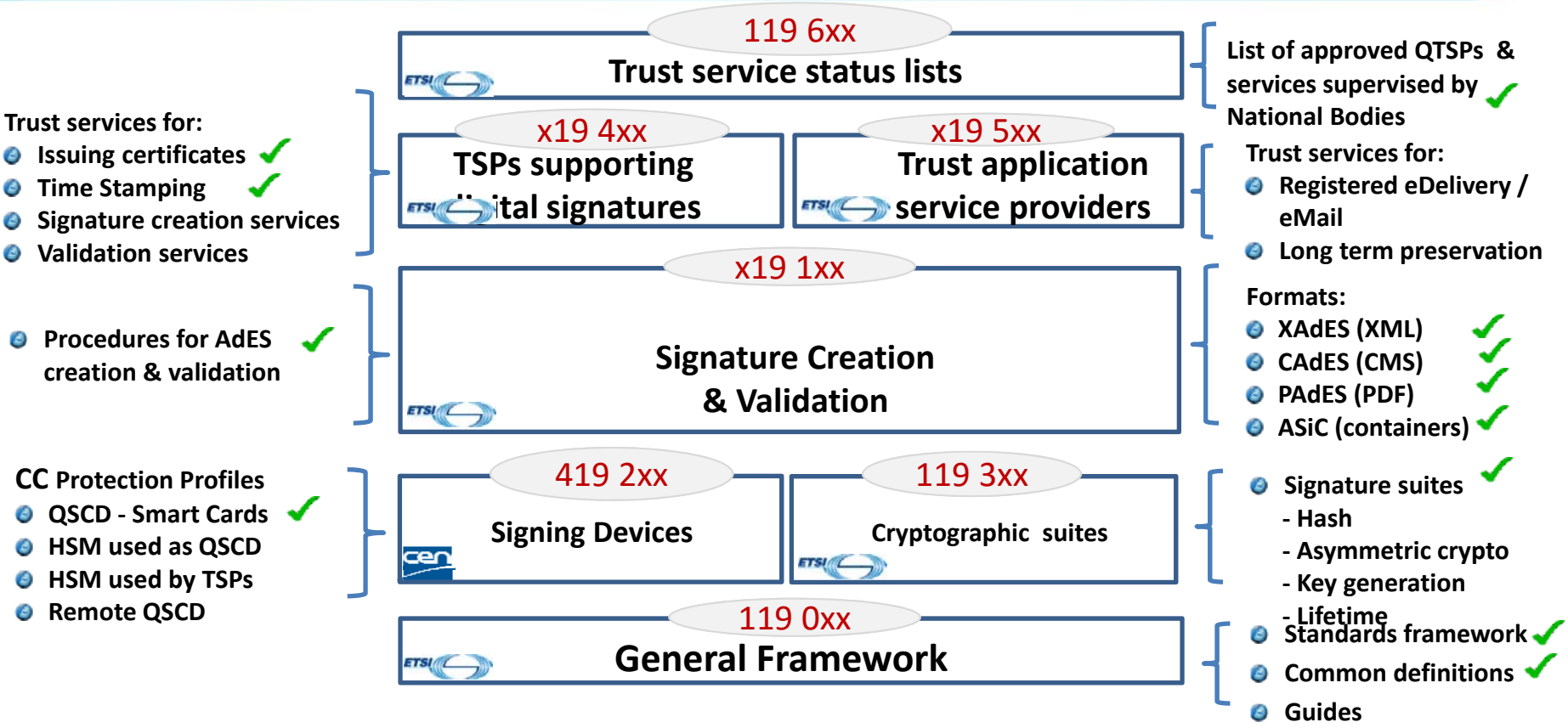
CERTIFICATION

CA
CAR / AA
(+Cert)

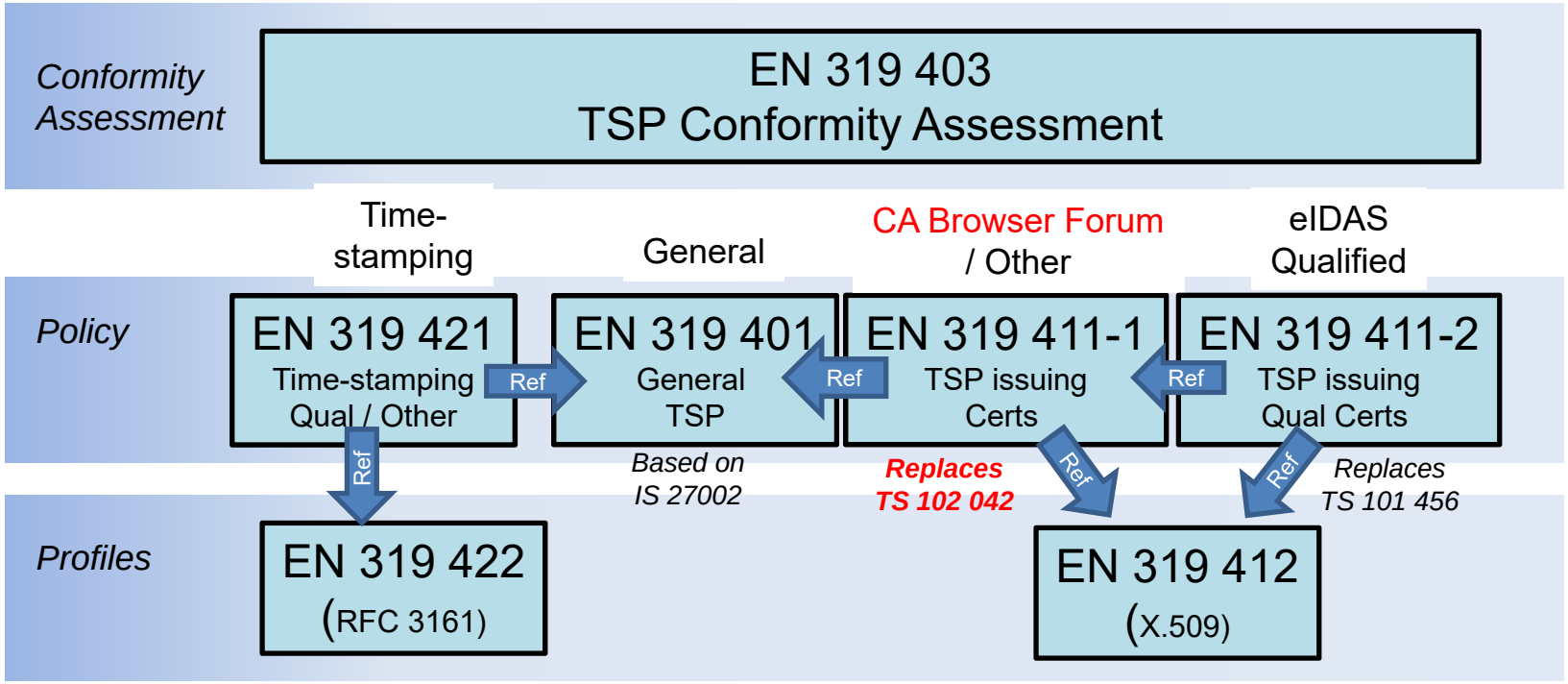
Qualified TSP included in Trust Service Status List (TSL)

Third parties:
- Supervisory Body
- Browsers
- …

eIDAS Standards Framework: Published Standards Mandate/460



TSP Standards Overview (ETSI)



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Status

- All latest standards now fully ratified and published

  Available for free download from:

  http://www.etsi.org/standards-search

  EN 319 403: TSP Conformity assessment

  EN 319 411: Policy and security requirements for Trust Service Providers issuing certificates

- Audits required to start 1st July 2016

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New Activities: 319 4xx maintenance

- Updates to 319 411-1, 319 411-2 and 319 411-x
- Ongoing CA Forum alignment
- Options for Representing eID minimum attributes in X.509 Certificate
- Short term certificates (suggest no special provisions needed)
- CRL / OCSP beyond certificate expiry

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New activities

- Maintenance of existing 319 4xx standards
- Internationalisation of Scheme in preparation.
- AdES Signature validation services
- [Remote] Signature Creation Services
- Registered E-Delivery Formats and CPs
- Long term (signature) preservation

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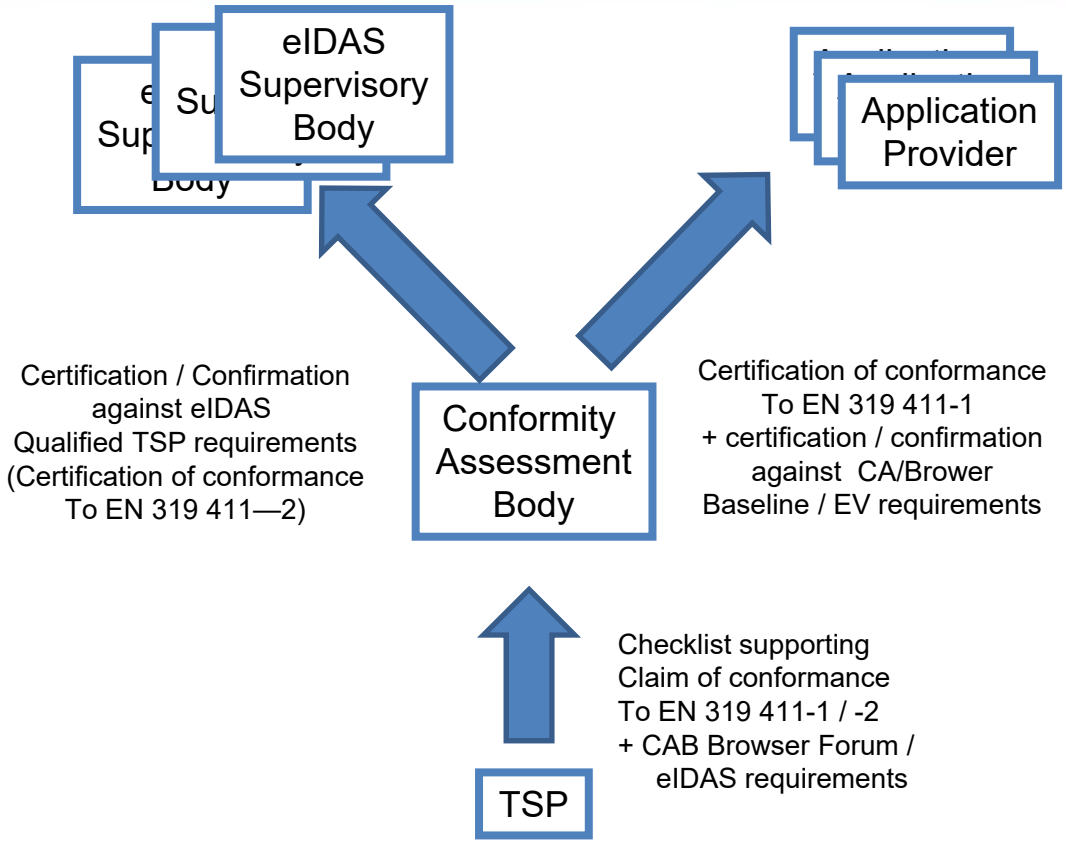
Model for usage of ETSI TSP Standards



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Thank you for your attention

ETSI Documents: Free download

http://www.etsi.org/standards-search

E-Signature news:

http://list.etsi.org/scripts/wa.exe?SUBED1=e-signatures_news&A=1

Further information:

https://portal.etsi.org/TBSiteMap/ESI/TrustServiceProviders.aspx

ACAB-C http://www.acab-c.com/

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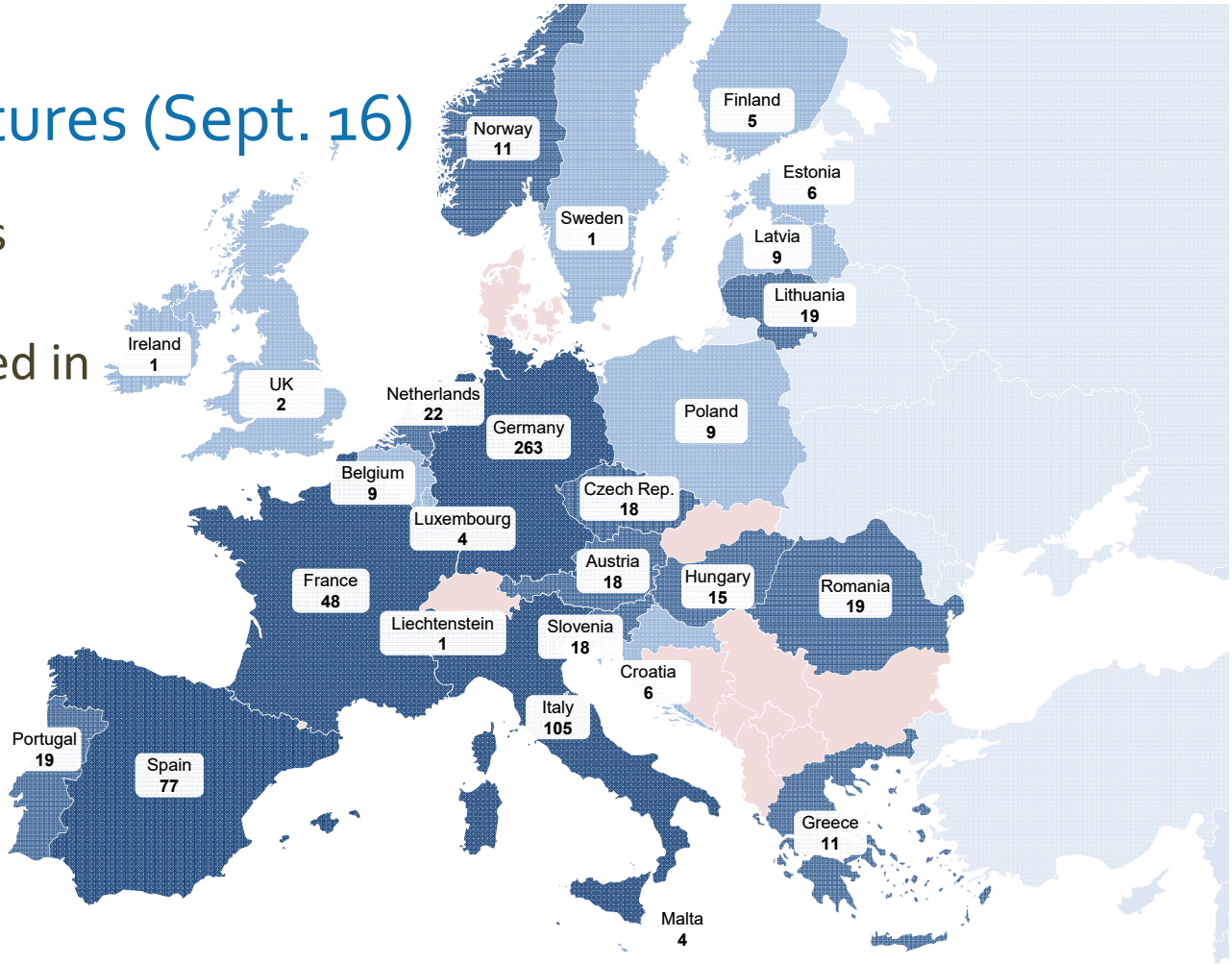
View on QWACs in Europe

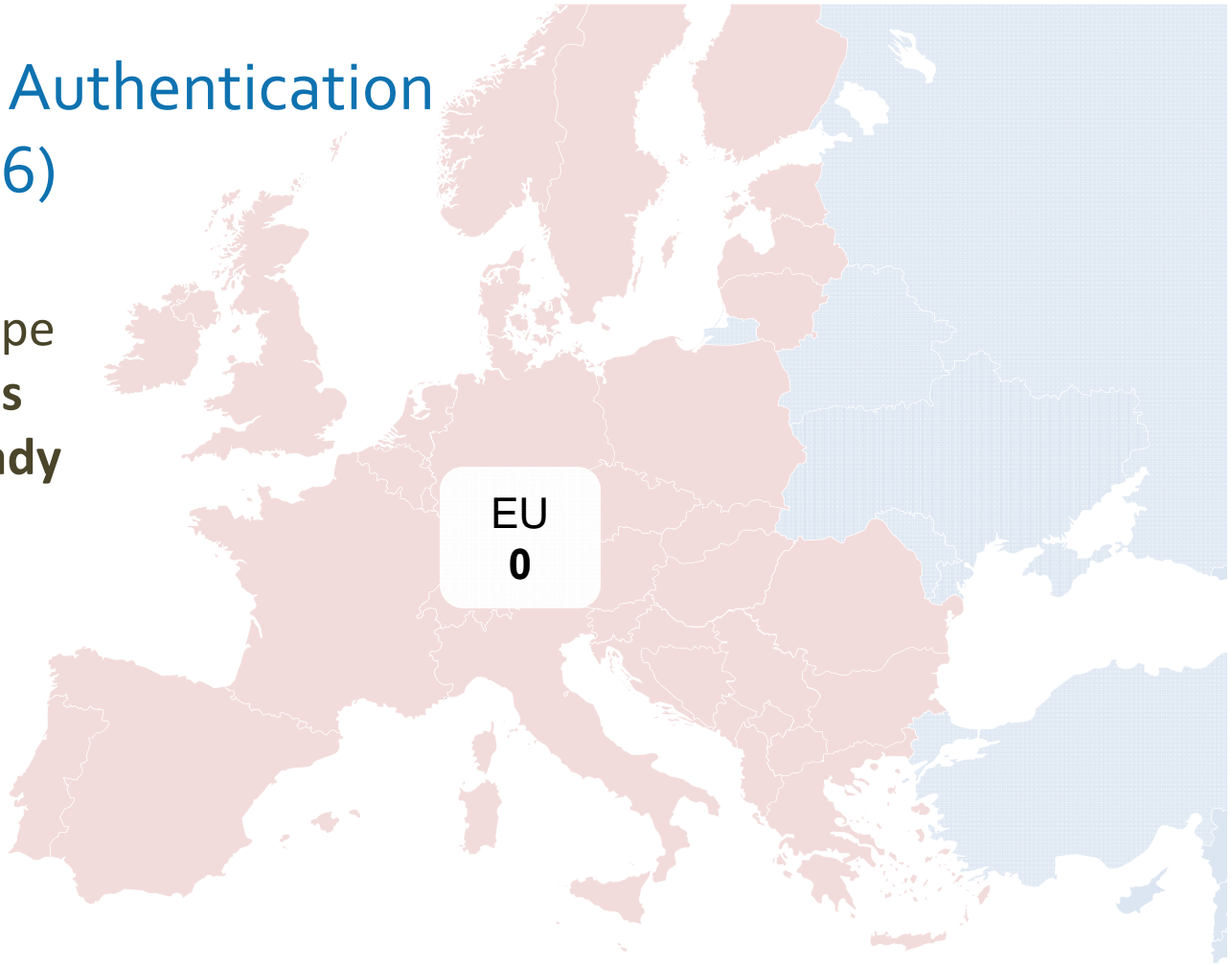
CA/QC for eSignatures (Sept. 16)

- 26 EU Member States
- 713 CAs in total
- Currently concentrated in Germany, Italy, Spain, France (~70%)



Qualified Website Authentication Certificates (Oct 16)

- Currently 0 services offered in all of Europe
- **Actually many audits ongoing, a few already successfull passed**



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