



**Welcome
to the World
of Standards**



CAB-FORUM #39 IN REDMOND

Status Update ETSI eSignature Standardization

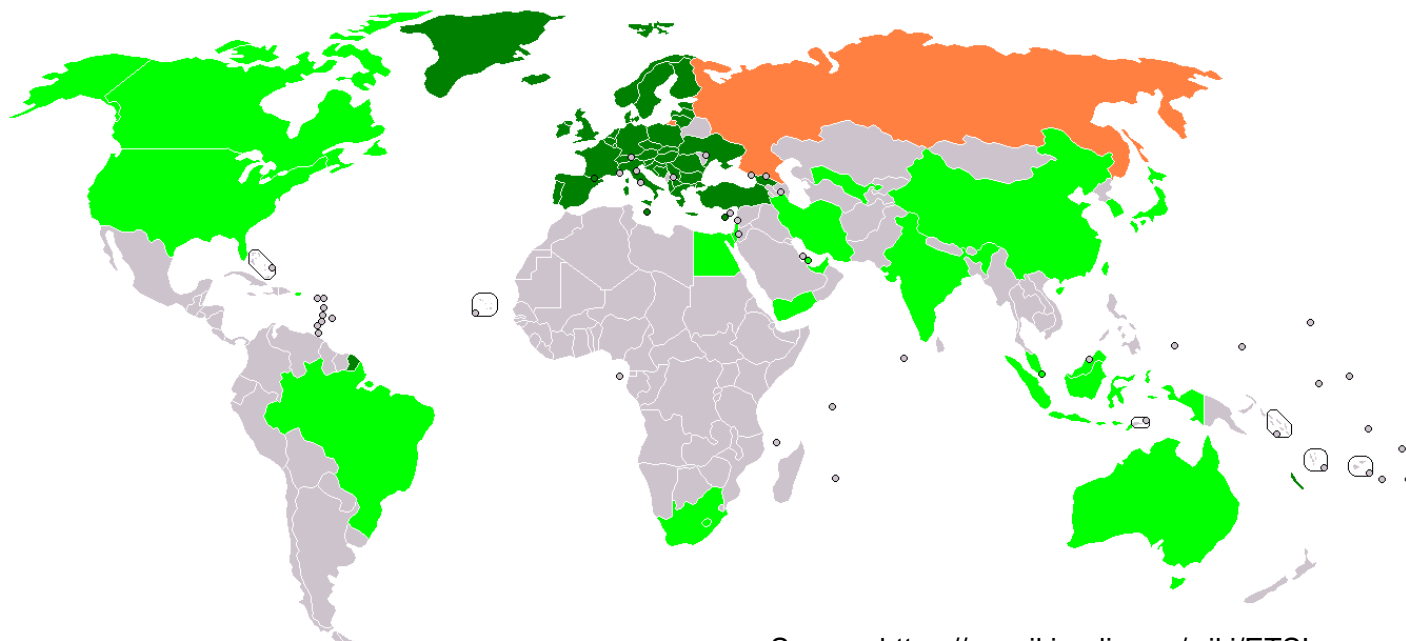
Clemens Wanko, Arno Fiedler, Inigo Barreira,
-ETSI Slides from Nick Pope-

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

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>

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

B117 [ETSI 319 411-1] Clause 6.2.4 b

Source identifier	Technical requirement reference	Short description	CABF requirements	Severity	DV/CP	DV/EP	EV/CP	MC/CP	MC/EP	LCP	TSP Downfall	Responsible
	[ETSI 319 411-1] Clause 5.2	CPS requirements										
	[ETSI 319 401] Clause 6.1 a	Addresses all requirements		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 b	Obligations on supporting TSP services		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 c	make available as necessary		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 d	High level management authority		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 e	Ensure properly implemented		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 f	Review process		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 g	Notice of changes		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 401] Clause 6.1 h	Indicate how to terminate the service		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 411-1] Clause 5.2 a	follow RFC 3647		SHOULD	y	y	y	y	y	y	y	
	[ETSI 319 411-1] Clause 5.2 b	identify root and sub CAs		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 411-1] Clause 5.2 c	document algorithms and parameters employed		SHALL	y	y	y	y	y	y	y	
	[ETSI 319 411-1] Clause 5.2 d	publicly disclose the CSP on a 24x7 basis		SHALL	y	y	y	y	y	y	y	
	[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						
	[ETSI 319 411-1] Clause 5.2 f	update CPS adequately	PTC: BRG clause 2 and EVCG clause 8.2	SHALL	y	y						
	[ETSI 319 411-1] Clause 5.2 h	specify CA signing keys, CRLs and OCSP		SHALL	y	y	y	y	y	y	y	

Ready | Introduction | General Information | Check list | 70%

- 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

ASSESSMENT RESULTS VALIDATION

Audit Attestation

- Auditor and Accreditation



Deutsche Akkreditierungsstelle GmbH
Beliehene gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
Unterzeichnerin der Multilateralen Abkommen von EA, ILAC und IAF zur gegenseitigen Anerkennung

ISO/IEC 17065

- ETSI EN 319 401
- ETSI EN 319 411-1
- ETSI EN 310 411-2

Assessments based upon ETSI EN 319 403



Section Certifications

**ATTESTATION D'ACCREDITATION
ACCREDITATION CERTIFICATE**
N° 5-0546 rév. 2

Le Comité Français d'Accréditation atteste que :
The French Committee for Accreditation certifies that :

LSTI
10 avenue Anita Conti
35400 SAINT-MALO
SIREN : 453867863

satisfait aux exigences de la norme / fulfills the requirements of the standard **NF EN ISO/IEC 17065:2012**
et aux règles du Cofrac / and Cofrac rules

pour les activités de / for activities of



Convention N°5192

estätigt hiermit, dass die Zertifizierungsstelle

tifizierungsstelle

2013 besitzt, Zertifizierungen von Produkten, in Bereichen durchzuführen:

ge zur Akkreditierungsurkunde D-ZE-12022-01-00

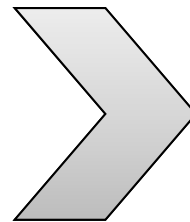
Norm / Hausverfahren / Version	Titel der Norm oder des Hausverfahrens (ggf. Abweichungen / Modifizierungen von Normverfahren angeben) (technische Anforderungen an das Produkt)
ETSI EN 319 401	Electronic Signatures and Infrastructures (ESI); General



ASSESSMENT RESULTS VALIDATION

Audit Attestation

▪ Auditor and Accreditation



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

Website: www.fimas.fi
E-mail: inform@finas.fi

GERMANY

DAKkS

Deutsche Akkreditierungsstelle GmbH
Spittelmarkt 10
10117 Berlin
Phone: +49 (0) 30 67 059 10
Fax: +49 (0) 30 67 059 1 90

Website: www.eak.ee
E-mail: info@eak.ee

GREECE

ESYD

Hellenic Accreditation System
7 Thisseos s
17676 Kallith
Phone: + 30 210 210 210
Fax: + 30 210 210 210

Website: www.esyd.gr
E-mail: ceo@esyd.gr

FRANCE

COFRAC

Comité français d'accréditation
52 rue Jacques Hillairet
75012 PARIS
Phone: (33) 01.44.68.82.20
Fax: (33) 01.44.68.82.21
Website: www.cofrac.fr
E-mail: information@cofrac.fr

ISLAND

IC

Islandic Accreditation System

ibH

GREECE

ESYD

Hellenic Accreditation System

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



ASSESSMENT RESULTS

ETSI Certificate under EA Accreditation



Website: www.eas.eu
E-mail: ea@eas.eu

GERMANY

DAKS

Deutsche
Spezialmat
10117 Berlin
Phone: +49 (0) 30 6391-10
Website: www.daks.de
E-mail: info@daks.de

Website: www.nak.de
E-mail: info@nak.de

FRANCE

COFRAC

Comité français d'accréditation
50 rue Jacques Hillaert
75012 PARIS
Phone: (33) 01 44 68 82 20
Fax: (33) 01 44 68 82 21
Website: www.cofrac.fr
E-mail: information@cofrac.fr

GREECE

ESYD

Hellenic Accreditation System

01

Die Zertifizierungsstelle der TÜV Info
bescheinigt hiermit dem Unternehmen

Izenpe S.A.
Beato Tomás de Zumalacárregui
71 - 1ª Planta
01008 Vitoria-Gasteiz

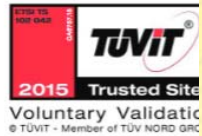
für den Zertifizierungsdienst

CA de Certificados S.S.

die Erfüllung aller Anforderungen der

ETSI TS 102 042 V2.4
policy EVCP.

Die Anlage zum Zertifikat ist Bestandteil
aus 7 Seiten.
Dieses Zertifikat gilt nur in Verbindung mit
Prüfbericht bis zum 31.07.2018.



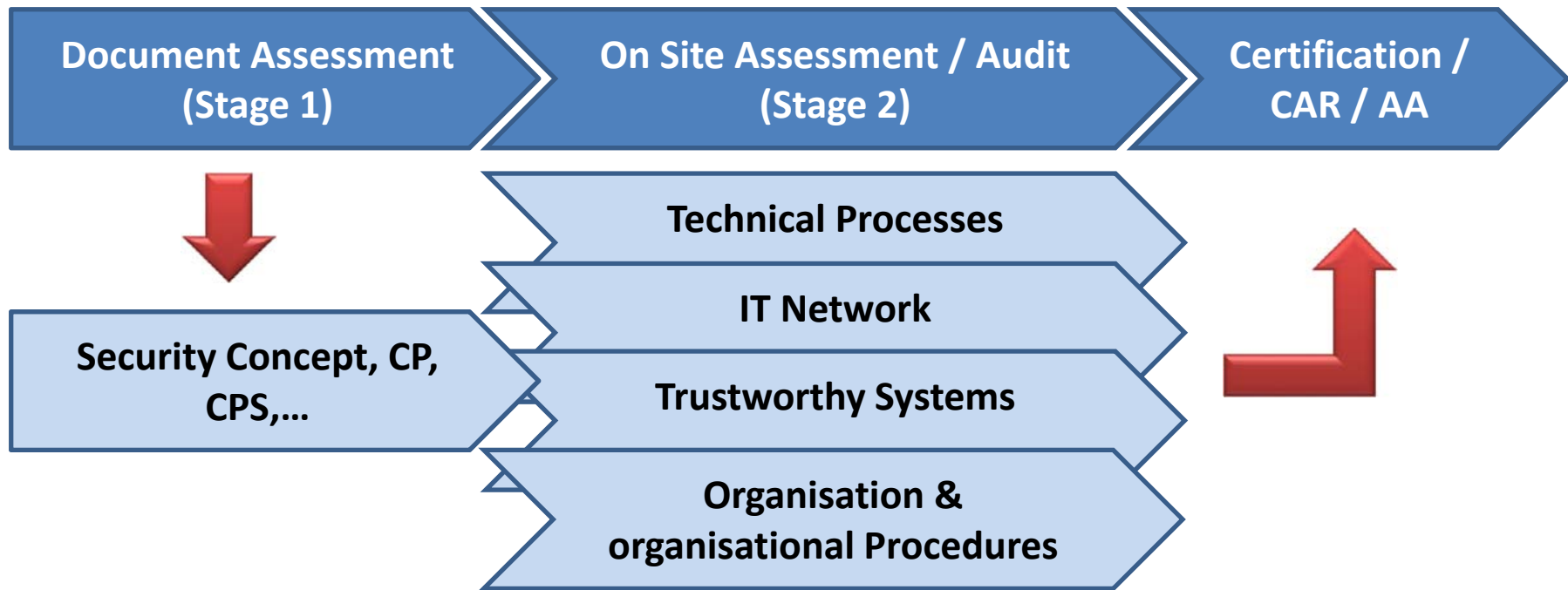
Essen, 26.07.2015
Dr. Christoph Gultzer
Leiter Zertifizierungsstelle

TÜV Informationstechnik GmbH
Unternehmensgruppe TÜV NORD
45141 Essen
www.tuv.it

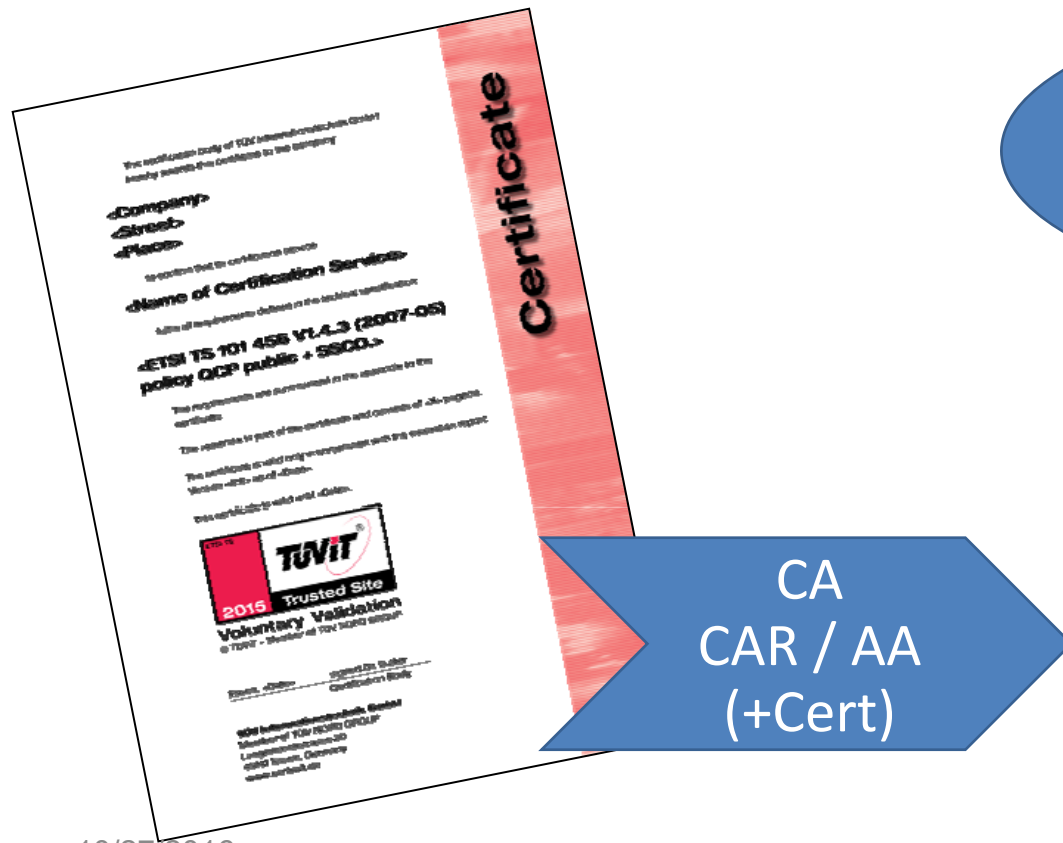


- Precise certification reports and supporting documentation
 - Basic Requirements of content in ISO 17065 + ETSI EN 319 403
 - Scope including policy (OV/DV/EV)
 - Requirements fulfilled
 - Source of accreditation of auditor
 - ACAB'C providing template

AUDIT PROCESS



CERTIFICATION



CA
CAR / AA
(+Cert)

Qualified TSP included in
Trust Service Status List
(TSL)



Third parties:
- Supervisory Body
- Browsers
- ...



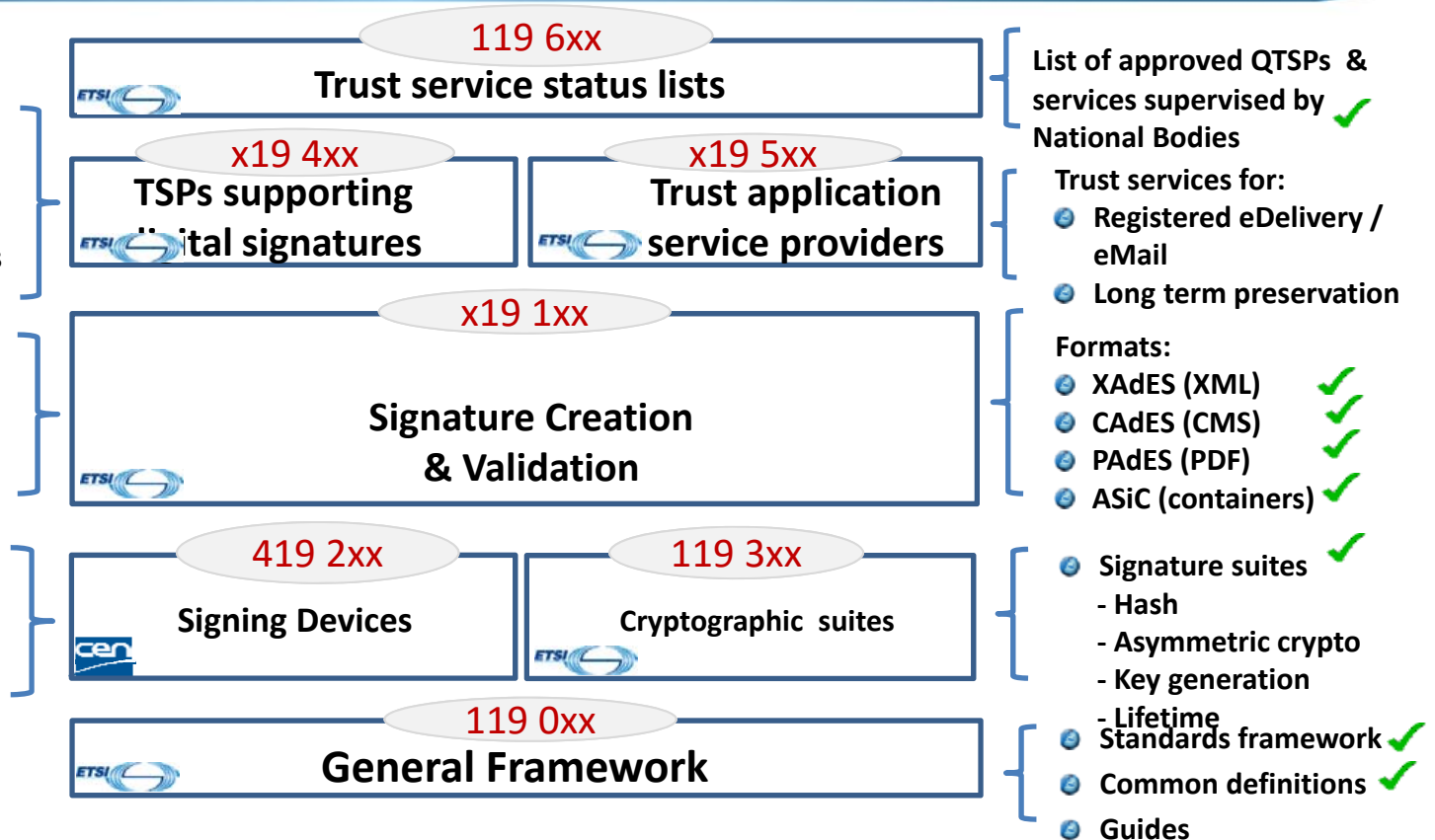
eIDAS Standards Framework: Published Standards Mandate/460



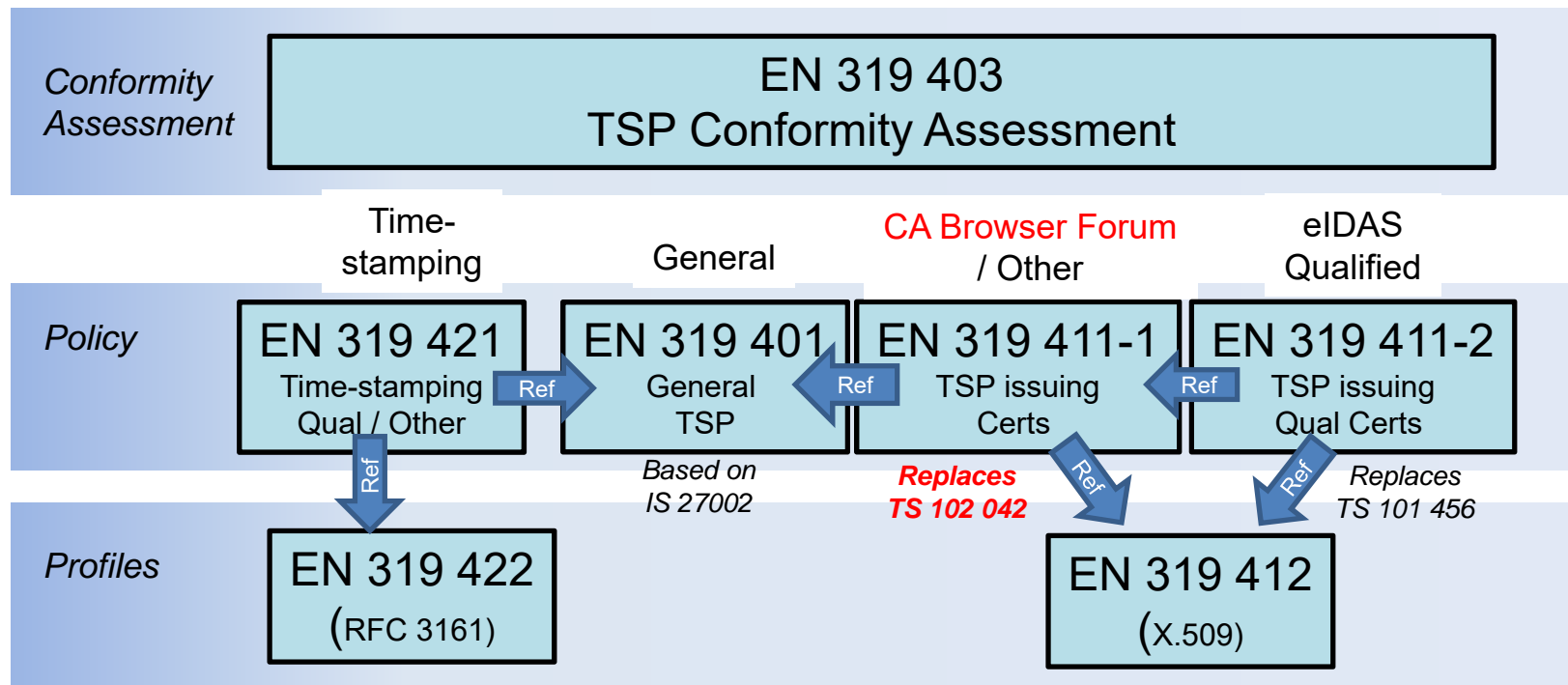
- Trust services for:
- Issuing certificates ✓
 - Time Stamping ✓
 - Signature creation services
 - Validation services

- Procedures for AdES creation & validation ✓

- CC Protection Profiles
- QSCD - Smart Cards ✓
 - HSM used as QSCD
 - HSM used by TSPs
 - Remote QSCD



TSP Standards Overview (ETSI)



- 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

New Activities: 319 4xx maintenance



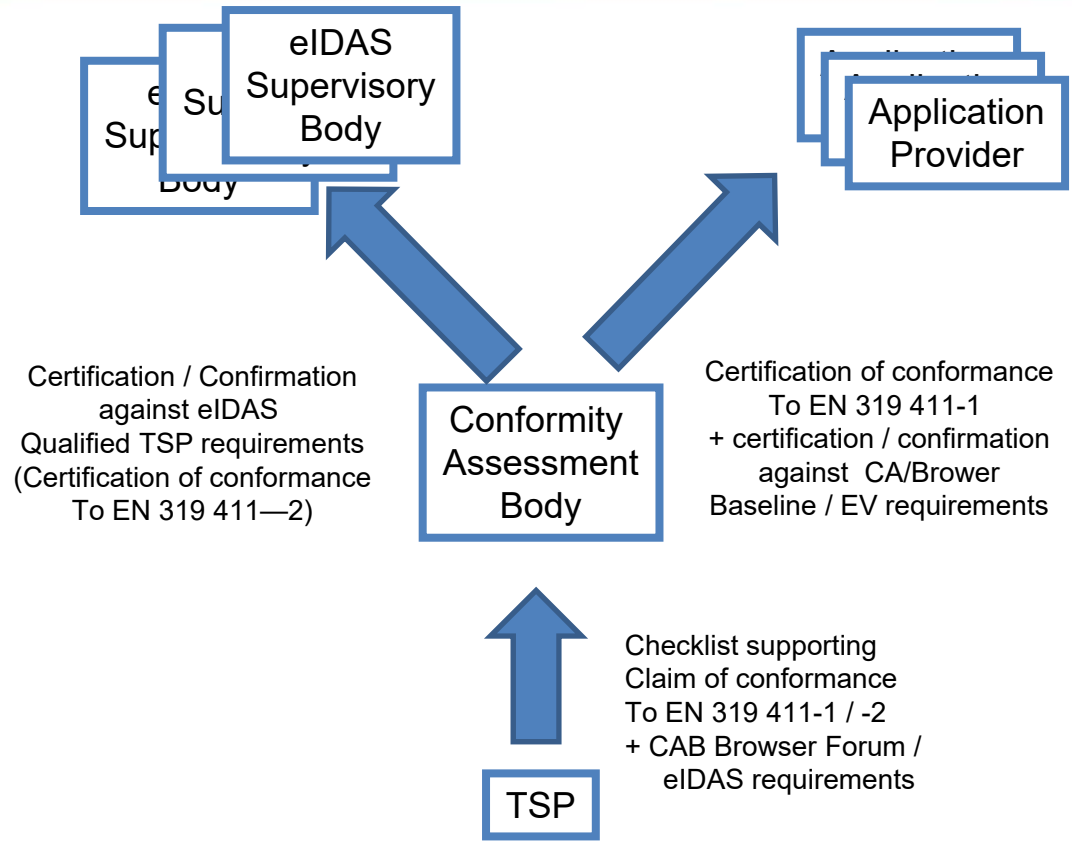
- Updates to 319 411-1, 319 411-2 and 319 411-x
- Ongoing CA Forum alignment
- Options for Representing eID minimum attributes in X.509 Certificate
- Short term certificates (suggest no special provisions needed)
- CRL / OCSP beyond certificate expiry

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

Model for usage of ETSI TSP Standards



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:

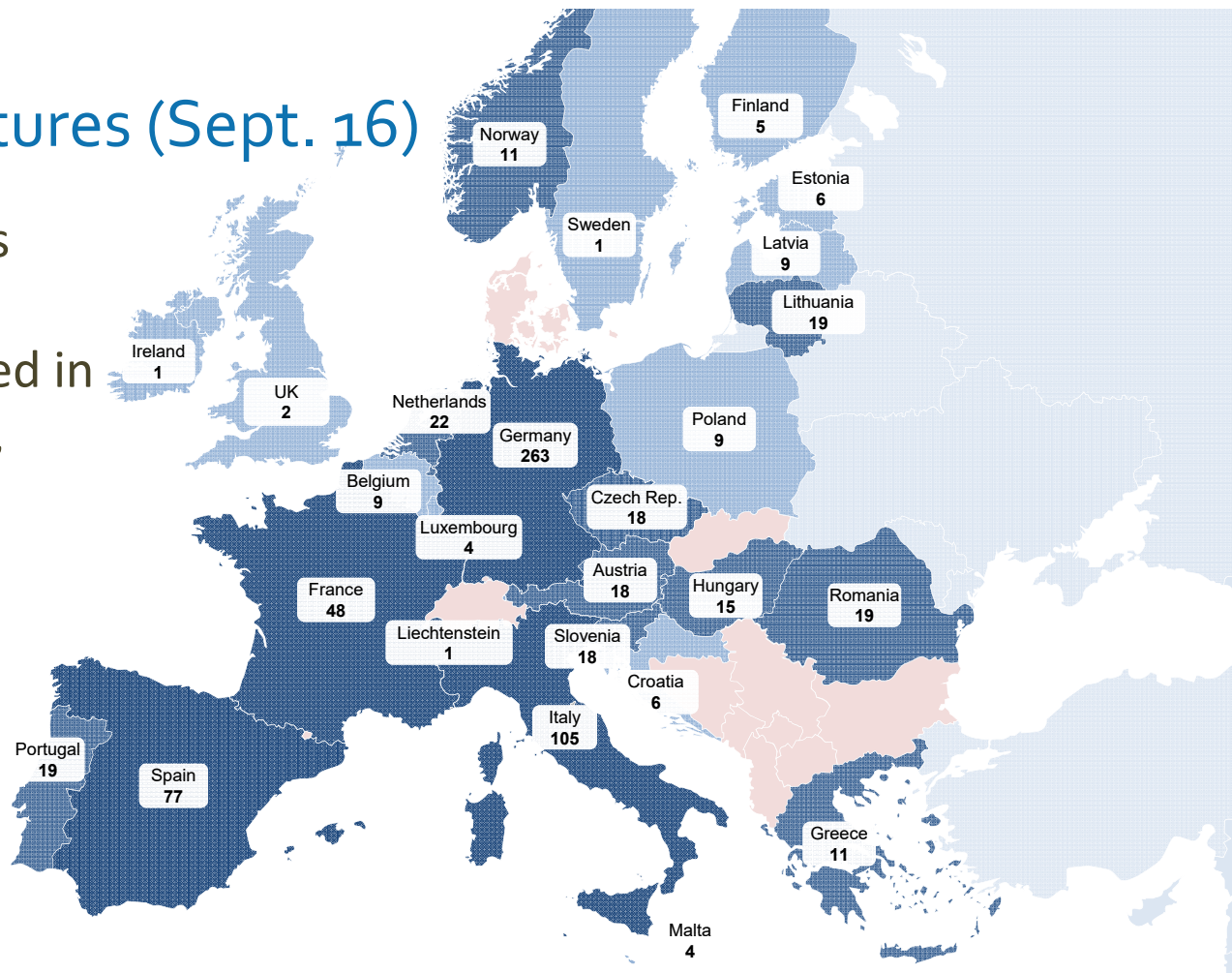
<https://portal.etsi.org/TBSiteMap/ESI/TrustServiceProviders.aspx>

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

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**

