



Electronic Signatures and Infrastructures (ESI); Trusted Lists



Reference
RTS/ESI-0019612v2

Keywords
e-commerce, electronic signature, security, trust services

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from:
<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.
Information on the current status of this and other ETSI documents is available at
<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:
<https://portal.etsi.org/People/CommitteeSupportStaff.aspx>

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2015.
All rights reserved.

DECT™, PLUGTESTS™, UMTS™ and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPP™ and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and
of the 3GPP Organizational Partners.
GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	6
Foreword.....	6
Modal verbs terminology.....	6
Introduction	6
1 Scope	8
2 References	8
2.1 Normative references	8
2.2 Informative references.....	9
3 Definitions and abbreviations.....	10
3.1 Definitions.....	10
3.2 Abbreviations	11
4 Overall structure of trusted lists	12
5 Trusted list format and content.....	16
5.1 General principles for trusted lists.....	16
5.1.1 Trusted List Format	16
5.1.2 Use of Uniform Resource Identifiers	16
5.1.3 Date-time indication	16
5.1.4 Language support.....	16
5.1.5 Value of Country Code fields	17
5.2 Trusted List tag.....	17
5.2.1 TSL Tag	17
5.3 Scheme information	17
5.3.1 TSL version identifier	17
5.3.2 TSL sequence number	18
5.3.3 TSL type	18
5.3.4 Scheme operator name.....	19
5.3.5 Scheme operator address	19
5.3.5.0 General	19
5.3.5.1 Scheme operator postal address	19
5.3.5.2 Scheme operator electronic address	20
5.3.6 Scheme name	20
5.3.7 Scheme information URI	21
5.3.8 Status determination approach.....	21
5.3.9 Scheme type/community/rules.....	22
5.3.10 Scheme territory.....	23
5.3.11 TSL policy/legal notice.....	23
5.3.12 Historical information period.....	23
5.3.13 Pointers to other TSLs	23
5.3.14 List issue date and time	24
5.3.15 Next update.....	24
5.3.16 Distribution points	25
5.3.17 Scheme extensions.....	25
5.3.18 Trust Service Provider List	25
5.4 TSP information	26
5.4.1 TSP name.....	26
5.4.2 TSP trade name	26
5.4.3 TSP address	27
5.4.3.0 General	27
5.4.3.1 TSP postal address	27
5.4.3.2 TSP electronic address	27
5.4.4 TSP information URI.....	28
5.4.5 TSP information extensions.....	28
5.4.6 TSP Services (list of services)	28
5.5 Service information	29

5.5.1	Service type identifier	29
5.5.2	Service name	35
5.5.3	Service digital identity	35
5.5.4	Service current status	38
5.5.5	Current status starting date and time	38
5.5.6	Scheme service definition URI	39
5.5.7	Service supply points	39
5.5.8	TSP service definition URI	39
5.5.9	Service information extensions	39
5.5.9.0	General	39
5.5.9.1	expiredCertsRevocationInfo Extension	40
5.5.9.2	Qualifications Extension	41
5.5.9.2.0	General	41
5.5.9.2.1	QualificationElement	41
5.5.9.2.2	CriteriaList	41
5.5.9.2.3	Qualifier	42
5.5.9.3	TakenOverBy Extension	44
5.5.9.4	additionalServiceInformation Extension	45
5.5.10	Service history	45
5.6	Service history instance	46
5.6.1	Service type identifier	46
5.6.2	Service name	46
5.6.3	Service digital identity	46
5.6.4	Service previous status	46
5.6.5	Previous status starting date and time	46
5.6.6	Service information extensions	46
5.7	Digital signature	47
5.7.1	Digitally signed Trusted List	47
5.7.2	Digital signature algorithm identifier	47
5.7.3	Digital signature value	48
6	Operations	48
6.1	TL publication	48
6.2	Transport Protocols	48
6.2.1	HTTP-Transport	48
6.2.1.1	HTTP-Media Type	48
6.2.2	MIME registrations	49
6.3	TL Distribution Points in trust service tokens	49
6.4	TL availability	49
6.5	TLSO practices	49
Annex A (informative): Authenticating and trusting trusted lists		50
A.1	Authenticating and trusting a TL	50
A.2	Ensuring continuity in TL authentication	51
Annex B (normative): Implementation in XML		53
B.0	General requirements	53
B.1	The Signature element	53
B.1.0	General	53
B.1.1	The scheme operator identifier in XAdES signatures	54
B.1.2	Algorithm and parameters	54
Annex C (normative): XML schema		55
C.1	Electronic attachment	55
C.2	XML schemas	55
Annex D (normative): Registered Uniform Resource Identifiers		56
D.0	General	56