

STN	Elektronické podpisy a infraštruktúry (ESI) Elektronické registrované doručovateľské služby Časť 2: Sémantický obsah	STN EN 319 522-2 V1.2.1
		87 9522

Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 2: Semantic contents

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/24

Obsahuje: EN 319 522-2 V1.2.1:2024

138519



ETSI EN 319 522-2 V1.2.1 (2024-01)



Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 2: Semantic contents

ReferenceREN/ESI-0019522-2v121

Keywords

e-delivery services, registered e-delivery services,
registered electronic mail

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 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from:
<https://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 prevailing version of an ETSI deliverable is the one made publicly available in PDF format at www.etsi.org/deliver.

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
<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

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>

If you find a security vulnerability in the present document, please report it through our
Coordinated Vulnerability Disclosure Program:
<https://www.etsi.org/standards/coordinated-vulnerability-disclosure>

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.
In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

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.

© ETSI 2024.
All rights reserved.

Contents

Intellectual Property Rights	5
Foreword.....	5
Modal verbs terminology.....	5
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references.....	6
3 Definition of terms, symbols and abbreviations.....	7
3.1 Terms.....	7
3.2 Symbols.....	7
3.3 Abbreviations	7
4 Overview	7
5 Identification of actors.....	10
5.1 Introduction	10
5.2 Identifiers	10
5.3 Identity attributes.....	10
5.3.1 Introduction.....	10
5.3.2 Identity attributes of natural persons.....	10
5.3.3 Identity attributes of legal person	10
5.3.4 Identity attributes of other entities	10
5.4 Identity verification and authentication assurance levels information	11
6 ERDS relay metadata	11
6.1 Introduction	11
6.2 Metadata components.....	12
6.2.1 MD01 - Metadata version	12
6.2.2 MD02 - Relay date and time	12
6.2.3 MD03 - Expiry date and time	12
6.2.4 MD04 - Recipient required level of assurance.....	12
6.2.5 MD05 - Applicable policy	13
6.2.6 MD06 - Mode of consignment.....	13
6.2.7 MD07 - Scheduled delivery	13
6.2.8 MD08 - Sender's identifier.....	14
6.2.9 MD09 - Reply-to.....	14
6.2.10 MD10 - Recipient's identifier	14
6.2.11 MD11 - Message identifier	14
6.2.12 MD12 - In reply to	14
6.2.13 MD13 - Message type	14
6.2.14 MD14 - User content information.....	15
6.2.15 MD15 - Other metadata	15
7 Digital signatures in ERDS provisioning	15
7.1 Objects and actors for digital signatures.....	15
7.2 Common requirements for digital signatures	15
8 ERDS evidence set and components	16
8.1 Introduction	16
8.2 Evidence components.....	17
8.2.1 G01 - Evidence identifier.....	17
8.2.2 G02 - Evidence version.....	17
8.2.3 G03 - Event identifier	17
8.2.4 G04 - Reason identifier	18
8.2.5 G05 - Event time	18
8.2.6 G06 - Transaction log information	18
8.2.7 R01 - Evidence issuer policy identifier.....	18

8.2.8	R02 - Evidence issuer details	18
8.2.9	R03 - Signature by issuing ERDS.....	19
8.2.10	I01 - Sender's identity attributes	19
8.2.11	I02 - Sender's identifier.....	19
8.2.12	I03 - Sender's delegate identity attributes	19
8.2.13	I04 - Sender's delegate identifier.....	20
8.2.14	I05 - Recipient's identity attributes	20
8.2.15	I06 - Recipient's identifier.....	20
8.2.16	I07 - Recipient's delegate identity attributes	20
8.2.17	I08 - Recipient's delegate identifier	21
8.2.18	I09 - Recipient referred to by the Evidence	21
8.2.19	I10 - Sender's identity assurance level details.....	21
8.2.20	I11 - Sender's delegate identity assurance level details	21
8.2.21	I12 - Recipient's identity assurance level details	22
8.2.22	I13 - Recipient's delegate identity assurance level details	22
8.2.23	M01 - Message identifier	22
8.2.24	M02 - User content information	22
8.2.25	M03 - Submission date and time	22
8.2.26	M04 - External system.....	23
8.2.27	M05 - External ERDS	23
8.2.28	E01 - Extensions	23
8.3	Evidence components values.....	23
8.3.1	Free text	23
8.3.2	Events	23
8.3.3	Reasons	24
8.3.3.1	Reasons related to Events A.x (Sender's submission)	24
8.3.3.2	Reasons related to the Events B.x (Relay between ERDSs)	25
8.3.3.3	Reasons related to events C.x (Acceptance/rejection by the recipient).....	25
8.3.3.4	Reasons related to events D.x (Consignment to the recipient).....	27
8.3.3.5	Reasons related to events E.x (Handover to the recipient).....	27
8.3.3.6	Reasons related to events F.x (Connection to non ERDS)	28
8.4	Additional requirements for components of evidence	29
9	Common Services Interface content.....	31
9.1	Introduction	31
9.2	ERD message routing	31
9.3	ERDS trust establishment and governance.....	31
9.4	Capability management	32
9.4.1	Introduction.....	32
9.4.2	Resolving recipient identification to ERDS identification.....	32
9.4.3	Recipient metadata.....	33
9.4.4	ERDS capability metadata	33
Annex A (informative):	Change History	35
History		36

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, PLUGTESTS™, UMTS™ and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the **GSM** logo are trademarks registered and owned by the GSM Association.

Foreword

This European Standard (EN) has been produced by ETSI Technical Committee Electronic Signatures and Infrastructures (ESI).

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

National transposition dates	
Date of adoption of this EN:	3 January 2024
Date of latest announcement of this EN (doa):	30 April 2024
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 October 2024
Date of withdrawal of any conflicting National Standard (dow):	31 October 2024

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document specifies the semantic content that flows across the interfaces of ERD services which are specified in ETSI EN 319 522-1 [1], clause 5.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference/>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] [ETSI EN 319 522-1](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 1: Framework and Architecture".
- [2] [IETF RFC 3061](#): "A URN Namespace of Object Identifiers".
- [3] [Core Person Vocabulary v2.0](#).
- [4] [Registered Organizations Vocabulary v2.0](#).
- [5] [CEF eIDAS Technical Sub-group](#): "eIDAS SAML Attribute profile", Version 1.2. August 2019.

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] [Regulation \(EU\) No 910/2014](#) of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC.
- [i.2] Void.
- [i.3] IETF RFC 4122: "A Universally Unique IDentifier (UUID) URN Namespace".
- [i.4] IETF RFC 5322: "Internet Message Format".
- [i.5] ETSI TS 119 312: "Electronic Signatures and Infrastructures (ESI); Cryptographic Suites".
- [i.6] ETSI TS 119 612: "Electronic Signatures and Infrastructures (ESI); Trusted Lists".
- [i.7] ETSI EN 319 522-3: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 3: Formats".

- [i.8] ETSI EN 319 522-4-1: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 1: Message delivery bindings".
 - [i.9] ETSI EN 319 522-4-2: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 2: evidence and identification bindings".
 - [i.10] Void.
 - [i.11] ETSI EN 319 122-1: "Electronic Signatures and Infrastructures (ESI); CAdES digital signatures; Part 1: Building blocks and CAdES baseline signatures".
 - [i.12] ETSI EN 319 132-1: "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures; Part 1: Building blocks and XAdES baseline signatures".
 - [i.13] ETSI EN 319 142-1: "Electronic Signatures and Infrastructures (ESI); PAdES digital signatures; Part 1: Building blocks and PAdES baseline signatures".
-

koniec náhľadu – text d'alej pokračuje v platenej verzii STN