

**Electronic Signatures and Infrastructures (ESI);
Registered Electronic Mail (REM) Services;
Part 3: Formats**
(ETSI EN 319 532-3 V1.1.1 (2018-09))

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**Electronic Signatures and Infrastructures (ESI);
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Part 3: Formats**

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Foreword

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

The present document is part 3 of a multi-part deliverable. Full details of the entire series can be found in part 1 [10].

National transposition dates	
Date of adoption of this EN:	23 August 2018
Date of latest announcement of this EN (doa):	30 November 2018
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2019
Date of withdrawal of any conflicting National Standard (dow):	31 May 2019

Modal verbs terminology

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Introduction

Registered Electronic Mail (REM) is a particular instance of An "Electronic Registered Delivery Service" (ERDS). Standard email, used as backbone, makes interoperability smooth and increases usability. At the same time, the application of additional security mechanisms ensures integrity, confidentiality and non-repudiation (of submission, consignment, handover, etc.), and protects against risk of loss, theft, damage and any illegitimate modification.

The present document aims to cover the common and worldwide-recognized requirements to address electronic registered delivery in a secure and reliable way. Particular attention is paid to the Regulation (EU) No 910/2014 [i.5]. However, the legal effects are outside the scope of the present document.

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1 Scope

The present document specifies the formats for messages that are produced and handled by a Registered Electronic Mail (REM) service according to the concepts and semantic defined in ETSI EN 319 522 parts 1 [7] and 2 [8] and ETSI EN 319 532 parts 1 [10] and 2 [11]. More specifically:

- a) Specifies how the general ERDS concepts like user content and metadata are identified and mapped in the standard email structure.
- b) Specifies how the aforementioned concepts are mapped in the REM service messaging structures.
- c) Specifies how the ERDS evidence set is plugged inside the REM service messaging structures.
- d) Specifies additional mechanisms like digital signature and other security controls.

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.

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

- [1] IETF RFC 8118: "The application/pdf Media Type".
- [2] IETF RFC 2183: "Communicating Presentation Information in Internet Messages: The Content-Disposition Header Field".
- [3] IETF RFC 5751: "Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification".
- [4] IETF RFC 5322: "Internet Message Format".
- [5] IETF RFC 2854: "The 'text/html' Media Type".
- [6] IETF RFC 7303: "XML Media Types".
- [7] ETSI EN 319 522-1: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 1: Framework and Architecture".
- [8] ETSI EN 319 522-2: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 2: Semantic Contents".
- [9] ETSI EN 319 522-3: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 3: Formats".
- [10] ETSI EN 319 532-1: "Electronic Signatures and Infrastructures (ESI); Registered Electronic Mail (REM) Services; Part 1: Framework and Architecture".
- [11] ETSI EN 319 532-2: "Electronic Signatures and Infrastructures (ESI); Registered Electronic Mail (REM) Services; Part 2: Semantic contents".
- [12] IETF RFC 2045: "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies".