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Electronic Signatures and Infrastructures (ESI);
Testing Conformance and Interoperability of
Registered Electronic Mail Services;
Part 1: Testing conformance

#### Reference

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#### **Foreword**

This Technical Specification (TS) has been produced by ETSI Technical Committee Electronic Signatures and Infrastructures (ESI).

The present document is part 1 of a multi-part deliverable covering Registered Electronic Mail Services, as identified below:

- Part 1: "Testing conformance";
- Part 2: "Test suites for interoperability testing of providers using same format and transport protocols";
- Part 3: "Test suites for interoperability testing of providers using different format and transport protocols".

### 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 <u>ETSI Drafting Rules</u> (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 defines the set of checks to be performed for testing conformance in the provision of Registered Electronic Mail Services against the specific technical requirements defined in ETSI EN 319 532-3 [1] and against technical requirements for the provision of the service defined in ETSI EN 319 532-1 [2].

More specifically, the present document defines test assertions for testing conformance regarding:

- 1) The construction of MIME and SMIME headers (clause 5) and bodies (clause 6) in ETSI EN 319 532-3 [1].
- 2) The construction of REM messages (clause 7).
- 3) The generation of digital signatures in REM messages and ERDS evidence (clause 8)
- 4) Some aspects of the Common Service Interface (clause 9).
- 5) The structure and contents of ERDS evidence (clause 10).
- 6) Relevant aspects of the provision of the service, namely: the generation of ERDS evidence following certain events, and the security measures in the relevant interfaces defined in ETSI EN 319 532-3 [1], clause 11.

The present document does not define the checks to be performed for testing conformance in the provision of Registered Electronic Mail Services against technical requirements defined in none of the technical specifications on which ETSI EN 319 532-3 [1] is built.

### 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.

Delivery Services; Part 2: Semantic Contents".

[1]	ETSI EN 319 532-3: "Electronic Signatures and Infrastructures (ESI); Registered Electronic Mail (REM) Services; Part 3: Formats".
[2]	ETSI EN 319 532-1: "Electronic Signatures and Infrastructures (ESI); Registered Electronic Mail (REM) Services; Part 1: Framework and architecture".
[3]	IETF RFC 5751: "Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification".
[4]	IETF RFC 5322 (October 2008): "Internet Message Format".
[5]	ETSI EN 319 522-1: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 1: Framework and Architecture".
[6]	OASIS Standard: "Test Assertions Model Version 1.0".
[7]	ETSI TS 119 524-1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 1: Testing conformance".
[8]	ETSI EN 319 522-2: "Electronic Signatures and Infrastructures (ESI); Electronic Registered

- [9] ETSI EN 319 522-3: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 3: Formats".
- [10] ETSI TS 119 612: "Electronic Signatures and Infrastructures (ESI); Trusted Lists".

#### 2.2 Informative references

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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]	ETSI EN 319 532-4: "Electronic Signatures and Infrastructures (ESI); Registered Electronic Mail (REM) Services; Part 4: Interoperability profiles".
[i.2]	ETSI TS 119 312: "Electronic Signatures and Infrastructures (ESI); Cryptographic Suites".
[i.3]	IETF RFC 2046: "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types".
[i.4]	IETF RFC 6931 (April 2013): "Additional XML Security Uniform Resource Identifiers (URIs)".
[i.5]	ETSI EN 319 142-1: "Electronic Signatures and Infrastructures (ESI); PAdES digital signatures; Part 1: Building blocks and PAdES baseline signatures".
[i.6]	ETSI EN 319 122-1: "Electronic Signatures and Infrastructures (ESI); CAdES digital signatures; Part 1: Building blocks and CAdES baseline signatures".
[i.7]	ETSI EN 319 522-4-3: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 3: Capability/requirements bindings".
[i.8]	IETF RFC 5321: "Simple Mail Transfer Protocol".
[i.9]	IETF RFC 5246: "The Transport Layer Security (TLS) Protocol Version 1.2".
[i.10]	IETF RFC 3501: "Internet Message Access Protocol - Version 4rev1".

## 3 Definition of terms, symbols and abbreviations

#### 3.1 Terms

For the purposes of the present document, the terms given in ETSI EN 319 532-1 [2] apply.

### 3.2 Symbols

Void.

### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ARI	Acceptance/Rejection Interface
CA	Certification Authority
CSI	Common Service Infrastructure
ERDS	Electronic Registered Delivery Service

ERDSP Electronic Registered Delivery Service Provider
ERD-UA Electronic Registered Delivery - User Agent
ERI Evidence Retrieval Interface

ERI Evidence Retrieval Interface
IMAP Internet Mail Access Protocol
MEPI Message and Evidence Push Interface
MERI Message and Evidence Retrieval Interface

MRI Message Retrieval Interface
MSI Message Submission Interface

POP Post Office Protocol
REM Registered Electronic Mail
REMS Registered Electronic Mail Service

REMSP Registered Electronic Mail Service Provider

RI Relay Interface R-REMS Recipient's REMS S&N Store and Notify

S/MIME Secure/Multipurpose Internet Mail Extensions
SMIME Secure Multipurpose Internet Mail Extensions

SMTP Simple Mail Transfer Protocol

S-REMS Sender's REMS TL Trusted List

TLS Transport Layer Security
TSP Trust Service Provider
UID Unique IDentifier

URI Uniform Resource Identifier
URL Universal Resource Locator
UTF Unicode Transformation Format
XML eXtensible Mark-up Language

### 4 Overview

The present clause describes the main aspects of the technical approach used for specifying the whole set of tests to be performed for testing conformance against ETSI EN 319 532-3 [1] with the scope defined in clause 1 of the present document.

No tests are included testing conformance on requirements not specified in ETSI EN 319 532-3 [1].

The tests are defined using recent developments in testing fields. The selected technology is the test assertions as specified in OASIS Standard [6]. In consequence, the tests will be defined as test assertions.

Each test assertion defined in the present document will include:

- 1) Unique **identifier** for further referencing. The identifiers of the assertions defined within the present document will start with one code identifying the set of requirements the assertion corresponds to.
- 2) Reference to the **Normative source** for the test.
- 3) The **Target** of the assertion. In the normative part, this field identifies services whose technical implementation conforms to the requirements specified in ETSI EN 319 532-3 [1].
- 4) **Predicate** fully and unambiguously defining the assertion to be tested by tools claiming conformance to the present document.
- 5) **Prescription level**. Three levels are defined: mandatory, recommended and optional.
- 6) Tag. If assigned to test assertions it allows their categorization and grouping.

# Test assertions for SMIME section header fields specified by ETSI EN 319 532-3

### 5.1 Introduction

This clause defines the whole set of assertions required for testing compliance of the requirements defined by ETSI EN 319 532-3 [1] for the header fields present in the following REM messages' MIME section headers:

- 1) The outermost MIME section header.
- 2) The signed data MIME section header.
- 3) The REMS introduction MIME section header.
- 4) The original message MIME section header.
- 5) The REMS extension MIME section header.
- 6) The ERDS evidence MIME section header.
- 7) The REMS signature MIME section header.

## 5.2 Test assertions for fields in the outermost MIME section header

REMS/HEADER/OUT/FIELD/TA_01		
TA Id	REMS/HEADER/OUT/FIELD/TA_01	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	Content-Type	
	The value for this header field shall be "multipart/signed":	
	<ul> <li>'protocol' parameter value shall be "application/pkcs7-signature"</li> </ul>	
	<ul> <li>'micalg' parameter value should be conformant to ETSI TS 119 312 [i.2]</li> </ul>	
	<ul> <li>'boundary' parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1</li> </ul>	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'Content-Type' field of the outermost MIME section header is "multipart/signed"	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_02		
TA Id	REMS/HEADER/OUT/FIELD/TA_02	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	Content-Type	
	The value for this header field shall be "multipart/signed":	
	<ul> <li>'protocol' parameter value shall be "application/pkcs7-signature"</li> </ul>	
	<ul> <li>'micalg' parameter value should be conformant to ETSI TS 119 312 [i.2]</li> </ul>	
	<ul> <li>'boundary' parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1</li> </ul>	
Target	Conformance to outermost MIME section header	
Predicate	The value of parameter 'protocol' of 'Content-Type' field is "application/pkcs7-signature"	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_03		
TA Id	REMS/HEADER/OUT/FIELD/TA_03	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	Content-Type	
	The value for this header field shall be "multipart/signed":	
	<ul> <li>'protocol' parameter value shall be "application/pkcs7-signature"</li> </ul>	
	<ul> <li>'micalg' parameter value should be conformant to ETSI TS 119 312 [i.2]</li> </ul>	
	<ul> <li>'boundary' parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1</li> </ul>	
Target	Conformance to outermost MIME section header	
Predicate	The value of parameter 'micalg' of 'Content-Type' field is conformant to ETSI TS 119 312 [i.2]	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_04	
TA Id	REMS/HEADER/OUT/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1  Content-Type  The value for this header field shall be "multipart/signed":  • 'protocol' parameter value shall be "application/pkcs7-signature"  • 'micalg' parameter value should be conformant to ETSI TS 119 312 [i.2]  • 'boundary' parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1
Target	Conformance to outermost MIME section header
Predicate	The value of parameter 'boundary' of 'Content-Type' field is conformant to IETF RFC 2046 [i.3]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_05	
TA Id	REMS/HEADER/OUT/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Content-Type
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'Content-Type' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_06		
TA Id	REMS/HEADER/OUT/FIELD/TA_06	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	MIME-Version	
	The value for this header field shall be "1.0"	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'MIME-Version' field of the outermost MIME section header is "1.0"	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_07	
TA Id	REMS/HEADER/OUT/FIELD/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	MIME-Version
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'MIME-Version' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_08	
TA Id	REMS/HEADER/OUT/FIELD/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Message-ID
	The value for this header field should be an UID as defined in IETF RFC 5322 [4]
Target	Conformance to outermost MIME section header
Predicate	The value of 'Message-ID' field of the outermost MIME section header is an UID as defined in IETF RFC 5322 [8]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_09	
TA Id	REMS/HEADER/OUT/FIELD/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Message-ID
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'Message-ID' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_10	
TA Id	REMS/HEADER/OUT/FIELD/TA_10
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Date
	The value for this header field shall be compliant with clause 3.3 of IETF RFC 5322 [4]
Target	Conformance to outermost MIME section header
Predicate	The value of 'Date' field of the outermost MIME section header is compliant with clause 3.3 of
	IETF RFC 5322 [4]
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_11	
TA Id	REMS/HEADER/OUT/FIELD/TA_11
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Date
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'Date' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_12	
TA Id	REMS/HEADER/OUT/FIELD/TA_12	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	From	
	The value for this header field should be either a REMSP service address (e.g.	
	" <service_rem_md_x@rem_md_x.com>" or a transformation of the original From field to show the</service_rem_md_x@rem_md_x.com>	
	role of the REMSP (e.g. "on behalf of user@rem_md_x.com	
	<pre><service_rem_md_x@rem_md_x.com>")</service_rem_md_x@rem_md_x.com></pre>	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'From' field of the outermost MIME section header is either a REMSP service	
	address or a transformation of the original 'From' field to show the role of the REMSP	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_13	
TA Id	REMS/HEADER/OUT/FIELD/TA_13
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	From
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'From' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_14	
TA Id	REMS/HEADER/OUT/FIELD/TA_14
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	То
	In case of a REM dispatch or REM payload the value for this header field shall match the value of
	the 'To' header field in the original message. In case of a REM message carrying evidence for the
	sender, the value for this header field may match the value of the 'From' header field in the original
	message
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM Dispatch or REM payload
Predicate	The value of 'To' field of the outermost MIME section header matches the value of the To header
	field in the original message
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_15	
TA Id	REMS/HEADER/OUT/FIELD/TA_15
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	То
	In case of a REM dispatch the value for this header field shall match the value of the 'To' header field in the original message. In case of a REM message carrying evidence for the sender, the
	value for this header field may match the value of the 'From' header field in the original message
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of REM message carrying evidence for the sender
Predicate	The value of 'To' field of the outermost MIME section header matches the value of the 'From'
	header field in the original message
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_16	
TA Id	REMS/HEADER/OUT/FIELD/TA_16
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	То
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'To' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_17	
TA Id	REMS/HEADER/OUT/FIELD/TA_17
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Cc
	REMS should assign a value to this header field only for REM dispatch. In such case, the value
	shall match the value of the 'Cc' header field in the original message
Target	Conformance to outermost MIME section header
Predicate	The value of 'Cc' field of the outermost MIME section header matches the value of the 'Cc' header
	field in the original message
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_18	
TA Id	REMS/HEADER/OUT/FIELD/TA_18
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Cc
	Presence Optional
Target	Conformance to outermost MIME section header
Predicate	The 'Cc' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_19	
TA Id	REMS/HEADER/OUT/FIELD/TA_19	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1 Subject The value for this header field should be transformed as follows starting from the Subject header field contained in the original sender's message, in order to indicate the role that the REM message has within the flow: REM <event identifier="">: <original subject=""> (E.g.: "REM ContentConsignment: subject_of_original_message")</original></event>	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'Subject' field of the outermost MIME section header is the result of transforming the 'Subject' field in the original message as follows: REM <event identifier="">: <original 'subject'="" field=""></original></event>	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_20	
TA Id	REMS/HEADER/OUT/FIELD/TA_20
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Subject
	Presence Mandatory
Target	Conformance to outermost MIME section header
Predicate	The 'Subject' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_21
TA Id	REMS/HEADER/OUT/FIELD/TA_21
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	ReplyTo
	In the case of a REM dispatch or REM payload the value for this header field shall match the value of the 'From' header field in the original message. In the case of a REM message carrying evidence for the sender, this header field should not appear, and if it appears, its value should be
	the REM service address
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM dispatch or REM payload
Predicate	The value of 'ReplyTo' field of the outermost MIME section header matches the value of the 'From' header field in the original message
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_22
TA Id	REMS/HEADER/OUT/FIELD/TA_22
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1 ReplyTo In the case of a REM dispatch or REM payload the value for this header field shall match the value of the 'From' header field in the original message. In the case of a REM message carrying evidence for the sender, this header field should not appear, and if it appears, its value should be the REM service address
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM message carrying evidence for the sender and the ReplyTo field appears
Predicate	The value of 'ReplyTo' field of the outermost MIME section header is the REM service address
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_23	
TA Id	REMS/HEADER/OUT/FIELD/TA_23
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	ReplyTo
	Presence Conditional
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM dispatch or REM payload
Predicate	The 'ReplyTo' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_24	
TA Id	REMS/HEADER/OUT/FIELD/TA_24
Normative source	ETSI EN 319 532-3 [1],d clause 6.2.1
	ReplyTo
	Presence Conditional
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM message carrying evidence for the sender
Predicate	The 'ReplyTo' field of the outermost MIME section header is not present
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_25	
TA Id	REMS/HEADER/OUT/FIELD/TA_25	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	Return-Path	
	REMS may assign a value to this header field only for REM dispatch. In such case, the value	
	should match the value of the 'Return-Path' header field in the original messag	
Target	Conformance to outermost MIME section header	
Prerequisite	The header is part of a REM dispatch	
Predicate	The value of 'Return-Path' field of the outermost MIME section header matches the value of the	
	Return-Path' header field in the original message	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_26	
TA Id	REMS/HEADER/OUT/FIELD/TA_26
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Return-Path
	Presence Conditional
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM dispatch
Predicate	The 'Return-Path' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_27	
TA Id	REMS/HEADER/OUT/FIELD/TA_27
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Received
	REMS may assign a value to this header field only for REM dispatch. In such case, the value shall
	match the value of the 'Received' header field in the original message
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM dispatch
Predicate	The value of 'Received' field of the outermost MIME section header matches the value of the
	'Received' header field in the original message
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_28	
TA Id	REMS/HEADER/OUT/FIELD/TA_28
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Received
	Presence Conditional
Target	Conformance to outermost MIME section header
Prerequisite	The header is part of a REM dispatch
Predicate	The 'Received' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_29	
TA Id	REMS/HEADER/OUT/FIELD/TA_29
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	Received
	Presence Conditional
Target	Conformance to outermost MIME section header
Prerequisite	The header is not part of a REM dispatch
Predicate	The 'Received' field of the outermost MIME section header is not present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_30	
TA Id	REMS/HEADER/OUT/FIELD/TA_30
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	In-Reply-To
	REMS may assign a value to this header field. The value should match the value of the
	'In-Reply-To' header field in the original message
Target	Conformance to outermost MIME section header
Predicate	The value of 'In-Reply-To' field of the outermost MIME section header matches the value of the
	'In-Reply-To' header field in the original message
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_31	
TA Id	REMS/HEADER/OUT/FIELD/TA_31
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	In-Reply-To
	Presence Optional
Target	Conformance to outermost MIME section header
Predicate	The 'In-Reply-To' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_32	
TA Id	REMS/HEADER/OUT/FIELD/TA_32	
Normative source	ETSI EN 319 532-3 [1], clause 6.1 REM-MetadataVersion This value shall be formatted as defined in ETSI EN 319 522-2 [8], clause 6.2.1 - MD01 and it shall contain the version number of the present document according to the format EN31953203	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-MetadataVersion' field of the outermost MIME section header is formatted as defined in ETSI EN 319 522-2 [8], clause 6.2.1 - MD01 and it contains the version number of the applicable version of ETSI EN 319 532-3 [1] according to the format EN31953203	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_33	
TA Id	REMS/HEADER/OUT/FIELD/TA_33
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-MetadataVersion: Cardinality 1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-MetadataVersion' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_34	
TA Id	REMS/HEADER/OUT/FIELD/TA_34
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-RelayDate
	The format of this value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.2 - MD02 and
	ETSI EN 319 522-3 [9], clause 4.3.7, and mapped according to clause 3.3 of IETF RFC 5322 [4]
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM- RelayDate' field of the outermost MIME section header is as defined in ETSI
	EN 319 522-2 [8], clause 6.2.2 - MD02 and ETSI EN 319 522-3 [9], clause 4.3.7, and mapped
	according to clause 3.3 of IETF RFC 5322 [4]
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_35	
TA Id	REMS/HEADER/OUT/FIELD/TA_35
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-RelayDate: cardinality 0-1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-RelayDate' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_36	
TA Id	REMS/HEADER/OUT/FIELD/TA_36
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-ExpirationDate
	The format of this value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.3 - MD03 and
	ETSI EN 319 522-3 [9], clause 4.3.8. Mapped according to clause 3.3 of IETF RFC 5322 [4]
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-RelayDate' field of the outermost MIME section header is as defined in ETSI
	EN 319 522-2 [8], clause 6.2.3 - MD03 and ETSI EN 319 522-3 [9], clause 4.3.8. mapped
	according to clause 3.3 of IETF RFC 5322 [4]
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_37	
TA Id	REMS/HEADER/OUT/FIELD/TA_37
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-ExpirationDate: cardinality 0-1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-ExpirationDate' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_38
TA Id	REMS/HEADER/OUT/FIELD/TA_38
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-RecipientAssuranceLevel
	This value shall be formatted as defined in ETSI EN 319 522-2 [8], clause 6.2.4 - MD04 and ETSI
	EN 319 522-3 [9], clause 4.3.14, and mapped in REM according to extension mechanisms defined
	in clause 6.2.1 or clause 6.2.5 for structured information (of ETSI EN 319 532-3 [1])
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-RecipientAssuranceLevel' field of the outermost MIME section header is as
	defined in ETSI EN 319 522-2 [8], clause 6.2.4 - MD04 and ETSI EN 319 522-3 [9], clause 4.3.14,
	and mapped in REM according to extension mechanisms defined in clause 6.2.1 or clause 6.2.5
	for structured information (of ETSI EN 319 532-3 [1])
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_39	
TA Id	REMS/HEADER/OUT/FIELD/TA_39
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-RecipientAssuranceLevel: cardinality 0-1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-RecipientAssuranceLevel' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_40	
TA Id	REMS/HEADER/OUT/FIELD/TA_40
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-ApplicablePolicy
	This value shall be formatted as defined in ETSI EN 319 522-2 [8], clause 6.2.5 - MD05 and ETSI
	EN 319 522-3 [9], clause 4.3.15
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-ApplicablePolicy' field of the outermost MIME section header is formatted as
	defined in ETSI EN 319 522-2 [8], clause 6.2.5 - MD05 and ETSI EN 319 522-3 [9], clause 4.3.15
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_41	
TA Id	REMS/HEADER/OUT/FIELD/TA_41
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-ApplicablePolicy: cardinality 0-n
	If there is more than one applicable policy, then the header field shall appear as many times as
	needed, and each occurrence shall contain one of the applicable policies
Target	Conformance to outermost MIME section header
Predicate	The 'REM-ApplicablePolicy' field of the outermost MIME section header is present as many times
	as many applicable policies there are (zero or more)
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_42	
TA Id	REMS/HEADER/OUT/FIELD/TA_42	
Normative source	ETSI EN 319 532-3 [1], clause 6.1 REM-ModeOfConsignment	
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.6 - MD06. It shall contain one of the URIs defined in ETSI EN 319 522-3 [9], clause 4.3.16	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-ModeOfConsignment' field of the outermost MIME section header is as defined in ETSI EN 319 522-2 [8], clause 6.2.6 - MD06 and it contains one of the URIs defined in ETSI EN 319 522-3 [9], clause 4.3.16	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_43	
TA Id	REMS/HEADER/OUT/FIELD/TA_43
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-ModeOfConsignment: cardinality 0-1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-ModeOfConsignment' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_44	
TA Id	REMS/HEADER/OUT/FIELD/TA_44	
Normative source	ETSI EN 319 532-3 [1], clause 6.1 REM-ScheduledDelivery	
	The format of this value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.7 - MD07 and ETSI EN 319 522-3 [9], clause 4.3.9, and mapped according to clause 3.3 of IETF RFC 5322 [4]	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-ScheduledDelivery' field of the outermost MIME section header is formatted as defined in ETSI EN 319 522-2 [8], clause 6.2.7 - MD07 and ETSI EN 319 522-3 [9], clause 4.3.9, and mapped according to clause 3.3 of IETF RFC 5322 [4]	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_45	
TA Id	REMS/HEADER/OUT/FIELD/TA_45
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-ScheduledDelivery: cardinality 0-1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-ScheduledDelivery' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_46
TA Id	REMS/HEADER/OUT/FIELD/TA_46
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-MessageType
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.13 - MD13. It shall contain
	one of the URIs defined in ETSI EN 319 522-3 [9], clause 4.3.5, except
	in case of REMS notification, when the value shall be:
	http://uri.etsi.org/19522/v1#/ERDMessageType/notification
Target	Conformance to outermost MIME section header
Prerequisite	The 'REM-MessageType' field is not part of a REMS notification message
Predicate	The value of 'REM-MessageType' field of the outermost MIME section header is as defined in
	ETSI EN 319 522-2 [8], clause 6.2.13 - MD13, and it contains one the URIs defined in ETSI
	EN 319 522-3 [9], clause 4.3.5
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_47	
TA Id	REMS/HEADER/OUT/FIELD/TA_47
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-MessageType
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.13 - MD13. It shall contain
	one of the URIs defined in ETSI EN 319 522-3 [9], clause 4.3.5, except
	in case of REMS notification, when the value shall be:
	http://uri.etsi.org/19522/v1#/ERDMessageType/notification
Target	Conformance to outermost MIME section header
Prerequisite	The 'REM-MessageType' field is part of a REMS notification message
Predicate	The value of 'REM-MessageType' field of the outermost MIME section header is
	http://uri.etsi.org/19522/v1#/ERDMessageType/notification
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_48	
TA Id	REMS/HEADER/OUT/FIELD/TA_48
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-MessageType: cardinality 1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-MessageType' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_49	
TA Id	REMS/HEADER/OUT/FIELD/TA_49	
Normative source	ETSI EN 319 532-3 [1], clause 6.1	
	REM-DigestAlgorithm	
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.14 - MD14 and ETSI	
	EN 319 522-3 [9], clause 4.3.13	
	In REM it should be mapped as a URI compliant with section 4.2 of IETF RFC 6931 [i.4]	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-DigestAlgorithm' field of the outermost MIME section header is as defined in	
	ETSI EN 319 522-2 [8], clause 6.2.14 - MD14 and ETSI EN 319 522-3 [9], clause 4.3.13	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

	REMS/HEADER/OUT/FIELD/TA_50	
TA Id	REMS/HEADER/OUT/FIELD/TA_50	
Normative source	ETSI EN 319 532-3 [1], clause 6.1	
	REM-DigestAlgorithm	
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.14 - MD14 and ETSI	
	EN 319 522-3 [9], clause 4.3.13	
	In REM it should be mapped as a URI compliant with section 4.2 of IETF RFC 6931 [i.4]	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-DigestAlgorithm' field of the outermost MIME section header is mapped as a	
	URI compliant with section 4.2 of IETF RFC 6931 [i.4]	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_51	
TA Id	REMS/HEADER/OUT/FIELD/TA_51
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-DigestAlgorithm: cardinality 1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-DigestAlgorithm' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_52	
TA Id	REMS/HEADER/OUT/FIELD/TA_52	
Normative source	ETSI EN 319 532-3 [1], clause 6.1	
	REM-DigestValue	
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.14 - MD14 and ETSI	
	EN 319 522-3 [9], clause 4.3.13	
	In REM it should contain the base64 encoded digest value of original message as computed using	
	the digest algorithm indicated in the aforementioned header field	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-DigestAlgorithm' field of the outermost MIME section header is as defined in	
	ETSI EN 319 522-2 [8], clause 6.2.14 - MD14 and ETSI EN 319 522-3 [9], clause 4.3.13	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

	REMS/HEADER/OUT/FIELD/TA_53	
TA Id	REMS/HEADER/OUT/FIELD/TA_53	
Normative source	ETSI EN 319 532-3 [1], clause 6.1	
	REM-DigestValue	
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.14 - MD14 and ETSI	
	EN 319 522-3 [9], clause 4.3.13	
	In REM it should contain the base64 encoded digest value of original message as computed using	
	the digest algorithm indicated in the aforementioned header field	
Target	Conformance to outermost MIME section header	
Predicate	The value of 'REM-DigestAlgorithm' field of the outermost MIME section header contains the	
	base64 encoded digest value of original message as computed using the digest algorithm	
	indicated in the aforementioned header field	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_54	
TA Id	REMS/HEADER/OUT/FIELD/TA_54
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-DigestValue: cardinality 1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-DigestValue' field of the outermost MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_55
TA Id	REMS/HEADER/OUT/FIELD/TA_55
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-UAMessageIdentifier
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.11 - MD11 and ETSI
	EN 319 522-3 [9], clause 4.3.4
	In REM it should contain the Message-ID value of the original message submitted by the ERD-UA
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-UAMessageIdentifier' field of the outermost MIME section header is as defined
	in ETSI EN 319 522-2 [8], clause 6.2.11 - MD11 and ETSI EN 319 522-3 [9], clause 4.3.4
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_56	
TA Id	REMS/HEADER/OUT/FIELD/TA_56
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-UAMessageIdentifier
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 6.2.11 - MD11 and ETSI
	EN 319 522-3 [9], clause 4.3.4
	In REM it should contain the Message-ID value of the original message submitted by the ERD-UA
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-UAMessageIdentifier' field of the outermost MIME section header contains the
	Message-ID value of the original message submitted by the ERD-UA
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_57	
TA Id	REMS/HEADER/OUT/FIELD/TA_57
Normative source	ETSI EN 319 522-2 [8], clause 6.1 and Table 5
	REM-UAMessageIdentifier: cardinality 0-1
Target	Conformance to outermost MIME section header
Predicate	The 'REM-UAMessageIdentifier' field of the outermost MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_58	
TA Id	REMS/HEADER/OUT/FIELD/TA_58
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-EventIdentifier
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 8.2.3 - G03.
	It shall contain a URI defined in Table 3 of ETSI EN 319 522-3 [9], clause 5.2.2.5
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-EventIdentifier' field of the outermost MIME section header is as defined in
	ETSI EN 319 522-2 [8], clause 8.2.3 - G03
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_59	
TA Id	REMS/HEADER/OUT/FIELD/TA_59
Normative source	ETSI EN 319 532-3 [1], clause 6.1
	REM-EventIdentifier
	This value shall be as defined in ETSI EN 319 522-2 [8], clause 8.2.3 - G03.
	It shall contain a URI defined in Table 3 of ETSI EN 319 522-3 [9], clause 5.2.2.5
Target	Conformance to outermost MIME section header
Predicate	The value of 'REM-EventIdentifier' field of the outermost MIME section header contains one of the
	URIs defined in Table 3 of ETSI EN 319 522-3 [9], clause 5.2.2.5
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_60	
TA Id	REMS/HEADER/OUT/FIELD/TA_60	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1	
	REM-EventIdentifier	
	The present header section of a REM message shall contain the following header fields according	
	to the requirements of presence and format defined in Table 2 of ETSI EN 319 532-3 [1]	
	REM-EventIdentifier	
Target	Conformance to outermost MIME section header	
Predicate	The 'REM-EventIdentifier' field of the outermost MIME section header is present	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

	REMS/HEADER/OUT/FIELD/TA_61	
TA Id	REMS/HEADER/OUT/FIELD/TA_61	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1 Furthermore, the header section of each REM message may contain other basic extension header fields The syntax of these basic extension header fields shall be as follows: REM- <component>: <value></value></component>	
Target	Conformance to outermost MIME section header	
Predicate	Additional basic headers not specified in ETSI EN 319 532-3 [1] are present	
Prescription level	Optional	
Tag	Conformance, REMS, REMSP, REMS relay metadata	

REMS/HEADER/OUT/FIELD/TA_62	
TA Id	REMS/HEADER/OUT/FIELD/TA_62
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1 Furthermore, the header section of each REM message may contain other basic extension header fields The syntax of these basic extension header fields shall be as follows: REM- <component>: <value></value></component>
Target	Conformance to outermost MIME section header
Prerequisite	Additional basic headers not specified in ETSI EN 319 532-3 [1] are present
Predicate	The name of any additional basic header not specified in ETSI EN 319 532-3 [1] starts with "REM-"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_63	
TA Id	REMS/HEADER/OUT/FIELD/TA_63
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	The same naming mechanism should be used also for other implementation-specific or custom
	header fields
Target	Conformance to outermost MIME section header
Predicate	Additional implementation-specific or custom header fields not specified in ETSI
	EN 319 532-3 [1] are present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS relay metadata

REMS/HEADER/OUT/FIELD/TA_64	
TA Id	REMS/HEADER/OUT/FIELD/TA_64
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1
	The same naming mechanism should be used also for other implementation-specific or custom
	header fields
Target	Conformance to outermost MIME section header
Prerequisite	Additional implementation-specific or custom header fields not specified in ETSI
	EN 319 532-3 [1] are present
Predicate	The name of any implementation-specific or custom header field not specified in ETSI
	EN 319 532-3 [1] starts with "REM-"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

	REMS/HEADER/OUT/FIELD/TA_65
TA Id	REMS/HEADER/OUT/FIELD/TA_65
Normative source	ETSI EN 319 532-3 [1], clause 6.2.1 In case the character set of the <value> to assign to any aforementioned header fields is not compliant with the supported email standards, a base64 encoding should be used for a consistent representation in a unique header field body</value>
Target	Conformance to outermost MIME section header
Prerequisite	The character set of the <value> to assign to an additional basic header, or to an implementation-specific, or to a custom header field not specified in ETSI EN 319 532-3 [1], is not compliant with the supported email standards</value>
Predicate	The <value> uses a base64 encoding for a consistent representation in a unique header field body</value>
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS relay metadata

# 5.3 Test assertions for fields in the signed data MIME section header

REMS/HEADER/SIGDATA/FIELD/TA_01	
TA Id	REMS/HEADER/SIGDATA/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.2
	Content-Type
	The value for this header field shall be: "multipart/mixed"
	boundary parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1
Target	Conformance to SignedData MIME section header
Predicate	The value of 'Content-Type' field of the SignedData MIME section header is "multipart/mixed"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, SignedData MIME Header

REMS/HEADER/SIGDATA/FIELD/TA_02	
TA Id	REMS/HEADER/SIGDATA/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.2
	Content-Type
	The value for this header field shall be: "multipart/mixed"
	'boundary' parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1
Target	Conformance to SignedData MIME section header
Predicate	The value of the parameter 'boundary' of 'Content-Type' field of the SignedData MIME section
	header is conformant to IETF RFC 2046 [i.3], section 5.1.1
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, SignedData MIME Header

REMS/HEADER/SIGDATA/FIELD/TA_03	
TA Id	REMS/HEADER/SIGDATA/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.2
	Content-Type
	Presence Mandatory
Target	Conformance to SignedData MIME section header
Predicate	The 'Content-Type' field of the SignedData MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, SignedData MIME Header

## 5.4 Test assertions for fields in REMS introduction MIME section header

### 5.4.1 Test assertions for Introduction MIME section header

This clause defines test assertions for the headers in the Introduction MIME section. Clauses 5.4.2 and 5.4.3 define test assertions for headers in the two alternative MIME sub-sections, namely the free-text, and the HTML sub-sections.

REMS/HEADER/INTRO/FIELD/TA_01	
TA Id	REMS/HEADER/INTRO/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.1
	REM-Section-Type
	The value of this field should be "rem_message/introduction"
Target	Conformance to Introduction MIME section header
Predicate	The value of 'REM-Section-Type' field of the Introduction MIME section header is
	"rem_message/introduction"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Introduction MIME Header

REMS/HEADER/INTRO/FIELD/TA_02	
TA Id	REMS/HEADER/INTRO/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.1
	REM-Section-Type
	Presence Optional
Target	Conformance to Introduction MIME section header
Predicate	The 'REM-Section-Type' field of the Introduction MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Introduction MIME Header

REMS/HEADER/INTRO/FIELD/TA_03	
TA Id	REMS/HEADER/INTRO/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.1
	Content-Type
	The value for this field shall be: "multipart/alternative"
	'boundary' parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1
Target	Conformance to Introduction MIME section header
Predicate	The value of 'Content-Type' field of the Introduction MIME section header is
	"multipart/alternative"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header

REMS/HEADER/INTRO/FIELD/TA_04	
TA Id	REMS/HEADER/INTRO/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.1
	Content-Type
	The value for this field shall be: "multipart/alternative"
	boundary parameter value should be conformant to IETF RFC 2046 [i.3], section 5.1.1
Target	Conformance to Introduction MIME section header
Predicate	The value of the parameter 'boundary' of 'Content-Type' field of the Introduction MIME section
	header is conformant to IETF RFC 2046 [i.3], section 5.1.1
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Introduction MIME Header

REMS/HEADER/INTRO/FIELD/TA_05	
TA Id	REMS/HEADER/INTRO/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.1
	Content-Type
	Presence Mandatory
Target	Conformance to Introduction MIME section header
Predicate	The 'Content-Type' field of the Introduction MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header

### 5.4.2 Test assertions for free text MIME subsection header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_01	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Type
	The value for this field shall be: "text/plain"
	'charset' parameter value should be "UTF-8"
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The value of 'Content-Type' field of the free text MIME sub-section header within Introduction
	MIME section, is "text/plain"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_02	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Type
	The value for this field shall be: "text/plain".
	'charset' parameter value should be "UTF-8"
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The value of the parameter 'charset' of 'Content-Type' field of the free text MIME sub-section
	header within Introduction MIME section, is "UTF-8"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_03	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Type
	Presence Mandatory
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The 'Content-Type' field of the free text MIME sub-section header within Introduction MIME
	section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_04	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Disposition
	The value of this header field shall be "inline" in order to display the present body part
	automatically, upon display of the message in mail client
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The value of 'Content-Disposition' field of the free text MIME sub-section header within
	Introduction MIME section, is "inline"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_05	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Disposition
	Presence Optional
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The 'Content-Disposition' field of the free text MIME sub-section header within Introduction
	MIME section is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_06	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Transfer-Encoding
	The value for this field should be: 7bit, 8bit or quoted-printable
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The value of 'Content-Transfer-Encoding' field of the free text MIME sub-section header within
	Introduction MIME section, is either "7bit", "8bit", or "quoted-printable"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

REMS/HEADER/INTRO/FREETEXT/FIELD/TA_07	
TA Id	REMS/HEADER/INTRO/FREETEXT/FIELD/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.2
	Content-Transfer-Encoding
	Presence Mandatory
Target	Conformance to Introduction MIME section header, Free Text sub-section MIME header
Predicate	The 'Content-Transfer-Encoding' field of the free text MIME sub-section header within
	Introduction MIME section is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Introduction MIME Header, Free text sub-section MIME Header

## 5.4.3 Test assertions for HTML MIME subsection header

REMS/HEADER/INTRO/HTML/FIELD/TA_01	
TA Id	REMS/HEADER/INTRO/HTML/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.3
	Content-Type
	The value for this field shall be: "text/html;".
	'charset' parameter value should be "UTF-8"
Target	Conformance to Introduction MIME section header, HTML sub-section MIME header
Predicate	The value of 'Content-Type' field of the HTML MIME sub-section header within Introduction
	MIME section, is "text/html"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header, HTML sub-section MIME Header

REMS/HEADER/INTRO/HTML/FIELD/TA_02	
TA Id	REMS/HEADER/INTRO/HTML/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.3
	Content-Type
	The value for this field shall be: "text/html;"
	charset' parameter value should be "UTF-8"
Target	Conformance to Introduction MIME section header, HTML sub-section MIME header
Predicate	The value of the parameter 'charset' of 'Content-Type' field of the HTML MIME sub-section
	header within Introduction MIME section, is "UTF-8"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Introduction MIME Header, HTML sub-section MIME Header

REMS/HEADER/INTRO/HTML/FIELD/TA_03	
TA Id	REMS/HEADER/INTRO/HTML/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.3
	Content-Type
	Presence Mandatory
Target	Conformance to Introduction MIME section header, HTML sub-section MIME header
Predicate	The 'Content-Type' field of the HTML MIME sub-section header within Introduction MIME section
	is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header, HTML sub-section MIME Header

REMS/HEADER/INTRO/HTML/FIELD/TA_04	
TA Id	REMS/HEADER/INTRO/HTML/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.3
	Content-Transfer-Encoding
	The value for this field should be: 7bit, 8bit or quoted-printable
Target	Conformance to Introduction MIME section header, HTML sub-section MIME header
Predicate	The value of 'Content-Transfer-Encoding' field of the HTML MIME sub-section header within
	Introduction MIME section, is either "7bit", "8bit", or "quoted-printable"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Introduction MIME Header, HTML sub-section MIME Header

REMS/HEADER/INTRO/HTML/FIELD/TA_05	
TA Id	REMS/HEADER/INTRO/HTML/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.3
	Content-Transfer-Encoding
	Presence Mandatory
Target	Conformance to Introduction MIME section header, HTML sub-section MIME header
Predicate	The 'Content-Transfer-Encoding' field of the HTML MIME sub-section header within Introduction
	MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME Header, HTML sub-section MIME Header

# 5.5 Test assertions for fields in original message MIME section header

REMS/HEADER/ORMESS/FIELD/TA_01	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Type
	The value for this field shall be: "message/rfc822".
	'name' parameter value shall be "AttachedMimeMessage"
Target	Conformance to Original Message MIME section header
Predicate	The value of 'Content-Type' field of the Original Message MIME section header, is
	"message/rfc822"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_02	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Type
	The value for this field shall be: "message/rfc822"
	'name' parameter value shall be "AttachedMimeMessage"
Target	Conformance to Original Message MIME section header
Predicate	The value of the parameter 'name' of 'Content-Type' field of the Original Message MIME section
	header, is "AttachedMimeMessage"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_03	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Type
	Presence Mandatory
Target	Conformance to Original Message MIME section header
Predicate	The 'Content-Type' field of the Original Message MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_04	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Transfer-Encoding
	The value of this header field shall be "binary"
Target	Conformance to Original Message MIME section header
Predicate	The value of 'Content-Transfer-Encoding' field of the Original Message MIME section header, is "binary"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_05	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Transfer-Encoding
	Presence Mandatory
Target	Conformance to Original Message MIME section header
Predicate	The 'Content-Transfer-Encoding' field of the Original Message MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_06	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Disposition
	The value for this field shall be: "attachment".
	'filename' parameter value shall match the value of the 'name' parameter of the Content-Type:
	header field
Target	Conformance to Original Message MIME section header
Predicate	The value of 'Content-Disposition' field of the Original Message MIME section header, is
	"attachment"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_07	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Disposition
	The value for this field shall be: "attachment"
	'filename' parameter value shall match the value of the 'name' parameter of the Content-Type:
	header field
Target	Conformance to Original Message MIME section header
Predicate	The value of the parameter 'filename' of 'Content-Disposition' field of the Original Message
	MIME section header matches the value of the 'name' parameter of the Content-Type: header
	field
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_08	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Disposition
	Presence Mandatory
Target	Conformance to Original Message MIME section header
Predicate	The 'Content-Disposition' field of the Original Message MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_09	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	Content-Description
	Presence Optional
Target	Conformance to Original Message MIME section header
Predicate	The 'Content-Description' field of the Original Message MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_10	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_10
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	REM-Section-Type
	The value of this field should be "rem_message/original"
Target	Conformance to Original Message MIME section header
Predicate	The value of 'REM-Section-Type' field of the Original Message MIME section header, is
	"rem_message/original"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Original Message MIME Header

REMS/HEADER/ORMESS/FIELD/TA_11	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_11
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4
	REM-Section-Type
	Presence Optional
Target	Conformance to Original Message MIME section header
Predicate	The REM-Section-Type' field of the Original Message MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Original Message MIME Header

	REMS/HEADER/ORMESS/FIELD/TA_12	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_12	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4	
	Changes in headers of the original message	
	The REMS may modify some header fields of the original message, only if the change is limited	
	to what is strictly necessary for the good working of the REM exchange of information	
Target	Conformance to Original Message MIME section header	
Prerequisite	The good working of the REM exchange of information requires modification of some headers of	
	the original message	
Predicate	The changes are done in the required headers of the original message	
Prescription level	Optional	
Tag	Conformance, REMS, REMSP, Original Message MIME Header	

	REMS/HEADER/ORMESS/FIELD/TA_13	
TA Id	REMS/HEADER/ORMESS/FIELD/TA_13	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.4	
	Changes in headers of the original message	
	Furthermore, any necessary change shall be clearly indicated to the sender (e.g. in the	
	evidence) and to the recipient (e.g. in the evidence and/or in the introduction message defined in	
	clause 6.2.3.4 of ETSI EN 319 532-3 [1]	
Target	Conformance to Original Message MIME section header	
Prerequisite	The good working of the REM exchange of information required modification of some headers of	
	the original message and the modifications were done	
Predicate	The changes are clearly indicated to the sender and to the recipient	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, Original Message MIME Header	

## 5.6 Test assertions for fields in REMS extension MIME section header

REMS/HEADER/EXT/FIELD/TA_01	
TA Id	REMS/HEADER/EXT/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5 Content-Type The value for this header field should be either "application/xml" or application/octet-stream:  • 'name' parameter value should be " <rem_extension_name>"  • 'charset' parameter value should be "UTF-8" in case of xml attachments</rem_extension_name>
Target	Conformance to Extension MIME section header
Predicate	The value of 'Content-Type' field of the Extension MIME section header is either "application/xml" or "application/octet-stream"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Extension MIME header

	REMS/HEADER/EXT/FIELD/TA_02
TA Id	REMS/HEADER/EXT/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Type
	The value for this header field should be either "application/xml" or application/octet-stream:
	<ul> <li>'name' parameter value should be "<rem_extension_name>"</rem_extension_name></li> </ul>
	<ul> <li>'charset' parameter value should be "UTF-8" in case of xml attachments</li> </ul>
Target	Conformance to Extension MIME section header
Prerequisite	The extension contains structured metadata or evidence component
Predicate	The value of parameter 'name' of 'Content-Type' field of the Extension MIME section header is
	based on the component name identifying the related metadata or evidence component in
	Table 5 or Table 6 of ETSI EN 319 522-2 [8]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_03	
TA Id	REMS/HEADER/EXT/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Type
	The value for this header field should be either "application/xml" or application/octet-stream:
	<ul> <li>'name' parameter value should be "<rem_extension_name>"</rem_extension_name></li> </ul>
	<ul> <li>'charset' parameter value should be "UTF-8" in case of xml attachments</li> </ul>
Target	Conformance to Extension MIME section header
Prerequisite	The extension is a XML attachment
Predicate	The value of parameter 'charset' of 'Content-Type' field of Extension MIME section header is
	"UTF-8"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_04	
TA Id	REMS/HEADER/EXT/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Type
	Presence Mandatory
Target	Conformance to Extension MIME section header
Predicate	The 'Content-Type' field of the Extension MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_05	
TA Id	REMS/HEADER/EXT/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Transfer-Encoding
	The value of this header field shall be either "quoted-printable", "base64" or "binary"
Target	Conformance to Extension MIME section header
Predicate	The value of 'Content-Transfer-Encoding' field of the Extension MIME section header is either
	"quoted-printable", "base64" or "binary"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Extension MIME header

	REMS/HEADER/EXT/FIELD/TA_06	
TA Id	REMS/HEADER/EXT/FIELD/TA_06	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5	
	Content-Transfer-Encoding	
	Presence Mandatory	
Target	Conformance to Extension MIME section header	
Predicate	The 'Content-Transfer-Encoding' field of the Extension MIME section header is present	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, Extension MIME header	

REMS/HEADER/EXT/FIELD/TA_07	
TA Id	REMS/HEADER/EXT/FIELD/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Disposition
	The value of this header field shall be "attachment":
	<ul> <li>'filename' parameter value shall match the value of the 'name' parameter of the</li> </ul>
	Content-Type header field
Target	Conformance to Extension MIME section header
Predicate	The value of 'Content-Disposition' field of the Extension MIME section header is "attachment"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Extension MIME header

	REMS/HEADER/EXT/FIELD/TA_08	
TA Id	REMS/HEADER/EXT/FIELD/TA_08	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5	
	Content-Disposition	
	The value of this header field shall be "attachment":	
	'filename' parameter value shall match the value of the 'name' parameter of the	
	Content-Type header field	
Target	Conformance to Extension MIME section header	
Predicate	The value of parameter 'filename' of 'Content-Disposition' field of the Extension MIME section	
	header matches the value of the 'name' parameter of the 'Content-Type' header field	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, Extension MIME header	

REMS/HEADER/EXT/FIELD/TA_09	
TA Id	REMS/HEADER/EXT/FIELD/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Disposition
	Presence Mandatory
Target	Conformance to Extension MIME section header
Predicate	The 'Content-Disposition' field of the Extension MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_10	
TA ld	REMS/HEADER/EXT/FIELD/TA_10
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	Content-Description Content Co
	Presence Optional
Target	Conformance to Extension MIME section header
Predicate	The 'Content-Description' field of the Extension MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_11	
TA Id	REMS/HEADER/EXT/FIELD/TA_11
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	REM-Section-Type
	The value of this field should be "rem_message/extension"
Target	Conformance to Extension MIME section header
Predicate	The value of 'REM-Section-Type' field of the Extension MIME section header is
	"rem_message/extension"
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_12	
TA Id	REMS/HEADER/EXT/FIELD/TA_12
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	REM-Section-Type
	Presence Optional
Target	Conformance to Extension MIME section header
Predicate	The 'REM-Section-Type' field of the Extension MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_13	
TA Id	REMS/HEADER/EXT/FIELD/TA_13
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	REM-Extension-Code
	The value of this field should be, in accordance with the type of the attachment, a unique code
	identifying the type of extension in order to allow automatic processing
Target	Conformance to Extension MIME section header
Predicate	The value of 'REM-Extension-Code' field of the Extension MIME section header is a unique code
	identifying the type of extension, which identifies the related metadata or evidence component in
	Table 5 or Table 6 of ETSI EN 319 522-2 [8]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, Extension MIME header

REMS/HEADER/EXT/FIELD/TA_14	
TA Id	REMS/HEADER/EXT/FIELD/TA_14
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	REM-Extension-Code
	Presence Optional
Target	Conformance to Extension MIME section header
Predicate	The 'REM-Extension-Code' field of the Extension MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Extension MIME header

	REMS/HEADER/EXT/FIELD/TA_15	
TA Id	REMS/HEADER/EXT/FIELD/TA_15	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5 REM-Extension-Namespace-URI The value of this field should contain the namespace URI relevant to the extension [] extensions may also contain structured metadata or evidence components. In these cases: [] REM-Extension-Namespace-URI: should contain the target name space URI for the structured component	
Target	Conformance to Extension MIME section header	
Predicate	The value of 'REM-Extension-Namespace-URI' field of the Extension MIME section header is a URI whose value contains the URI of the target namespace for the structured component	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, Extension MIME header	

REMS/HEADER/EXT/FIELD/TA_16	
TA Id	REMS/HEADER/EXT/FIELD/TA_16
Normative source	ETSI EN 319 532-3 [1], clause 6.2.5
	REM-Extension-Namespace-URI
	Presence Optional
Target	Conformance to Extension MIME section header
Predicate	The 'REM-Extension-Namespace-URI' field of the Extension MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, Extension MIME header

## 5.7 Test assertions for fields in ERDS evidence MIME section header

## 5.7.1 Test assertions for ERDS evidence MIME section header with XML ERDS evidence

	REMS/HEADER/EVID/XML/FIELD/TA_01	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_01	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2	
	Content-Type	
	The value for this header field shall be "application/xml":	
	'name' parameter value shall be " <rem_evidence_name>.xml"</rem_evidence_name>	
	'charset' parameter value shall be "UTF-8"	
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence	
Predicate	The value of 'Content-Type' field of the ERDS Evidence MIME section header is	
	"application/xml"	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS	
_	Evidence	

	REMS/HEADER/EVID/XML/FIELD/TA_02	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_02	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2	
	Content-Type	
	The value for this header field shall be "application/xml"	
	<ul><li>'name' parameter value shall be "<rem_evidence_name>.xml":</rem_evidence_name></li></ul>	
	<ul> <li>'charset' parameter value shall be "UTF-8"</li> </ul>	
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence	
Predicate	The value of parameter 'name' of 'Content-Type' field of the ERDS Evidence MIME section	
	header is " <rem_evidence_name>.xml", where <rem_evidence_name> is the identifier</rem_evidence_name></rem_evidence_name>	
	of the event that has triggered the issuance of the ERDS evidence within the ERDS Evidence	
	MIME section	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS	
	Evidence	

	REMS/HEADER/EVID/XML/FIELD/TA_03
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Type
	The value for this header field shall be "application/xml":
	<ul><li>'name' parameter value shall be "<rem_evidence_name>.xml"</rem_evidence_name></li></ul>
	<ul> <li>'charset' parameter value shall be "UTF-8"</li> </ul>
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The value of parameter 'charset' of 'Content-Type' field of ERDS Evidence MIME section header is "UTF-8"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

REMS/HEADER/EVID/XML/FIELD/TA_04	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Type
	Presence Mandatory
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The 'Content-Type' field of the ERDS Evidence MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

REMS/HEADER/EVID/XML/FIELD/TA_05	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Transfer-Encoding
	The value of this header field shall be either "quoted-printable", "base64" or "binary"
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The value of 'Content-Transfer-Encoding' field of ERDS Evidence MIME section header is either
	"quoted-printable", "base64" or "binary"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

REMS/HEADER/EVID/XML/FIELD/TA_06	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Transfer-Encoding
	Presence Mandatory
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The 'Content-Transfer-Encoding' field of the ERDS Evidence MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

	REMS/HEADER/EVID/XML/FIELD/TA_07	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_07	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2	
	Content-Disposition	
	The value of this header field shall be "attachment"	
	<ul> <li>'filename' parameter value shall match the value of the 'name' parameter of the Content-Type: header field</li> </ul>	
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS Evidence	

REMS/HEADER/EVID/XML/FIELD/TA_08	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Disposition
	The value of this header field shall be "attachment":
	<ul> <li>'filename' parameter value shall match the value of the 'name' parameter of the</li> </ul>
	Content-Type: header field
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The value of 'filename' parameter of 'Content-Disposition' field of the ERDS Evidence MIME
	section header matches the value of the 'name' parameter of the 'Content-Type' header field
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

REMS/HEADER/EVID/XML/FIELD/TA_09	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Disposition
	Presence Mandatory
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The 'Content-Disposition' field of the ERDS Evidence MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

REMS/HEADER/EVID/XML/FIELD/TA_10	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_10
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	Content-Description
	Presence Optional
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The 'Content-Description' field of the ERDS Evidence MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

	REMS/HEADER/EVID/XML/FIELD/TA_11	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_11	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2	
	REM-Section-Type	
	The value of this field should be "rem_message/xml_evidence"	
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence	
Predicate	The value of the 'REM-Section-Type' field of the ERDS Evidence MIME section header is	
	"rem_message/xml_evidence"	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS	
	Evidence	

REMS/HEADER/EVID/XML/FIELD/TA_12	
TA Id	REMS/HEADER/EVID/XML/FIELD/TA_12
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.2
	REM-Section-Type
	Presence Optional
Target	Conformance to ERDS Evidence MIME section header enclosing XML ERDS Evidence
Predicate	The 'REM-Section-Type' field of the ERDS Evidence MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, XML ERDS
	Evidence

## 5.7.2 Test assertions for ERDS evidence MIME section header with PDF ERDS evidence

REMS/HEADER/EVID/PDF/FIELD/TA_01	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	Content-Type
	The value for this header field shall be "application/pdf":
	<ul> <li>'name' parameter value shall be "<rem evidence_name="">.pdf"</rem></li> </ul>
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The value of 'Content-Type' field of the ERDS Evidence MIME section header is "application/pdf"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS
	Evidence

REMS/HEADER/EVID/PDF/FIELD/TA_02	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	Content-Type
	The value for this header field shall be "application/pdf":
	<ul> <li>'name' parameter value shall be "<rem evidence_name="">.pdf"</rem></li> </ul>
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The value of parameter 'name' of 'Content-Type' field of the ERDS Evidence MIME section header is " <rem evidence_name="">.pdf", where <rem_evidence_name> is the identifier of the event that has triggered the issuance of the ERDS evidence within the ERDS Evidence MIME section</rem_evidence_name></rem>
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS Evidence

REMS/HEADER/EVID/PDF/FIELD/TA_03	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	Content-Type
	Presence Mandatory
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The of 'Content-Type' field of the ERDS Evidence MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS
	Evidence

	REMS/HEADER/EVID/PDF/FIELD/TA_04	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_04	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3	
	Content-Transfer-Encoding	
	The value of this header field shall be "base64" or "binary"	
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence	
Predicate	The value of 'Content-Transfer-Encoding' field of ERDS Evidence MIME section header is either	
Dragarintian laval	"base64" or "binary"  Mandatory	
Prescription level		
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS	
	Evidence	

REMS/HEADER/EVID/PDF/FIELD/TA_05	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	Content-Transfer-Encoding
	Presence Mandatory
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The 'Content-Transfer-Encoding' field of the ERDS Evidence MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS
	Evidence

REMS/HEADER/EVID/PDF/FIELD/TA_06	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	Content-Disposition
	The value of this header field shall be "attachment":
	<ul> <li>'filename' parameter value shall match the value of the 'name' parameter of the</li> </ul>
	Content-Type: header field
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The value of 'Content-Disposition' field of ERDS Evidence MIME section header is "attachment"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS
	Evidence

	REMS/HEADER/EVID/PDF/FIELD/TA_07	
TA ld	REMS/HEADER/EVID/PDF/FIELD/TA_07	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3	
	Content-Disposition	
	The value of this header field shall be "attachment":	
	'filename' parameter value shall match the value of the 'name' parameter of the	
	Content-Type: header field	
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence	
Predicate	The value of 'filename' parameter of 'Content-Disposition' field of the ERDS Evidence MIME	
	section header matches the value of the 'name' parameter of the 'Content-Type' header field	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS	
	Evidence	

	REMS/HEADER/EVID/PDF/FIELD/TA_08	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_08	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3	
	Content-Disposition	
	Presence Mandatory	
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence	
Predicate	The 'Content-Disposition' field of the ERDS Evidence MIME section header is present	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS	
_	Evidence	

REMS/HEADER/EVID/PDF/FIELD/TA_09	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	Content-Description
	Presence Optional
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The 'Content-Description' field of the ERDS Evidence MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS
	Evidence

	REMS/HEADER/EVID/PDF/FIELD/TA_10	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_10	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3	
	REM-Section-Type	
	The value of this field should be "rem_message/pdf_evidence"	
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence	
Predicate	The value of the 'REM-Section-Type' field of the ERDS Evidence MIME section header is	
	"rem_message/pdf_evidence"	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS	
	Evidence	

REMS/HEADER/EVID/PDF/FIELD/TA_11	
TA Id	REMS/HEADER/EVID/PDF/FIELD/TA_11
Normative source	ETSI EN 319 532-3 [1], clause 6.2.6.3
	REM-Section-Type
	Presence Optional
Target	Conformance to ERDS Evidence MIME section header enclosing PDF ERDS Evidence
Predicate	The 'REM-Section-Type' field of the ERDS Evidence MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, ERDS Evidence MIME header, ERDS Evidence, PDF ERDS
_	Evidence

# 5.8 Test assertions for fields in REMS signature MIME section header

REMS/HEADER/REMSSIG/FIELD/TA_01	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Type: presence mandatory
Target	Conformance to REMS signature MIME section header
Predicate	The 'Content-Type' field of the REMS signature MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

	REMS/HEADER/REMSSIG/FIELD/TA_02	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_02	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7	
	Content-Type	
	The value for this header field shall be: "application/pkcs7-signature; name=smime.p7s":	
	The parameter 'name' should be present, indicating "SignedData", as defined above	
Target	Conformance to REMS signature MIME section header	
Predicate	The value of 'Content-Type' field of the REMS signature MIME section header is	
	"application/pkcs7-signature; name=smime.p7s"	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section	

REMS/HEADER/REMSSIG/FIELD/TA_03	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Type
	The value for this header field shall be: "application/pkcs7-signature; name=smime.p7s":
	The parameter 'name' should be present, indicating "SignedData", as defined above
Target	Conformance to REMS signature MIME section header
Predicate	The parameter 'name' of 'Content-Type' field of the REMS signature MIME section header is
	present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

REMS/HEADER/REMSSIG/FIELD/TA_04	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Type
	The value for this header field shall be: "application/pkcs7-signature; name=smime.p7s":
	The parameter 'name' should be present, indicating "SignedData", as defined above
Target	Conformance to REMS signature MIME section header
Predicate	The value of parameter 'name' of 'Content-Type' field of the REMS signature MIME section
	header is "smime.p7s"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

	REMS/HEADER/REMSSIG/FIELD/TA_05
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Transfer-Encoding
	The value for this header field shall be: "base64"
Target	Conformance to REMS signature MIME section header enclosing PDF ERDS Evidence
Predicate	The value of 'Content-Transfer-Encoding' field of REMS signature MIME section header is
	"base64"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

REMS/HEADER/REMSSIG/FIELD/TA_06	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Transfer-Encoding
	Presence Recommended
Target	Conformance to REMS signature MIME section header
Predicate	The 'Content-Transfer-Encoding' field of the REMS signature MIME section header is present
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

REMS/HEADER/REMSSIG/FIELD/TA_07	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Disposition
	The value for this header field shall be: "attachment":
	<ul> <li>'filename' parameter value should be "smime.p7s"</li> </ul>
Target	Conformance to REMS signature MIME section header
Predicate	The value of 'Content-Disposition' field of REMS signature MIME section header is "attachment"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

	REMS/HEADER/REMSSIG/FIELD/TA_08	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_08	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7	
	Content-Disposition	
	The value for this header field shall be: "attachment":	
	<ul> <li>'filename' parameter value should be "smime.p7s"</li> </ul>	
Target	Conformance to REMS signature MIME section header	
Predicate	The value of 'filename' parameter of 'Content-Disposition' field of the REMS signature MIME	
	section header is "smime.p7s"	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section	

REMS/HEADER/REMSSIG/FIELD/TA_09	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Disposition
	Presence Mandatory
Target	Conformance to REMS signature MIME section header
Predicate	The 'Content-Disposition' field of the REMS signature MIME section header is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

REMS/HEADER/REMSSIG/FIELD/TA_10	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_10
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Description
	The value for this header field may be: "S/MIME Cryptographic Signature"
Target	Conformance to REMS signature MIME section header
Predicate	The value of 'Content-Description' field of the REMS signature MIME section header is "S/MIME
	Cryptographic Signature"
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

REMS/HEADER/REMSSIG/FIELD/TA_11	
TA Id	REMS/HEADER/REMSSIG/FIELD/TA_11
Normative source	ETSI EN 319 532-3 [1], clause 6.2.7
	Content-Description Content Co
	Presence Optional
Target	Conformance to REMS signature MIME section header
Predicate	The 'Content-Description' field of the REMS signature MIME section header is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REMS signature, REMS signature MIME section

#### 6 Test assertions for MIME sections bodies

#### 6.1 Introduction

This clause defines test assertions on the bodies of some of the MIME sections within REM messages, derived from requirements on these MIME section bodies specified by ETSI EN 319 532-3 [1].

#### 6.2 Test assertions for Introduction MIME section body

This clause defines test assertions for the body of the Introduction MIME section as specified in clause 6.2.3.4 of ETSI EN 319 532-3 [1].

	REMS/BODY/INTRO/CONTENT/TA_01	
TA Id	REMS/BODY/INTRO/CONTEN/TA_01	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.4	
	Introduction MIME section body	
	If both sections are present their contents shall be an alternative and equivalent version of the	
	same information in both plain text and HTML formats	
Target	Conformance to Introduction MIME section body	
Prerequisite	Free Text and HTML MIME sections are present and HTML MIME section body contains a URL	
Predicate	The body of the Free Text MIME section contains the URL present in the body of the HTML	
	MIME section	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, Introduction MIME section body	

REMS/BODY/INTRO/CONTENT/TA_02	
TA Id	REMS/BODY/INTRO/CONTEN/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.4
	Introduction MIME section body
	The body of HTML text shall not contain active code
Target	Conformance to Introduction MIME section body
Predicate	The body of the HTML MIME section does not contain active code
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, Introduction MIME section body

	REMS/BODY/INTRO/CONTENT/TA_03	
TA Id	REMS/BODY/INTRO/CONTEN/TA_03	
Normative source	ETSI EN 319 532-3 [1], clause 6.2.3.4 Introduction MIME section body If it contains some URL, the printed part (that is the Hypertext visible to the user) shall be the same as the hidden part (that is the real location where the web browser is redirected clicking on it)	
Target	Conformance to Introduction MIME section body	
Prerequisite	The HTML MIME section body contains a URL	
Predicate	The printed part of the URL is the same as the hidden part	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, Introduction MIME section body	

## 7 Test assertions for REM messages structures

#### 7.1 Introduction

This clause defines test assertions for testing presence and cardinality of the different MIME headers and bodies for each type of REM message.

## 7.2 Test assertions for REM payload structure

REMS/MSSG/STRUCT/REMPAYLOAD/TA_01	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	One conformant outermost MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_02	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	One conformant signed data MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_03	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	One non-empty conformant Introduction MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_04	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	One non-empty conformant free-text MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_05	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	One non-empty conformant HTML MIME sub-section is present within the Introduction MIME section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_06	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	One non-empty Original message MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_07	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	1 or more non-empty Extension MIME sections are present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REM payload

REMS/MSSG/STRUCT/REMPAYLOAD/TA_08	
TA Id	REMS/MSSG/STRUCT/REMPAYLOAD/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 4
Target	Conformance to REM payload structure
Predicate	1 REMS signature MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM payload

#### 7.3 Test assertions for REMS notification structure

REMS/MSSG/STRUCT/REMNOT/TA_01	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	One conformant outermost MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_02	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	One conformant signed data MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_03	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	One non-empty conformant Introduction MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_04	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	One non-empty conformant free-text MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_05	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	One non-empty conformant HTML MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_06	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	1 or more non-empty Extension MIME sections are present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_07	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	1 or more non-empty ERDS Evidence MIME sections are present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REM notification

REMS/MSSG/STRUCT/REMNOT/TA_08	
TA Id	REMS/MSSG/STRUCT/REMNOT/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 3
Target	Conformance to REM notification structure
Predicate	1 REMS signature MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM notification

## 7.4 Test assertions for REMS receipt structure

REMS/MSSG/STRUCT/REMRECEIPT/TA_01	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	One conformant outermost MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_02	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	One conformant signed data MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_03	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	One non-empty conformant Introduction MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_04	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	One non-empty conformant free-text MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_05	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	One non-empty conformant HTML MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_06	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	1 or more non-empty Extension MIME sections are present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_07	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	1 or more non-empty ERDS Evidence MIME sections are present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

REMS/MSSG/STRUCT/REMRECEIPT/TA_08	
TA Id	REMS/MSSG/STRUCT/REMRECEIPT/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 2
Target	Conformance to REM receipt structure
Predicate	1 REMS signature MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM receipt

## 7.5 Test assertions for REM dispatch structure

REMS/MSSG/STRUCT/REMDISPATCH/TA_01	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	One conformant outermost MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_02	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	One conformant signed data MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_03	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	One non-empty conformant Introduction MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_04	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	One non-empty conformant free-text MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_05	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	One non-empty conformant HTML MIME sub-section is present within the Introduction MIME
	section
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_06	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	One non-empty Original message MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_07	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	1 or more non-empty Extension MIME sections are present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_08	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	1 or more non-empty ERDS Evidence MIME sections are present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

REMS/MSSG/STRUCT/REMDISPATCH/TA_09	
TA Id	REMS/MSSG/STRUCT/REMDISPATCH/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 4.3 and Figure 1
Target	Conformance to REM dispatch structure
Predicate	1 REMS signature MIME section is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM dispatch

## 8 Test assertions for REMS signatures formats

#### 8.1 Introduction

This clause defines test assertions for testing:

- 1) Signatures that individually sign ERDS evidence (clause 8.2); and
- 2) Signatures that sign REM messages (clause 8.3).

## 8.2 Test assertions for signatures individually signing ERDS evidence

REMS/ERDSEVIDSIG/TA_01	
TA Id	REMS/ERDSEVIDSIG/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 8.1
	The algorithms and key lengths used to generate digital signatures should be as specified in ETSI TS 119 312 [i.2]
Target	Conformance to signatures individually signing ERDS evidence
Predicate	The algorithms and key lengths used to generate the digital signature is as specified in ETSI TS 119 312 [i.2]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, ERDS evidence, signature

REMS/ERDSEVIDSIG/TA_02	
TA Id	REMS/ERDSEVIDSIG/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 8.1
	Within a REM message the following digital signatures shall apply:
	<ul> <li>Signatures generated by a REMS or by the delegated entity on each ERDS evidence individually</li> </ul>
Target	Conformance to signatures individually signing ERDS evidence
Predicate	The digital signature is generated by the REMS
Prescription level	Optional
Tag	Conformance, REMS, REMSP, ERDS evidence, signature

REMS/ERDSEVIDSIG/TA_03	
TA Id	REMS/ERDSEVIDSIG/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 8.1
	Within a REM message the following digital signatures shall apply:
	<ul> <li>Signatures generated by a REMS or by the delegated entity on each ERDS evidence individually</li> </ul>
Target	Conformance to signatures individually signing ERDS evidence
Predicate	The digital signature is generated by an entity the REMS has delegated on
Prescription level	Optional
Tag	Conformance, REMS, REMSP, ERDS evidence, signature

REMS/ERDSEVIDSIG/TA_04	
TA Id	REMS/ERDSEVIDSIG/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 8.2
	Signatures individually signing ERDS evidence shall comply with ETSI EN 319 522-2 [8],
	clause 7.2 and ETSI EN 319 522-3 [9], clause 5.2.2.28
Target	Conformance to signatures individually signing ERDS evidence
Prerequisite	The ERDS evidence format is XML
Predicate	The digital signature is a XAdES signature compliant with ETSI EN 319 522-2 [8], clause 7.2 and
	with ETSI EN 319 522-3 [9], clause 5.2.2.28
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, ERDS evidence, signature

REMS/ERDSEVIDSIG/TA_05	
TA Id	REMS/ERDSEVIDSIG/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 8.2
	In addition, in case PDF evidence format is used, the evidence should be protected by PAdES
	digital signatures as defined in ETSI EN 319 142-1 [i.5]
Target	Conformance to signatures individually signing ERDS evidence
Prerequisite	The ERDS evidence format is PDF
Predicate	The digital signature is a PAdES signature compliant with ETSI EN 319 142-1 [i.5]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, ERDS evidence, signature

## 8.3 Test assertions for signatures signing REM messages

REMS/REMMESSSIG/TA_01	
TA Id	REMS/REMMESSSIG/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 8.1
	The algorithms and key lengths used to generate digital signatures should be as specified in ETSI TS 119 312 [i.2]
Target	Conformance to REM Message signature
Predicate	The algorithms and key lengths used to generate the digital signature is as specified in ETSI TS 119 312 [i.2]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REM Message signature

REMS/REMMESSSIG/TA_02	
TA Id	REMS/REMMESSSIG/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 8.3
	The signature shall be applied to the message using S/MIME multipart/signed as defined in
	IETF RFC 5751 [3]. This signature shall protect all the MIME parts that constitute a REM
	message
Target	Conformance to REM Message signature
Predicate	The signature is applied to the message using S/MIME multipart/signed as defined in IETF
	RFC 5751 [3]
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM Message signature

	REMS/REMMESSSIG/TA_03	
TA Id	REMS/REMMESSSIG/TA_03	
Normative source	ETSI EN 319 532-3 [1], clause 8.3	
	The signature shall be applied to the message using S/MIME multipart/signed as defined in	
	IETF RFC 5751 [3]. This signature shall protect all the MIME parts that constitute a REM	
	message	
Target	Conformance to REM Message signature	
Predicate	The signature protects all the MIME parts that constitute a REM message	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, REM Message signature	

	REMS/REMMESSSIG/TA_04	
TA Id	REMS/REMMESSSIG/TA_04	
Normative source	ETSI EN 319 532-3 [1], clause 8.3	
	The digital signature should be a CAdES signature according to the semantics specified in ETSI	
	EN 319 522-2 [8], clause 8.2.9	
Target	Conformance to REM Message signature	
Predicate	The signature is a CAdES signature according to the semantics specified in ETSI	
	EN 319 522-2 [8], clause 8.2.9	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REM Message signature	

REMS/REMMESSSIG/TA_05	
TA Id	REMS/REMMESSSIG/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 8.3
	This digital signature should be a CAdES baseline signature as specified in ETSI
	EN 319 122-1 [i.6]
Target	Conformance to REM Message signature
Predicate	The signature is a CAdES baseline signature as specified in ETSI EN 319 122-1 [i.6]
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, REM Message signature

REMS/REMMESSSIG/TA_06	
TA Id	REMS/REMMESSSIG/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 8.3
	This digital signature may include the signed attribute signature-policy-identifier,
	containing the explicit identifier of the signature policy governing the signing and validating
	processes
Target	Conformance to REM Message signature
Predicate	The signature includes the signed attribute signature-policy-identifier, containing the
	explicit identifier of the signature policy governing the signing and validating processes
Prescription level	Optional
Tag	Conformance, REMS, REMSP, REM Message signature

	REMS/REMMESSSIG/TA_07	
TA Id	REMS/REMMESSSIG/TA_07	
Normative source	ETSI EN 319 532-3 [1], clause 8.3  Once the CAdES-B-B baseline signature has been generated, it should be augmented to a CAdES-B-T baseline signature by incorporation into the digital signature of the unsigned attribute signature-time-stamp, containing a time-stamp token computed as specified in ETSI EN 319 122-1 [i.6]	
Target	Conformance to REM Message signature	
Predicate	Once generated the signature is augmented to a CAdES-B-T baseline signature by incorporation into the digital signature of the unsigned attribute signature-time-stamp	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, REM Message signature	

REMS/REMMESSSIG/TA_08	
TA Id	REMS/REMMESSSIG/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 8.3
	The signing certificate of this digital signature shall meet the requirements specified in in ETSI
	EN 319 522-2 [8], clause 9.3
Target	Conformance to REM Message signature
Predicate	The signing certificate of this digital signature meets the requirements specified in ETSI
	EN 319 522-2 [8], clause 9.3
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, REM Message signature

### 9 Test assertions for Common Service Interface

#### 9.1 Introduction

This clause defines test assertions for testing conformance against the specifications in ETSI EN 319 532-3 [1] on the Common Service Interface.

## 9.2 Test assertions for routing information

	REMS/CSI/ROUTING/TA_01	
TA Id	REMS/CSI/ROUTING/TA_01	
Normative source	ETSI EN 319 532-3 [1], clause 9.2	
	The REM RI (Relay Interface) should be identified by a transport protocol, a hostname and a	
	port number	
Target	Conformance to CSI Routing information	
Predicate	The REM RI (Relay Interface) is identified by a transport protocol, a hostname and a port	
	number	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, CSI, routing information	

REMS/CSI/ROUTING/TA_02	
TA Id	REMS/CSI/ROUTING/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 9.2
	Other techniques may be used either according to clause 6.1 of ETSI EN 319 522-3 [9], peer-to-peer agreements between REMSPs or based on the best practices recommended in annex A of ETSI EN 319 532-4 [i.1]
Target	Conformance to CSI Routing information
Predicate	The REM RI (Relay Interface) is identified by other techniques according to clause 6.1 of ETSI EN 319 522-3 [9], peer-to-peer agreements between REMSPs or based on the best practices recommended in Annex A of ETSI EN 319 532-4 [i.1]
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, routing information

### 9.3 Test assertions for trust information binding

If the information on REMS and REMSPs are published using Trusted Lists, the test assertions defined below shall apply to the contents of the Trusted Lists listing REM services.

REMS/CSI/TRUST/TA_01	
TA Id	REMS/CSI/TRUST/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	If Trusted List (TL) is used to publish trust information about a REMS, then the section
	describing a REM service shall be populated in conformance to ETSI TS 119 612 [10]
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The information of the REMS appears in a trust service provider service section of the Trusted
	List in conformance to ETSI TS 119 612 [10]
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_02	
TA Id	REMS/CSI/TRUST/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	Presence of service type identifier (as per clause 5.5.1 of ETSI TS 119 612 [10]) is Mandatory
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service type identifier (as per clause 5.5.1 of ETSI TS 119 612 [10]) is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_03	
TA Id	REMS/CSI/TRUST/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	This element (service type identifier) shall be one of the following:
	<ul> <li>http://uri.etsi.org/TrstSvc/Svctype/EDS/REM</li> </ul>
	<ul> <li>http://uri.etsi.org/TrstSvc/Svctype/EDS/REM/Q</li> </ul>
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS and the REMS is not Qualified
Predicate	The value of the service type identifier is "http://uri.etsi.org/TrstSvc/Svctype/EDS/REM"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_04	
TA Id	REMS/CSI/TRUST/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	This element (service type identifier) shall be one of the following:
	http://uri.etsi.org/TrstSvc/Svctype/EDS/REM
	<ul> <li>http://uri.etsi.org/TrstSvc/Svctype/EDS/REM/Q</li> </ul>
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS and the REMS is Qualified
Predicate	The value of the service type identifier is "http://uri.etsi.org/TrstSvc/Svctype/EDS/REM/Q"
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_05	
TA Id	REMS/CSI/TRUST/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	Presence of service digital identity (as per clause 5.5.3 of ETSI TS 119 612 [10]) is Mandatory
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service digital identity (as per clause 5.5.3 of ETSI TS 119 612 [10]) is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

	REMS/CSI/TRUST/TA_06
TA Id	REMS/CSI/TRUST/TA_06
Normative source	ETSI EN 319 532-3 [1], clause 9.3  This element shall contain an X.509 certificate, which shall be one of the following:  • A single certificate used by the REMS for digital signing of all REM messages and ERDS evidence
	A single CA certificate that is used solely for the purpose of issuing certificates to components of the REMS for digital signing of REM messages and/or ERDS evidence  This element may contain optionally the corresponding X509SKI element
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service digital identity contains either the single certificate used by the REMS for digital signing of all REM messages and ERDS evidence or a single CA certificate that is used solely for the purpose of issuing certificates to components of the REMS for digital signing of REM messages and/or ERDS evidence
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_07	
TA Id	REMS/CSI/TRUST/TA_07
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	This element shall contain an X.509 certificate, which shall be one of the following:
	<ul> <li>A single certificate used by the REMS for digital signing of all REM messages and ERDS evidence</li> </ul>
	A single CA certificate that is used solely for the purpose of issuing certificates to components of the REMS for digital signing of REM messages and/or ERDS evidence    Component
	This element may contain optionally the corresponding X509SKI element
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service digital identity contains the X509SKI element including the
	subjectKeyIdentifier field of the X509 certificate present in the service digital identity
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_08	
TA Id	REMS/CSI/TRUST/TA_08
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	Presence of service supply point (as per clause 5.5.7 of ETSI TS 119 612 [10]) is Mandatory
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service supply point (as per clause 5.5.7 of ETSI TS 119 612 [10]) is present
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_09	
TA Id	REMS/CSI/TRUST/TA_09
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	This element should provide one or more URIs to access the REM RI (Relay Interface) defined
	in clause 5 of ETSI EN 319 532-1 [2]
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service supply point contains one or more URIs to access the REM Relay Interface
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_10	
TA Id	REMS/CSI/TRUST/TA_10
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	If the Relay Interface is provided using SMT then this URI should be an smtp: URI
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS and the REM Relay Interface
	is provided using SMTP (IETF RFC 5321 [i.8])
Predicate	The URI values within the service supply point element are smtp URIs
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_11	
TA Id	REMS/CSI/TRUST/TA_11
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	Presence of TSP service definition URI (as per clause 5.5.8 of ETSI TS 119 612 [10]) is Optional
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The TSP service definition URI (as per clause 5.5.8 of ETSI TS 119 612 [10]) is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_12	
TA Id	REMS/CSI/TRUST/TA_12
Normative source	ETSI EN 319 532-3 [1], clause 9.3 Presence of service information extensions (as per clause 5.5.9 of ETSI TS 119 612 [10]) is
	Optional
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS
Predicate	The service information extensions element (as per clause 5.5.9 of ETSI TS 119 612 [10]) is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/TRUST/TA_13	
TA Id	REMS/CSI/TRUST/TA_13
Normative source	ETSI EN 319 532-3 [1], clause 9.3
	If present, extensions shall not be set as critical
Target	Conformance to CSI Trust information
Prerequisite	Trusted Lists are used to publish trust information about a REMS and Service information extensions (as per clause 5.5.9 of ETSI TS 119 612 [10]) are present
Predicate	Every service information extension element (as per clause 5.5.9 of ETSI TS 119 612 [10]) is not set to critical
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

## 9.4 Test assertions for capability management

REMS/CSI/CAPMNG/TA_01	
TA Id	REMS/CSI/CAPMNG/TA_01
Normative source	ETSI EN 319 532-3 [1], clause 9.4
	If the REMS uses TL to publish trust information about itself, the REMS capability metadata may
	also be published using the TL, as indicated for ERDS capability metadata in clause 7.2 of ETSI
	EN 319 522-4-3 [i.7]
Target	Conformance to CSI Capability information
Prerequisite	Trusted Lists are used to publish capability management information about a REMS
Predicate	The information of the REMS appears in a trust service provider service section of the Trusted
	List in conformance to ETSI TS 119 612 [10]
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/CAPMNG/TA_02	
TA Id	REMS/CSI/CAPMNG/TA_02
Normative source	ETSI EN 319 532-3 [1], clause 9.4
	The presence of TSP service definition URI (as per clause 5.5.8 of ETSI TS 119 612 [10]) is
	optional
Target	Conformance to CSI Capability information
Prerequisite	Trusted Lists are used to publish capability management information about a REMS
Predicate	The TSP service definition URI (as per clause 5.5.8 of ETSI TS 119 612 [10]) is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/CAPMNG/TA_03	
TA Id	REMS/CSI/CAPMNG/TA_03
Normative source	ETSI EN 319 532-3 [1], clause 9.4
	this element (TSP service definition URI) may contain a URI, where the REMS capability
	metadata is downloadable
Target	Conformance to CSI Capability information
Prerequisite	Trusted Lists are used to publish capability management information about a REMS
Predicate	The value of the TSP service definition URI (as per clause 5.5.8 of ETSI TS 119 612 [10])
	contains an URI where the REMS capability metadata is downloadable from
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/CAPMNG/TA_04	
TA Id	REMS/CSI/CAPMNG/TA_04
Normative source	ETSI EN 319 532-3 [1], clause 9.4
	The presence of service information extensions (as per clause 5.5.9 of ETSI TS 119 612 [10]) is
	optional
Target	Conformance to CSI Capability information
Prerequisite	Trusted Lists are used to publish capability management information about a REMS
Predicate	The service information extensions (as per clause 5.5.9 of ETSI TS 119 612 [10]) is present
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

REMS/CSI/CAPMNG/TA_05	
TA Id	REMS/CSI/CAPMNG/TA_05
Normative source	ETSI EN 319 532-3 [1], clause 9.4
	If present, the additionalServiceInformation field, as per clause 5.5.9.4 of ETSI TS 119 612 [10] may contain a URI, where the REMS capability metadata is downloadable, or alternatively, it may embed the REMS capability metadata structure itself (if it is in XML format)
Target	Conformance to CSI Capability information
Prerequisite	Trusted Lists are used to publish capability management information about a REMS
Predicate	The value of additionalServiceInformation is either an URI where the REMS capability metadata is downloadable from, or the REMS capability metadata itself as XML structured data
Prescription level	Optional
Tag	Conformance, REMS, REMSP, CSI, trust information, Trusted List

# 10 Test assertions for ERDS evidence structure and content

Test assertions specified in ETSI TS 119 524-1 [7], clause 6 shall apply.

## 11 Test assertions for provision of the service

#### 11.1 Introduction

This clause contains test assertions directly related with the provision of the service itself, namely:

- 1) The generation of ERDS evidence in response to the occurrence of an event.
- 2) The provision of security features, like confidentiality.

## 11.2 Test assertions on generation of ERDS evidence in response to events

REMS/SERV_PROV/ERDSEVGEN/TA_01	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_01
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of SubmissionAcceptance ERDS evidence following the acceptance of the user
	content sent by sender is mandatory
Target	Conformance to generation of ERDS evidence following acceptance of user content
Prerequisite	Sender has submitted the user content to the S-REMS and it has accepted submission
Predicate	The S-REMS issues a compliant SubmissionAcceptance ERDS evidence
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_02	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_02
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of SubmissionRejection ERDS evidence following the rejection of the user content
	sent by sender is mandatory
Target	Conformance to generation of ERDS evidence following rejection of user content
Prerequisite	Sender has submitted the user content to the S-REMS and it has rejected submission
Predicate	The S-REMS issues a compliant SubmissionRejection ERDS evidence identifying the reason for
	rejection
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_03	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_03
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of RelayAcceptance ERDS evidence following the acceptance of the relaying of a
	REM message requested by another REMS is Mandatory
Target	Conformance to generation of ERDS evidence following acceptance of relaying
Prerequisite	The REMS has accepted a REM message containing user content as relayed by another REMS
Predicate	The REMS issues a compliant RelayAcceptance ERDS evidence
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_04	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_04
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of RelayRejection ERDS evidence following the rejection of the relaying of a REM
	message requested by another REMS is Mandatory
Target	Conformance to generation of ERDS evidence following rejection of relaying
Prerequisite	The REMS has rejected that another REMS relays a REM message containing user content
Predicate	The REMS issues a compliant RelayRejection ERDS evidence identifying the reason for
	rejection
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_05	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_05
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of RelayFailure ERDS evidence following failure of the relaying of a REM message
	is Mandatory
Target	Conformance to generation of ERDS evidence following failure of relaying
Prerequisite	The relaying REMS has tried to relay a REM message to another REMS and it has failed
Predicate	The relaying REMS issues a compliant RelayFailure ERDS evidence
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_06	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_06
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of ContentConsignment ERDS evidence following the successful consignment of the
	user content
Target	Conformance to generation of ERDS evidence following successful consignment of the user
	content
Prerequisite	The REMS has successfully consigned the user content
Predicate	The REMS issues a compliant ContentConsignment ERDS evidence
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_07	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_07
Normative source	ETSI EN 319 532-3 [1]
	Generation of ContentConsignmentFailure ERDS evidence following the unsuccessful consignment of the user content
Target	Conformance to generation of ERDS evidence following unsuccessful consignment of the user content
Prerequisite	The REMS has failed in consigning the user content
Predicate	The REMS issues a compliant ContentConsignmentFailure ERDS evidence
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

	REMS/SERV_PROV/ERDSEVGEN/TA_08	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_08	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of ContentHandover ERDS evidence following the successful handing over of the	
	user content is conditional	
Target	Conformance to generation of ERDS evidence following successful handing of the user content	
Prerequisite	The REMS has successfully handed over the user content and did not consign it	
Predicate	The REMS issues a compliant ContentHandover ERDS evidence	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

REMS/SERV_PROV/ERDSEVGEN/TA_09	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_09
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of ContentHandover ERDS evidence following the successful handing over of the
	user content is conditional
Target	Conformance to generation of ERDS evidence following successful handing of the user content
Prerequisite	The REMS has successfully handed over the user content and also did consign it
Predicate	The REMS issues a compliant ContentHandover ERDS evidence
Prescription level	Optional
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

	REMS/SERV_PROV/ERDSEVGEN/TA_10	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_10	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of ContentHandoverFailure ERDS evidence following the unsuccessful handing over	
	of the user content is conditional	
Target	Conformance to generation of ERDS evidence following unsuccessful handing over of the user	
	content	
Prerequisite	The REMS has failed in handing over the user content and REMS did not try to consign it	
Predicate	The REMS issues a compliant ContentHandoverFailure ERDS evidence	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

	REMS/SERV_PROV/ERDSEVGEN/TA_11	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_11	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of ContentHandoverFailure ERDS evidence following the unsuccessful handing over	
	of the user content is conditional	
Target	Conformance to generation of ERDS evidence following unsuccessful handing over of the user	
	content	
Prerequisite	The REMS has failed in handing over the user content and REMS did try to consign it	
Predicate	The REMS issues a compliant ContentHandoverFailure ERDS evidence	
Prescription level	Optional	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

REMS/SERV_PROV/ERDSEVGEN/TA_12	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_12
Normative source	ETSI EN 319 532-3 [1]
	Generation of NotificationForAcceptance ERDS evidence following the successful issuance of a
	notification for acceptance is recommended
Target	Conformance to generation of ERDS evidence following successful issuance of a notification for
	acceptance
Prerequisite	The R-REMS has successfully sent a notification for acceptance to a recipient subscribed to the
	REMS
Predicate	The R-REMS issues a compliant NotificationForAcceptance ERDS evidence
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_13	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_13
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of NotificationForAcceptanceFailure ERDS evidence following the unsuccessful
	issuance of a notification for acceptance is recommended
Target	Conformance to generation of ERDS evidence following unsuccessful issuance of a notification
	for acceptance
Prerequisite	The R-REMS has failed in sending a notification for acceptance to a recipient subscribed to the
	REMS
Predicate	The R-REMS issues a compliant NotificationForAcceptanceFailure ERDS evidence
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

	REMS/SERV_PROV/ERDSEVGEN/TA_14	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_14	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of ConsignmentAcceptance ERDS evidence following consignment acceptance by the recipient is recommended	
Target	Conformance to generation of ERDS evidence following consignment acceptance by the recipient	
Prerequisite	The REMS handles the user content in S&N style and the recipient has accepted consignment	
Predicate	The REMS issues a compliant ConsignmentAcceptance ERDS evidence	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

	REMS/SERV_PROV/ERDSEVGEN/TA_15	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_15	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of ConsignmentRejection ERDS evidence following consignment rejection by the	
	recipient is recommended	
Target	Conformance to generation of ERDS evidence following consignment rejection by the recipient	
Prerequisite	The REMS handles the user content in S&N style and the recipient has rejected consignment	
Predicate	The REMS issues a compliant ConsignmentRejection ERDS evidence	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

	REMS/SERV_PROV/ERDSEVGEN/TA_16	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_16	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of AcceptancetRejectionExpiry ERDS evidence following the expiration of the time	
	for reacting to a notification for acceptance without any reaction, is recommended	
Target	Conformance to generation of ERDS evidence following expiration of the time for reacting to a	
	notification for acceptance without any reaction by the recipient	
Prerequisite	The REMS handles the user content in S&N style and the recipient has not reacted to a	
	notification for acceptance before the expiration time assigned to that notification	
Predicate	The REMS issues a compliant AcceptancetRejectionExpiry ERDS evidence	
Prescription level	Mandatory	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

REMS/SERV_PROV/ERDSEVGEN/TA_17	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_17
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of ConsignmentNotification ERDS evidence following the successful submission of a
	notification of consignment, is optional
Target	Conformance to generation of ERDS evidence following successful submission of a notification
	for consignment
Prerequisite	The REMS has successfully submitted a notification of consignment
Predicate	The REMS issues a compliant ConsignmentNotification ERDS evidence
Prescription level	Optional
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_18	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_18
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of ConsignmentNotificationFailure ERDS evidence following failure in the submission
	of a notification of consignment, is optional
Target	Conformance to generation of ERDS evidence following unsuccessful submission of a
	notification for consignment
Prerequisite	The REMS has failed in submitting a notification of consignment
Predicate	The REMS issues a compliant ConsignmentNotificationFailure ERDS evidence
Prescription level	Optional
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_19	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_19
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of RelayToNonERDS ERDS evidence following successful relaying of the user
	content to a non ERDS system, is recommended
Target	Conformance to generation of ERDS evidence following successful relaying of the user content
	to a non ERDS system
Prerequisite	The REMS has relayed the user content to a non ERDS system
Predicate	The REMS issues a compliant RelayToNonERDS ERDS evidence
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_20	
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_20
Normative source	ETSI EN 319 522-1 [5], clause 6.1
	Generation of RelayToNonERDSFailure ERDS evidence following unsuccessful relaying of the
	user content to a non ERDS system, is recommended
Target	Conformance to generation of ERDS evidence following unsuccessful relaying of the user
	content to a non ERDS system
Prerequisite	The REMS has failed in relaying the user content to a non ERDS system
Predicate	The REMS issues a compliant RelayToNonERDSFailure ERDS evidence
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence

REMS/SERV_PROV/ERDSEVGEN/TA_21		
TA Id	REMS/SERV_PROV/ERDSEVGEN/TA_21	
Normative source	ETSI EN 319 522-1 [5], clause 6.1	
	Generation of ReceivedFromNonERDS ERDS evidence following reception of a message	
	coming from a non ERDS system, is recommended	
Target	Conformance to generation of ERDS evidence following reception of a message coming from a	
	non ERDS system	
Prerequisite	The REMS has received a message from a non ERDS system	
Predicate	The REMS issues a compliant ReceivedFromNonERDS ERDS evidence	
Prescription level	Recommended	
Tag	Conformance, REMS, REMSP, service provision, ERDS evidence	

#### 11.3 Test assertions on REM interfaces

#### 11.3.1 Introduction

This clause defines test assertions on REM interfaces. Clause 11.3.2 defines test assertions for testing security measures implemented in REM interfaces. Clause 11.3.3 defines test assertions for testing the provision of the REM interfaces.

#### 11.3.2 Security measures on REM interfaces

The test assertions defined in ETSI TS 119 524-1 [7] clause 11.3.2, replacing ERDS by REMS, shall apply except the following ones:

- ERDS/SERV\_PROV/INTFACE/SEC\_MEAS/TA\_03, ERDS/SERV\_PROV/INTFACE/SEC\_MEAS/TA\_07, and ERDS/SERV\_PROV/INTFACE/SEC\_MEAS/TA\_11, because they deal with ERD-UA MEPI, which, as stated in clause 5 of ETSI EN 319 532-1 [2], is an interface not defined for REMS.
- ERDS/SERV\_PROV/INTFACE/SEC\_MEAS/TA\_02, ERDS/SERV\_PROV/INTFACE/SEC\_MEAS/TA\_06, and ERDS/SERV\_PROV/INTFACE/SEC\_MEAS/TA\_10, because they deal with ERDS MERI interface, which as stated in clause 5 of ETSI EN 319 532-1 [2], is split in two in REMS, namely:
- REM MRI; and
- REM ERI.

In addition, the following test assertions shall also apply, for REM MRI and REM ERI interfaces.

REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_01	
TA Id	REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_01
Normative source	ETSI EN 319 532-1 [2], clause 5
	This interface (MRI: Message Retrieval Interface) shall require identification and authentication
Target	Conformance to security requirements in interfaces
Predicate	The REMS ensures authentication for interactions through the Message Retrieval Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_02	
TA Id	REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_02
Normative source	ETSI EN 319 532-1 [2], clause 5
	This interface (ERI: Evidence Retrieval Interface) shall require identification and authentication
Target	Conformance to security requirements in interfaces
Predicate	The REMS ensures authentication for interactions through the Evidence Retrieval Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_03	
TA Id	REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_03
Normative source	ETSI EN 319 532-1 [2], clause 5
	This interface (MRI: Message Retrieval Interface) shall implement confidentiality () preserving
	measures
Target	Conformance to security requirements in interfaces
Predicate	The REMS implements measures for preserving confidentiality through the Message Retrieval
	Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_04	
TA ld	REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_04
Normative source	ETSI EN 319 532-1 [2], clause 5
	This interface (ERI: Evidence Retrieval Interface) shall implement confidentiality () preserving
	measures
Target	Conformance to security requirements in interfaces
Predicate	The REMS implements measures for preserving confidentiality through the Evidence Retrieval
	Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_05	
TA Id	REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_05
Normative source	ETSI EN 319 532-1 [2], clause 5
	This interface (MRI: Message Retrieval Interface) shall implement () integrity preserving
	measures
Target	Conformance to security requirements in interfaces
Predicate	The REMS implements measures for preserving integrity through the Message Retrieval
	Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_06	
TA Id	REMS/SERV_PROV/INTFACE/SEC_MEAS/TA_06
Normative source	ETSI EN 319 532-1 [2], clause 5
	This interface (ERI: Evidence Retrieval Interface) shall implement () integrity preserving
	measures
Target	Conformance to security requirements in interfaces
Predicate	The REMS implements measures for preserving integrity through the Evidence Retrieval
	Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

#### 11.3.3 Test assertions on provision of REM interfaces

The test assertions defined in ETSI TS 119 524-1 [7] clause 11.3.3, replacing ERDS by REMS, shall apply, except the following one:

- ERDS/SERV\_PROV/INTFACE/PROV/TA\_02, because this test assertion deals with ERD-UA MEPI, which, as stated in clause 5 of ETSI EN 319 532-1 [2], is an interface not defined for REMS, and the ERDS MERI interface, which in ETSI EN 319 532-1 [2] is split in two, namely:
- REM MRI; and
- REM ERI.

In addition, the following test assertions shall also apply.

REMS/SERV_PROV/INTFACE/PROV/TA_01	
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_01
Normative source	ETSI EN 319 532-1 [2], clause 5
	The REM MSI should be provided using SMTP over TLS
Target	Conformance to provision of REM interfaces
Predicate	The REMS provides the REM MSI interface using SMTP see IETF RFC 5321 [i.8] over TLS in
	IETF RFC 5246 [i.9])
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, service provision, REM interfaces

REMS/SERV_PROV/INTFACE/PROV/TA_02	
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_02
Normative source	ETSI EN 319 532-1 [2], clause 5
	Other protocols may be used only if they create a secure channel providing confidentiality,
	integrity and authenticity of data sent through the channel
Target	Conformance to provision of REM interfaces
Predicate	The REMS provides the REM MSI interface using protocols different than SMTP over TLS
Prescription level	Optional
Tag	Conformance, REMS, REMSP, service provision, REM interfaces

REMS/SERV_PROV/INTFACE/PROV/TA_03	
TA ld	REMS/SERV_PROV/INTFACE/PROV/TA_03
Normative source	ETSI EN 319 532-1 [2], clause 5
	The REM MRI shall be provided
Target	Conformance to provision of REM interfaces
Predicate	The REMS provides the REM MRI interface
Prescription level	Mandatory
Tag	Conformance, REMS, REMSP, service provision, REM interfaces

REMS/SERV_PROV/INTFACE/PROV/TA_04	
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_04
Normative source	ETSI EN 319 532-1 [2], clause 5
	The REM MRI should be provided using IMAP over TLS or POP3 over TLS
Target	Conformance to provision of REM interfaces
Predicate	The REMS provides the REM MRI interface using IMAP (IETF RFC 3501 [i.10]) over TLS (IETF
	RFC 5246 [i.9]) or POP3 over TLS
Prescription level	Recommended
Tag	Conformance, REMS, REMSP, service provision, REM interfaces

REMS/SERV_PROV/INTFACE/PROV/TA_05				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_05			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	Other protocols may be used only if they create a secure channel providing confidentiality,			
	integrity and authenticity of data sent through the channel			
Target	Conformance to provision of REM interfaces			
Predicate	The REMS provides the REM MRI interface using protocols different than IMAP over TLS and			
	POP3 over TLS			
Prescription level	Optional			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_06				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_06			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	The REM ERI shall be provided			
Target	Conformance to provision of REM interfaces			
Predicate	The REMS provides the REM ERI interface			
Prescription level	Mandatory			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_07				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_07			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	The REM ERI may use the same channel as the REM MRI, but may also use separate channels			
Target	Conformance to provision of REM interfaces			
Predicate	The REM ERI interface uses the same channel as the REM MRI			
Prescription level	Optional			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_08				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_08			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	The REM ERI may use the same channel as the REM MRI, but may also use separate channels			
Target	Conformance to provision of REM interfaces			
Predicate	The REM ERI interface uses a different channel than the channel used by REM MRI			
Prescription level	Optional			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_9				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_9			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	A REMS may provide more than one REM RI			
Target	Conformance to security requirements in interfaces			
Predicate	The REMS provides more than one REM RI interfaces			
Prescription level	Optional			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_10				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_10			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	The REM RI should be provided using SMTP over TLS			
Target	Conformance to security requirements in interfaces			
Predicate	The REMS provides the REM RI interface using SMTP over TLS			
Prescription level	Recommended			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_11				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_11			
Normative source	ETSI EN 319 532-1 [2], clause 5 for REM RI provision			
	Other protocols may be used only if they create a secure channel providing confidentiality,			
	integrity and authenticity of data sent through the channel (e.g. TLS)			
Target	Conformance to provision of REM interfaces			
Predicate	The REMS provides the REM RI interface using protocols different than SMTP over TLS			
Prescription level	Optional			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_12				
TA ld	REMS/SERV_PROV/INTFACE/PROV/TA_12			
Normative source	ETSI EN 319 532-1 [2], clause 5 for REM RI provision			
	Implementation of this interface should follow the requirements defined in clause 5 of ETSI			
	EN 319 532-4 [i.1]			
Target	Conformance to provision of REM interfaces			
Predicate	The REMS implements the REM RI interface following the requirements defined in clause 5 of			
	ETSI EN 319 532-4 [i.1]			
Prescription level	Recommended			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

REMS/SERV_PROV/INTFACE/PROV/TA_13				
TA Id	REMS/SERV_PROV/INTFACE/PROV/TA_13			
Normative source	ETSI EN 319 532-1 [2], clause 5			
	The REM ARI (Acceptance/Rejection Interface) shall be provided when the REMS operates in			
	S&N style			
Target	Conformance to provision of REM interfaces			
Prerequisite	The REMS operates in Store and Notify style			
Predicate	The REMS provides the REM ARI			
Prescription level	Mandatory			
Tag	Conformance, REMS, REMSP, service provision, REM interfaces			

## History

Document history			
V1.1.1	February 2019	Publication	