



**Electronic Signatures and Infrastructures (ESI);
Testing Conformance and Interoperability of
Electronic Registered Delivery 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 Testing Conformance and Interoperability of Electronic Registered Delivery Services, as identified below:

Part 1: "Testing conformance";

Part 2: "Test suites for interoperability testing of Electronic Registered Delivery Service Providers".

Modal verbs terminology

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

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1 Scope

The present document defines the set of checks to be performed for testing conformance in the provision of Electronic Registered Delivery Services against the specific technical requirements defined in ETSI EN 319 522-3 [3], ETSI EN 319 522-4-1 [4] and ETSI EN 319 522-4-2 [5].

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

- 1) The structure and contents of ERDS evidence as defined in ETSI EN 319 522-3 [3] (clause 6).
- 2) The structure and contents of new metadata defined in ETSI EN 319 522-3 [3] (clause 7).
- 3) The construction of AS4 ERDS messages (clause 8).
- 4) The generation of digital signatures in ERDS messages and ERDS evidence (clause 9).
- 5) Some aspects of the Common Service Interface (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 319 522-1 [1] (clause 11).

The present document does not define test assertions for testing conformance in the provision of Electronic Registered Delivery Services against technical requirements defined outside of any of the parts of ETSI EN 319 522 [1] to [6], namely, requirements for: AS4 [15], Business Document Metadata Service Location Version 1.0 (BDXL) [17], Service Metadata Publishing (SMP) Version 1.0 (SMP) [18] and digital signatures that are defined in their respective specifications.

2 References

2.1 Normative references

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

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

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

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

- [1] [ETSI EN 319 522-1](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 1: Framework and Architecture".
- [2] [ETSI EN 319 522-2](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 2: Semantic contents".
- [3] [ETSI EN 319 522-3](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 3: Formats".
- [4] [ETSI EN 319 522-4-1](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 1: Message delivery bindings".
- [5] [ETSI EN 319 522-4-2](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 2: Evidence and identification bindings".
- [6] [ETSI EN 319 522-4-3](#): "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 3: Capability/requirements bindings".
- [7] OASIS Standard: "[Test Assertions Model Version 1.0](#)".

- [8] CEF eIDAS Technical Sub-group (Version 1.2 - October 2019): "[eIDAS SAML Attribute profile](#)".
- [9] [ETSI TS 119 134-4](#): "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures - Testing Conformance and Interoperability; Part 4: Testing Conformance of XAdES baseline signatures".
- [10] [ETSI EN 319 132-1](#): "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures; Part 1: Building blocks and XAdES baseline signatures".
- [11] W3C® Recommendation 11 April 2013: "[XML Signature Syntax and Processing Version 1.1](#)".
- [12] [IETF RFC 5035](#): "Enhanced Security Services (ESS) Update: Adding CertID Algorithm Agility".
- [13] W3C® Recommendation 28 October 2004: "[XML Schema Part 2: Datatypes Second Edition](#)".
- [14] [ETSI TS 119 134-5](#): "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures - Testing Conformance and Interoperability; Part 5: Testing Conformance of extended XAdES signatures".
- [15] OASIS Standard (January 2013): "[AS4 Profile of ebMS 3.0 Version 1.0](#)".
- [16] [ETSI TS 119 312](#): "Electronic Signatures and Infrastructures (ESI); Cryptographic Suites".
- [17] OASIS Standard (August 2017): "[Business Document Metadata Service Location Version 1.0](#)".
- [18] OASIS Standard (August 2017): "[Service Metadata Publishing \(SMP\) Version 1.0](#)".
- [19] [IETF RFC 3061](#) (February 2001): "A URN Namespace of Object Identifiers".

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] OASIS Standard: "Web Services Security X.509 Certificate Token Profile 1.1. OASIS Standard incorporating Approved Errata", 1 November 2006.
- [i.2] ETSI EN 319 122-1: "Electronic Signatures and Infrastructures (ESI); CAdES digital signatures; Part 1: Building blocks and CAdES baseline signatures".
- [i.3] ETSI EN 319 142-1: "Electronic Signatures and Infrastructures (ESI); PAdES digital signatures; Part 1: Building blocks and PAdES baseline signatures".
- [i.4] [Regulation \(EU\) No 910/2014](#) of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC.
- [i.5] ETSI TS 119 612: "Electronic Signatures and Infrastructures (ESI); Trusted Lists".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI EN 319 522-3 [3] apply.

3.2 Symbols

Void.

3.3 Abbreviations

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

AS4	Applicability Statement 4
BDXL	Business Document Metadata Service Location
CA	Certification Authority
CSI	Common Service Interface
DNS	Domain Name Service
ERD	Electronic Registered Delivery
ERDS	Electronic Registered Delivery Service
ERDSP	Electronic Registered Delivery Service Provider
EU	European Union
HTTP	Hypertext Transfer Protocol
IETF	Internet Engineering Task Force
MEPI	Message and Evidence Push Interface
MERI	Message and Evidence Retrieval Interface
MSI	Message Submission Interface
NID	Namespace Identifier
NSS	Namespace Specific String
OASIS	Organization for the Advancement of Structured Information Standards
QERDS	Qualified Electronic Registered Delivery Service
RFC	Request for Comments
RI	Relay Interface
SAML	Security Assertion Markup Language
S-ERDS	Sender's ERDS
SMP	Service Metadata Publishing
SOAP	Simple Object Access Protocol
TA	Test Assertion
UA	User Agent
URI	Uniform Resource Identifier
URL	Universal Resource Locator
URN	Universal Resource Name
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 to ERDS evidence and metadata defined in ETSI EN 319 522-3 [3].

In order to test conformance against the aforementioned specification, several types of tests are identified, namely:

- 1) Tests on the contents that are directly derived from the XML Schema referenced and copied in ETSI EN 319 522-3 [3].
- 2) Tests on the contents that are not directly derived from the XML Schema referenced and copied in ETSI EN 319 522-3 [3] and that in consequence may not be tested by a XML Schema validator tool.
- 3) Tests on values of specific elements and/or attributes that cannot be tested by a XML Schema validator tool.
- 4) Tests on interrelationship between different components.

Tests are defined as test assertions following the work produced by OASIS in "Test Assertions Model Version 1.0" [7].

For each component of the ERDS evidence and AS4 metadata defined in in ETSI EN 319 522-3 [3] the present document defines a number of test assertions corresponding to the requirements specified in the aforementioned specification.

ETSI EN 319 522-3 [3] defines requirements for ERDS evidence formats and also for AS4 metadata components. For the purpose of identifying the whole set of test assertions required for testing conformance against ETSI EN 319 522-3 [3], the present document classifies the whole set of requirements specified in ETSI EN 319 522-3 [3] in the following groups.

Each test assertion includes:

- 1) Unique identifier for further referencing. The identifiers of the assertions start with a 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 ENs 319 522 [1] to [6].
- 4) **Prerequisite (optional)** is, according to [7] "a logical expression (similar to a Predicate) which further qualifies the Target for undergoing the core test (expressed by the Predicate) that addresses the Normative Statement". It is used for building test assertions corresponding to requirements that are imposed under certain conditions.
- 5) **Predicate** fully and unambiguously defining the assertion to be tested by tools claiming conformance to the present document.
- 6) **Prescription level:** three levels are defined: mandatory, preferred and permitted, whose semantics is to be interpreted as described in clause 3.1.2 of [7].
- 7) **Tag:** If assigned to test assertions it allows their categorization and grouping.

Table 1 shows the prefixes used to refer to specific elements in the ERDS Evidence and AS4 metadata components associated to the URIs of the corresponding namespaces.

Table 1: Prefixes used

Namespace's URI	Namespace's prefix
http://uri.etsi.org/19522/v1#	erds (or none)
http://www.w3.org/2001/XMLSchema	xs
http://www.w3.org/2000/09/xmldsig#	ds
urn:oasis:names:tc:SAML:2.0:assertion	saml

5 Test assertions for components that are used in metadata and in ERDS evidence

5.1 Introduction

The next clauses define the set of test assertions for testing conformance of components that appear in both ERDS Evidence and XML metadata against ETSI EN 319 522-3 [3].

For each component, the two first test assertions are the ones is one that mandate to check that the inner structure of this element matches with the content model for that element in the XML Schema, i.e.:

- 1) that it contains only the children that are allowed, and that their order and cardinalities are correct; and
- 2) that it contains only the permitted attributes.

Within the predicates for testing the inner structure of an XML element in terms of its children, the present document uses the following principles:

- 1) The order in listing the names of the children elements shall correspond with the order these children shall appear within the content of the checked element.
- 2) The description of the content model in terms of children elements uses the following special characters:
 - Children elements groups may be defined enclosing their names between round brackets ().
 - || indicate logical exclusive OR.
 - & indicates logical AND.
 - ! indicates logical NOT.
- 3) The cardinalities of each child element shall be indicated as follows:
 - Absence of indication indicates that the child element shall appear once at that position.
 - ? indicates that the child element/group of children elements may have 0 or 1 occurrences at that position.
 - * indicates that the child element/group of children elements may have 0, 1, or more than 1 occurrences at that position.
 - + indicates that the child element/group of children elements may have 1, or more than 1 occurrences at that position.

EXAMPLE 1: The third test assertion (the one with code ERDS/EVIDENCE/EVENT_REASONS/TA_03) in clause 6.5 defines the following predicate for testing the XML children of the `EventReason` element as follows: "The content of `EventReason` element child of `EventReasons` element: `Code Details?`". This means that it has to be checked that:

- 1) there are 1 or 2 children;
- 2) that the first child element is always `Code`; and
- 3) that if there is a second element it has to be the `Details` child element.

EXAMPLE 2: The second test assertion (the one with code ERDS/EVIDENCE/ROOT/TA_02) in clause 6.2 defines the following predicate for testing the attributes that do not declare namespaces within the `Evidence` element: "The set of attributes (leaving apart the attributes declaring namespaces) of the `Evidence` XML element, is as follows: `version Id?`". This means that it has to be checked that:

- 1) there are 1 or 2 attributes (leaving apart the ones that declare namespaces);
- 2) that `version` attribute is present; and
- 3) that if there is another attribute it has to be the `Id` attribute.

5.2 Test assertions for instances auxiliary types

5.2.1 Introduction

Clause 5.2 defines test assertions for the following auxiliary types that are used in both ERDS evidence and in ERDS metadata:

- `NonEmptyURIType, NonEmptyAttributedURIType;`
- `NonEmptyMultiLangURIType NonEmptyStringType;`
- `NonEmptyMultiLangURILISType;` and

- `AttributedNonEmptyStringType`.

5.2.2 Test assertions for instances of `NonEmptyURIType` type

ERDS/NON_EMPTY_URI/TA_01	
TA Id	ERDS/NON_EMPTY_URI/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyURIType</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_URI/TA_02	
TA Id	ERDS/NON_EMPTY_URI/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyURIType</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_URI/TA_03	
TA Id	ERDS/NON_EMPTY_URI/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyURIType</code> type is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_URI/TA_04	
TA Id	ERDS/NON_EMPTY_URI/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyURIType</code> type is not an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.2.3 Test assertions for instances of `NonEmptyAttributedURIType` type

ERDS/NON_EMPTY_ATTR_URI/TA_01	
TA Id	ERDS/NON_EMPTY_ATTR_URI/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyAttributedURIType</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_ATTR_URI/TA_02	
TA Id	ERDS/NON_EMPTY_ATTR_URI/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of Instances of <code>NonEmptyAttributedURIType</code> type, is as follows: <code>xml:lang</code> scheme?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_ATTR_URI/TA_03	
TA Id	ERDS/NON_EMPTY_ATTR_URI/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyAttributedURIType</code> type is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_ATTR_URI/TA_04	
TA Id	ERDS/NON_EMPTY_ATTR_URI/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyAttributedURIType</code> type is not an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.2.4 Test assertions for instances of `NonEmptyMultiLangURIType` type

ERDS/NON_EMPTY_MULT_LANG_URI/TA_01	
TA Id	ERDS/NON_EMPTY_MULT_LANG_URI/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyMultiLangURIType</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_MULT_LANG_URI/TA_02	
TA Id	ERDS/NON_EMPTY_MULT_LANG_URI/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of instances of <code>NonEmptyMultiLangURIType</code> type, is as follows: <code>xml:lang</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_MULT_LANG_URI/TA_03	
TA Id	ERDS/NON_EMPTY_MULT_LANG_URI/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyMultiLangURIType</code> type is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_MULT_LANG_URI/TA_04	
TA Id	ERDS/NON_EMPTY_MULT_LANG_URI/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyMultiLangURIType</code> type is not an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.2.5 Test assertions for instances of `NonEmptyMultiLangURIListType` type

ERDS/NON_EMPTY_MUL_TLANG_URI_LIST/TA_01	
TA Id	ERDS/NON_EMPTY_MULT_LANG_URI_LIST/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	The content of instances of <code>NonEmptyMultiLangURIListType</code> type, in terms of XML children element is as follows: <code>URI+</code> Instances of type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_MUL_TLANG_URI_LIST/TA_02	
TA Id	ERDS/NON_EMPTY_MULT_LANG_URI_LIST/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.2
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyMultiLangURIListType</code> type, do not have any XML attributes except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

For the `URI` child element of instances of `NonEmptyMultiLangURIListType` type, the test assertions defined in clause 5.2.4 shall apply.

5.2.6 Test assertions for instances of `NonEmptyStringType` type

ERDS/NON_EMPTY_STRING/TA_01	
TA Id	ERDS/NON_EMPTY_STRING/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.3
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyStringType</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_STRING/TA_02	
TA Id	ERDS/NON_EMPTY_STRING/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.3
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>NonEmptyStringType</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/NON_EMPTY_STRING/TA_03	
TA Id	ERDS/NON_EMPTY_STRING/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.3
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>NonEmptyStringType</code> type is not an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.2.7 Test assertions for instances of `AttributedNonEmptyStringType` type

ERDS/ATTR_NON_EMPTY_STRING/TA_01	
TA Id	ERDS/ATTR_NON_EMPTY_STRING/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.3
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>AttributedNonEmptyStringType</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ATTR_NON_EMPTY_STRING/TA_02	
TA Id	ERDS/ATTR_NON_EMPTY_STRING/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.3
Target	Conformance to ERDS Evidence and metadata content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of instances of <code>AttributedNonEmptyStringType</code> type, is as follows: <code>type</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ATTR_NON_EMPTY_STRING/TA_03	
TA Id	ERDS/ATTR_NON_EMPTY_STRING/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.3
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>AttributedNonEmptyStringType</code> type is a non empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.2.8 Test assertions for instances of `xs:boolean` type

ERDS/BOOLEAN_TYPE/TA_01	
TA Id	ERDS/BOOLEAN_TYPE/TA_01
Normative source	W3C Recommendation [13]
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>xs:boolean</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/BOOLEAN_TYPE/TA_02	
TA Id	ERDS/BOOLEAN_TYPE/TA_02
Normative source	W3C Recommendation [13]
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>xs:boolean</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/BOOLEAN_TYPE/TA_03	
TA Id	ERDS/BOOLEAN_TYPE/TA_03
Normative source	W3C Recommendation [13]
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of an instance of <code>xs:boolean</code> type is one of the following: <code>true</code> , <code>false</code> , <code>1</code> or <code>0</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.3 Test assertions for instances of `EntityIdentifierType` type

This clause defines test assertions for instances of `EntityIdentifierType` type. This type has the following instances:

- In ERDS evidences: `Identifier` child element of instances of `UserDetailsType`, and `Identifier` child element of instances of `DelegateDetailsType` type.
- In metadata: `SenderId`, `ReplyTo`, and `RecipientId` children elements of `RelayMetadata` element.

ERDS/ENTITY_IDENTIFIER/TA_01	
TA Id	ERDS/ENTITY_IDENTIFIER/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.10
Target	Conformance to ERDS Evidence and metadata content
Predicate	Instances of <code>EntityIdentifierType</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ENTITY_IDENTIFIER/TA_02	
TA Id	ERDS/ENTITY_IDENTIFIER/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.10
Target	Conformance to ERDS Evidence and metadata content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of instances of <code>EntityIdentifierType</code> type, is as follows: <code>IdentifierSchemeName</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ENTITY_IDENTIFIER/TA_03	
TA Id	ERDS/ENTITY_IDENTIFIER/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.10
Target	Conformance to ERDS Evidence content
Predicate	The value of instances of <code>EntityIdentifierType</code> type is not empty
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.4 Test assertions for instances of `AssuranceLevelDetailsType` type

This clause defines test assertions for instances of `AssuranceLevelDetailsType` type. This type has the following instances:

- In ERDS evidences: `GlobalAssuranceLevel`, `IdentityProofAssuranceLevel`, `AuthenticationAssuranceLevel`, and `FederationAssuranceLevel` children elements of instances of `AssuranceLevelsDetailsType`.

NOTE: ETSI EN 319 522-3 [3] defines two XML types that have very similar names, namely: `AssuranceLevelDetailsType`, and `AssuranceLevelsDetailsType`. Please note the plural in "Levels" within the second one. Instances of the second type include components that are instances of the first one. Instances of the first type contain the details of one assurance level (for authentication for instance). Instances of the second type contain the details of several different assurance levels (the assurance level for authentication, and the assurance level for identity validation, for instance).

- In metadata: `RequiredAssuranceLevel` child element of `RelayMetadata` element.

ERDS/ASSURANCE_LEVEL/TA_01	
TA Id	ERDS/ASSURANCE_LEVEL/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The content of AssuranceLevelDetailsType type, in terms of XML children element is as follows: AssuranceLevel PolicyID? PolicyIDDetails? PolicyIDDetailsResources?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ENTITY_IDENTIFIER/TA_02	
TA Id	ERDS/ENTITY_IDENTIFIER/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The instances of AssuranceLevelDetailsType type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_03	
TA Id	ERDS/ASSURANCE_LEVEL/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The AssuranceLevel child element of instances of AssuranceLevelDetailsType type does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_04	
TA Id	ERDS/ASSURANCE_LEVEL/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The AssuranceLevel child element of instances of AssuranceLevelDetailsType type does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_05	
TA Id	ERDS/ASSURANCE_LEVEL/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of a AssuranceLevel child element of instances of AssuranceLevelDetailsType is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_06	
TA Id	ERDS/ASSURANCE_LEVEL/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The PolicyID child element of instances of AssuranceLevelDetailsType type does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_07	
TA Id	ERDS/ASSURANCE_LEVEL/TA_07
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The <code>PolicyID</code> child element of instances of <code>AssuranceLevelDetailsType</code> type does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_08	
TA Id	ERDS/ASSURANCE_LEVEL/TA_08
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of a <code>PolicyID</code> child element of instances of <code>AssuranceLevelDetailsType</code> is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_09	
TA Id	ERDS/ASSURANCE_LEVEL/TA_09
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The <code>PolicyIDDetails</code> child element of instances of <code>AssuranceLevelDetailsType</code> type does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/ASSURANCE_LEVEL/TA_010	
TA Id	ERDS/ASSURANCE_LEVEL/TA_010
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence and metadata content
Predicate	The <code>PolicyIDDetails</code> child element of instances of <code>AssuranceLevelDetailsType</code> type does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

For `PolicyIDDetailsResources` child element of instances of `AssuranceLevelDetailsType`, the test assertions defined in clause 5.2.5 shall apply.

5.5 Test assertions for instances of `xs:dateTime` type

This clause defines test assertions for testing any component of type `xs:dateTime`.

ERDS/DATE_TIME_TYPE/TA_01	
TA Id	ERDS/DATE_TIME_TYPE/TA_01
Normative source	ETSI EN 319 522-3 [3], any clause where a XML element is defined as being of type <code>xs:dateTime</code> type
Target	Conformance to ERDS Evidence content
Predicate	Instances of <code>xs:dateTime</code> type do not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/DATE_TIME_TYPE/TA_02	
TA Id	ERDS/EVENT_TIME/TA_02
Normative source	ETSI EN 319 522-3 [3], any clause where a XML element is defined as being of type <code>xs:dateTime</code> type
Target	Conformance to ERDS Evidence content
Predicate	Instances of <code>xs:dateTime</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/DATE_TIME_TYPE/TA_03	
TA Id	ERDS/EVENT_TIME/TA_03
Normative source	ETSI EN 319 522-3 [3], any clause where a XML element is defined as being of type <code>xs:dateTime</code> type
Target	Conformance to ERDS Evidence content
Predicate	The value of Instances of <code>xs:dateTime</code> type is a date and time as specified in W3C Recommendation [13]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

5.6 Test assertions for instances of `ERDSPolicyIDType` type

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_01	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_01
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.15 and 5.2.2.9
Target	Conformance to ERDS Evidence content
Predicate	The content of instances <code>ERDSPolicyIDType</code> type, in terms of XML children element is as follows: <code>PolicyID+</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_02	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_02
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.15 and 5.2.2.9
Target	Conformance to ERDS Evidence content
Predicate	Instances of <code>ERDSPolicyIDType</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_03	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.15
Target	Conformance to ERDS Evidence content
Predicate	The <code>PolicyID</code> child of instances of <code>ERDSPolicyIDType</code> type does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_04	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.15
Target	Conformance to ERDS Evidence content
Predicate	The <code>PolicyID</code> child of instances of <code>ERDSPolicyIDType</code> type does not have any XML attributes except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_05	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 4.3.15
Target	Conformance to ERDS Evidence content
Predicate	The value of the <code>PolicyID</code> child of instances of <code>ERDSPolicyIDType</code> type is an URI reference value
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_06	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 4.3.15
Target	Conformance to ERDS Evidence content
Precondition	The scheme of the URI reference value of the <code>PolicyID</code> child of instances of <code>ERDSPolicyIDType</code> type is <code>urn</code>
Predicate	The value of <code>PolicyID</code> child of <code>ERDSPolicyIDType</code> element is an URN
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_07	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_07
Normative source	ETSI EN 319 522-3 [3], clause 4.3.15
Target	Conformance to ERDS Evidence content
Precondition	The value of <code>PolicyID</code> child of instances of <code>ERDSPolicyIDType</code> type is an URN
Predicate	The value of the Namespace Identifier (NID) of this URN is <code>oid</code> .
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_08	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_08
Normative source	ETSI EN 319 522-3 [3], clause 4.3.15
Target	Conformance to ERDS Evidence content
Precondition	The value of <code>PolicyID</code> child of instances of <code>ERDSPolicyIDType</code> type is an URN
Predicate	The value of the Namespace Specific String (NSS) of this URN is as specified in IETF RFC 3061 [19]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6 Common test assertions for ERDS evidence

6.1 Introduction

The next clauses define a set of test assertions that are common for any of the types of ERDS evidence specified in ETSI EN 319 522-3 [3].

The same considerations than the ones detailed in clause 5.1 shall apply in the test assertions defined throughout the whole clause 6.

6.2 Test assertions for Evidence element

6.2.1 XML children of Evidence per type of Evidence

This clause defines test assertions for testing the content, in terms of XML children elements, of the `Evidence` root element depending on the event that has triggered the generation of the ERDS Evidence, i.e. the value of the `ERDSEventId` child element.

ERDS/EVIDENCE/ROOT/TA_01	
TA Id	ERDS/EVIDENCE/ROOT/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.3
Target	Conformance to ERDS Evidence structure
Predicate	The Evidence XML element contains the ERDSEventId child element
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_02	
TA Id	ERDS/EVIDENCE/ROOT/TA_02
Normative source	ETSI EN 319 522-2 [2], clause 8.4, ETSI EN 319 522-3 [3], clause 5.2.2.3
Prerequisite	The value of the ERDSEventId child element is EITHER "http://uri.etsi.org/19522/Event/SubmissionAcceptance" OR "http://uri.etsi.org/19522/Event/SubmissionRejection"
Target	Conformance to ERDS Evidence structure
Predicate	The content of the Evidence XML element, in terms of XML children element is as follows: EvidenceIdentifier ERDSEventId EventReasons? EventTime EvidenceIssuerPolicyID EvidenceIssuerDetails SenderDetails SenderDelegateDetails? RecipientDetails+ SubmissionTime MessageIdentifier UserContentInfo ExternalERSDetails TransactionLogInformation? Extensions? ds:Signature
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_03	
TA Id	ERDS/EVIDENCE/ROOT/TA_03
Normative source	ETSI EN 319 522-2 [2], clause 8.4, ETSI EN 319 522-3 [3], clause 5.2.2.3
Prerequisite	The value of the ERDSEventId child element is EITHER "http://uri.etsi.org/19522/Event/RelayAcceptance" OR "http://uri.etsi.org/19522/Event/RelayRejection" OR "http://uri.etsi.org/19522/Event/RelayFailure"
Target	Conformance to ERDS Evidence structure
Predicate	The content of the Evidence XML element, in terms of XML children element is as follows: EvidenceIdentifier ERDSEventId EventReasons? EventTime EvidenceIssuerPolicyID EvidenceIssuerDetails SenderDetails SenderDelegateDetails? RecipientDetails+ SubmissionTime? MessageIdentifier UserContentInfo ExternalERSDetails TransactionLogInformation? Extensions? ds:Signature
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_04	
TA Id	ERDS/EVIDENCE/ROOT/TA_04
Normative source	ETSI EN 319 522-2 [2], clause 8.4, ETSI EN 319 522-3 [3], clause 5.2.2.5
Prerequisite	The value of the ERDSEventId child element is EITHER "http://uri.etsi.org/19522/Event/NotificationForAcceptance" OR "http://uri.etsi.org/19522/Event/NotificationForAcceptanceFailure" OR "http://uri.etsi.org/19522/Event/ConsignmentAcceptance" OR "http://uri.etsi.org/19522/Event/ConsignmentRejection" OR "http://uri.etsi.org/19522/Event/AcceptanceRejectionExpiry" OR "http://uri.etsi.org/19522/Event/NotificationDelivered" OR "http://uri.etsi.org/19522/Event/ContentConsignment" OR "http://uri.etsi.org/19522/Event/ContentConsignmentFailure" OR "http://uri.etsi.org/19522/Event/NotificationAccessTracking" OR "http://uri.etsi.org/19522/Event/ContentAccessTracking" OR "http://uri.etsi.org/19522/Event/ConsignmentNotification" OR "http://uri.etsi.org/19522/Event/ConsignmentNotificationFailure" OR "http://uri.etsi.org/19522/Event/ContentHandover" OR "http://uri.etsi.org/19522/Event/ContentHandoverFailure"
Target	Conformance to ERDS Evidence structure
Predicate	The content of the Evidence XML element, in terms of XML children element is as follows: EvidenceIdentifier ERDSEventId EventReasons? EventTime EvidenceIssuerPolicyID EvidenceIssuerDetails SenderDetails SenderDelegateDetails? RecipientDetails+ RecipientsDelegateDetails* SubmissionTime? EvidenceRefersToRecipient MessageIdentifier UserContentInfo ExternalSystem? TransactionLogInformation? Extensions? ds:Signature
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_05	
TA Id	ERDS/EVIDENCE/ROOT/TA_05
Normative source	ETSI EN 319 522-2 [2], clause 8.4, ETSI EN 319 522-3 [3], clause 5.2.2.3
Prerequisite	The value of the ERDSEventId child element is EITHER "http://uri.etsi.org/19522/Event/RelayToNonERDS" OR "http://uri.etsi.org/19522/Event/RelayToNonERDSFailure"
Target	Conformance to ERDS Evidence structure
Predicate	The content of the Evidence XML element, in terms of XML children element is as follows: EvidenceIdentifier ERDSEventId EventReasons? EventTime EvidenceIssuerPolicyID EvidenceIssuerDetails SenderDetails SenderDelegateDetails? RecipientDetails+ SubmissionTime? MessageIdentifier UserContentInfo ExternalSystem TransactionLogInformation? Extensions? ds:Signature
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_06	
TA Id	ERDS/EVIDENCE/ROOT/TA_06
Normative source	ETSI EN 319 522-2 [2], clause 8.4, ETSI EN 319 522-3 [3], clause 5.2.2.3
Prerequisite	The value of the ERDSEventId child element is "http://uri.etsi.org/19522/Event/ReceivedFromNonERDS"
Target	Conformance to ERDS Evidence structure
Predicate	The content of the Evidence XML element, in terms of XML children element is as follows: EvidenceIdentifier ERDSEventId EventReasons? EventTime EvidenceIssuerPolicyID EvidenceIssuerDetails SenderDetails? RecipientDetails+ SubmissionTime? MessageIdentifier UserContentInfo ExternalSystem TransactionLogInformation? Extensions? ds:Signature
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_07	
TA Id	ERDS/EVIDENCE/ROOT/TA_07
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.3
Target	Conformance to ERDS Evidence structure
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of the Evidence XML element, is as follows: <code>version Id?</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ROOT/TA_08	
TA Id	ERDS/EVIDENCE/ROOT/TA_08
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.3
Target	Conformance to ERDS Evidence content
Predicate	The value of <code>version</code> attribute of Evidence element is "EN319522v1.1.1"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.3 Test assertions for EvidenceIdentifier element

ERDS/EVIDENCE/EVIDENCE_ID/TA_01	
TA Id	ERDS/EVIDENCE/EVIDENCEID/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.4
Target	Conformance to ERDS Evidence content
Predicate	The EvidenceIdentifier element child of Evidence element does not have any XML child element
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVIDENCE_ID/TA_02	
TA Id	ERDS/EVIDENCE/EVIDENCEID/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.4
Target	Conformance to ERDS Evidence content
Predicate	The EvidenceIdentifier element child of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.4 Test assertions for ERDSEventId element

ERDS/EVIDENCE/EVENT_ID/TA_01	
TA Id	ERDS/EVIDENCE/EVENT_ID/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.5
Target	Conformance to ERDS Evidence content
Predicate	The ERDSEventId element child of Evidence element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_ID/TA_02	
TA Id	ERDS/EVIDENCE/EVENT_ID/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.5
Target	Conformance to ERDS Evidence content
Predicate	The ERDSEventId child element of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_ID/TA_03	
TA Id	ERDS/EVIDENCE/EVENT_ID/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.5
Target	Conformance to ERDS Evidence content
Predicate	The value of ERDSEventId element child of Evidence element is one of the values listed in Table 2, within clause 5.2.2.4 of ETSI EN 319 522-3 [3], i.e. "http://uri.etsi.org/19522/Event/SubmissionAcceptance" "http://uri.etsi.org/19522/Event/SubmissionRejection" "http://uri.etsi.org/19522/Event/RelayAcceptance" "http://uri.etsi.org/19522/Event/RelayRejection" "http://uri.etsi.org/19522/Event/RelayFailure" "http://uri.etsi.org/19522/Event/NotificationForAcceptance" "http://uri.etsi.org/19522/Event/NotificationForAcceptanceFailure" "http://uri.etsi.org/19522/Event/ConsignmentAcceptance" "http://uri.etsi.org/19522/Event/ConsignmentRejection" "http://uri.etsi.org/19522/Event/AcceptanceRejectionExpiry" "http://uri.etsi.org/19522/Event/NotificationDelivered" "http://uri.etsi.org/19522/Event/ContentConsignment" "http://uri.etsi.org/19522/Event/ContentConsignmentFailure" "http://uri.etsi.org/19522/Event/ConsignmentNotification" "http://uri.etsi.org/19522/Event/ConsignmentNotificationFailure" "http://uri.etsi.org/19522/Event/NotificationAccessTracking" "http://uri.etsi.org/19522/Event/ContentAccessTracking" "http://uri.etsi.org/19522/Event/ContentHandover" "http://uri.etsi.org/19522/Event/ContentHandoverFailure" "http://uri.etsi.org/19522/Event/RelayToNonERDS" "http://uri.etsi.org/19522/Event/RelayToNonERDSFailure" "http://uri.etsi.org/19522/Event/ReceivedFromNonERDS"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.5 Test assertions for EventReasons element

ERDS/EVIDENCE/EVENT_REASONS/TA_01	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The content of the EventReasons element child of Evidence element, in terms of XML children element is as follows: EventReason+
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_02	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The EventReasons child element of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_03	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The content of the EventReason child element of EventReasons element, in terms of XML children element is as follows: Code Details?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_04	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The <code>EventReason</code> child element of <code>EventReasons</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_05	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The <code>Code</code> element child of <code>EventReason</code> element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_06	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The <code>Code</code> element child of <code>EventReason</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_07	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_07
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The value of <code>Code</code> element child of <code>EventReason</code> element is one of the values listed in tables 7 to 12, within clause 8.3.3 of ETSI EN 319 522-2 [2]
Prescription level	Recommended
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_08	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_08
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The <code>Details</code> element child of <code>EventReason</code> element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVENT_REASONS/TA_09	
TA Id	ERDS/EVIDENCE/EVENT_REASONS/TA_09
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.7
Target	Conformance to ERDS Evidence content
Predicate	The <code>Details</code> element child of <code>EventReason</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.6 Test assertions for `EventTime` element

The test assertions defined in clause 5.5 shall apply for testing the `EventTime` child element of `Evidence` element.

6.7 Test assertions for EvidenceIssuerPolicyID element

The test assertions defined in clause 5.6 shall apply for testing the EvidenceIssuerPolicyID child element.

6.8 Test assertions for EvidenceIssuerDetails element

The test assertions defined in clause 6.22.1 shall apply for testing the EvidenceIssuerDetails child element.

6.9 Test assertions for SenderDetails element

The test assertions defined in clause 6.22.2 shall apply for testing the SenderDetails child element.

6.10 Test assertions for SenderDelegateDetails element

The test assertions defined in clause 6.22.2 shall apply for testing the SenderDelegateDetails child element.

6.11 Test assertions for RecipientDetails element

The test assertions defined in clause 6.22.2 shall apply for testing each RecipientDetails child element.

6.12 Test assertions for RecipientsDelegateDetails element

The test assertions defined in clause 6.22.3 shall apply for testing the RecipientsDelegateDetails child element.

6.13 Test assertions for SubmissionTime element

The test assertions defined in clause 5.5 of the present document shall apply for testing the SubmissionTime child element of Evidence element.

6.14 Test assertions for EvidenceRefersToRecipient element

ERDS/EVIDENCE/EVID_REF_TO_RECPTA_01	
TA Id	ERDS/EVIDENCE/EVID_REF_TO_RECPTA_01
Normative source	ETSI EN 319 522-3 [3], clauses 5.2.2.6 and 5.2.2.21
Target	Conformance to ERDS Evidence content
Predicate	The EvidenceRefersToRecipient element child of Evidence element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVID_REF_TO_RECPTA_02	
TA Id	ERDS/EVIDENCE/EVID_REF_TO_RECPTA_02
Normative source	ETSI EN 319 522-3 [3], clauses 5.2.2.6 and 5.2.2.21
Target	Conformance to ERDS Evidence content
Predicate	The EvidenceRefersToRecipient element child of Evidence element does not have any XML except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVID_REF_TO_RECPTA_03	
TA Id	ERDS/EVIDENCE/EVID_REF_TO_RECPTA_03
Normative source	ETSI EN 319 522-3 [3], clauses 5.2.2.6 and 5.2.2.21
Target	Conformance to ERDS Evidence content
Predicate	The value of the EvidenceRefersToRecipient element child of Evidence element is an integer
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EVID_REF_TO_RECPTA_04	
TA Id	ERDS/EVIDENCE/EVID_REF_TO_RECPTA_04
Normative source	ETSI EN 319 522-3 [3], clauses 5.2.2.6 and 5.2.2.21
Target	Conformance to ERDS Evidence content
Predicate	The integer value of the EvidenceRefersToRecipient element child of Evidence element references one of the recipients
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.15 Test assertions for MessageIdentifier element

The test assertions defined in clause 5.2.6 shall apply for testing the MessageIdentifier child element of Evidence element.

6.16 Test assertions for UserContentInfo element

ERDS/EVIDENCE/US_CONT_INFO/TA_01	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_01
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The content of UserContentInfo element child of Evidence element, in terms of XML children element is as follows: AppLayerIdentifier? ComposingParts? PartsInfo
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ERDS_POLICY_ID/TA_02	
TA Id	ERDS/EVIDENCE/ERDS_POLICY_ID/TA_02
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The UserContentInfo element child of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_03	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_03
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The AppLayerIdentifier element child of UserContentInfo element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_04	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_04
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The <code>AppLayerIdentifier</code> element child of <code>UserContentInfo</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_05	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_05
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The <code>ComposingParts</code> element child of <code>UserContentInfo</code> element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_06	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_06
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The <code>ComposingParts</code> element child of <code>UserContentInfo</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_07	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_07
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The value of the <code>ComposingParts</code> element child of <code>UserContentInfo</code> element is an integer
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_08	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_08
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The content of <code>PartsInfo</code> element child of <code>UserContentInfo</code> element, in terms of XML elements is as follows: <code>PartInfo+</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_09	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_09
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The <code>PartsInfo</code> element child of <code>UserContentInfo</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory

ERDS/EVIDENCE/US_CONT_INFO/TA_10	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_10
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The content of PartInfo element child of PartsInfo element, in terms of XML elements is as follows: Identifier ContentType DigestMethod? DigestValue?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_11	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_11
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The PartInfo element child of PartsInfo element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_12	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_12
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The Identifier element child of PartInfo element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_13	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_13
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The Identifier element child of PartInfo element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_14	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_14
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The ContentType element child of PartInfo element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_15	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_15
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Predicate	The ContentType element child of PartInfo element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_16	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_16
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Prerequisite	The PartInfo element contains the ds:DigestMethod child element
Predicate	The PartInfo element contains the ds:DigestValue child element
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/US_CONT_INFO/TA_17	
TA Id	ERDS/EVIDENCE/US_CONTN_INFO/TA_17
Normative source	ETSI EN 319 522-3 [3], clauses 4.3.13 and 5.2.2.23
Target	Conformance to ERDS Evidence content
Prerequisite	The PartInfo element contains the ds:DigestValue child element
Predicate	The PartInfo element contains the ds:DigestMethod child element
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

The set of test assertions ranging from ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_17 to ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_22, replacing CertDigest by PartInfo, which are defined in clause 6.22.1.3.3.2 shall apply for testing ds:DigestMethod and ds:DigestValue.

6.17 Test assertions for ExternalERSDetails element

The test assertions defined in clause 6.22.1 shall apply for testing the ExternalERSDetails child element.

6.18 Test assertions for ExternalSystem element

ERDS/EVIDENCE/EXT_SYSTEM/TA_01	
TA Id	ERDS/EVIDENCE/EXT_SYSTEM/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.24
Target	Conformance to ERDS Evidence content
Predicate	The ExternalSystem element child of Evidence element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXT_SYSTEM/TA_02	
TA Id	ERDS/EVIDENCE/EXT_SYSTEM/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.24
Target	Conformance to ERDS Evidence content
Predicate	The ExternalSystem element child of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXT_SYSTEM/TA_03	
TA Id	ERDS/EVIDENCE/EXT_SYSTEM/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.24
Target	Conformance to ERDS Evidence content
Predicate	The ExternalSystem element child of Evidence element is a string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.19 Test assertions for TransactionLogInformation element

ERDS/EVIDENCE/TRANSACT_LOG_INFO/TA_01	
TA Id	ERDS/EVIDENCE/TRANSACT_LOG_INFO/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The contents of TransactionLogInformation element child of Evidence element, in terms of XML elements, is as follows: TransactionLog+
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/TRANSACT_LOG_INFO/TA_02	
TA Id	ERDS/EVIDENCE/TRANSACT_LOG_INFO/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The TransactionLogInformation element child of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.20 Test assertions for ds:Signature element

Test assertions defined in ETSI TS 119 134-4 [9] or ETSI TS 119 134-5 [14] shall apply for testing the ds:Signature element child of Evidence if this element is a XAdES signature, depending whether it is a XAdES baseline or a XAdES extended signature, respectively.

6.21 Test assertions for Extensions element

6.21.1 Introduction

ERDS/EVIDENCE/EXTENSIONS/TA_01	
TA Id	ERDS/EVIDENCE/EXTENSIONS/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The Extensions element child of Evidence element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSIONS/TA_02	
TA Id	ERDS/EVIDENCE/EXTENSIONS/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The content of the Extensions element child of Evidence element, in terms of XML children element is as follows: Extension+
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.21.2 Test assertions for GeneralEvidenceInfo child of Extension element

ERDS/EVIDENCE/EXTENSION/GENEVIDINFO/TA_01	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The GeneralEvidenceInfo element child of Extension element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/GENEVIDINFO/TA_02	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The content of the GeneralEvidenceInfo element child of Extension element, in terms of XML children element is as follows: Subject?, UntrustedPathToRecipient*
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/GENEVIDINFO/TA_03	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The Subject element child of GeneralEvidenceInfo element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/GENEVIDINFO/TA_04	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The value of the Subject element child of GeneralEvidenceInfo element is a string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/GENEVIDINFO/TA_05	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The UntrustedPathToRecipient element child of GeneralEvidenceInfo element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/GENEVIDINFO/TA_06	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The value of the UntrustedPathToRecipient element child of GeneralEvidenceInfo element is an integer
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.21.3 Test assertions for RelayEvidenceInfo child of Extension element

ERDS/EVIDENCE/EXTENSION/RELAYEVIDINFO/TA_01	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The RelayEvidenceInfo element child of Extension element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/RELAYEVIDINFO/TA_02	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The content of the RelayEvidenceInfo element child of Extension element, in terms of XML children element is as follows: RelayEvidenceRefersTo*
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/RELAYEVIDINFO/TA_03	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The RelayEvidenceRefersTo element child of RelayEvidenceInfo element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/EXTENSION/RELAYEVIDINFO/TA_04	
TA Id	ERDS/EVIDENCE/EXTENSIONS/GENEVIDINFO/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.26
Target	Conformance to ERDS Evidence content
Predicate	The value of the RelayEvidenceRefersTo element child of RelayEvidenceInfo element is an integer
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22 Test assertions for XML types

6.22.1 Test assertions for instances of EntityDetailsType type

6.22.1.1 Introduction

Clause 6.22.1 defines test assertions for any instance of EntityDetailsType type, namely: EvidenceIssuerDetails, and ExternalERDSDetails.

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_01	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.10
Target	Conformance to ERDS Evidence content
Predicate	The contents of EntityDetailsType type, in terms of XML elements, is as follows: Id CertificateDetails? Any?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_02	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.10
Target	Conformance to ERDS Evidence content
Predicate	The instances of <code>EntityDetailsType</code> type do not have any XML attribute except the attributes declaring namespaces.
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.2 Test assertions for `Identity` child element of instances of `EntityDetailsType` type

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_03	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.11
Target	Conformance to ERDS Evidence content
Predicate	The contents of <code>Identity</code> element child of instances of <code>EntityDetailsType</code> type, in terms of XML elements, is as follows: <code>saml:Attribute+</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_04	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.11
Target	Conformance to ERDS Evidence content
Predicate	The <code>Identity</code> element child of instances of <code>EntityDetailsType</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_05	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.11
Target	Conformance to ERDS Evidence content
Predicate	The inner structure of each <code>saml:Attribute</code> element child of <code>Identity</code> type is as specified in the XML Schema of SAML 2
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence
NOTE:	The previous test assertion (ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_05) does not provide the level of details regarding the content in terms of XML children elements and attributes for <code>saml:Attribute</code> because ETSI EN 319 522-3 [3], does not define it.

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_06	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.11
Target	Conformance to ERDS Evidence content
Predicate	The contents of <code>saml:Attribute</code> element child of <code>Identity</code> type is conformant with identity attributes specified in "eIDAS SAML Attribute profile" [8]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.3 Test assertions for CertificateDetails in instances of EntityDetailsType type

6.22.1.3.1 Test assertions for CertificateDetails child element

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_07	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_07
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The contents of CertificateDetails element child of instances of EntityDetailsType type, in terms of XML elements is as follows: X509Certificate CertID CertIDAndSignature (X509Certificate CertID) (CertID X509Certificate) (X509Certificate CertIDAndSignature) (CertIDAndSignature X509Certificate) (CertID CertIDAndSignature) (CertIDAndSignature CertID) (X509Certificate CertID CertIDAndSignature) (X509Certificate CertIDAndSignature CertID) (CertID X509Certificate CertIDAndSignature) (CertID CertIDAndSignature X509Certificate) (CertIDAndSignature CertID X509Certificate) (CertIDAndSignature X509Certificate CertID)
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_08	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_08
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The CertificateDetails element child of instances of EntityDetailsType type does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.3.2 Test assertions for X509Certificate child element of CertificateDetails

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_09	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_09
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The X509Certificate element child of instances of CertificateDetails does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_10	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_10
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The X509Certificate element child of instances of CertificateDetails does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_11	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_11
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The value X509Certificate element child of instances of CertificateDetails is the base-64 encoding of a DER-encoded X509 certificate
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.3.3 Test assertions for CertID child element of CertificateDetails

6.22.1.3.3.1 Test assertions for the whole CertID child element of CertificateDetails

The predicates of the following test assertions are similar to the ones in the test assertions defined in clause A.1.5.2 of ETSI TS 119 134-4 [9]. The rest of the fields in the test assertions have been changed for matching their scope to the scope of the present document.

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_12	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_12
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The content of CertID element child of CertificateDetails element, in terms of XML elements, is as follows: CertDigest IssuerSerialV2?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_13	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_13
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of CertID element child of CertificateDetails element is as follows: URI?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_14	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_14
Normative source	ETSI EN 319 132-1 [10], clause 5.2.2
Target	Conformance to ERDS Evidence content
Predicate	The value of attribute URI of CertID element child of CertificateDetailsType element is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.3.3.2 Test assertions for the CertDigest child element of CertID

The predicates of the following test assertions are similar to the ones in the test assertions defined in clause A.1.5.2 of ETSI TS 119 134-4 [9]. The rest of the fields in the test assertions have been changed for matching their scope to the scope of the present document.

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_15	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_15
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The contents of CertDigest element child of CertID element, in terms of XML elements, is as follows: ds:DigestMethod ds:DigestValue
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_16	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_16
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The CertDigest element child of CertID element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_17	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_17
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.6
Target	Conformance to ERDS Evidence content
Predicate	The ds:DigestValue element child of CertDigest element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_18	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_18
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.6
Target	Conformance to ERDS Evidence content
Predicate	The ds:DigestValue element child of CertDigest does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_19	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_19
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.6
Target	Conformance to ERDS Evidence content
Predicate	The content of ds:DigestValue element child of CertDigest is a valid base-64 value
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_20	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_20
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.5
Target	Conformance to ERDS Evidence content
Predicate	The ds:DigestMethod element child of CertDigest element may have any mixed content of XML children elements and children text nodes
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_21	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_21
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.5
Target	Conformance to ERDS Evidence content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of ds:DigestMethod element child of CertDigest is as follows: URI
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_22	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_22
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.5
Target	Conformance to ERDS Evidence content
Predicate	The value of attribute URI of ds:DigestMethod element child of CertDigest is a valid URI Reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.3.3.3 Test assertions for the IssuerSerialV2 child element of CertID

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_23	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_23
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The IssuerSerialV2 child element of CertID does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_24	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_24
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The IssuerSerialV2 child element of CertID does not have any XML attributes except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_25	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_25
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The content IssuerSerialV2 child element of CertID is the base-64 encoding of one DER-encoded instance of type IssuerSerial type defined in IETF RFC 5035 [12]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.1.3.3.4 Test assertions for CertIDAndSignature child element of CertificateDetails

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_26	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_26
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The contents of CertIDAndSignature element child of instances of CertificateDetailsType type, in terms of XML elements is as follows: CertID, CertSignatureDetails
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

For CertID element, the Test Assertions defined in clause 6.22.1.3.3 of the present document.

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_27	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_27
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.12
Target	Conformance to ERDS Evidence content
Predicate	The contents of CertSignatureDetails element child of instances of CertIDAndSignatureType type, in terms of XML elements is as follows: ds:SignatureMethod, ds:SignatureValue
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_28	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_28
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.6
Target	Conformance to ERDS Evidence content
Predicate	The ds:SignatureValue element child of CertSignatureDetails element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_29	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_29
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.6
Target	Conformance to ERDS Evidence content
Predicate	The ds:SignatureValue element child of CertSignatureDetails element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_30	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_30
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.6
Target	Conformance to ERDS Evidence content
Predicate	The ds:SignatureValue element child of CertSignatureDetails element is a valid base-64 value
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_31	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_31
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.5
Target	Conformance to ERDS Evidence content
Predicate	The ds:SignatureMethod element child of CertSignatureDetails element may have any mixed content of XML children elements and children text nodes
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_32	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_32
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.5
Target	Conformance to ERDS Evidence content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of the ds:SignatureMethod element child of CertSignatureDetails element, is as follows: Algorithm
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_33	
TA Id	ERDS/EVIDENCE/ENTITY_DETS_TYPE/TA_33
Normative source	W3C XML Sig 1.1 [11], clause 4.4.3.5
Target	Conformance to ERDS Evidence content
Predicate	The value of attribute Algorithm of the ds:SignatureMethod element child of CertSignatureDetails element is a valid URI Reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.2 Test assertions for instances of `UserDetailsType` type

6.22.2.1 Introduction

Clause 6.22.2 defines test assertions for any instance of `UserDetailsType` type, namely: `SenderDetails`, and `RecipientDetails`.

ERDS/EVIDENCE/USER_DETS_TYPE/TA_01	
TA Id	ERDS/EVIDENCE/USER_DETS_TYPE/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.15
Target	Conformance to ERDS Evidence content
Predicate	The contents of the <code>SenderDelegateDetails</code> element, instance of <code>UserDetailsType</code> type, in terms of XML elements, is as follows: <code>Identity Identifier?</code> <code>AssuranceLevelsDetails?</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/USER_DETS_TYPE/TA_02	
TA Id	ERDS/EVIDENCE/USER_DETS_TYPE/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.15
Target	Conformance to ERDS Evidence content
Predicate	An instance of <code>UserDetailsType</code> type, has at least one XML element child
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/USER_DETS_TYPE/TA_03	
TA Id	ERDS/EVIDENCE/USER_DETS_TYPE/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.15
Target	Conformance to ERDS Evidence content
Predicate	The instances of <code>UserDetailsType</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.2.2 Test assertions for `Identity` child element

The test assertions for this element shall be the test assertions defined in clause 6.22.1.2 replacing `EntityDetailsType` by `UserDetailsType`.

6.22.2.3 Test assertions for `Identifier` child element

The test assertions for this element shall be the test assertions defined in clause 5.3.

6.22.2.4 Test assertions for `AssuranceLevelsDetails` child element

The test assertions defined in clause 6.22.4 of the present document shall apply for testing the `AssuranceLevelsDetails` child element of instances of `UserDetailsType` type.

6.22.3 Test assertions for instances of `RecipientsDelegateDetailsType` type

The present clause defines test assertions for instances of `RecipientsDelegateDetailsType` type. The `RecipientsDelegateDetails` child element of `Evidence` is the only instance of this type.

ERDS/EVIDENCE/DELEGATE_TYPE/TA_01	
TA Id	ERDS/EVIDENCE/DELEGATETYPE/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.19
Target	Conformance to ERDS Evidence content
Predicate	The content of instances of RecipientsDelegateDetailsType type, in terms of XML elements, is as follows: Identity Identifier AssuranceLevelsDetails DelegatingRecipients+
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/DELEGATE_TYPE/TA_02	
TA Id	ERDS/EVIDENCE/DELEGATETYPE/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.19
Target	Conformance to ERDS Evidence content
Predicate	The instances of RecipientsDelegateDetailsType type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/DELEGATE_TYPE/TA_03	
TA Id	ERDS/EVIDENCE/DELEGATETYPE/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.19
Target	Conformance to ERDS Evidence content
Predicate	The DelegatingRecipient child element of instances of RecipientsDelegateDetailsType does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/DELEGATE_TYPE/TA_04	
TA Id	ERDS/EVIDENCE/DELEGATETYPE/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.19
Target	Conformance to ERDS Evidence content
Predicate	The DelegatingRecipient child element of instances of RecipientsDelegateDetailsType does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/DELEGATE_TYPE/TA_05	
TA Id	ERDS/EVIDENCE/DELEGATETYPE/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.19
Target	Conformance to ERDS Evidence content
Predicate	The value of the DelegatingRecipient child element of instances of RecipientsDelegateDetailsType is a sequence of integer values
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/DELEGATE_TYPE/TA_06	
TA Id	ERDS/EVIDENCE/DELEGATETYPE/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 5.2.2.19
Target	Conformance to ERDS Evidence content
Predicate	Each integer present in the value of the DelegatingRecipient child element of instances of RecipientsDelegateDetailsType references one of the recipients
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

The test assertions defined in clause 6.22.2.2 of the present document shall apply for testing the Identity child element.

The test assertions defined in clause 6.22.2.3 of the present document shall apply for testing the `Identifier` child element.

The test assertions defined in clause 6.22.2.4 of the present document shall apply for testing the `AssuranceLevelsDetails` child element.

6.22.4 Test assertions for instances of `AssuranceLevelsDetailsType` type

6.22.4.1 Introduction

This clause defines test assertions for instances of `AssuranceLevelsDetailsType` type. This type has the following instances: `AssuranceLevelsDetails` children elements of instances of `UserDetailsType`, `DelegateDetailsType`, and `RecipientsDelegatesDetailsType`.

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_01	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The content of <code>AssuranceLevelsDetailsType</code> type, in terms of XML elements, is as follows: (<code>GlobalAssuranceLevel AuthenticationDetails</code>) (<code>AuthenticationDetsAndAssuranceLevel IdentityProofAssuranceLevel FederationAssuranceLevel?</code>)
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_02	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	Instances of <code>AssuranceLevelsDetailsType</code> type do not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.4.2 Test assertions for `GlobalAssuranceLevel` child element

The test assertions defined in clause 5.4 of the present document shall apply for testing the `GlobalAssuranceLevel` child element.

6.22.4.3 Test assertions for `AuthenticationDetails` child element

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_03	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The content of <code>AuthenticationDetails</code> child element of instances of <code>AssuranceLevelsDetailsType</code> type, in terms of XML elements, is as follows: <code>saml:Assertion</code> <code>OAuth2</code> (<code>AuthenticationTime AuthenticationMethod</code>) <code>other</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

NOTE: This clause does not provide the level of details regarding the content in terms of XML children elements and attributes neither for `saml:Assertion` nor for `OAuth2` because ETSI EN 319 522-3 [3] does not define them.

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_04	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The AuthenticationDetails child element of instances of AssuranceLevelsDetailsType type does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

The test assertions defined in clause 5.5 of the present document shall apply for testing each AuthenticationTime child element of AuthenticationDetails element.

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_05	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_05
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The AuthenticationMethod child element of AuthenticationDetails element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_06	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_06
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The AuthenticationMethod child element of AuthenticationDetails element does not have XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_7	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_7
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The value of the AuthenticationMethod child element of AuthenticationDetails element is a valid URI reference
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.4.4 Test assertions for AuthenticationDetsAndAssuranceLevel child element

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_8	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_8
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The content of the AuthenticationDetsAndAssuranceLevel child element of instances of AssuranceLevelsDetailsType, in terms of XML elements, is as follows: AssuranceLevel AuthenticationDetails
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_9	
TA Id	ERDS/EVIDENCE/ASSURANCE_LEVELS_TYPE/TA_9
Normative source	ETSI EN 319 522-3 [3], clause 4.3.14
Target	Conformance to ERDS Evidence content
Predicate	The AuthenticationDetsAndAssuranceLevel child element of instances of AssuranceLevelsDetailsType does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

The test assertions defined in clause 5.4 of the present document shall apply for testing the AssuranceLevel child element.

The test assertions defined in clause 6.22.4.3 of the present document shall apply for testing the AuthenticationDetails child element.

6.22.4.5 Test assertions for IdentityProofAssuranceLevel child element

The test assertions defined in clause 5.4 of the present document shall apply for testing the IdentityProofAssuranceLevel child element of instances of AssuranceLevelsDetailsType type.

The following test assertions, derived from the following additional requirements defined in Table 13 of ETSI EN 319 522-2 [2], clause 8.4 and copied below for the sake of completeness, shall also apply.

"(b) either "I10 Sender's identity assurance level detail" component or I11 "Sender's delegate identity assurance level detail" component shall be present in these evidences".

ERDS/IDENTITY_ASSURANCE_LEVEL/TA_01	
TA Id	ERDS/IDENTITY_ASSURANCE_LEVEL/TA_01
Normative source	ETSI EN 319 522-2 [2], clause 8.4
Target	Conformance to ERDS Evidence and metadata content
Prerequisite	The IdentityProofAssuranceLevel element is descendant of the SenderDetails element AND the AssuranceLevel child element of IdentityProofAssuranceLevel of the SenderDelegateDetails element is NOT empty
Predicate	The value of the AssuranceLevel child element of the IdentityProofAssuranceLevel descendant element of SenderDetails element is an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/IDENTITY_ASSURANCE_LEVEL/TA_02	
TA Id	ERDS/IDENTITY_ASSURANCE_LEVEL/TA_02
Normative source	ETSI EN 319 522-2 [2], clause 8.4
Target	Conformance to ERDS Evidence and metadata content
Prerequisite	The IdentityProofAssuranceLevel element is descendant of the SenderDelegateDetails element AND the AssuranceLevel child element of the IdentityProofAssuranceLevel of SenderDetails element is NOT empty
Predicate	The value of the AssuranceLevel child element of the IdentityProofAssuranceLevel descendant element of SenderDelegateDetails element is an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

The following test assertions, derived from the following additional requirement defined in Table 13 of ETSI EN 319 522-2 [2], clause 8.4 and copied below for the sake of completeness, shall also apply.

"(c) either "I12 Recipient's identity assurance level detail" component or I13 "Recipient's delegate identity assurance level detail" component shall be present in these evidences".

ERDS/IDENTITY_ASSURANCE_LEVEL/TA_03	
TA Id	ERDS/IDENTITY_ASSURANCE_LEVEL/TA_03
Normative source	ETSI EN 319 522-2 [2], clause 8.4
Target	Conformance to ERDS Evidence and metadata content
Prerequisite	The IdentityProofAssuranceLevel element is descendant of one of the RecipientDetails elements AND the AssuranceLevel child element of IdentityProofAssuranceLevel of the RecipientsDelegateDetails element, containing the details of the delegate of the aforementioned recipient is NOT empty
Predicate	The value of the AssuranceLevel child element of the IdentityProofAssuranceLevel descendant element of the aforementioned RecipientDetails element is an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/IDENTITY_ASSURANCE_LEVEL/TA_04	
TA Id	ERDS/IDENTITY_ASSURANCE_LEVEL/TA_04
Normative source	ETSI EN 319 522-2 [2], clause 8.4
Target	Conformance to ERDS Evidence and metadata content
Prerequisite	The IdentityProofAssuranceLevel element is descendant of one of the RecipientsDelegateDetails elements containing the details of one delegate AND the AssuranceLevel child element of IdentityProofAssuranceLevel of the RecipientDetails providing details of the recipient whose delegate is the one mentioned before is NOT empty
Predicate	The value of the AssuranceLevel child element of the IdentityProofAssuranceLevel descendant element of the aforementioned RecipientsDelegateDetails element is an empty string
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

6.22.4.6 Test assertions for FederationAssuranceLevel child element

The test assertions defined in clause 5.4 of the present document shall apply for testing the FederationAssuranceLevel child element of instances of AssuranceLevelsDetailsType type.

7 Test assertions for ERDS metadata structure and contents

7.1 Introduction

The next clauses define the set of test assertions for testing conformance of ERDS metadata against ETSI EN 319 522-3 [3].

The same considerations than the ones detailed in clause 5.1 shall apply in the test assertions defined throughout the whole clause 7.

7.2 Test assertions for RelayMetadata element

ERDS/METADATA/ROOT/TA_01	
TA Id	ERDS/METADATA/ROOT/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.5
Target	Conformance to ERDS Evidence structure
Predicate	The content of the RelayMetadata XML element, in terms of XML children element is as follows: MessageIdentifier ERDMessageType InReplyTo? RelayTime? ExpirationTime? ScheduledDeliveryTime? SenderId ReplyTo? RecipientId UserContentInfo RequiredAssuranceLevel? ApplicablePolicy? RequestedConsignmentMode? Extensions? ds:Signature?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/ROOT/TA_02	
TA Id	ERDS/METADATA/ROOT/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.3.5
Target	Conformance to ERDS Evidence structure
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of the RelayMetadata XML element, is as follows: version
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

7.3 Test assertions for MessageIdentifier element

The test assertions defined in clause 5.2.6 of the present document shall apply for testing the MessageIdentifier child element.

7.4 Test assertions for ERDMessageType element

ERDS/METADATA/ERDS_MSSG_TYPE/TA_01	
TA Id	ERDS/METADATA/ERDS_MSSG_TYPE/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.5
Target	Conformance to ERDS Evidence and metadata content
Predicate	The ERDMessageType element child of RelayMetadata element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/ERDS_MSSG_TYPE/TA_02	
TA Id	ERDS/METADATA/ERDS_MSSG_TYPE/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.5
Target	Conformance to ERDS Evidence and metadata content
Predicate	The ERDMessageType element child of RelayMetadata element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/ERDS_MSSG_TYPE/TA_03	
TA Id	ERDS/METADATA/ERDS_MSSG_TYPE/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.5
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of ERDMessageType element child of RelayMetadata element is one of the following values: "http://uri.etsi.org/19522/v1#/ERDMessageType/dispatch" "http://uri.etsi.org/19522/v1#/ERDMessageType/receipt" "http://uri.etsi.org/19522/v1#/ERDMessageType/serviceInfo" "http://uri.etsi.org/19522/v1#/ERDMessageType/payload"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

7.5 Test assertions for InReplyTo element

The test assertions defined in clause 5.2.6 of the present document shall apply for testing the InReplyTo child element.

7.6 Test assertions for RelayTime element

The test assertions defined in clause 5.5 of the present document shall apply for testing the RelayTime child element of RelayMetadata element.

7.7 Test assertions for ExpirationTime element

The test assertions defined in clause 5.5 of the present document shall apply for testing the ExpirationTime child element of RelayMetadata element.

7.8 Test assertions for ScheduledDeliveryTime element

The test assertions defined in clause 5.5 of the present document shall apply for testing the ScheduledDeliveryTime child element of RelayMetadata element.

7.9 Test assertions for SenderId element

The test assertions defined in clause 5.3 of the present document shall apply for testing the SenderId child element of RelayMetadata element.

7.10 Test assertions for ReplyTo element

The test assertions defined in clause 5.3 of the present document shall apply for testing the ReplyTo child element of RelayMetadata element.

7.11 Test assertions for RecipientId element

The test assertions defined in clause 5.3 of the present document shall apply for testing the RecipientId child element of RelayMetadata element.

7.12 Test assertions for UserContentInfo element

The test assertions defined in clause 6.16 of the present document shall apply for testing the UserContentInfo child element of RelayMetadata element.

7.13 Test assertions for RequiredAssuranceLevel element

The test assertions defined in clause 5.4 of the present document shall apply for testing the RequiredAssuranceLevel child element of RelayMetadata element.

7.14 Test assertions for ApplicablePolicy element

The test assertions defined in clause 5.6 of the present document shall apply for testing the ApplicablePolicy child element.

7.15 Test assertions for RequestedConsignmentMode element

ERDS/METADATA/CONSIGNMENT_MODE/TA_01	
TA Id	ERDS/METADATA/CONSIGNMENT_MODE/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.16
Target	Conformance to ERDS Evidence and metadata content
Predicate	The RequestedConsignmentMode element child of RelayMetadata element does not have any XML children elements
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/CONSIGNMENT_MODE/TA_02	
TA Id	ERDS/METADATA/CONSIGNMENT_MODE/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.16
Target	Conformance to ERDS Evidence and metadata content
Predicate	The RequestedConsignmentMode element child of RelayMetadata element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/CONSIGNMENT_MODE/TA_03	
TA Id	ERDS/METADATA/CONSIGNMENT_MODE/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.16
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of RequestedConsignmentMode element child of RelayMetadata element is one of the following values: "http://uri.etsi.org/19522/v1#/consignment/basic" "http://uri.etsi.org/19522/v1#/consignment/consent" "http://uri.etsi.org/19522/v1#/consignment/signed" "http://uri.etsi.org/19522/v1#/consignment/other"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

7.16 Test assertions for Extensions element

ERDS/METADATA/EXTENSIONS/TA_01	
TA Id	ERDS/METADATA/EXTENSIONS/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 4.3.17
Target	Conformance to ERDS Evidence and metadata content
Predicate	The content of the Extensions element child of RelayMetadata element, in terms of XML elements, is as follows: Extension+
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/EXTENSIONS/TA_02	
TA Id	ERDS/METADATA/EXTENSIONS/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 4.3.17
Target	Conformance to ERDS Evidence and metadata content
Predicate	The <code>Extensions</code> element child of <code>RelayMetadata</code> element does not have any XML attribute except the attributes declaring namespaces
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/EXTENSIONS/TA_03	
TA Id	ERDS/METADATA/EXTENSIONS/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 4.3.17
Target	Conformance to ERDS Evidence and metadata content
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of the <code>Extension</code> child element of <code>Extensions</code> element, is as follows: <code>isCritical</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

ERDS/METADATA/EXTENSIONS/TA_04	
TA Id	ERDS/METADATA/EXTENSIONS/TA_04
Normative source	ETSI EN 319 522-3 [3], clause 4.3.17
Target	Conformance to ERDS Evidence and metadata content
Predicate	The value of the attribute <code>isCritical</code> of the <code>Extension</code> element is either "true" or "false"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDS Evidence

7.17 Test assertions for `ds:Signature` element

Test assertions defined in ETSI TS 119 134-4 [9] or ETSI TS 119 134-5 [14] shall apply for testing the `ds:Signature` element child of `Evidence` if this element is a XAdES signature, depending whether it is a XAdES baseline or a XAdES extended signature, respectively.

8 Test assertions for ERDS AS4-profile messages

8.1 Test assertions for generic requirements

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_01	
TA Id	ERDS/AS4_PROF/TA_01
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 When using AS4 for the implementation of the relay operation ERDS shall conform to the <i>AS4 ebHandler Conformance Clause</i> and all related features as defined in section 6.1 of AS4
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	Implementation of the relay operation ERDS conforms to the <i>AS4 ebHandler Conformance Clause</i> and all related features as defined in section 6.1 of [15]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_02	
TA Id	ERDS/AS4_PROF/TA_02
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 ERDS shall only use the push message exchange pattern
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	ERDS uses only the push message exchange pattern
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_03	
TA Id	ERDS/AS4_PROF/TA_03
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 ERD messages shall be packaged in User Messages
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	ERD messages are packaged in User Messages
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_04	
TA Id	ERDS/AS4_PROF/TA_04
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The user content, ERDS relay meta-data and ERDS evidence shall be included as ebMS payloads that are packaged as SOAP attachments, i.e. the SOAP Body shall not be used
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The user content, ERDS relay meta-data and ERDS evidence are included as ebMS payloads that are packaged as SOAP attachments
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_05	
TA Id	ERDS/AS4_PROF/TA_05
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The user content, ERDS relay meta-data and ERDS evidence shall be included as ebMS payloads that are packaged as SOAP attachments, i.e. the SOAP Body shall not be used
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	SOAP Body is not used
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_06	
TA Id	ERDS/AS4_PROF/TA_06
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The AS4 Compression Feature as defined in section 3.1 of the AS4 Profile [15] and which offers the option to compress payloads packaged in the SOAP attachments may be used by the ERDS. Alternatively, the ERDS may use the HTTP gzip transfer-encoding
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	ERDS uses compression
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_07	
TA Id	ERDS/AS4_PROF/TA_07
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The AS4 Compression Feature as defined in section 3.1 of the AS4 Profile [15] and which offers the option to compress payloads packaged in the SOAP attachments may be used by the ERDS. Alternatively, the ERDS may use the HTTP gzip transfer-encoding
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS uses compression.
Predicate	ERDS uses either the feature as defined in section 3.1 of [15] or HTTP gzip transfer-encoding
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_08	
TA Id	ERDS/AS4_PROF/TA_08
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 Each payload contained in the AS4 message shall have a part property, i.e. a <code>//PartInfo/Property</code> element shall be included in the message header that indicates the object type of the payload. The name of the property shall be <code>http://uri.etsi.org/19522/v1#as4binding/PayloadType</code>
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	Each payload contained in the AS4 message has a <code>PartInfo/Property</code> element whose XML attribute name has the value <code>http://uri.etsi.org/19522/v1#as4binding/PayloadType</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_09	
TA Id	ERDS/AS4_PROF/TA_09
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The value (of the element mentioned in test assertion ERDS/AS4_PROF/TA_08) shall be set according to table 1 of ETSI EN 319 522-4-1 [4]
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The content is the User Content
Predicate	The value of the <code>PartInfo/Property</code> element whose XML attribute name has the value <code>http://uri.etsi.org/19522/v1#as4binding/PayloadType</code> is "UserContent"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_10	
TA Id	ERDS/AS4_PROF/TA_10
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The value (of the element mentioned in test assertion ERDS/AS4_PROF/TA_08) shall be set according to table 1
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The content is ERDS Relay metadata
Predicate	The value of the <code>PartInfo/Property</code> element whose XML attribute name has the value <code>http://uri.etsi.org/19522/v1#as4binding/PayloadType</code> is "ERDSRelayMetadata"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_11	
TA Id	ERDS/AS4_PROF/TA_11
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The value (of the element mentioned in test assertion ERDS/AS4_PROF/TA_08) shall be set according to table 1.
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The content is ERDS Evidence
Predicate	The value of the <code>PartInfo/Property</code> element whose XML attribute name has the value <code>http://uri.etsi.org/19522/v1#as4binding/PayloadType</code> is "ERDSEvidence".
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_12	
TA Id	ERDS/AS4_PROF/TA_12
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 the AS4 message shall always include at least one payload containing the XML representation of the metadata as specified in clause 4 of ETSI EN 319 522-3 [3]
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The content is ERDS Evidence
Predicate	The AS4 message includes one or more payload containing the XML representation of the metadata as specified in clause 4 of ETSI EN 319 522-4-1 [4]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_13	
TA Id	ERDS/AS4_PROF/TA_13
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The PMode.Initiator and PMode.Responder parameters shall include the identifiers of the sending and receiving ERDSs respectively
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The PMode.Initiator parameter includes the identifier of the sending ERDS
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_14	
TA Id	ERDS/AS4_PROF/TA_14
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The PMode.Initiator and PMode.Responder parameters shall include the identifiers of the sending and receiving ERDSs respectively
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The PMode.Responder parameter includes the identifier of the receiving ERDS
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_15	
TA Id	ERDS/AS4_PROF/TA_15
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 Both the PMode.Initiator.Role and PMode.Responder.Role shall contain the value http://uri.etsi.org/19522/v1#/as4binding/Roles/ERDS
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The PMode.Initiator.Role and the PMode.Responder.Role have the value http://uri.etsi.org/19522/v1#/as4binding/Roles/ERDS
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_16	
TA Id	ERDS/AS4_PROF/TA_16
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 PMode [1].BusinessInfo.Service shall be set to http://uri.etsi.org/19522/v1#/as4binding/Relay
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The value of PMode [1].BusinessInfo.Service is http://uri.etsi.org/19522/v1#/as4binding/Relay
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_17	
TA Id	ERDS/AS4_PROF/TA_17
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The Service type shall not be used
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The Service type is not used
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_18	
TA Id	ERDS/AS4_PROF/TA_18
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 both PMode[1].Security.SendReceipt and PMode[1].Security. SendReceipt.NonRepudiation shall have value true
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	PMode[1].Security.SendReceipt and PMode[1].Security. SendReceipt.NonRepudiation have the value true
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_19	
TA Id	ERDS/AS4_PROF/TA_19
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 PMode[1].Security.SendReceipt.ReplyPattern and PMode[1].ErrorHandling.Report.AsResponse shall have value true
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	PMode[1].Security.SendReceipt.ReplyPattern and PMode[1].ErrorHandling.Report.AsResponse have the value true
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_20	
TA Id	ERDS/AS4_PROF/TA_20
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 The AS4 Reception Awareness Feature as specified in section 3.2 of the [15] should be used
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The AS4 Reception Awareness Feature as specified in section 3.2 of [15] is used
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/TA_21	
TA Id	ERDS/AS4_PROF/TA_21
Normative source	ETSI EN 319 522-4-1 [4], clause 5.2 ERDS should use the duplicate elimination function to prevent redundant delivery of the same message to the user application
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	ERDS uses the duplicate elimination function
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, AS4 message

8.2 Test assertions for signing and encryption of the AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_1	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_1
Normative source	ETSI EN 319 522-4-1 [4], clause 5.3 All AS4 messages exchanged between the ERDS shall be signed and encrypted by the sending ERDS
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The sending ERDS signs and encrypts all the AS4 messages that it exchanges with other ERDSs
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_2	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_2
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The hash algorithm used for signing and for hashing the encryption key is as specified in ETSI TS 119 312 [16]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_3	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_3
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The Binary Security Token reference as specified in [i.1] is used
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_4	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_4
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The Binary Security Token reference is used
Predicate	The Binary Security Token reference references one security token of type X509v3, which is the signing certificate
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_5	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_5
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The signature algorithm is as specified in ETSI TS 119 312 [16]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_6	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_6
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The encryption algorithm is AES-GCM128
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_7	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_7
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The encryption key transport algorithm is RSA-OAEP
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/SIG_ENC/TA_8	
TA Id	ERDS/AS4_PROF/SIG_ENC/TA_8
Normative source	ETSI EN 319 522-4-1 [4], table 2 in clause 5.3
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Predicate	The encryption key mask algorithm is MGF1 with SHA256
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

8.3 Test assertions for binding of ERD Dispatch

ERDS/AS4_PROF/ERD_DISPATCH/TA_01	
TA Id	ERDS/AS4_PROF/ERD_DISPATCH/TA_01
Normative source	ETSI EN 319 522-4-1 [4], clause 5.4 When relaying an ERD dispatch using AS4 the sending ERDS shall use http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDdispatch as value for PMode[1].Action
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Dispatch
Predicate	The value of PMode[1].Action is http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDdispatch
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_DISPATCH/TA_02	
TA Id	ERDS/AS4_PROF/ERD_DISPATCH/TA_02
Normative source	ETSI EN 319 522-4-1 [4], clause 5.4 For each element <code>//UserContentInfo//PartInfo</code> in the ERDS relay metadata XML document there shall be a payload in the AS4 message
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Dispatch
Predicate	There is one payload in the AS4 message for each element <code>//UserContentInfo//PartInfo</code> element
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_DISPATCH/TA_03	
TA Id	ERDS/AS4_PROF/ERD_DISPATCH/TA_03
Normative source	ETSI EN 319 522-4-1 [4], clause 5.4 Beside the part property specified in clause 5.2 that indicates the object type there shall be a part property named http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Dispatch
Predicate	There is one part property named http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_DISPATCH/TA_04	
TA Id	ERDS/AS4_PROF/ERD_DISPATCH/TA_04
Normative source	ETSI EN 319 522-4-1 [4], clause 5.4 Beside the part property specified in clause 5.2 that indicates the object type there shall be a part property named <code>http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId</code> and with value the identifier contained in the <code>//UserContentInfo//PartInfo/Identifier</code> element in the metadata
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Dispatch
Predicate	The value of <code>http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId</code> is the identifier contained in the <code>//UserContentInfo//PartInfo/Identifier</code> element in the metadata
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_DISPATCH/TA_05	
TA Id	ERDS/AS4_PROF/ERD_DISPATCH/TA_05
Normative source	ETSI EN 319 522-4-1 [4], clause 5.4 Furthermore the message may include one or more payloads containing ERDS evidence(s)
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Dispatch
Predicate	The message contains one or more payloads containing ERDS evidence
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_DISPATCH/TA_06	
TA Id	ERDS/AS4_PROF/ERD_DISPATCH/TA_06
Normative source	ETSI EN 319 522-4-1 [4], clause 5.4 Furthermore the message may include one or more payloads containing ERDS evidence(s). For each of these payloads the AS4 message header should contain a part property named <code>http://uri.etsi.org/19522/v1#/as4binding/PayloadType</code> with value <i>ERDSEvidence</i>
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Dispatch, which contains one or more payloads containing ERDS evidence
Predicate	For each of these payloads the AS4 message header contains a part property named <code>http://uri.etsi.org/19522/v1#/as4binding/PayloadType</code> with value <i>ERDSEvidence</i>
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, AS4 message

8.4 Test assertions for binding of ERDS Receipt

ERDS/AS4_PROF/ERDS_RECEIPT/TA_01	
TA Id	ERDS/AS4_PROF/ERDS_RECEIPT/TA_01
Normative source	ETSI EN 319 522-4-2 [5], clause 5.3 When relaying an ERDS receipt using AS4 [15] the sending ERDS shall use <code>http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDSreceipt</code> as value for <code>PMode[1].Action</code>
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERDS Receipt
Predicate	The value of <code>PMode[1].Action</code> is <code>http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDSreceipt</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERDS_RECEIPT/TA_02	
TA Id	ERDS/AS4_PROF/ERDS_RECEIPT/TA_02
Normative source	ETSI EN 319 522-4-2 [5], clause 5.3 In addition to the payload containing the ERDS Relay metadata the message shall include one or more payloads containing the ERDS evidence(s).
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERDS Receipt
Predicate	The message includes one or more payloads containing the ERDS evidence(s)
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

8.5 Test assertions for binding of ERD ServiceInfo

ERDS/AS4_PROF/ERD_SVCINFO/TA_01	
TA Id	ERDS/AS4_PROF/ERD_SVCINFO/TA_01
Normative source	ETSI EN 319 522-4-1 [4], clause 5.6 When relaying an ERDS serviceInfo using AS4 the sending ERDS shall use http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDserviceInfo as value for PMode[1].Action
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD ServiceInfo
Predicate	The value of PMode[1].Action is http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDserviceInfo
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_SVCINFO/TA_02	
TA Id	ERDS/AS4_PROF/ERD_SVCINFO/TA_02
Normative source	ETSI EN 319 522-4-1 [4], clause 5.6 Beside the payload carrying the ERDS relay metadata the message shall not contain any further payloads
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD ServiceInfo
Predicate	The message does not contain any other payload than the ERDS relay metadata
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

8.6 Test assertions for binding of ERD Payload

ERDS/AS4_PROF/ERD_PAYLOAD/TA_01	
TA Id	ERDS/AS4_PROF/ERD_PAYLOAD/TA_01
Normative source	ETSI EN 319 522-4-1 [4], clause 5.7 When relaying an ERD payload using AS4 the sending ERDS shall use http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDpayload as value for PMode[1].Action
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Payload
Predicate	The value of PMode[1].Action is http://uri.etsi.org/19522/v1#/as4binding/Actions/ERDpayload
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_PAYLOAD/TA_02	
TA Id	ERDS/AS4_PROF/ERD_PAYLOAD/TA_02
Normative source	ETSI EN 319 522-4-1 [4], clause 5.7 For each element //UserContentInfo//PartInfo in the ERDS relay metadata XML document there shall be a payload in the AS4 message
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Payload
Predicate	There is one payload in the AS4 message for each element //UserContentInfo//PartInfo element
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_PAYLOAD/TA_03	
TA Id	ERDS/AS4_PROF/ERD_PAYLOAD/TA_03
Normative source	ETSI EN 319 522-4-1 [4], clause 5.7 For each element //UserContentInfo//PartInfo in the metadata XML document there shall be a payload in the AS4 message that has the two part properties: one named http://uri.etsi.org/19522/v1#/as4binding/PayloadType with value <i>UserContentPart</i> and one named http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId and with value the identifier contained in the //UserContentInfo//PartInfo/Identifier element in the metadata
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Payload and there are one or more a payloads corresponding to different //UserContentInfo//PartInfo in the metadata XML document
Predicate	Each payload has two part properties, named http://uri.etsi.org/19522/v1#/as4binding/PayloadType and http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId respectively
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_PAYLOAD/TA_04	
TA Id	ERDS/AS4_PROF/ERD_PAYLOAD/TA_04
Normative source	ETSI EN 319 522-4-1 [4], clause 5.7 For each element //UserContentInfo//PartInfo in the metadata XML document there shall be a payload in the AS4 message that has the two part properties: one named http://uri.etsi.org/19522/v1#/as4binding/PayloadType with value <i>UserContentPart</i> and one named http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId and with value the identifier contained in the //UserContentInfo//PartInfo/Identifier element in the metadata
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Payload and there are one or more a payloads corresponding to different //UserContentInfo//PartInfo in the metadata XML document
Predicate	The value of the property named http://uri.etsi.org/19522/v1#/as4binding/PayloadType is <i>UserContentPart</i>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_PAYLOAD/TA_05	
TA Id	ERDS/AS4_PROF/ERD_PAYLOAD/TA_05
Normative source	ETSI EN 319 522-4-1 [4], clause 5.7 For each element //UserContentInfo//PartInfo in the metadata XML document there shall be a payload in the AS4 message that has the two part properties: one named <code>http://uri.etsi.org/19522/v1#/as4binding/PayloadType</code> with value <code>UserContentPart</code> and one named <code>http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId</code> and with value the identifier contained in the //UserContentInfo//PartInfo/Identifier element in the metadata
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Payload and there are one or more a payloads corresponding to different //UserContentInfo//PartInfo in the metadata XML document
Predicate	The value of the property named <code>http://uri.etsi.org/19522/v1#/as4binding/UserContentPartId</code> is the value of the identifier contained in the //UserContentInfo//PartInfo/Identifier element in the metadata
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

ERDS/AS4_PROF/ERD_PAYLOAD/TA_06	
TA Id	ERDS/AS4_PROF/ERD_PAYLOAD/TA_06
Normative source	ETSI EN 319 522-4-1 [4], clause 5.7 Beside the payloads specified above and the one containing the ERDS Relay metadata there shall be no further payloads included in the message
Target	Conformance to the AS4 profile as further profiled in ETSI EN 319 522-4-1 [4]
Prerequisite	The ERDS relays an ERD Payload
Predicate	The ERD Payload does not contain any other payload than the one containing the ERDS Relay metadata and the payloads corresponding to the //UserContentInfo//PartInfo elements in the metadata XML document
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, AS4 message

9 Test assertions for signatures

REMS/SIGNATURE/TA_01	
TA Id	ERDS/SIGNATURE/TA_01
Normative source	ETSI EN 319 522-2 [2], clause 7.1 An ERDS shall digitally sign all ERD messages
Target	Conformance to ERDS provision
Predicate	The ERD messages are signed by the ERDS
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, ERD message, signature

REMS/SIGNATURE/TA_02	
TA Id	ERDS/SIGNATURE/TA_02
Normative source	ETSI EN 319 522-2 [2], clause 7.1 Each evidence shall be digitally signed as an individual document by the ERDS issuing the evidence, even when the evidence is embedded in a signed ERD message
Target	Conformance to ERDS provision
Predicate	The ERDS individually signs each ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, ERDS evidence, signature

REMS/SIGNATURE/TA_03	
TA Id	ERDS/SIGNATURE/TA_03
Normative source	ETSI EN 319 522-2 [2], clause 7.1 Messages exchanged with the Common Service Interface may be digitally signed; this may apply to both requests and responses
Target	Conformance to ERDS provision
Predicate	The ERDS signs requests messages exchanged with the Common Service Interface
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI, signature

REMS/SIGNATURE/TA_04	
TA Id	ERDS/SIGNATURE/TA_04
Normative source	ETSI EN 319 522-2 [2], clause 7.1 Messages exchanged with the Common Service Interface may be digitally signed; this may apply to both requests and responses.
Target	Conformance to ERDS provision
Predicate	The CSI signs responses messages exchanged with the ERDS
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI, signature

REMS/SIGNATURE/TA_05	
TA Id	ERDS/SIGNATURE/TA_05
Normative source	ETSI EN 319 522-2 [2], clause 7.1 Requirements may exist for digitally signing metadata stored in a CSI metadata repository and for conveying these metadata in their signed form
Target	Conformance to ERDS provision
Predicate	The metadata stored in a CSI is signed
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI, signature

REMS/SIGNATURE/TA_06	
TA Id	ERDS/SIGNATURE/TA_06
Normative source	ETSI EN 319 522-2 [2], clause 7.2 The digital signature should be a CAdES, XAdES or PAdES baseline signature as specified in ETSI EN 319 122-1 [i.2], ETSI EN 319 132-1 [10] and ETSI EN 319 142-1 [i.3]
Target	Conformance to ERDS provision
Predicate	The digital signature is a CAdES, XAdES or PAdES baseline signature as specified in ETSI EN 319 122-1 [i.2], ETSI EN 319 132-1 [10] and ETSI EN 319 142-1 [i.3]
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, CSI, signature

REMS/SIGNATURE/TA_07	
TA Id	ERDS/SIGNATURE/TA_07
Normative source	ETSI EN 319 522-2 [2], clause 7.2 The digital signature may include a signed property containing the explicit identifier of the signature policy governing the signing and/or validating processes
Target	Conformance to ERDS provision
Predicate	The digital signature includes a signed property containing the explicit identifier of the policy governing the signing and/or validating processes
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI, signature

REMS/SIGNATURE/TA_08	
TA Id	ERDS/SIGNATURE/TA_08
Normative source	ETSI EN 319 522-2 [2], clause 7.2 A signature time-stamp should be added to the digital signature of evidence
Target	Conformance to ERDS provision
Prerequisite	The signature signs an ERDS evidence
Predicate	A signature time-stamp is added to the signature
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, CSI, signature

10 Test assertions for Common Services Interface

10.1 Test assertions of BDXL binding for capability metadata location

ERDS/CSI/CAPABILITY/BDXL/TA_01	
TA Id	ERDS/CSI/CAPABILITY/BDXL/TA_01
Normative source	ETSI EN 319 522-4-3 [6], clause 5 The actor identified by the participant identifier is either a recipient or an ERDS, meaning the identified SMP publishes either recipient metadata or ERDS capability metadata as defined by ETSI EN 319 522-2 [2].
Target	Conformance to BDXL binding
Predicate	The SMP publishes either recipient metadata or ERDS capability metadata as defined by ETSI EN 319 522-1 [1]
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, capability metadata location, BDXL

ERDS/CSI/CAPABILITY/BDXL/TA_02	
TA Id	ERDS/CSI/CAPABILITY/BDXL/TA_02
Normative source	ETSI EN 319 522-4-3 [6], clause 5 ERDS metadata is defined as an extension to SMP metadata, meaning that ERDS metadata is also stored in SMP.
Target	Conformance to BDXL binding
Predicate	The SMP stores the ERDS metadata
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, capability metadata location, BDXL

ERDS/CSI/CAPABILITY/BDXL/TA_03	
TA Id	ERDS/CSI/CAPABILITY/BDXL/TA_03
Normative source	ETSI EN 319 522-4-3 [6], clause 5 The identity of an ERDS should be registered in BDXL, i.e. in DNS, by a domain name.
Target	Conformance to BDXL binding
Predicate	The identity of an ERDS is registered in BDXL by a domain name in DNS
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, CSI bindings, capability metadata location, BDXL

ERDS/CSI/CAPABILITY/BDXL/TA_04	
TA Id	ERDS/CSI/CAPABILITY/BDXL/TA_04
Normative source	ETSI EN 319 522-4-3 [6], clause 5 When a recipient subscribes to more than one ERDS using more than one SMP, either: <ul style="list-style-type: none"> the BDXL registration for the recipient shall resolve to one and the same SMP, which in turn may include pointers (SMP redirection) to other SMPs holding information about the recipient; or the recipient identification shall be coupled with a domain, which may be the ERDS name or other information, thereby creating multiple participant identifiers that in BDXL may resolve to URIs for different SMPs
Target	Conformance to BDXL binding
Prerequisite	One recipient subscribes to more than one ERDS using more than one SMP
Predicate	Either the BDXL registration for the recipient resolves to one and the same SMP or the identification of the recipient is coupled with a domain
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, capability metadata location, BDXL

ERDS/CSI/CAPABILITY/BDXL/TA_05	
TA Id	ERDS/CSI/CAPABILITY/BDXL/TA_05
Normative source	ETSI EN 319 522-4-3 [6], clause 5 When a recipient subscribes to more than one ERDS using more than one SMP, either: <ul style="list-style-type: none"> the BDXL registration for the recipient shall resolve to one and the same SMP, which in turn may include pointers (SMP redirection) to other SMPs holding information about the recipient; or the recipient identification shall be coupled with a domain, which may be the ERDS name or other information, thereby creating multiple participant identifiers that in BDXL may resolve to URIs for different SMPs
Target	Conformance to BDXL binding
Prerequisite	One recipient subscribes to more than one ERDS using more than one SMP and the BDXL registration for the recipient resolves to one and the same SMP
Predicate	The SMP contains pointer to other SMPs holding information about the recipient
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI bindings, capability metadata location, BDXL

ERDS/CSI/CAPABILITY/BDXL/TA_06	
TA Id	ERDS/CSI/CAPABILITY/BDXL/TA_06
Normative source	ETSI EN 319 522-4-3 [6], clause 5 When a recipient subscribes to more than one ERDS using more than one SMP, either: <ul style="list-style-type: none"> the BDXL registration for the recipient shall resolve to one and the same SMP, which in turn may include pointers (SMP redirection) to other SMPs holding information about the recipient; or the recipient identification shall be coupled with a domain, which may be the ERDS name or other information, thereby creating multiple participant identifiers that in BDXL may resolve to URIs for different SMPs
Target	Conformance to BDXL binding
Prerequisite	One recipient subscribes to more than one ERDS using more than one SMP and the recipient identification is coupled with a domain
Predicate	The domain is either the ERDS name or other information
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI bindings, capability metadata location, BDXL

10.2 Test assertions of SMP binding for metadata publishing

10.2.1 Test assertions for ERDS capabilities metadata format

10.2.1.1 Test assertions for ERDSMetadata element

ERDS/CSI/PUBLISHING/SMP/CAP_FORMAT/TA_01	
TA Id	ERDS/CSI/PUBLISHING/SMP/CAP_FORMAT/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 6.3.2 ERDS capabilities metadata XML schema
Target	Conformance to SMP binding
Predicate	The content of ERDSMetadata element, in terms of XML children element is as follows: ERDSId ERDSDomain ERDSGoverningBody ERDSProfileSupported ERDSMetadataRepository? ERDSEUQualifiedIndicator? ERDSTLLocation? ERDSRootCACertLocation? ERDSExpiryDateAndTimeSupport ERDSScheduledDeliverySupport ERDSAssuranceLevelsSupported? ERDSPolicySupport? ERDSSupportedConsignmentModes?
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, metadata publishing, SMP

ERDS/CSI/PUBLISHING/SMP/CAP_FORMAT/TA_02	
TA Id	ERDS/CSI/PUBLISHING/SMP/CAP_FORMAT/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 6.3.2 ERDS capabilities metadata XML schema
Target	Conformance to SMP binding
Predicate	The set of attributes (leaving apart the attributes declaring namespaces) of the ERDSMetadata XML element, is as follows: <code>version</code>
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, metadata publishing, SMP

ERDS/CSI/PUBLISHING/SMP/CAP_FORMAT/TA_03	
TA Id	ERDS/CSI/PUBLISHING/SMP/CAP_FORMAT/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 6.3.2 Meta-data documents shall have "EN319522v1.1.1" as value for <code>version</code> attribute
Target	Conformance to SMP binding
Predicate	The value of the <code>version</code> attribute is "EN319522v1.1.1"
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, metadata publishing, SMP

10.2.1.2 Test assertions for ERDSId element

Test assertions defined in clause 5.3 of the present document shall apply.

10.2.1.3 Test assertions for ERDSDomain element

Test assertions defined in clause 5.2.6 of the present document shall apply.

10.2.1.4 Test assertions for ERDSGoverningBody element

Test assertions defined in clause 5.2.6 of the present document shall apply.

10.2.1.5 Test assertions for ERDSProfileSupported element

Test assertions defined in clause 5.2.2 of the present document shall apply.

10.2.1.6 Test assertions for ERDSMetadataRepository element

Test assertions defined in clause 5.2.2 of the present document shall apply.

10.2.1.7 Test assertions for ERDSEUQualifiedIndicator element

Test assertions defined in clause 5.2.8 of the present document shall apply.

10.2.1.8 Test assertions for ERDSTLLocation element

Test assertions defined in clause 5.2.2 of the present document shall apply.

10.2.1.9 Test assertions for ERDSRootCACertLocation element

Test assertions defined in clause 5.2.2 of the present document shall apply.

10.2.1.10 Test assertions for ERDSExpiryDateAndTimeSupport element

Test assertions defined in clause 5.2.8 of the present document shall apply.

10.2.1.11 Test assertions for ERDSScheduledDeliverySupport element

Test assertions defined in clause 5.2.8 of the present document shall apply.

10.2.1.12 Test assertions for ERDSAssuranceLevelsSupported element

Test assertions defined in clause 5.4 of the present document shall apply.

10.2.1.13 Test assertions for ERDSPolicySupport element

Test assertions defined in clause 5.6 of the present document shall apply.

10.2.1.14 Test assertions for ERDSSupportedConsignmentModes element

Test assertions defined in clause 7.15 of the present document shall apply.

10.2.2 Test assertions for metadata publishing

ERDS/CSI/PUBLISHING/SMP/TA_01	
TA Id	ERDS/CSI/PUBLISHING/SMP/TA_01
Normative source	ETSI EN 319 522-3 [3], clause 6.3.2 For ERDSMetadata as an extension to SMP, the following values shall be used for identification of the extension and the responsible agency: ExtensionID: "ERDSMetadata" ExtensionName: "ERDSMetadata" ExtensionAgencyID: "ETSI" ExtensionAgencyName: "European Telecommunications Standards Institute" ExtensionAgencyURI: "http://www.etsi.org" ExtensionVersionID: Same as version attribute of the ERDS metadata ExtensionURI: "http://uri.etsi.org/19522/v1#ERDSMetadata" ExtensionReasonCode: "ERDSMetadata" ExtensionReason: "Publish capability metadata for an Electronic Registered Delivery Service"
Target	Conformance to SMP binding The ERDSMetadata is used as an extension to SMP
Predicate	The following values are used: ExtensionID: "ERDSMetadata" ExtensionName: "ERDSMetadata" ExtensionAgencyID: "ETSI" ExtensionAgencyName: "European Telecommunications Standards Institute" ExtensionAgencyURI: "http://www.etsi.org" ExtensionVersionID: Same as version attribute of the ERDS metadata ExtensionURI: "http://uri.etsi.org/19522/v1#ERDSMetadata" ExtensionReasonCode: "ERDSMetadata" ExtensionReason: "Publish capability metadata for an Electronic Registered Delivery Service"
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI bindings, metadata publishing, SMP

ERDS/CSI/PUBLISHING/SMP/TA_02	
TA Id	ERDS/CSI/PUBLISHING/SMP/TA_02
Normative source	ETSI EN 319 522-3 [3], clause 6 If more than one ServiceMetadata resource exists (...) selection shall be based on document identifier and/or process identifier
Target	Conformance to SMP binding
Prerequisite	There are more than one resource with service metadata
Predicate	The selection is done based on the document identifier and/or the process identifier
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, CSI bindings, metadata publishing, SMP

ERDS/CSI/PUBLISHING/SMP/TA_03	
TA Id	ERDS/CSI/PUBLISHING/SMP/TA_03
Normative source	ETSI EN 319 522-3 [3], clause 6 A service in the SMP data model is a URL, which in the context of the present document is the ERDS RI to which the ERD message shall be routed
Target	Conformance to SMP binding
Predicate	The ERDS RI where the ERD message is routed to is identified by an URL
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, CSI bindings, metadata publishing, SMP

10.3 Test assertions for trust information binding

ERDS/CSI/TRUST/TA_01	
TA Id	ERDS/CSI/TRUST/TA_01
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 An ERDS that has been granted status as a qualified trust service according to Regulation (EU) No 910/2014, i.e. the service is a QERDS, shall be listed in the EU Trusted List system established in accordance with article 22 of Regulation (EU) No 910/2014 [i.4]
Target	Conformance to CSI Trust information
Prerequisite	An ERDS that has been granted status as a qualified trust service according to Regulation (EU) No 910/2014 [i.4]
Predicate	The ERDS service is listed in the EU Trusted List system established in accordance with article 22 of Regulation (EU) No 910/2014
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_02	
TA Id	ERDS/CSI/TRUST/TA_02
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 The following service type identifiers URLs are supported for a (Q)ERDS according to ETSI TS 119 612 [i.5]
Target	Conformance to CSI Trust information
Prerequisite	An ERDS or a QERDS is listed in the EU Trusted List system
Predicate	The service type identifier component is present in the Trusted List
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_03	
TA Id	ERDS/CSI/TRUST/TA_03
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 The following service type identifiers URLs are supported for a (Q)ERDS according to ETSI TS 119 612 [i.5]: <ul style="list-style-type: none"> • http://uri.etsi.org/TrstSvc/Svctype/EDS/Q • http://uri.etsi.org/TrstSvc/Svctype/EDS
Target	Conformance to CSI Trust information
Prerequisite	A non-Qualified ERDS is listed in an EU Trusted List
Predicate	The value of the service type identifier component is http://uri.etsi.org/TrstSvc/Svctype/EDS
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_04	
TA Id	ERDS/CSI/TRUST/TA_04
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 The following service type identifiers URLs are supported for a (Q)ERDS according to ETSI TS 119 612 [i.5]: <ul style="list-style-type: none"> • http://uri.etsi.org/TrstSvc/Svctype/EDS/Q • http://uri.etsi.org/TrstSvc/Svctype/EDS
Target	Conformance to CSI Trust information
Prerequisite	A Qualified ERDS is listed in an EU Trusted List
Predicate	The value of the service type identifier component is http://uri.etsi.org/TrstSvc/Svctype/EDS/Q
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_05	
TA Id	ERDS/CSI/TRUST/TA_05
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 The service digital identity element (<code>tsl:ServiceDigitalIdentity/tsl:DigitalId</code>) of a (Q)ERDS in the EU Trusted List system shall be one of the following: <ul style="list-style-type: none"> • A single certificate used by the ERDS for digital signing of all ERD messages and ERD evidences • A single CA certificate that shall be used solely for the purpose of issuing certificates to components of the ERDS for digital signing of ERD messages and/or ERD evidences
Target	Conformance to CSI Trust information
Prerequisite	A (Q)ERDS is listed in an EU Trusted List
Predicate	The service digital identity contains a certificate
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_06	
TA Id	ERDS/CSI/TRUST/TA_06
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 Use of a single signing certificate as service digital identity is only applicable where the ERDS is a centralized service, or where it is feasible to replicate the private key corresponding to the certificate to all components of the ERDS where digital signing will take place
Target	Conformance to CSI Trust information
Prerequisite	A (Q)ERDS is listed in an EU Trusted List AND <ul style="list-style-type: none"> • the ERDS is centralized; OR • it is feasible to replicate the private key corresponding to the certificate to all components of the ERDS where digital signing will take place
Predicate	The service digital identity contains a non-CA certificate
Prescription level	OPTIONAL
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_07	
TA Id	ERDS/CSI/TRUST/TA_07
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 The service digital identity element (<code>tsl:ServiceDigitalIdentity/tsl:DigitalId</code>) of a (Q)ERDS in the EU Trusted List system shall be one of the following: <ul style="list-style-type: none"> • A single certificate used by the ERDS for digital signing of all ERD messages and ERD evidences • A single CA certificate that shall be used solely for the purpose of issuing certificates to components of the ERDS for digital signing of ERD messages and/or ERD evidences
Target	Conformance to CSI Trust information
Prerequisite	A (Q)ERDS is listed in an EU Trusted List AND the service digital identity contains a non-CA certificate
Predicate	The service digital identity contains the single certificate used by the ERDS for digital signing of all ERD messages and ERD evidences
Prescription level	OPTIONAL
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_08	
TA Id	ERDS/CSI/TRUST/TA_08
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 The service digital identity element (<code>tsl:ServiceDigitalIdentity/tsl:DigitalId</code>) of a (Q)ERDS in the EU Trusted List system shall be one of the following: <ul style="list-style-type: none"> • A single certificate used by the ERDS for digital signing of all ERD messages and ERD evidences • A single CA certificate that shall be used solely for the purpose of issuing certificates to components of the ERDS for digital signing of ERD messages and/or ERD evidences
Target	Conformance to CSI Trust information
Prerequisite	A (Q)ERDS is listed in an EU Trusted List and the service digital identity contains a CA certificate
Predicate	The service digital identity contains the CA certificate that is used solely for issuing certificates to components of the ERDS for digital signing of ERD messages and/or ERD evidences
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

ERDS/CSI/TRUST/TA_09	
TA Id	ERDS/CSI/TRUST/TA_09
Normative source	ETSI EN 319 522-4-3 [6], clause 7.2 All subject certificates issued under this CA (the one whose certificate appears in the service digital identity component of the Trusted List) are authorized to sign ERD messages and ERD evidences on behalf of the ERDS
Target	Conformance to CSI Trust information
Prerequisite	A (Q)ERDS is listed in an EU Trusted List and the service digital identity contains a CA certificate
Predicate	Any signature generated with the private key corresponding to a certificate whose subject has a path to that CA certificate is considered generated on behalf of the ERDS
Prescription level	Mandatory
Tag	Conformance, QERDS, ERDSP, CSI bindings, trust information, Trusted List

11 Test assertions for provision of the service

11.1 Introduction

The present 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

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_01	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_01
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (A.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 acceptance
Prerequisite	Sender has submitted the user content to the S-ERDS and it has accepted submission
Predicate	The S-ERDS issues a compliant SubmissionAcceptance ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_02	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_02
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (A.2) 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 acceptance
Prerequisite	Sender has submitted the user content to the S-ERDS and it has rejected submission
Predicate	The S-ERDS issues a compliant SubmissionRejection ERDS evidence identifying the reason for rejection
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_03	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_03
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (B.1) Generation of RelayAcceptance ERDS evidence following the acceptance of the relaying of a ERDS message requested by another ERDS is Mandatory
Target	Conformance to generation of ERDS evidence following acceptance of relaying
Prerequisite	Another ERDS has relayed a ERDS message to the ERDS and it has accepted relaying it
Predicate	The ERDS issues a compliant RelayAcceptance ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_04	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_04
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (B.2) Generation of RelayRejection ERDS evidence following the rejection of the relaying of a ERDS message requested by another ERDS is Mandatory
Target	Conformance to generation of ERDS evidence following rejection of relaying
Prerequisite	Another ERDS has relayed a ERDS message to the ERDS and it has rejected relaying it
Predicate	The ERDS issues a compliant RelayRejection ERDS evidence identifying the reason for rejection
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_05	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_05
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (B.3) Generation of RelayFailure ERDS evidence following failure of the relaying of a ERDS message requested by another ERDS is Mandatory
Target	Conformance to generation of ERDS evidence following failure of relaying
Prerequisite	Another ERDS has relayed a ERDS message to the ERDS and it has failed when it tried to relay it
Predicate	The ERDS issues a compliant RelayFailure ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_06	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_06
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (C.1) Generation of NotificationForAcceptance ERDS evidence following the successful issuance of a notification requesting the acceptance of a message to a recipient at a specific time as indicated by the evidence, is recommended
Target	Conformance to generation of ERDS evidence following successful issuance of a notification for acceptance
Prerequisite	The ERDS has successfully sent a notification for acceptance
Predicate	The ERDS issues a compliant NotificationForAcceptance ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_07	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_07
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (C.2) Generation of NotificationForAcceptanceFailure ERDS evidence following the unsuccessful issuance of a notification requesting the acceptance of a message to the specified recipient after a certain number of attempts or a timeout as specified by the applicable policies, is recommended
Target	Conformance to generation of ERDS evidence following unsuccessful issuance of a notification for acceptance
Prerequisite	The ERDS has failed in sending a notification for acceptance
Predicate	The ERDS issues a compliant NotificationForAcceptanceFailure ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_08	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_08
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (C.3) 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 recipient has accepted consignment
Predicate	The ERDS issues a compliant ConsignmentAcceptance ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_09	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_09
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (C.4) 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 recipient has rejected consignment.
Predicate	The ERDS issues a compliant ConsignmentRejection ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_10	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_10
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (C.5) 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 recipient has not reacted to a notification for acceptance before the expiration time assigned to that notification
Predicate	The ERDS issues a compliant AcceptancetRejectionExpiry ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_11	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_11
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (C.6) Generation of NotificationDelivered 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 the successful notification to the recipient about the availability of a message
Prerequisite	The ERDS has successfully submitted a notification of availability of a message to the recipient
Predicate	The ERDS issues a compliant NotificationDelivered ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_12	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_12
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (D.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 ERDS has successfully consigned the user content
Predicate	The ERDS issues a compliant ContentConsignment ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_13	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_13
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (D.2) 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 ERDS has failed in consigning the user content
Predicate	The ERDS issues a compliant ContentConsignmentFailure ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_14	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_14
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (D.3) Generation of ConsignmentNotification ERDS evidence following the successful submission of a notification for consignment, is recommended
Target	Conformance to generation of ERDS evidence following successful submission of a notification for consignment
Prerequisite	The ERDS has successfully submitted a notification for consignment
Predicate	The ERDS issues a compliant ConsignmentNotification ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_15	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_15
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (D.4) Generation of ConsignmentNotificationFailure ERDS evidence following failure in the submission of a notification for consignment, is recommended
Target	Conformance to generation of ERDS evidence following unsuccessful submission of a notification for consignment
Prerequisite	The ERDS has failed in submitting a notification for consignment
Predicate	The ERDS issues a compliant ConsignmentNotificationFailure ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_16	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_16
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (D.5) Generation of NotificationAccessTracking ERDS evidence following the access by the recipient to a notification sent to the recipient
Target	Conformance to generation of ERDS evidence following submission of a notification
Prerequisite	The ERDS has submitted a notification
Predicate	The ERDS issues a compliant NotificationAccessTracking ERDS evidence
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_17	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_17
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (D.6) Generation of ContentAccessTracking ERDS evidence following the submission of a notification, is optional
Target	Conformance to generation of ERDS evidence following the access to the user content by the recipient
Prerequisite	The recipient has accessed to the user content
Predicate	The ERDS issues a compliant ContentAccessTracking ERDS evidence
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_18	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_18
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (E.1) Generation of ContentHandover ERDS evidence following the successful handing over of the user content is conditioned
Target	Conformance to generation of ERDS evidence following successful handing of the user content
Prerequisite	The ERDS has successfully handed over the user content and did not consigned it
Predicate	The ERDS issues a compliant ContentHandover ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_19	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_19
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (E.1) Generation of ContentHandover ERDS evidence following the successful handing over of the user content is conditioned
Target	Conformance to generation of ERDS evidence following successful handing of the user content
Prerequisite	The ERDS has successfully handed over the user content and also did consign it
Predicate	The ERDS issues a compliant ContentHandover ERDS evidence
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_20	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_20
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (E.2) Generation of ContentHandoverFailure ERDS evidence following the unsuccessful handing over of the user content is conditioned
Target	Conformance to generation of ERDS evidence following unsuccessful handing over of the user content
Prerequisite	The ERDS has failed in handing over the user content and ERDS did not try to consign it.
Predicate	The ERDS issues a compliant ContentHandoverFailure ERDS evidence
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_21	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_21
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (E.2) Generation of ContentHandoverFailure ERDS evidence following the unsuccessful handing over of the user content is conditioned
Target	Conformance to generation of ERDS evidence following unsuccessful handing over of the user content
Prerequisite	The ERDS has failed in handing over the user content and ERDS did try to consign it
Predicate	The ERDS issues a compliant ContentHandoverFailure ERDS evidence
Prescription level	Optional
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_22	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_22
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (F.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 ERDS has relayed the user content to a non ERDS system
Predicate	The ERDS issues a compliant RelayToNonERDS ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_23	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_23
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (F.2) 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 ERDS has failed in relaying the user content to a non ERDS system
Predicate	The ERDS issues a compliant RelayToNonERDSFailure ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

ERDS/SERV_PROV/ERDS_EVID_GEN/TA_24	
TA Id	ERDS/SERV_PROV/ERDS_EVID_GEN/TA_24
Normative source	ETSI EN 319 522-1 [1], clause 6.1 (F.3) 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 ERDS has received a message from a non ERDS system
Predicate	The ERDS issues a compliant ReceivedFromNonERDS ERDS evidence
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS evidence

11.3 Test assertions on ERDS interfaces

11.3.1 Introduction

Clause 11.3 defines test assertions on ERDS interfaces. Clause 11.3.2 defines test assertions for testing security measures implemented in ERDS interfaces. Clause 11.3.3 defines test assertions for testing the provision of the ERDS interfaces.

11.3.2 Security measures on ERDS interfaces

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_01	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_01
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (MSI: Message Submission Interface) shall require authentication (...) preserving measures.
Target	Conformance to security requirements in interfaces
Predicate	The ERDS ensures authentication for interactions through the Message Submission Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_02	
TA Id	ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_02
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (MERI: Message and Evidence Retrieval Interface) shall require authentication (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS ensures authentication for interactions through the Message and Evidence Retrieval Interface.
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_03	
TA Id	ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_03
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (ERD-UA MEPI: Message and Evidence Push Interface) shall implement authentication (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS ensures authentication for interactions through the Message and Evidence Push Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_04	
TA Id	ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_04
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (ERDS RI: Relay Interface) shall implement authentication (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS ensures authentication for interactions through the Relay Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, authentication

ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_05	
TA Id	ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_05
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (MSI: Message Submission Interface) shall implement confidentiality (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving confidentiality through the Message Submission Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, confidentiality

ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_06	
TA Id	ERDS/SERV_PROV/INTERFACE/SEC_MEAS/TA_06
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (MERI: Message and Evidence Retrieval Interface) shall implement confidentiality (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving confidentiality through the Message and Evidence Retrieval Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, confidentiality

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_07	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_07
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (ERD-UA MEPI: Message and Evidence Push Interface) shall implement confidentiality (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving confidentiality through the Message and Evidence Push Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, confidentiality

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_08	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_08
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (ERDS RI: Relay Interface) shall implement confidentiality (...) preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving confidentiality through the Relay Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, confidentiality

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_09	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_09
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (MSI: Message Submission Interface) shall implement integrity preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving integrity through the Message Submission Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, integrity

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_10	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_10
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (MERI: Message and Evidence Retrieval Interface) shall implement integrity preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving integrity through the Message and Evidence Retrieval Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, integrity

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_11	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_11
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (ERD-UA MEPI: Message and Evidence Push Interface) shall implement integrity preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving integrity through the Message and Evidence Push Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, integrity

ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_12	
TA Id	ERDS/SERV_PROV/INTFACE/SEC_MEAS/TA_12
Normative source	ETSI EN 319 522-1 [1], clause 5 This interface (ERDS RI: Relay Interface) shall implement integrity preserving measures
Target	Conformance to security requirements in interfaces
Predicate	The ERDS implements measures for preserving integrity through the Relay Interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, integrity

11.3.3 Test assertions on provision of ERDS interfaces

ERDS/SERV_PROV/INTFACE/PROV/TA_01	
TA Id	ERDS/SERV_PROV/INTFACE/PROV/TA_01
Normative source	ETSI EN 319 522-1 [1], clause 5 The ERDS MSI shall be provided
Target	Conformance to security requirements in interfaces
Predicate	The ERDS provides the ERDS MSI interface
Prescription level	Mandatory
Tag	Conformance, ERDS, ERDSP, service provision, ERDS interfaces

ERDS/SERV_PROV/INTFACE/PROV/TA_02	
TA Id	ERDS/SERV_PROV/INTFACE/PROV/TA_02
Normative source	ETSI EN 319 522-1 [1], clause 5 An ERDS shall implement (...) either ERDS MERI or ERDS UA-MEPI (or both)
Target	Conformance to security requirements in interfaces
Predicate	The ERDS provides either the ERDS MERI interface, or ERDS UA-MEPI or both
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS interfaces

ERDS/SERV_PROV/INTFACE/PROV/TA_03	
TA Id	ERDS/SERV_PROV/INTFACE/PROV/TA_03
Normative source	ETSI EN 319 522-1 [1], clause 5 The ERDS RI should be provided
Target	Conformance to security requirements in interfaces
Predicate	The ERDS provides the ERDS RI interface
Prescription level	Recommended
Tag	Conformance, ERDS, ERDSP, service provision, ERDS interfaces

Annex A (informative): Change History

Date	Version	Information about changes
February 2019	1.1.1	Publication as ETSI TS 119 524-1.
April 2023	1.1.2	Early draft - update version 1.1.1 with resolutions to part of the comments received from stakeholders on version 1.1.1
October 2023	1.1.3	Final draft for TS Approval. This version includes the implementation of resolutions to all the comments received to versions v1.1.1 and v1.1.2. Of important relevance are test assertions derived from the definition of three new events and their corresponding ERDS evidence in ETSI EN 319 522-1 clause 6, namely: NotificationDelivered (C.6), NotificationAccessTracking (D.5), and ContentAccessTracking (D.6)
October 2023	1.1.4	Final draft for TS Approval. Correct reference to the WorkItem. Fixed some editorial bugs

History

Document history		
V1.1.1	February 2019	Publication
V1.2.1	December 2023	Publication