



TECHNICAL SPECIFICATION

**Electronic Signatures and Infrastructures (ESI);
Associated Signature Containers (ASiC) -
Testing Conformance and Interoperability;
Part 2: Test suites for testing interoperability
of ASiC baseline containers**

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 2 of a multi-part deliverable covering Associated Signature Containers (ASiC) - Testing Conformance and Interoperability. Full details of the entire series can be found in part 1 [i.2].

Modal verbs terminology

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

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

1 Scope

The present document defines a number of test suites to assess the interoperability between implementations claiming conformance to ASiC baseline containers as specified in ETSI EN 319 162-1 [1].

The test suites are defined with four different layers reflecting the four different levels of ASiC baseline containers.

- Tests suite addressing interoperability between applications claiming B-B level conformance.
- Tests suite addressing interoperability between applications claiming B-T level conformance.
- Tests suite addressing interoperability between applications claiming B-LT level conformance.
- Tests suite addressing interoperability between applications claiming B-LTA level conformance.
- Test suites also cover augmentation of ASiC baseline containers and negative test cases.

These test suites are agnostic of the PKI infrastructure. Any PKI infrastructure can be used including the one based on EU Member States Trusted Lists.

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 <http://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 319 162-1: "Electronic Signatures and Infrastructures (ESI); Associated Signature Containers (ASiC); Part 1: Building blocks and ASiC baseline containers".
- [2] ETSI EN 319 122-1: "Electronic Signatures and Infrastructures (ESI); CAAdES digital signatures; Part 1: Building blocks and CAAdES baseline signatures".
- [3] ETSI EN 319 132-1: "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures; Part 1: Building blocks and XAdES baseline signatures".
- [4] ETSI TS 119 124-2: "Electronic Signatures and Infrastructures (ESI); CAAdES digital signatures - Testing Conformance and Interoperability; Part 2: Test suites for testing interoperability of CAAdES baseline signatures".
- [5] ETSI TS 119 134-2: "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures - Testing Conformance and Interoperability; Part 2: Test suites for testing interoperability of XAdES baseline signatures".
- [6] ISO/IEC 21320-1: "Information technology -- Document Container File -- Part 1: Core".

2.2 Informative references

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

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

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

- [i.1] ETSI TR 119 001: "Electronic Signatures and Infrastructures (ESI); The framework for standardization of signatures; Definitions and abbreviations".
- [i.2] ETSI TR 119 164-1: "Electronic Signatures and Infrastructures (ESI); Associated Signature Containers (ASiC) - Testing Conformance and Interoperability; Part 1: Overview".
- [i.3] ETSI EN 319 102-1: "Electronic Signatures and Infrastructures (ESI); Procedures for Creation and Validation of AdES Digital Signatures; Part 1: Creation and Validation".
- [i.4] ETSI EN 319 122-1: "Electronic Signatures and Infrastructures (ESI); CAAdES digital signatures; Part 1: Building blocks and CAAdES baseline signatures".
- [i.5] ETSI EN 319 132-1: "Electronic Signatures and Infrastructures (ESI); XAdES digital signatures; Part 1: Building blocks and XAdES baseline signatures".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ETSI TR 119 001 [i.1] and the following apply:

negative test case: test case either for a container including signature(s) that are not CAAdES baseline signatures [i.4] or XAdES baseline signatures [i.5], or for a signature whose validation according to ETSI EN 319 102-1 [i.3] would not result in TOTAL_PASSED

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TR 119 001 [i.1] and the following apply:

BCS	Baseline Container Structure
BSC	Baseline Syntactical Conformance
STV	Signature Time-stamp token Value
TC	Test Case

4 ASiC baseline container interoperability test specification overview

This clause describes the overall approach used to specify test suites for ASiC baseline containers interoperability testing.

ETSI EN 319 162-1 [1] defines different forms and, for each, four levels of ASiC baseline containers.

The test suites are defined with different forms and layers reflecting the ASiC baseline containers specified in [1] and, for the signature test suites, reference to the appropriate CAdES test suites ETSI TS 119 124-2 [4] and XAdES test suites ETSI TS 119 134-2 [5] is made:

- Testing ASiC-S and ASiC-E containers interoperability between applications claiming B-B level conformance.
- Testing ASiC-S and ASiC-E containers interoperability between applications claiming B-T level conformance.
- Testing ASiC-S and ASiC-E containers interoperability between applications claiming B-LT level conformance.
- Testing ASiC-S and ASiC-E containers interoperability between applications claiming B-LTA level conformance.
- Testing augmentation of ASiC containers from B-T level to B-LTA level.
- Negative test cases for ASiC-S and ASiC-E baseline containers:
 - ASiC B-B level containers test cases.
 - ASiC B-T level containers test cases.
 - ASiC B-LTA level containers test cases.

5 Test suite for testing interoperability of ASiC-S baseline containers

5.1 Introduction to testing ASiC-S baseline containers

In clause 5 all the ASiC-S test cases necessary for testing conformance to each baseline level are specified.

In clause 5.2 the test cases common to all ASiC-S forms and levels are specified. In clauses 5.3 and 5.4 the test cases for each level are specified.

5.2 Test cases common to all ASiC-S forms and levels

The test cases common to all ASiC-S baseline containers are specified in Table 1.

Table 1: Test cases common to all ASiC-S baseline containers

TC ID	Description	Pass criteria	Interop. Level
ASiC-S/BCS/1	This test case tests if the container ZIP format is correct.	The container content shall comply with ISO/IEC 21320-1 [6] and be successfully extracted.	Baseline Container Structure
ASiC-S/BCS/2	Verify if the container format is identifiable.	The container extension shall be ".asics".	Baseline Container Structure
ASiC-S/BCS/3	mimetype is set appropriately. Prerequisites: <ul style="list-style-type: none"> • ASiC-S/BCS/1 and ASiC-S/BCS/2 passed; • mimetype is present. 	mimetype value shall comply with ASiC [1], clauses 4.3.3.1, point 2) b) and A.1.	Baseline Container Structure
ASiC-S/BCS/4	This test case tests that a signature is present in the container.	A META-INF folder in the root folder shall be present and contain one signature.p7s file (ASiC [1], clause 4.3.3.2 item 3b) or signatures.xml file (ASiC [1], clause 4.3.3.2, item 3c).	Baseline Container Structure
ASiC-S/BCS/5	Presence of the signed file.	A single file, in addition to the optional mimetype, shall be present in the root folder.	Baseline Container Structure

5.3 Test cases for ASiC-S baseline containers with CAdES signatures

5.3.1 Positive test cases

The test cases for ASiC-S with CAdES containers shall be as specified in Table 2. The test cases specified in clause 5.1 and the presence of signature.p7s file ASiC [1], clause 4.3.3.2 item 3b) are a prerequisite.

Table 2: Test cases for all ASiC-S baseline container levels with CAdES signatures

TC ID	Description	Pass criteria
ASiC-S/CBB	This group of test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BB/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 5.	All the CAdES/BB/* test cases in ASiC-S/CBB shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 5.
ASiC-S/CBT	This group of test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BT/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 6.	All the CAdES/BT/* test cases in ASiC-S/CBT shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 6.
ASiC-S/CBLT	This group of test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BLT/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 7.	All the CAdES/BLT/* test cases in ASiC-S/CBLT shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 7.
ASiC-S/CBLTA	This group of test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BLTA/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 8.	All the CAdES/BLTA/* test cases in ASiC-S/CBLTA shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 8.

5.3.2 Negative test cases for ASiC-S baseline containers with CAdES signatures

The test cases in this clause are specified in table 3 and have been defined according to ETSI TS 119 124-2 [4], clause 10.

Table 3: Negative test cases for all ASiC-S baseline container levels with CAdES signatures

TC ID	Description	Pass criteria
ASiC-S/CBBN	This group of negative test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BBN/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.2.	All the CAdES/BB/* test cases in ASiC-S/CBB shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.2.
ASiC-S/CBTN	This group of test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BTN/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.3.	All the CAdES/BT/* test cases in ASiC-S/CBT shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.3.
ASiC-S/CBLTAN	This group of test cases tests a set of ASiC-S container including each a signature created according to all the CAdES/BLTAN/* test cases defined in the Test suites for testing interoperability of CAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.4.	All the CAdES/BLTA/* test cases in ASiC-S/CBLTA shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.4.

5.4 Test cases for ASiC-S baseline containers with XAdES signatures

5.4.1 Positive test cases

The test cases for ASiC-S with XAdES containers shall be as specified in Table 4. The test cases specified in clause 5.2 and the presence of signatures.xml file ASiC [1], clause 4.3.3.2 item 3c) are a prerequisite.

Table 4: Test cases for all ASiC-S baseline container levels with XAdES signatures

TC ID	Description	Pass criteria
ASiC-S/XBB	This group of test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BB/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 134-2 [5], clause 5 signing one data object. Test cases where more than one data object is signed shall not be included.	All the XAdES/BB/* test cases in ASiC-S/XBB shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 5.
ASiC-S/XBT	This group of test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BT/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 134-2 [5], clause 6 signing one data object. Test cases where more than one data object is signed shall not be included.	All the XAdES/BT/* test cases in ASiC-S/XBT shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 6.
ASiC-S/XBLT	This group of test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BLT/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 134-2 [5], clause 7 signing one data object. Test cases where more than one data object is signed shall not be included.	All the XAdES/BLT/* test cases in ASiC-S/XBLT shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 7.
ASiC-S/XBLTA	This group of test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BLTA/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 134-2 [5], clause 8 signing one data object. Test cases where more than one data object is signed shall not be included.	All the XAdES/BLTA/* test cases in ASiC-S/XBLTA shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 8.

5.4.2 Negative test cases for ASiC-S baseline containers with XAdES signatures

The test cases in this clause are specified in table 5 and have been defined according to ETSI TS 119 134-2 [5], clause 11.

Table 5: Negative test cases for all ASiC-S baseline container levels with XAdES signatures

TC ID	Description	Pass criteria
ASiC-S/XBBN	This group of negative test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BBN/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.2.	All the XAdES/BB/* test cases in ASiC-S/CBB shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.2.
ASiC-S/XBTN	This group of test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BTN/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.3.	All the XAdES/BT/* test cases in ASiC-S/CBT shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.3.
ASiC-S/XBLTAN	This group of test cases tests a set of ASiC-S container including each a signature created according to all the XAdES/BLTAN/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.4.	All the XAdES/BLTA/* test cases in ASiC-S/CBLTA shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.4.

6 Test suite for testing interoperability of ASiC-E baseline containers

6.1 Introduction to testing ASiC-E baseline containers

In clause 6 all the ASiC-E test cases necessary for testing conformance to each baseline level are specified.

In clause 6.2 the test cases common to all ASiC-E forms and levels are specified. In clauses 6.2 and 6.3 the test cases for each level are specified.

NOTE: Only a single baseline container type is defined for ASiC-E in the current version of ASiC [1]. The present document is already structured to accommodate additional baseline containers in case they will be added.

6.2 Test cases common to all ASiC-E forms and levels

The test cases common to all ASiC-E baseline containers are specified in Table 6.

Table 6: Test cases common to all ASiC-E baseline containers for testing the Container Structure

TC ID	Description	Pass criteria
ASiC-E/BCS/1	This test case tests if the container ZIP format is correct.	The container content shall comply with ISO/IEC 21320-1 [6] and be successfully extracted.
ASiC-E/BCS/2	Verify if the container format is identifiable.	The container extension shall be ".asice"
ASiC-E/BCS/3	mimetype is set appropriately. Prerequisites: <ul style="list-style-type: none"> ASiC-E/BCS/1 and ASiC-E/BCS/2 passed; mimetype is present. 	mimetype value shall comply with ASiC [1], clauses 4.4.3.1, item 2) and A.1.
ASiC-E/BCS/4	Test if signature metadata is present.	META-INF folder in the root folder contains one or more *signatures*.xml file.
ASiC-E/BCS/5	Presence of the signed file.	One or more files, in addition to the optional mimetype, shall be present in the container outside of the META-INF folder.

6.3 Test cases for ASiC-E baseline containers with XAdES signatures

6.3.1 Positive test cases

The test cases for ASiC-E with XAdES containers are specified in Table 7 in relation to the syntactical conformance of the container and in Table 6 for the conformance of the XAdES signatures. The test cases specified in clause 6.2 are a prerequisite.

Table 7: Test cases for testing the syntactical conformance of ASiC-E baseline containers with XAdES signatures

TC ID	Description	Pass criteria
ASiC-E/BSC/X1	Test if XAdES signature files are conformant.	META-INF folder in the root folder contains one or more *signatures*.xml whose content shall be compliant with ASiC [1], clause 4.4.3.2, item 2 and item 3a.
ASiC-E/BSC/X2	Test if data objects referenced in XAdES signature files are present.	XAdES signature present in one or more *signatures*.xml files shall reference only data objects present in the container.
ASiC-E/BSC/X3	Test if manifest.xml is conformant.	META-INF/ manifest.xml shall be present and compliant with ASiC [1], clause 4.4.3.2, item 5b.
ASiC-E/BSC/X4	Test if mime types present in manifest.xml file are coherent with referenced objects.	All media types associated to files referenced by manifest.xml file shall be coherent with the media type of the referenced objects.

The test cases specified in Table 7 shall be repeated with different input containers including at least one with a single signature file and one with more than one.

Table 8 specifies the test cases for the signatures of ASiC-E baseline containers with XAdES signatures. The containers used to perform the test shall include:

- a) one or more XAdES signatures signing one file present in the container, and/or
- b) one or more XAdES signatures signing two files present in the container.

Different XAdES signatures may be present in the same container they shall be of the same baseline level and shall be created according to the test suites for testing interoperability of XAdES baseline signatures specified in ETSI TS 119 134-2 [5] using signatures as described in the item a) above for the test cases that require the signature of single data object and as per item b) for test cases requiring the signature of two data objects and according to the requirements present in Table 8.

Table 8: Test cases for testing the signatures of ASiC-E baseline containers with XAdES signatures

TC ID	Description	Pass criteria
ASiC-E/XBB	This group of test cases tests the signatures present in one or more ASiC-E containers with XAdES signatures that shall be created according to the XAdES/BB/* test cases defined in ETSI TS 119 134-2 [5], clause 5.	All the XAdES/BB/* test cases in ASiC-S/XBB shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 5.
ASiC-E/XBT	This group of test cases tests the signatures present in one or more ASiC-E containers with XAdES signatures that shall be created according to the XAdES/BB/* test cases defined in ETSI TS 119 134-2 [5], clause 6.	All the XAdES/BT/* test cases in ASiC-S/XBT shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 6.
ASiC-E/XBLT	This group of test cases tests the signatures present in one or more ASiC-E containers with XAdES signatures that shall be created according to the XAdES/BB/* test cases defined in ETSI TS 119 134-2 [5], clause 7.	All the XAdES/BLT/* test cases in ASiC-S/XBLT shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 7.

TC ID	Description	Pass criteria
ASiC-E/XBLTA	This group of test cases tests the signatures present in one or more ASiC-E containers with XAdES signatures that shall be created according to the XAdES/BB/* test cases defined in ETSI TS 119 134-2 [5], clause 8.	All the XAdES/BLTA/* test cases in ASiC-S/XBLTA shall be passed according to the criteria specified in ETSI TS 119 134-2 [5], clause 8.

For each baseline level (a row of Table 8) one or more containers shall include all the signatures needed to have a full coverage of all the test cases defined for that level.

6.3.2 Negative test cases for ASiC-E baseline containers with XAdES signatures

The test cases in this clause are specified in table 9 and have been defined according to ETSI TS 119 134-2 [5], clause 10.

Table 9: Negative test cases for all ASiC-E baseline container levels with XAdES signatures

TC ID	Description	Pass criteria
ASiC-E/XBBN	This group of negative test cases tests a set of ASiC-E container including each a signature created according to all the XAdES/BBN/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.2.	All the XAdES/BB/* test cases in ASiC-E/CBB shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.2.
ASiC-E/XBTN	This group of test cases tests a set of ASiC-E container including each a signature created according to all the XAdES/BTN/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.3.	All the XAdES/BT/* test cases in ASiC-E/CBT shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.3.
ASiC-E/XBLTAN	This group of test cases tests a set of ASiC-E container including each a signature created according to all the XAdES/BLTAN/* test cases defined in the Test suites for testing interoperability of XAdES baseline signatures ETSI TS 119 124-2 [4], clause 10.4.	All the XAdES/BLTA/* test cases in ASiC-E/CBLTA shall be passed according to the criteria specified in ETSI TS 119 124-2 [4], clause 10.4.

7 Test-suite for augmentation of ASiC baseline containers

Augmentation tests cases can be performed according to clause 9 of ETSI TS 119 124-2 [4] for containers including CAdES signatures and to clause 9 of ETSI TS 119 134-2 [5] for containers including XAdES signatures.

To perform this test ASiC baseline containers conformant to B-T level as generated for the test case ASiC-S/CBT, ASiC-S/XBT or ASiC-E/XBT that include B-T level baseline signatures shall be augmented to B-LTA level baseline signatures according the test cases specified in ETSI TS 119 124-2 [4], clause 9 table 5 for CAdES signatures or specified in ETSI TS 119 134-2 [5], clause 9 table 6 for XAdES signatures, specifying which properties are required to augment the B-T level baseline signatures.

Annex A (informative): Bibliography

- OASIS "Test Assertions Guidelines Version 1.0", Committee Specification Draft 06/Public Review Draft 03, 15 August 2011.
- ETSI EN 319 162-2: "Electronic Signatures and Infrastructures (ESI); Associated Signature Containers (ASiC); Part 2: Additional ASiC containers".

History

Document history		
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