



**Intelligent Transport Systems (ITS);  
RTTT;  
Test specifications for High Data Rate (HDR) data transmission  
equipment operating in the 5,8 GHz ISM band;  
Part 2: Application Layer;  
Sub-part 1: Protocol Implementation Conformance  
Statement (PICS) proforma specification**

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Reference

RTS/ITS-00257

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# Contents

Intellectual Property Rights .....	5
Foreword.....	5
1 Scope .....	6
2 References .....	6
2.1 Normative references .....	6
2.2 Informative references.....	6
3 Definitions and abbreviations.....	7
3.1 Definitions.....	7
3.2 Abbreviations .....	7
4 Overview of the templates.....	7
5 Conformance requirement concerning PICS.....	7
<b>Annex A (normative): PICS proforma for HDR DSRC application layer for OBU.....</b>	<b>8</b>
A.1 Guidance for completing the PICS proforma.....	8
A.1.1 Purposes and structure.....	8
A.1.2 Abbreviations and conventions .....	8
A.1.3 Instructions for completing the PICS proforma.....	10
A.2 Identification of the implementation .....	10
A.2.1 Date of the statement.....	10
A.2.2 Implementation Under Test (IUT) identification .....	10
A.2.3 System Under Test (SUT) identification .....	11
A.2.4 Product supplier.....	11
A.2.5 Client (if different from product supplier).....	11
A.2.6 PICS contact person .....	12
A.3 Identification of the protocol.....	12
A.4 Global statement of conformance.....	13
A.5 Encoding rules.....	13
A.6 Operational modes.....	13
A.7 Protocol data units .....	13
A.7.1 APDUs .....	13
A.7.2 Directives .....	14
A.8 Procedures .....	15
<b>Annex B (normative): PICS proforma for HDR DSRC application layer for RSU .....</b>	<b>16</b>
B.1 Guidance for completing the PICS proforma.....	16
B.1.1 Purposes and structure.....	16
B.1.2 Abbreviations and conventions .....	16
B.1.3 Instructions for completing the PICS proforma.....	18
B.2 Identification of the implementation .....	18
B.2.1 Date of the statement.....	18
B.2.2 Implementation Under Test (IUT) identification .....	18
B.2.3 System Under Test (SUT) identification .....	19
B.2.4 Product supplier.....	19
B.2.5 Client (if different from product supplier).....	19
B.2.6 PICS contact person .....	20
B.3 Identification of the protocol.....	20

B.4	Global statement of conformance.....	21
B.5	Encoding rules.....	21
B.6	Operational modes.....	21
B.7	Protocol data units .....	21
B.7.1	APDUs .....	21
B.7.2	Directives .....	22
B.7.3	APDU and directive parameters .....	23
B.8	Procedures .....	24
	History .....	25

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## Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Intelligent Transport System (ITS).

The present document is part 2, sub-part 1 of a multi-part deliverable covering the test specifications for High Data Rate (HDR) Dedicated Short Range Communication (DSRC), as identified below:

Part 1: "Data Link Layer";

**Part 2: "Application Layer":**

**Sub-part 1: "Protocol Implementation Conformance Statement (PICS) proforma specification";**

Sub-part 2: "Test Suite Structure and Test Purposes (TSS&TP)";

Sub-part 3: "Abstract Test Suite (ATS) and partial PIXIT proforma".

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# 1 Scope

The present document specifies Protocol Implementation Conformance Statement (PICS) proformas for the OSI application layer of HDR DSRC as defined in ES 200 674-1 [1], in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3] and in ETS 300 406 [4].

This proforma is intended for use by suppliers of equipment which is claimed to conform to the HDR DSRC application layer, as specified in ES 200 674-1 [1].

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS). The present document provides proforma ICS templates, to be filled in by equipment suppliers.

---

# 2 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 reference 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.

## 2.1 Normative references

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

- [1] ETSI ES 200 674-1: "Intelligent Transport Systems (ITS); Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communications (DSRC); Part 1: Technical characteristics and test methods for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band".
- [2] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [3] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [4] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

## 2.2 Informative references

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.

Not applicable.

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 200 674-1 [1], ISO/IEC 9646-1 [2], ISO/IEC 9646-7 [3] and the following apply:

**Implementation Conformance Statement (ICS):** statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

**ICS proforma:** document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

### 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ES 200 674-1 [1], ISO/IEC 9646-1 [2], ISO/IEC 9646-7 [3] and the following apply:

DSRC	Dedicated Short Range Communication
HDR	High Data Rate
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
OBU	On Board Unit, an alternative descriptor to Mobile Equipment
PICS	Protocol Implementation Conformance Statement
RSU	Road Side Unit, an alternative descriptor to Fixed Equipment
RTTT	Road Transport and Traffic Telematics
SUT	System Under Test

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## 4 Overview of the templates

The present document contains common PICS templates for On Board Unit (OBU) and Road Side Unit (RSU), for the OSI data link layer of HDR DSRC.

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## 5 Conformance requirement concerning PICS

The actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

An ICS which conforms to the present document shall be a conforming PICS proforma completed in accordance with the instructions for completion given at the start of each annex.

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## Annex A (normative): PICS proforma for HDR DSRC application layer for OBU

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the proforma in this annex so that it can be used for its intended purposes and may further publish the completed proforma.

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### A.1 Guidance for completing the PICS proforma

#### A.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ES 200 674-1 [1] may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- guidance for completing the PICS proforma;
- identification of the implementation;
- identification of the protocol;
- global statement of conformance;
- PICS proforma tables.

#### A.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [3].

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".



## Status column

The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

m	mandatory - the capability is required to be supported.
o	optional - the capability may be supported or not.
n/a	not applicable - in the given context, it is impossible to use the capability.
x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.
ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table.

## Reference column

The reference column makes reference to ES 200 674-1 [1], except where explicitly stated otherwise.

## Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [3], are used for the support column:

Y or y	supported by the implementation.
N or n	not supported by the implementation.
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

It should be noted that as stated in ISO/IEC 9646-7 [3], support for a received PDU requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

## Values allowed column

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

- range of values:	<min value> .. <max value>
example:	5 .. 20
- list of values:	<value1>, <value2>, ..., <valueN>
example:	2 ,4 ,6 ,8, 9
example:	'1101'B, '1011'B, '1111'B
example:	'0A'H, '34'H, '2F'H
- list of named values:	<name1>(<val1>), <name2>(<val2>), ..., <nameN>(<valN>)
example:	reject(1), accept(2)
- length:	size (<min size> .. <max size>)
example:	size (1 .. 8)

## Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

## References to items

For each possible item answer (answer in the support column) within the PICS proforma a unique reference exists, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns are discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table 5 of annex A.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

## Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

## A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause A.1.2.

If necessary, the supplier may provide additional comments in space at the bottom of the tables or separately.

---

## A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

### A.2.1 Date of the statement

.....

### A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

## A.2.3 System Under Test (SUT) identification

SUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

Operating system:

.....

## A.2.4 Product supplier

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....  
.....

## A.2.5 Client (if different from product supplier)

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....

## A.2.6 PICS contact person

(A person to contact if there are any queries concerning the content of the PICS.)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....  
.....

---

## A.3 Identification of the protocol

This PICS proforma applies to the following standard:

ES 200 674-1 [1]: "Intelligent Transport Systems (ITS); Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communications (DSRC); Part 1: Technical characteristics and test methods for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band".

## A.4 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No) .....

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS proforma.

## A.5 Encoding rules

Table A.1: Encoding rules

Item	Supported types	Reference	Status	Support (Y/N)
1	BITSTRING	11.4.1.1	m	
2	INTEGER	11.4.1.2	m	
3	SEQUENCE	11.4.2.1	m	
4	SEQUENCE OF	11.4.2.2	m	
5	CHOICE	11.4.2.3	m	
6	SET	11.4.2.4	m	
7	SET OF	11.4.2.5	m	

## A.6 Operational modes

Table A.2: Supported operational modes

Item	Operational mode	Reference	Status	Support (Y/N)
1	Profile for the European Electronic Fee Collection Service	Annex D	o	
2	Security level 0	Annex D	c201	
3	Security level 1	Annex D	c202	

c201 IF Table A.2/1 THEN m ELSE o

c202 IF Table A.2/2 THEN o ELSE n/a

## A.7 Protocol data units

### A.7.1 APDUs

Table A.3: APDU format

Item	Supported format	Reference	Status	Support (Y/N)
1	A-Association.request parameters	11.5.1	m	
2	A-Association.response parameters	11.6.1	m	
3	Protocol Data Units	11.2.1, 11.3	m	

## A.7.2 Directives

Table A.4: Directives

Item	Directive	Sending			Receiving		
		Reference	Status	Support (Y/N)	Reference	Status	Support (Y/N)
1	Open-Rq		n/a		11.5.2, 11.6.2	m	
2	Open-Rs	11.6.3	o			n/a	
3	Close-Rq		n/a		11.5.3, 11.6.2	m	
4	Close-Rs	11.6.4	o			n/a	
5	Select-TBA-Id-Rq		n/a		11.5.4, 11.6.2	o	
6	Select-TBA-Id-Rs	11.6.5	o			n/a	
7	Read-Display-Type-Rq		n/a		11.5.5, 11.6.2	c401	
8	Read-Display-Type-Rs	11.6.6	c401			n/a	
9	Read-Master-Core-Rq		n/a		11.5.6, 11.6.2	m	
10	Read-Master-Core-Rs	11.6.7	m			n/a	
11	Get-Master-Record-Rq		n/a		11.5.7, 11.6.2	c402	
12	Get-Master-Record-Rs	11.6.8	c402			n/a	
13	Read-Appl-Core-Rq		n/a		11.5.8, 11.6.2	m	
14	Read-Appl-Core-Rs	11.6.9	m			n/a	
15	Write-Appl-Core-Rq		n/a		11.5.9, 11.6.2	m	
16	Write-Appl-Core-Rs	11.6.10	o			n/a	
17	Write-App-Core-Conf-Rq		n/a		11.5.10, 11.6.2	c401	
18	Write-App-Core-Conf-Rs	11.6.11	c401			n/a	
19	Write-Data-To-External-Rq		n/a		11.5.11, 11.6.2	c401	
20	Write-Data-To-External-Rs	11.6.12	c401			n/a	
21	Read-Data-From-External-Rq		n/a		11.5.12, 11.6.2	c401	
22	Read-Data-From-External-Rs	11.6.13	c401			n/a	
23	Read-Appl-Record-Rq		n/a		11.5.13, 11.6.2	m	
24	Read-Appl-Record-Rs	11.6.14	m			n/a	
25	Write-Appl-Record-Curr-Rq		n/a		11.5.14, 11.6.2	m	
26	Write-Appl-Record-Curr-Rs	11.6.15	m			n/a	
27	Write-Appl-Record-Curr-Conf-Rq		n/a		11.5.15, 11.6.2	m	
28	Write-Appl-Record-Curr-Conf-Rs	11.6.16	m			n/a	
29	Write-Appl-Record-Next-Rq		n/a		11.5.16, 11.6.2	c403	
30	Write-Appl-Record-Next-Rs	11.6.17	c403			n/a	
31	Write-Appl-Record-Next-Conf-Rq		n/a		11.5.17, 11.6.2	c403	
32	Write-Appl-Record-Next-Conf-Rs	11.6.18	c403			n/a	
33	Set-UIF-Rq		n/a		11.5.18, 11.6.2	o	
34	Set-UIF-Rs	11.6.19	o			n/a	
35	Action-Rq		n/a		11.5.19, 11.6.2	c401	
36	Action-Rs	11.6.20	c401			n/a	
37	Set-Password-Rq		n/a		11.5.20, 11.6.2	c401	
38	Set-Password-Rs	11.6.21	c401			n/a	
39	Use-Last-Password-Rq		n/a		11.5.21, 11.6.2	c401	
40	Use-Last-Password-Rs	11.6.22	c401			n/a	
41	Get-TBA-Random-Rq		n/a		11.5.22, 11.6.2	c404	
42	Get-TBA-Random-Rs	11.6.23	c404			n/a	
43	Set-Credential-Rq		n/a		11.5.23, 11.6.2	c404	
44	Set-Credential-Rs	11.6.24	c404			n/a	
45	Get-Credential-Rq		n/a		11.5.24, 11.6.2	c402	
46	Get-Credential-Rs	11.6.25	c402			n/a	

Conditions:

- c401 IF Table A.2/1 THEN x ELSE o
- c402 IF Table A.2/1 THEN m ELSE o
- c403 IF Table A.2/1 THEN x ELSE m
- c404 IF Table A.2/3 THEN m ELSE o

## A.8 Procedures

**Table A.5: Procedures**

Item	Supported procedure	Reference	Status	Support (Y/N)
1	Session handling for directives with read access	11.2.3	m	
2	Session handling for directives with write access	11.2.3	m	
3	Session handling for Close	11.2.3	m	
4	Session handling for Get-Master-Record	11.2.3	c501	
5	Session handling for security support directives	11.2.3	c502	
6	Session handling for Read-Display-Type	11.2.3	c503	
7	Session handling for Select-TBA-Id	11.2.3	m	
8	Handling of incorrect address in Select-TBA-Id	D.2.2	c506	
9	Authenticator computed on PaymentMeans attribute	D.2.4.2	c504	
10	Access credentials computation	D.2.4.3	c505	
11	Authentication key computation	D.2.4.4	c504	
12	Access key computation	D.2.4.5	c505	
13	Transaction counter	D.2.4.6	c506	
14	Session handling for Action-Rq	11.2.3	c507	

Conditions:

c501 IF Table A.4/12 THEN m ELSE n/a

c502 IF Table A.4/38 OR Table A.4/40 OR Table A.4/42 OR Table A.4/44 OR Table A.4/46 THEN m ELSE n/a

c503 IF Table A.4/8 THEN m ELSE n/a

c504 IF Table A.2/2 THEN m ELSE n/a

c505 IF Table A.2/3 THEN m ELSE n/a

c506 IF Table A.2/1 THEN m ELSE n/a

c507 IF Table A.4/36 THEN m ELSE n/a

---

## Annex B (normative): PICS proforma for HDR DSRC application layer for RSU

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---

### B.1 Guidance for completing the PICS proforma

#### B.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ES 200 674-1 [1] may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- guidance for completing the PICS proforma;
- identification of the implementation;
- identification of the protocol;
- global statement of conformance;
- PICS proforma tables.

#### B.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [3].

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".



## Status column

The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

m	mandatory - the capability is required to be supported.
o	optional - the capability may be supported or not.
n/a	not applicable - in the given context, it is impossible to use the capability.
x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.
ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table.

## Reference column

The reference column makes reference to ES 200 674-1 [1], except where explicitly stated otherwise.

## Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [3], are used for the support column:

Y or y	supported by the implementation.
N or n	not supported by the implementation.
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

It should be noted that as stated in ISO/IEC 9646-7 [3], support for a received PDU requires the ability to parse all valid parameters of that PDU. Supporting a directive while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

## Values allowed column

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

- range of values:	<min value> .. <max value>
example:	5 .. 20
- list of values:	<value1>, <value2>, ..., <valueN>
example:	2 ,4 ,6 ,8, 9
example:	'1101'B, '1011'B, '1111'B
example:	'0A'H, '34'H, '2F'H
- list of named values:	<name1>(<val1>), <name2>(<val2>), ..., <nameN>(<valN>)
example:	reject(1), accept(2)
- length:	size (<min size> .. <max size>)
example:	size (1 .. 8)

## Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

## References to items

For each possible item answer (answer in the support column) within the PICS proforma a unique reference exists, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns are discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table 5 of annex A.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

## Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

## B.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause A.1.2.

If necessary, the supplier may provide additional comments in space at the bottom of the tables or separately.

---

## B.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

### B.2.1 Date of the statement

.....

### B.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

## B.2.3 System Under Test (SUT) identification

SUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

Operating system:

.....

## B.2.4 Product supplier

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....  
.....

## B.2.5 Client (if different from product supplier)

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....

## B.2.6 PICS contact person

(A person to contact if there are any queries concerning the content of the PICS.)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....  
.....

---

## B.3 Identification of the protocol

This PICS proforma applies to the following standard:

ES 200 674-1 [1]: "Intelligent Transport Systems (ITS); Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communications (DSRC); Part 1: Technical characteristics and test methods for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band".

## B.4 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No) .....

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS proforma.

## B.5 Encoding rules

Table B.1: Encoding rules

Item	Supported types	Reference	Status	Support (Y/N)
1	BITSTRING	11.4.1.1	m	
2	INTEGER	11.4.1.2	m	
3	SEQUENCE	11.4.2.1	m	
4	SEQUENCE OF	11.4.2.2	m	
5	CHOICE	11.4.2.3	m	
6	SET	11.4.2.4	m	
7	SET OF	11.4.2.5	m	

## B.6 Operational modes

Table B.2: Supported operational modes

Item	Operational mode	Reference	Status	Support (Y/N)
1	Profile for the European Electronic Fee Collection Service	Annex D	o	
2	Security level 0	Annex D	c201	
3	Security level 1	Annex D	c202	

c201 IF Table B.2/1 THEN m ELSE o

c202 IF Table B.2/2 THEN o ELSE n/a

## B.7 Protocol data units

### B.7.1 APDUs

Table B.3: APDU format

Item	Supported format	Reference	Status	Support (Y/N)
1	A-Association.request parameters	11.5.1	m	
2	A-Association.response parameters	11.6.1	m	
3	Protocol Data Units	11.2.1, 11.3	m	

## B.7.2 Directives

Table B.4: Directives

Item	Directive	Receiving			Sending		
		Reference	Status	Support (Y/N)	Reference	Status	Support (Y/N)
1	Open-Rq		n/a		11.5.2	m	
2	Open-Rs	11.6.3	m			n/a	
3	Close-Rq		n/a		11.5.3	m	
4	Close-Rs	11.6.4	m			n/a	
5	Select-TBA-Id-Rq		n/a		11.5.4	m	
6	Select-TBA-Id-Rs	11.6.5	m			n/a	
7	Read-Display-Type-Rq		n/a		11.5.5	c401	
8	Read-Display-Type-Rs	11.6.6	c401			n/a	
9	Read-Master-Core-Rq		n/a		11.5.6	m	
10	Read-Master-Core-Rs	11.6.7	m			n/a	
11	Get-Master-Record-Rq		n/a		11.5.7, 11.6.2	c402	
12	Get-Master-Record-Rs		11.6.8		c402		n/a
13	Read-Appl-Core-Rq		n/a		11.5.8, 11.6.2	m	
14	Read-Appl-Core-Rs	11.6.9	m			n/a	
15	Write-Appl-Core-Rq		n/a		11.5.9, 11.6.2	m	
16	Write-Appl-Core-Rs	11.6.10	o			n/a	
17	Write-App-Core-Conf-Rq		n/a		11.5.10, 11.6.2	c401	
18	Write-App-Core-Conf-Rs	11.6.11	c401			n/a	
19	Write-Data-To-External-Rq		n/a		11.5.11, 11.6.2	c401	
20	Write-Data-To-External-Rs	11.6.12	c401			n/a	
21	Read-Data-From-External-Rq		n/a		11.5.12, 11.6.2	c401	
22	Read-Data-From-External-Rs	11.6.13	c401			n/a	
23	Read-Appl-Record-Rq		n/a		11.5.13, 11.6.2	m	
24	Read-Appl-Record-Rs	11.6.14	m			n/a	
25	Write-Appl-Record-Curr-Rq		n/a		11.5.14, 11.6.2	m	
26	Write-Appl-Record-Curr-Rs	11.6.15	m			n/a	
27	Write-Appl-Record-Curr-Conf-Rq		n/a		11.5.15, 11.6.2	m	
28	Write-Appl-Record-Curr-Conf-Rs	11.6.16	m			n/a	
29	Write-Appl-Record-Next-Rq		n/a		11.5.16, 11.6.2	c403	
30	Write-Appl-Record-Next-Rs	11.6.17	c403			n/a	
31	Write-Appl-Record-Next-Conf-Rq		n/a		11.5.17, 11.6.2	c403	
32	Write-Appl-Record-Next-Conf-Rs	11.6.18	c403			n/a	
33	Set-UIF-Rq		n/a		11.5.18, 11.6.2	o	
34	Set-UIF-Rs	11.6.19	o			n/a	
35	Action-Rq		n/a		11.5.19, 11.6.2	c401	
36	Action-Rs	11.6.20	c401			n/a	
37	Set-Password-Rq		n/a		11.5.20, 11.6.2	c401	
38	Set-Password-Rs	11.6.21	c401			n/a	
39	Use-Last-Password-Rq		n/a		11.5.21, 11.6.2	c401	
40	Use-Last-Password-Rs	11.6.22	c401			n/a	
41	Get-TBA-Random-Rq		n/a		11.5.22, 11.6.2	c404	
42	Get-TBA-Random-Rs	11.6.23	c404			n/a	
43	Set-Credential-Rq		n/a		11.5.23, 11.6.2	c404	
44	Set-Credential-Rs	11.6.24	c404			n/a	
45	Get-Credential-Rq		n/a		11.5.24, 11.6.2	c402	
46	Get-Credential-Rs	11.6.25	c402			n/a	

Conditions:

- c401 IF Table B.2/1 THEN x ELSE o
- c402 IF Table B.2/1 THEN m ELSE o
- c403 IF Table B.2/1 THEN x ELSE m
- c404 IF Table B.2/3 THEN m ELSE o

### B.7.3 APDU and directive parameters

The present clause only specifies APDUs and directives parameters whose values can be subject to conditions. Support for all other parameters' values is implicit in the support of the related APDU or directive.

**Table B.5: A-Association.request parameters**

Item	Parameter	Reference	Status	Support
1	AP Invocation Identifier	11.5.1	m	
2	Called AP Title	11.5.1	m	
3	Responding Mode	11.5.1	m	
4	Number of Directives	11.5.1	m	

**Table B.6: Values of Responding Mode parameter in sending A-Association.request**

Item	Responding mode value	Reference	Status	Support
1	response-not-required	11.5.1	m	
2	response-fast-speed	11.5.1	c601	
3	response-normal-speed	11.5.1	c601	
4	response-slow-speed	11.5.1	m	

Conditions:

c601: IF Table B.2/1 THEN x ELSE o

**Table B.7: Get-Credential-Rq directive parameters**

Item	Parameter	Reference	Status	Support
1	Offset	11.5.24.3	m	
2	Length	11.5.24.3	m	
3	Nonce-len	11.5.24.3	m	
4	Nonce	11.5.24.3	m	
5	Key	11.5.24.3	m	

**Table B.8: Values of Nonce-len parameter in sending Get-Credential-Rq directive**

Item	Nonce-len value	Reference	Status	Support
1	1..255	11.5.24.3	c801	
2	4	D.2.2	c802	

Conditions:

c801 IF Table B.2/1 THEN m ELSE n/a

c802 IF Table B.2/1 THEN m ELSE n/a

## B.8 Procedures

**Table B.9: Procedures**

Item	Supported procedure	Reference	Status	Support (Y/N)
1	Session handling for directives with read access	11.2.3	m	
2	Session handling for directives with write access	11.2.3	m	
3	Session handling for Close	11.2.3	m	
4	Session handling for Get-Master-Record	11.2.3	c901	
5	Session handling for security support directives	11.2.3	c902	
6	Session handling for Read-Display-Type	11.2.3	c903	
7	Session handling for Select-TBA-Id	11.2.3	m	
8	Authenticator computed on PaymentMeans attribute	D.2.4.2	c904	
9	Access credentials computation	D.2.4.3	c905	
10	Authentication key computation	D.2.4.4	c904	
11	Access key computation	D.2.4.5	c905	
12	Transaction counter	D.2.4.6	c906	
13	Session handling for Action	11.2.3	c907	

c901 IF Table B.4/11 THEN m ELSE n/a

c902 IF Table B.4/37 OR Table B.4/39 OR Table B.4/41 OR Table B.4/43 OR Table B.4/45 THEN m ELSE n/a

c903 IF Table B.4/7 THEN m ELSE n/a

c904 IF Table B.2/2 THEN m ELSE n/a

c905 IF Table B.2/3 THEN m ELSE n/a

c906 IF Table B.2/1 THEN m ELSE n/a

c907 IF Table B.4/35 THEN m ELSE n/a



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## History

<b>Document history</b>		
V1.1.1	March 2010	Publication
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