



**Smart Cards;
Test specification for the
Single Wire Protocol (SWP) interface;
Part 2: UICC features
(Release 10)**

STANDARDS PREVIEW
iTech Standards
<https://standards.iteh.ai/catalog/standards/sist/33c1a1ac1-1eb3-4bb5-8927-25a448b33a22/etsi-ts-102-694-2-v10-4-1-2019-09>

ReferenceRTS/SCP-00SWPUva41

Keywordssmart card, terminal

ETSI

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Siret N° 348 623 562 00017 - NAF 742 C
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Sous-Préfecture de Grasse (06) N° 7803/88

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Contents

Intellectual Property Rights	11
Foreword.....	11
Modal verbs terminology.....	12
Introduction	12
1 Scope.....	13
2 References	13
2.1 Normative references	13
2.2 Informative references.....	14
3 Definition of terms, symbols, abbreviations and formats.....	14
3.1 Terms.....	14
3.2 Symbols.....	15
3.3 Abbreviations	15
3.4 Formats.....	16
3.4.1 Format of the table of optional features.....	16
3.4.2 Format of the applicability table.....	16
3.4.3 Status and Notations	16
4 Test environment.....	17
4.1 Table of optional features.....	17
4.2 Applicability table.....	18
4.3 Information to be provided by the DUT supplier.....	23
4.4 Test equipment	23
4.4.0 General requirements.....	23
4.4.1 Measurement/setting uncertainties.....	23
4.4.2 Default conditions for DUT operation.....	24
4.4.2.0 General.....	24
4.4.2.1 Temperature	24
4.4.2.2 ETSI TS 102 221 interface contacts (CLK, RST, I/O) and contact Vcc	25
4.4.2.3 ETSI TS 102 600 interface contacts (IC_DP, IC_DM).....	25
4.4.2.4 ETSI TS 102 613 interface contact (SWIO).....	26
4.4.2.5 Status of UICC interfaces.....	26
4.4.2.6 Characteristics of LLCs.....	26
4.4.2.6.1 ACT LLC	26
4.4.2.6.2 SHDLC LLC	26
4.4.2.6.3 CLT LLC.....	27
4.4.3 Minimum/maximum conditions for DUT operation.....	27
4.4.3.0 General	27
4.4.3.1 Temperature	27
4.4.3.2 Contact Vcc.....	27
4.5 Test execution	27
4.5.1 Parameter variations	27
4.5.2 Execution requirements	28
4.6 Pass criterion	28
5 Test cases.....	28
5.1 Principle of the Single Wire Protocol.....	28
5.2 System architecture	28
5.2.1 General overview	28
5.2.2 ETSI TS 102 221 support	29
5.2.2.1 Conformance requirements	29
5.2.3 Configurations	29
5.2.3.1 Conformance requirements	29
5.2.3.2 Test case 1: Global Interface bytes of the ATR	29
5.2.3.2.1 Test execution.....	29
5.2.3.2.2 Initial conditions	29

5.2.3.2.3	Test procedure	29
5.2.3.3	Test case 2: interaction with ETSI TS 102 221 interface - SWP activation while the UICC receives data	29
5.2.3.3.1	Test execution.....	29
5.2.3.3.2	Initial conditions	30
5.2.3.3.3	Test procedure	30
5.2.3.4	Test case 3: interaction with ETSI TS 102 221 interface - SWP activation while the UICC sends data	30
5.2.3.4.1	Test execution.....	30
5.2.3.4.2	Initial conditions	30
5.2.3.4.3	Test procedure	30
5.2.4	Interaction with other interfaces	31
5.2.4.1	Conformance requirements	31
5.2.4.2	Test case 1: interaction with ETSI TS 102 221 interface - ETSI TS 102 221 clock stop.....	31
5.2.4.2.1	Test execution.....	31
5.2.4.2.2	Initial conditions	31
5.2.4.2.3	Test procedure	31
5.2.4.3	Test case 2: interaction with ETSI TS 102 221 interface - ETSI TS 102 221 reset	31
5.2.4.3.1	Test execution.....	31
5.2.4.3.2	Initial conditions	32
5.2.4.3.3	Test procedure	32
5.2.4.4	Test case 3: interaction with ETSI TS 102 221 interface - SWP deactivation while the UICC receives data	32
5.2.4.4.1	Test execution.....	32
5.2.4.4.2	Initial conditions	32
5.2.4.4.3	Test procedure	32
5.2.4.5	Test case 4: interaction with ETSI TS 102 221 interface - SWP deactivation while the UICC sends data	33
5.2.4.5.1	Test execution.....	33
5.2.4.5.2	Initial conditions	33
5.2.4.5.3	Test procedure	33
5.2.4.6	Test case 5: interaction with ETSI TS 102 221 interface - reset SWP while the UICC receives data	33
5.2.4.6.1	Test execution.....	33
5.2.4.6.2	Initial conditions	33
5.2.4.6.3	Test procedure	34
5.2.4.7	Test case 6: interaction with ETSI TS 102 221 interface - reset SWP while the UICC sends data	34
5.2.4.7.1	Test execution.....	34
5.2.4.7.2	Initial conditions	34
5.2.4.7.3	Test procedure	34
5.2.4.8	Test case 7: interaction with ETSI TS 102 221 interface - activate SWP in ETSI TS 102 221 clock stop	35
5.2.4.8.1	Test execution.....	35
5.2.4.8.2	Initial conditions	35
5.2.4.8.3	Test procedure	35
5.3	Physical characteristics.....	35
5.3.1	Temperature range for card operations	35
5.3.1.1	Conformance requirements	35
5.3.2	Contacts	35
5.3.2.1	Provision of contacts	35
5.3.2.1.1	Conformance requirements.....	35
5.3.2.2	Contact activation and deactivation	36
5.3.2.2.1	Conformance requirements.....	36
5.3.2.3	Interface activation.....	36
5.3.2.3.1	Conformance requirements.....	36
5.3.2.3.2	Test case 1: initial activation in low power mode	37
5.3.2.3.3	Test case 2: initial activation in low power mode with corrupted frames	37
5.3.2.3.4	Test case 3: no activation.....	38
5.3.2.3.5	Void.....	38
5.3.2.3.6	Test case 5: full power mode activation	38
5.3.2.3.7	Test case 6: low power mode activation with re-transmission of ACT_SYNC.....	39
5.3.2.3.8	Test case 7: full power mode activation with re-transmission of ACT_SYNC.....	39

5.3.2.3.9	Void.....	40
5.3.2.3.10	Test case 9: low power mode activation with multiple re-transmission of ACT_SYNC	40
5.3.2.3.11	Test case 10: full power mode activation with re-transmission of ACT_READY	40
5.3.2.3.12	Test case 11: full power mode activation with multiple re-transmission of ACT_SYNC.....	41
5.3.2.3.13	Test case 12: subsequent activation in low power mode	42
5.3.2.3.14	Test case 13: subsequent activation in full power mode.....	42
5.3.2.3.15	Void.....	43
5.3.2.4	Behaviour of a UICC in a terminal not supporting SWP	43
5.3.2.4.1	Conformance requirements.....	43
5.3.2.4.2	Test case 1: detect terminal not supporting SWP by TERMINAL CAPABILITIES, classes B and C	43
5.3.2.4.3	Test case 2: detect terminal not supporting SWP by TERMINAL CAPABILITIES, class A.....	43
5.3.2.5	Behaviour of a terminal connected to a UICC not supporting SWP	44
5.3.2.6	Inactive contacts.....	44
5.4	Electrical characteristics	44
5.4.1	Operating conditions.....	44
5.4.1.1	Operating conditions	44
5.4.1.2	Supply voltage classes.....	44
5.4.1.2.1	Conformance requirements.....	44
5.4.1.2.2	Test case 1: ETSI TS 102 221 voltage classes B and C support.....	44
5.4.1.3	Vcc (C1) low power mode definition.....	45
5.4.1.3.1	Conformance requirements.....	45
5.4.1.3.2	Test case 1: operation in low power mode	45
5.4.1.4	Signal S1	46
5.4.1.4.1	Conformance requirements.....	46
5.4.1.4.2	Test case 1: S1 communication in voltage class B	46
5.4.1.4.3	Test case 2: S1 communication in voltage class C, full power mode	47
5.4.1.4.4	Test case 3: S1 communication in low power mode.....	48
5.4.1.5	Signal S2	49
5.4.1.5.1	Signal S2.....	49
5.4.1.5.2	Operating current for S2.....	49
5.5	Physical transmission layer	53
5.5.1	S1 Bit coding and sampling time	53
5.5.1.1	Conformance requirements	53
5.5.1.2	Test case 1: communication with timing variation, default bit duration	53
5.5.1.2.1	Test execution.....	53
5.5.1.2.2	Initial conditions.....	53
5.5.1.2.3	Test procedure	54
5.5.1.3	Test case 2: communication with timing variation, extended bit duration.....	54
5.5.1.3.1	Test execution.....	54
5.5.1.3.2	Initial conditions	54
5.5.1.3.3	Test procedure	55
5.5.1.4	Test case 3: S1 rise and fall time.....	55
5.5.1.4.1	Test execution.....	55
5.5.1.4.2	Initial conditions	55
5.5.1.4.3	Test procedure	56
5.5.1.5	Test case 4: measurement of C6 input capacitance	56
5.5.1.5.1	Test execution.....	56
5.5.1.5.2	Initial conditions	56
5.5.1.5.3	Test procedure	56
5.5.1.5.4	Example for C6 input capacitance test implementation (informative)	56
5.5.1.6	Test case 5: communication with variation in bit duration	57
5.5.1.6.1	Test execution.....	57
5.5.1.6.2	Initial conditions	57
5.5.1.6.3	Test procedure	57
5.5.2	S2 switching management	57
5.5.2.1	Conformance requirements	57
5.5.2.2	Test case 1: S2 switching management.....	57
5.5.2.2.1	Test execution.....	57
5.5.2.2.2	Initial conditions	57
5.5.2.2.3	Test procedure	57
5.5.2.3	Test case 2: S2 switching management (variation in bit duration).....	58

5.5.2.3.1	Test execution.....	58
5.5.2.3.2	Initial conditions.....	58
5.5.2.3.3	Test procedure.....	58
5.5.3	SWP interface states management.....	58
5.5.3.1	Conformance requirements.....	58
5.5.3.2	Test case 1: SWP interface states management by the UICC.....	59
5.5.3.2.1	Test execution.....	59
5.5.3.2.2	Initial conditions.....	59
5.5.3.2.3	Test procedure.....	59
5.5.3.3	Test case 2: UICC resume - P3 values and delay after transition sequence.....	59
5.5.3.3.1	Test execution.....	59
5.5.3.3.2	Initial conditions.....	59
5.5.3.3.3	Test procedure.....	60
5.5.4	Power mode states/transitions and Power saving mode.....	60
5.5.4.1	Conformance requirements.....	60
5.5.4.2	Test case 1: power states in low power mode (ACT_POWER_MODE).....	61
5.5.4.2.1	Test execution.....	61
5.5.4.2.2	Initial conditions.....	61
5.5.4.2.3	Test procedure.....	62
5.5.4.3	Test case 2: power states in low power mode (non-ACT).....	62
5.5.4.3.1	Test execution.....	62
5.5.4.3.2	Initial conditions.....	62
5.5.4.3.3	Test procedure.....	62
5.5.4.4	Test case 3: power states in full power mode, without ETSI TS 102 221.....	62
5.5.4.4.1	Test execution.....	62
5.5.4.4.2	Initial conditions.....	62
5.5.4.4.3	Test procedure.....	62
5.5.4.5	Test case 4: power saving mode with ETSI TS 102 221 interface - restart ETSI TS 102 221 interface first.....	63
5.5.4.5.1	Test execution.....	63
5.5.4.5.2	Initial conditions.....	63
5.5.4.5.3	Test procedure.....	63
5.5.4.6	Test case 5: power saving mode with ETSI TS 102 221 interface - restart ETSI TS 102 613 interface first.....	63
5.5.4.6.1	Test execution.....	63
5.5.4.6.2	Initial conditions.....	64
5.5.4.6.3	Test procedure.....	64
5.5.4.7	Test case 6: power saving mode with ETSI TS 102 600 interface - restart ETSI TS 102 600 interface first.....	64
5.5.4.7.1	Test execution.....	64
5.5.4.7.2	Initial conditions.....	64
5.5.4.7.3	Test procedure.....	64
5.5.4.8	Test case 7: power saving mode with ETSI TS 102 600 interface - restart ETSI TS 102 613 interface first.....	65
5.5.4.8.1	Test execution.....	65
5.5.4.8.2	Initial conditions.....	65
5.5.4.8.3	Test procedure.....	65
5.5.4.9	Void.....	65
5.5.4.10	Test case 9: power saving mode in SUSPENDED, with ETSI TS 102 221 interface restarted first.....	65
5.5.4.10.1	Test execution.....	65
5.5.4.10.2	Initial conditions.....	65
5.5.4.10.3	Test procedure.....	66
5.5.4.11	Test case 10: power saving mode in SUSPENDED, with ETSI TS 102 221 interface restarted after ETSI TS 102 613 interface.....	66
5.5.4.11.1	Test execution.....	66
5.5.4.11.2	Initial conditions.....	66
5.5.4.11.3	Test procedure.....	67
5.6	Data link layer.....	67
5.6.1	Overview.....	67
5.6.2	Medium Access Control (MAC) layer.....	67
5.6.2.1	Bit order.....	67
5.6.2.1.1	Conformance requirements.....	67

5.6.2.1.2	Void.....	67
5.6.2.2	Structure.....	67
5.6.2.2.1	Conformance requirements.....	67
5.6.2.2.2	Test case 1: interpretation of incorrectly formed frames - ACT LLC.....	68
5.6.2.2.3	Test case 2: interpretation of incorrectly formed frames - SHDLC RSET frames.....	68
5.6.2.2.4	Test case 3: interpretation of incorrectly formed frames - SHDLC I-frames.....	69
5.6.2.2.5	Test case 4: communication with frames - idle bits and wakeup sequence.....	69
5.6.2.3	Bit stuffing.....	70
5.6.2.3.1	Conformance requirements.....	70
5.6.2.3.2	Test case 1: behaviour of UICC with bit stuffing in frame.....	70
5.6.2.4	Error detection.....	71
5.6.2.4.1	Conformance requirements.....	71
5.6.2.4.2	Test case 1: RSET with CRC error.....	71
5.6.3	Supported LLC layers.....	72
5.6.3.1	Supported LLC layers.....	72
5.6.3.1.1	Conformance requirements.....	72
5.6.3.1.2	Test case 1: support of ACT LLC and ACT LPDU structure.....	72
5.6.3.1.3	Test case 2: support of SHDLC LLC and SHDLC LPDU structure.....	72
5.6.3.2	Interworking of the LLC layers.....	73
5.6.3.2.1	Conformance requirements.....	73
5.6.3.2.2	Test case 1: error handling of ACT LLC on reception of corrupted frame, after SWIO activation.....	73
5.6.3.2.3	Test case 2: ignore ACT LLC frame reception after the SHDLC link establishment.....	74
5.6.3.2.4	Test case 3: ignore ACT LLC frame reception in CLT session.....	74
5.6.3.2.5	Test case 4: CLT session during SHDLC communication.....	75
5.6.3.2.6	Test case 5: closing condition of CLT session whereas SHDLC link has been established before CLT session.....	75
5.6.3.2.7	Test case 6: closing condition of CLT session whereas SHDLC link has not been established before CLT session.....	76
5.6.3.2.8	Test case 7: interpretation of corrupted frames - single SHDLC frame.....	76
5.6.3.2.9	Void.....	76
5.6.3.2.10	Test case 9: interpretation of corrupted frames - CLT frames.....	76
5.6.3.2.11	Test case 10: first non-ACT frame sent by CLF - initial interface activation.....	77
5.6.3.2.12	Test case 11: first non-ACT frame sent by CLF - subsequent interface activation.....	77
5.6.4	ACT LLC definition.....	78
5.6.4.1	ACT LLC definition.....	78
5.6.4.1.1	Conformance requirements.....	78
5.6.4.1.2	Test case 1: structure of ACT LPDU - full power mode.....	78
5.6.4.1.3	Test case 2: structure of ACT LPDU - low power mode.....	79
5.6.4.1.4	Test case 3: behaviour of UICC on reception of ACT frames - values of INF bit.....	79
5.6.4.1.5	Test case 4: RFU values in ACT_INFORMATION field.....	80
5.6.4.1.6	Test case 5: extended bit durations as per ACT_INFORMATION field.....	80
5.6.4.1.7	Test case 6: RFU values in ACT_INFORMATION field.....	81
5.6.4.2	SYNC_ID verification process.....	81
5.6.4.2.1	Conformance requirements.....	81
5.7	SHDLC LLC definition.....	81
5.7.1	SHDLC overview.....	81
5.7.1.1	Conformance requirements.....	81
5.7.1.2	Test Case 1: data passed up to the next layer.....	82
5.7.1.2.1	Test execution.....	82
5.7.1.2.2	Initial conditions.....	82
5.7.1.2.3	Test procedure.....	82
5.7.1.3	Test Case 2: error management, UICC sending I-Frame.....	82
5.7.1.3.1	Test execution.....	82
5.7.1.3.2	Initial Conditions.....	82
5.7.1.3.3	Test procedure.....	82
5.7.1.4	Test Case 3: error management.....	82
5.7.1.4.1	Test execution.....	82
5.7.1.4.2	Initial Conditions.....	83
5.7.1.4.3	Test procedure.....	83
5.7.2	Endpoints.....	83
5.7.2.1	Conformance requirements.....	83

5.7.3	SHDLC frames types	83
5.7.3.1	Conformance requirements	83
5.7.4	Control Field	83
5.7.4.1	Conformance requirements	83
5.7.4.2	I-Frames coding	83
5.7.4.2.1	Conformance requirements.....	83
5.7.4.3	S-Frames coding	83
5.7.4.3.1	Conformance requirements.....	83
5.7.4.4	U-Frames coding.....	84
5.7.4.4.1	Conformance requirements.....	84
5.7.5	Changing sliding window size and endpoint capabilities	84
5.7.5.1	Conformance requirements	84
5.7.5.2	RSET frame payload	84
5.7.5.2.1	Conformance requirements.....	84
5.7.5.3	UA frame payload	84
5.7.5.3.1	Conformance requirements.....	84
5.7.5.3.2	Void.....	84
5.7.6	SHDLC context	84
5.7.6.1	Conformance requirements	84
5.7.6.2	Constants	85
5.7.6.2.1	Conformance requirements.....	85
5.7.6.3	Variables	85
5.7.6.3.1	Conformance requirements.....	85
5.7.6.4	Initial Reset state	85
5.7.6.4.1	Conformance requirements.....	85
5.7.6.4.2	Void.....	85
5.7.6.4.3	Test case 2: initial state at link reset - reset by the terminal simulator	85
5.7.7	SHDLC sequence of frames.....	86
5.7.7.1	Conformance requirements	86
5.7.7.2	Nomenclature	86
5.7.7.2.1	Conformance requirements.....	86
5.7.7.3	Link establishment with default sliding window size	87
5.7.7.3.1	Conformance requirements.....	87
5.7.7.3.2	Void.....	87
5.7.7.3.3	Test Case 2: link establishment by the terminal simulator	88
5.7.7.3.4	Test case 3: discard frames before initialization.....	88
5.7.7.3.5	Void.....	89
5.7.7.3.6	Test case 5: connection time - reset by terminal simulator.....	89
5.7.7.3.7	Void.....	89
5.7.7.3.8	Test case 7: requesting unsupported window size - link establishment by terminal simulator.....	89
5.7.7.3.9	Test Case 8: requesting unsupported SREJ support - link establishment by terminal simulator.....	90
5.7.7.3.10	Test Case 9: requesting unsupported window size and SREJ support - link establishment by terminal simulator.....	90
5.7.7.3.11	Void.....	91
5.7.7.3.12	Void.....	91
5.7.7.3.13	Void.....	91
5.7.7.3.14	Test case 13: discard buffered frames on link re-establishment	91
5.7.7.4	Link establishment with custom sliding window size	91
5.7.7.4.1	Conformance requirements.....	91
5.7.7.5	Data flow.....	91
5.7.7.5.1	Conformance requirements.....	91
5.7.7.5.2	Test case 1: I-frame transmission	92
5.7.7.5.3	Test case 2: I-frame reception - single I-Frame reception	92
5.7.7.5.4	Test case 3: I-frame reception - multiple I-Frame reception	93
5.7.7.5.5	Test case 4: piggybacking.....	93
5.7.7.6	Reject (go N back)	94
5.7.7.6.1	Conformance requirements.....	94
5.7.7.6.2	Test case 1: REJ transmission	94
5.7.7.6.3	Test case 2: REJ transmission - multiple I-frames received	95
5.7.7.6.4	Test case 3: REJ reception.....	95
5.7.7.7	Last Frame Loss	96
5.7.7.7.1	Conformance requirements.....	96

5.7.7.7.2	Test Case 1: retransmission of a single frame	96
5.7.7.7.3	Test Case 2: retransmission of multiple frames	97
5.7.7.8	Receive and not ready	97
5.7.7.8.1	Conformance requirements	97
5.7.7.8.2	Test case 1: RNR reception	97
5.7.7.8.3	Test case 2: Empty I-frame transmission	98
5.7.7.9	Selective reject	99
5.7.7.9.1	Conformance requirements	99
5.7.7.9.2	Test case 1: SREJ transmission	99
5.7.7.9.3	Test case 2: SREJ transmission - multiple I-frames received	100
5.7.7.9.4	Test case 3: SREJ reception	100
5.7.7.9.5	Void	100
5.7.8	Implementation	101
5.7.8.1	Conformance requirements	101
5.7.8.2	Information Frame emission	101
5.7.8.2.1	Conformance requirements	101
5.7.8.3	Information Frame reception	101
5.7.8.3.1	Conformance requirements	101
5.7.8.4	Reception Ready Frame reception	101
5.7.8.4.1	Conformance requirements	101
5.7.8.5	Reject Frame reception	101
5.7.8.5.1	Conformance requirements	101
5.7.8.6	Selective Reject Frame reception	101
5.7.8.6.1	Conformance requirements	101
5.7.8.7	Acknowledge timeout	101
5.7.8.7.1	Conformance requirements	101
5.7.8.8	Guarding/transmit timeout	102
5.7.8.8.1	Conformance requirements	102
5.8	CLT LLC definition	102
5.8.1	System Assumptions	102
5.8.2	Overview	102
5.8.3	Supported RF protocols	102
5.8.3.1	Conformance requirements	102
5.8.4	CLT Frame Format	102
5.8.4.1	Conformance requirements	102
5.8.4.2	Test case 1: Padding of CLT PAYLOAD in Type A aligned structure	102
5.8.4.2.1	Test execution	102
5.8.4.2.2	Initial conditions	102
5.8.4.2.3	Test procedure	103
5.8.5	CLT Command Set	103
5.8.5.1	Conformance requirements	103
5.8.5.2	Test case 1: CLT commands, ISO/IEC 14443-3 Type A	103
5.8.5.2.1	Test execution	103
5.8.5.2.2	Initial conditions	103
5.8.5.2.3	Test procedure	104
5.8.5.3	Test case 2: CLT commands, ISO/IEC 18092	104
5.8.5.3.1	Test execution	104
5.8.5.3.2	Initial conditions	104
5.8.5.3.3	Test procedure	105
5.8.6	CLT Frame Interpretation	105
5.8.6.1	CLT frames with Type A aligned DATA_FIELD	105
5.8.6.1.1	Conformance requirements	105
5.8.6.2	Handling of DATA_FIELD by the CLF	105
5.8.6.2.1	Conformance requirements	105
5.8.6.3	Handling of ADMIN_FIELD	106
5.8.6.3.1	CL_PROTO_INF(A)	106
5.8.6.3.2	CL_PROTO_INF(F)	107
5.8.6.3.3	CL_GOTO_INIT and CL_GOTO_HALT	108
5.8.7	CLT Protocol Rules	108
5.8.7.1	Rules for the CLF	108
5.8.7.2	Rules for the UICC	109
5.8.7.2.1	Conformance requirements	109

5.9	Timing and performance	109
Annex A (informative):	State diagrams.....	110
A.1	SDL symbols definition.....	110
A.2	Initial SWP interface activation	111
A.3	SHDLC operation.....	113
Annex B (informative):	Bibliography.....	121
Annex C (normative):	Additional test cases.....	122
C.1	Overview	122
C.2	Applicability table	122
C.3	Conformance requirements	123
C.4	Test cases.....	123
C.4.1	Test case 1: initial state at link reset - reset by the UICC.....	123
C.4.1.1	Test execution	123
C.4.1.2	Initial conditions	123
C.4.1.3	Test procedure	123
C.4.2	Test Case 2: link establishment by the UICC.....	124
C.4.2.1	Test execution	124
C.4.2.2	Initial conditions	124
C.4.2.3	Test procedure	124
C.4.3	Test case 3: connection time - reset by UICC.....	124
C.4.3.1	Test execution	124
C.4.3.2	Initial conditions	124
C.4.3.3	Test procedure	124
C.4.4	Test case 4: UICC discards I-frames and S-frames during link establishment.....	125
C.4.4.1	Test execution	125
C.4.4.2	Initial conditions	125
C.4.4.3	Test procedure	125
C.4.5	Test Case 5: forcing lower window size - link establishment by the UICC	125
C.4.5.1	Test execution	125
C.4.5.2	Initial conditions	125
C.4.5.3	Test procedure	125
C.4.6	Test Case 6: forcing SREJ not used - link establishment by the UICC.....	126
C.4.6.1	Test execution	126
C.4.6.2	Initial conditions	126
C.4.6.3	Test procedure	126
C.4.7	Test Case 7: forcing lower window size and SREJ not used - link establishment by the UICC	126
C.4.7.1	Test execution	126
C.4.7.2	Initial conditions	126
C.4.7.3	Test procedure	126
Annex D (informative):	Core specification version information.....	127
Annex E (informative):	Change history	128
History		131

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Foreword

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The present document is part 2 of a multi-part deliverable covering the Test specification for the Single Wire Protocol (SWP) interface, as identified below:

Part 1: "Terminal features";

Part 2: "UICC features".

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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Introduction

The present document defines test cases for the UICC relating to Single Wire Protocol (SWP). SWP is the communication interface between the UICC and a contactless frontend (CLF) as specified in ETSI TS 102 613 [1].

The aim of the present document is to ensure interoperability between the terminal and the UICC independently of the respective manufacturer, card issuer or operator.

ITeH STANDARD PREVIEW
(standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sist/3c1a1ac1-1eb3-4bb5-827-25a448b33a22/etsi-ts-102-694-2-v10.4.1-2019-09>

1 Scope

The present document covers the minimum characteristics which are considered necessary for the UICC in order to provide compliance to ETSI TS 102 613 [1].

The present document specifies the test cases for:

- the physical layer of the interface CLF - UICC;
- the electrical interface of the UICC;
- the initial communication establishment CLF - UICC;
- the data link layer.

Test cases for the terminal relating to ETSI TS 102 613 [1] and test cases for the host controller interface (HCI) covering both terminal and UICC are out of scope of the present document.

2 References

2.1 Normative references

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

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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 TS 102 613: "Smart Cards; UICC - Contactless Front-end (CLF) Interface; Physical and data link layer characteristics".
- [2] ETSI TS 102 221: "Smart Cards; UICC-Terminal interface; Physical and logical characteristics".
- [3] ETSI TS 102 600: "Smart Cards; UICC-Terminal interface; Characteristics of the USB interface".
- [4] ETSI TS 102 622: "Smart Cards; UICC - Contactless Front-end (CLF) Interface; Host Controller Interface (HCI)".
- [5] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [6] ISO/IEC 14443-3: "Cards and security devices for personal identification - Contactless proximity objects - Part 3: Initialization and anticollision".
- [7] Void.
- [8] ISO/IEC 18092: "Information technology - Telecommunications and information exchange between systems - Near Field Communication - Interface and Protocol (NFCIP-1)".
- [9] ISO/IEC 13239: "Information technology - Telecommunications and information exchange between systems - High-level data link control (HDLC) procedures".