Publicly	**PAS 0001-9-4**
Available	**Version: 0.0.1**
Specification	**Date: 18 December 1998**

Source: ²POL Forum

Work Item No: 0001

Key word: TETRAPOL

TETRAPOL Specifications;

Part 9 : Air Interface Protocol Conformance tests;

Part 9-4 : Abstract Test Suite (ATS) for Applicative Layer

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1. Foreword

This document is the Publicly Available Specification (PAS) of the TETRAPOL land mobile radio system, which shall provide digital narrow band voice, messaging, and data services. Its main objective is to provide specifications dedicated to the more demanding PMR segment: the public safety. These specifications are also applicable to most PMR networks.

This PAS is a multipart document which consists of:

Part 1	General Network Design
Part 2	Radio Air interface
Part 3	Air Interface Protocol
Part 4	Gateway to X.400 MTA
Part 5	Dispatch Centre interface
Part 6	Line Connected Terminal interface
Part 7	Codec
Part 8	Radio conformance tests
Part 9	**Air interface protocol conformance tests**
Part 10	Inter System Interface
Part 11	Gateway to PABX, ISDN, PDN
Part 12	Network Management Centre interface
Part 13	User Data Terminal to System Terminal interface
Part 14	System Simulator
Part 15	Gateway to External Data Terminal
Part 16	Security
TTR 1	Guide to TETRAPOL features
Part 18	Base station to Radioswitch interface
Part 19	Stand Alone Dispatch Position interface

2. Scope

This Publicly Available Specification (PAS) contains the Abstract Test Suite (ATS) to test the TETRAPOL Air Interface Application Protocol. The Air Interface Application protocol is specified in PAS 0001-3-1 [2] and PAS 0001-3-2 [3]. The Test Suite Structure (TSS) and Test Purposes (TPs) for this ATS are defined in PAS 0001-9-3 [1].

The objective of this test specification is to provide a basis for approval tests for TETRAPOL equipment giving a high probability of air interface inter-operability between different manufacturer's TETRAPOL equipment.

The ISO standard for the methodology of conformance testing, ISO/IEC 9646-1 [8], ISO/IEC 9646-2 [9], ISO/IEC 9646-3 [10] and ISO/IEC 9646-5 [11], as well as the ETSI rules for conformance testing, ETS 300 406 [7] and ETR 141 (see Annex D), are used as a basis for the test methodology.

Annex A provides the Tree and Tabular Combined Notation (TTCN) part of this ATS.

Annex B provides the Partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma of this ATS.

Annex C provides the Protocol Conformance Test Report (PCTR) Proforma of this ATS.

3. Normative References

This PAS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this PAS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1] PAS 0001-9-3 : "TETRAPOL Specifications; Air Interface Protocol Conformance tests; Test Suite Structure and Test Purposes (Applicative Layer)".

[2] PAS 0001-3-1 (January 1998): "TETRAPOL Specifications; Air Interface Application Protocol".

[3] PAS 0001-3-2 (January 1998): "TETRAPOL Specifications; Air Interface Application Messages".

[4] PAS 0001-3-3 (January 1998): "TETRAPOL Specifications; Air Interface Transport Protocol".

[5] PAS 0001-3-4 (January 1998): "TETRAPOL Specifications; Circuit mode Air Interface Protocol".

[6] PAS 0001-2 : "TETRAPOL Specifications; Radio Air Interface".

[7] ETS 300 406 : "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardisation methodology".

[8] ISO/IEC 9646-1 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[9] ISO/IEC 9646-2 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".

[10] ISO/IEC 9646-3 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 3: The tree and tabular combined notation".

[11] ISO/IEC 9646-5 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".

[12] ISO/IEC 9646-6 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".

4. Definitions, and abbreviations

4.1 Definitions

For the purposes of this PAS, the following definitions apply:

- Terms defined in PAS 0001-3-1 [2];
- Terms defined in ISO/IEC 9646-1 [8], ISO/IEC 9646-3 [10], ISO/IEC 9646-5 [11].

4.2 Abbreviations

For the purposes of this PAS, the following abbreviations apply:

APPLI	Applicative Layer of the TETRAPOL Air Interface protocol
ATM	Abstract Test Method
ATS	Abstract Test Suite
CC	Call Control
CCH	Control CHannel
DM	Direct Mode
DM/NM	Direct Mode / Network Monitoring
ICS	Implementation Conformance Statement
LCT	Line Connected Terminal
LLC	Logical Link Control
LT	Lower Tester
MAC	Medium Access Control
MM	Mobility Management
MOCH	Multisite Open CHannel
OG	Operational Group
PABX	Private Automatic Branch eXchange
PAS	Publicly Available Specification
PCO	Point of Control and Observation
PCTR	Protocol Conformance Test Report
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PMR	Private Mobile Radiocommunications
RSW	RadioSWitch
RT	Radio Terminal
SUT	System Under Test
SwMI	Switching and Management Infrastructure
TCH	Traffic CHannel
TC	Test Case
TCP	Test Coordination Procedure
TP (1)	Test Purpose
TP (2)	TransPort layer
TTI	Temporary Terminal Identifier
UT	Upper Tester

For the purposes of this PAS, the abbreviations defined in ISO/IEC 9646-1 [8] and ISO/IEC 9646-5 [11] apply.

5. Abstract Test Method (ATM)

This clause describes the ATM used for testing the TETRAPOL Air Interface Applicative layer protocol. It is the embedded variant of the remote single layer test method. This test method has mainly been selected because

- there is no additional software in the SUT for the need of the testing,

- « the user interface is not standardized and is widely implementation-dependant » (ETS 300 406 [7], Annex D, D.2.6).

The selected test method is illustrated in figure 1.

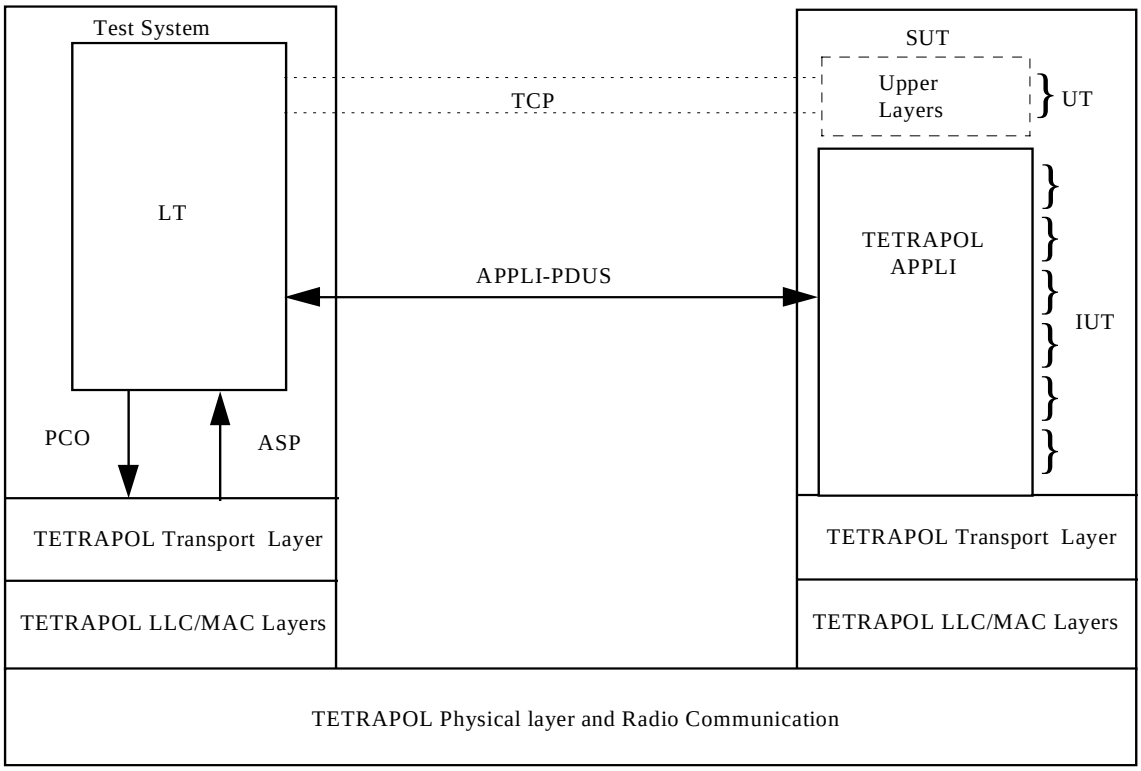

Figure 1: Remote single layer test method embedded variant for TETRAPOL Air Interface Applicative layer

5.1 Lower Tester (LT)

A LT is located in a remote TETRAPOL test system. It controls and observes the behaviour of the IUT.

5.2 Upper Tester (UT)

There is no explicit UT in the remote test method. The TETRAPOL Air Interface Applicative layer and the layers above inside the System Under Test (SUT) are used implicitly for testing the Air Interface Applicative layer.

5.3 Test Coordination Procedures (TCP)

The SUT needs to carry out some upper tester functions to achieve some effects of test coordination procedures. The implicit send events defined in annex serve that purpose. They are used to initiate test events by the IUT at the APPLI layer.

5.4 Point of Control and Observation (PCO)

The PCO for APPLI layer testing is located inside the APPLI protocol above the Protocol Control entity.

All test events at the PCO carrying service user data are specified in terms of APPLI layer PDUs. The mapping of the APPLI PDUs to underlayer service primitives is left to the test implementation.

6. ATS conventions

This clause describes the conventions applied to define the ATS and gives the naming conventions chosen for the different elements of the ATS.

The ATS conventions are intended to give a better understanding of the ATS but they describe also the conventions made for the development of the ATS, thus for any later maintenance purposes or further development of the ATS, the conventions described in this clause shall be considered.

To define the ATS the guidelines of the documents ETS 300 406 and ETR 141 were considered.

6.1 Naming conventions

6.1.1 Declarations part

This subclause describes the naming conventions chosen for the elements of the ATS declarations part.

6.1.1.1 Test suite type and structured type definitions

The test suite type and test suite structured type identifiers describe the information elements, and each whole word included in the name is written in lowercase starting by an uppercase letter:

EXAMPLE:	CodopDach	simple type
	PCO_Type	simple type
	TalkgroupAttributes	structured type

In the case an abbreviation is included in the declaration name, there is an underscore ("_") before and/or after it, separating it from the rest of the identifier. This rule with abbreviations apply to all the naming conventions in the whole test suite.

6.1.1.2 Test suite operations definitions

The test suite operation identifiers are composed of strings in lowercase. The different strings in the definition are separated with underscores.

EXAMPLE: tourne_mess_ref

6.1.1.3 Test suite parameter declarations

The test suite parameter identifiers are composed of strings in uppercase letters starting by the uppercase string "TSPIC_" or "TSPIX_" and separated by underscores.

If the test suite parameter references a PICS item, the prefix "TSPIC_" is used.

EXAMPLE 1: TSPIC_ INCOMING_CALL_SUPPORTED

If the test suite parameter references a PIXIT item, the prefix "TSPIX_" is used.

EXAMPLE 2: TSPIX_ADDRESS1

6.1.1.4 Test case selection expression definitions

The naming conventions for the test case selection expression definitions use free text starting with an uppercase letter. The name of the expression shall explain clearly the selection rule. The test case selection expressions are generally logical combinations of the test suite parameter definitions.

EXAMPLE: Open_channel_release_and_basic_open_channel_supported

6.1.1.5 Test suite constant declarations

The test suite constant identifiers are composed of strings in uppercase letters starting by the uppercase string "TSC_".

EXAMPLE: TSC_KEY_REF
TSC_VALID_RT

6.1.1.6 Test suite variable declarations

The test suite variable identifiers are composed of string in lowercase letters starting by the lowercase string "tsv_".

EXAMPLE: tsv_call_id

6.1.1.7 Test case variable declarations

The test case variable identifiers are composed of strings in lowercase letters starting by the lowercase string "tcv_".

EXAMPLE: tcv_rtref

6.1.1.8 PCO declaration

The unique point of control and observation identifier is named APPLI.

6.1.1.9 Timer declarations

Two kinds of timers can be distinguished:

1) standardized:

Those defined in the standard, e.g. T755. They use the same name as in the standard, beginning with a capital "T".

- the value actually implemented, with no suffix.

EXAMPLE 1: T_755.

2) non-standardized:

Those not defined in the standard, i.e. for execution use, e.g. a timer waiting for a response. These timers begin with the prefix "T_", followed by a string in lowercase letters with each word in the following string starting with an uppercase letter.

- the maximum value allowed, which will use the suffix "_Max";

EXAMPLE 2: T_712_Max,

6.1.1.10 ASP type definitions

No ASP are used in the test suite.

6.1.1.11 PDU type definitions

PDU identifiers start with an uppercase letter. The remaining part of the name is separated from the beginning with an underscore and is written in lowercase with each word starting with an uppercase letter.

EXAMPLE : D_Group_End
D_Ech_Reject.

6.1.1.12 Alias definitions

No alias are used in the test suite.

6.1.2 Constraints part

This subclause describes the naming conventions chosen for the elements of the ATS constraints part.

Constraint identifiers start with an uppercase letter. The remaining part of the name is separated from the beginning with an underscore and is written in lowercase with each word starting with an uppercase letter.

Identifier names of elements concerning the same subject have equivalent names in the declaration and the constraint part:

- Declaration part: U_Call_Intrusion_Pc
- Constraint part : U_Call_Intrusion_Pc_def

The name of the modified constraint describes the particularity of the modified constraint:

EXAMPLE : U_Group_Activation_flash_normal

If formal parameter lists are used, the variable names are written in lowercase. The variable name is the same as the name of the element it is representing ending with suffix _p

EXAMPLE : rtref_p

6.1.3 Dynamic part

This subclause describes the naming conventions chosen for the elements of the ATS dynamic part.

6.1.3.1 Test case identifier

The identifier of a TC is built according to table 2:

Table 2: TC naming convention

<ts>/<fm>/<x>/<s>/<nn>		
<ts> = test suite	APPLI	Applicative Layer
<fm> = functional module or subentity	PC/CC/NS/NVS	Private Call/ Call Control / Network connected mode Services / Network Connected Mode Voice Services
	GC/CC/NS/NVS	Group Communication/ Call Control / Network connected mode Services / Network Connected Mode Voice Services
	E/CC/NS/NVS	Emergency/ Call Control / Network connected mode Services / Network Connected Mode Voice Services
	D	Data
	MM	Mobility Management
<x> = Type of Testing	BIT	Basic Interconnection Tests
	CA	Capability tests
	BV	Valid Behaviour Tests
	BI	Invalid Behaviour tests
	TI	Time expiry and counter mismatch tests
<s> = test subgroup (as many subgroup as required)		as defined in the test suite structure
<nn> = sequential number	(1-99)	Test Purpose Number

6.1.3.2 Test step identifier

The test step identifier is built with strings of capital letters joined by underscore characters fallowed by strings of lowercase letters. The first string indicates the kind of test step. It can be of four kinds :

- Preamble : two possibilities

    1. PRE_NAME_OF_THE_REACHED_STATE_information_elements

        EXAMPLE : PRE_CONVERSATION_u_call_setup_routine

        EXAMPLE : PRE_COM_PART_ON_CCH_och_routine

    2. PRE_ACTION_DONE_information_elements

        EXAMPLE : PRE_INFO_DELIVERY_crisis_notif

- Step : STP_NAME_OF_THE_FUNCTION_DONE_information_elements

EXAMPLE : STP_EMERG_REQ

- Postamble : PST_NAME_OF_THE_LEAVED_STATE_information_elements

  EXAMPLE : PST_CONVERSATION_release

  EXAMPLE : PST_COM_PART_ON_CCH_tkg

- Implicit Send : IMP_NAME_OF_THE_SIGNAL_SENT_information_elements

  IMP_U_CALL_SETUP_flash.

Note that information elements are facultative.

6.1.3.3 Default identifier

One default identifier is used : OtherwiseFail.

6.2 TC and TP mapping

There is a one-to-one mapping between the TC identifiers and the TP identifiers. The correspondence rule is given by the following examples:

TP(Test Purpose) identifier	TC (Test Case) identifier
APPLI/CC/NS/NVS/PC/BV/CC-01	pcbvcc1
APPLI/CC/NS/NVS/GC/BV/OCHSU-03	gcbvochsu3
APPLI/CC/NS/NVS/E/TI-01	eti1
APPLI/D/BMS/BV/BN-01	dbmsbvbn1
APPLI/MM/BV/RE-05	mmbvre5

Annex A (normative): ATS for TETRAPOL APPLI layer

The ATS is written in TTCN according to ISO/IEC 9646-3 [10].

As the ATS was developed on a separate TTCN tool the TTCN tables are not completely referenced in the contents table of this ETS. The ATS itself contains a test suite overview part which provides additional information and references.

A.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in a Postscript file (pas000194.ps).

NOTE: This file is available on a floppy disk, on request.

A.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII text file (pas000194.mp).

NOTE: This file is available on a floppy disk, on request.

NOTE 2: According to ISO/IEC 9646-3 [10], in case of a conflict in interpretation of the operational semantics of TTCN.GR and TTCN.MP, the operational semantics of the TTCN.GR representation takes precedence.

Annex B (normative): Partial PIXIT proforma for TETRAPOL APPLI layer

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

The PIXIT proforma is based on ISO/IEC 9646-6 [12]. Any additional information needed can be found in this international standard.

B.1 Identification summary

Table B.1

PIXIT Number:	
Test Laboratory Name:	
Date of Issue:	
Issued to:	

B.2 ATS summary

Table B.2

Protocol Specification:	PAS 0001-3-1
Protocol to be tested:	Air Interface Applicative Protocol
ATS Specification:	PAS 0001-9-4
Abstract Test Method:	Remote test method, embedded variant

B.3 Test laboratory

Table B.3

Test Laboratory Identification:	
Test Laboratory Manager:	
Means of Testing:	
SAP Adress:	

B.4 Client identification

Table B.4

Client Identification:	
Client Test Manager:	
Test Facilities required:	

B.5 SUT

Table B.5

Name:	
Version:	
SCS Number:	
Machine configuration:	
Operating System Identification:	
IUT Identification:	
PICS Reference for IUT:	
Limitations of the SUT:	
Environmental Conditions:	

B.6 Protocol layer information

B.6.1 Protocol identification

Table B.6

Name:	
Version:	
PICS References:	

B.6.2 IUT information

B.6.2.1 Implicit send events

Table B.7: Implicit send events

Item	PIXIT (See note)	Related implicit send message (PDU)	Invocation description
1	IMP_U_CALL_SETUP_routine	Cause IUT to send a U_CALL_SETUP PDU using routine priority	
2	IMP_U_CALL_SETUP_flash	Cause IUT to send a U_CALL_SETUP PDU using flash priority	
3	IMP_U_CALL_SETUP_multiparty_routine	Cause IUT to send a U_CALL_SETUP PDU for a multiparty call using routine priority	
4	IMP_U_CALL_SETUP_multiparty_flash	Cause IUT to send a U_CALL_SETUP PDU for a multiparty call using flash priority	
5	IMP_U_CALL_SETUP_routine_user_priority	Cause IUT to send a U_CALL_SETUP PDU using routine priority and user priority	
6	IMP_U_CALL_SETUP_routine_hook	Cause IUT to send a U_CALL_SETUP PDU using routine priority and hook mode field	
7	IMP_U_CALL_ANSWER_def	Cause IUT to send a U_CALL_ANSWER PDU	
8	IMP_U_CALL_RELEASE_routine	Cause IUT to send a U_CALL_RELEASE PDU using routine priority	
9	IMP_U_CALL_RELEASE_flash	Cause IUT to send a U_CALL_RELEASE PDU using flash priority	
10	IMP_U_CALL_INTRUSION_PC_def	Cause IUT to send a U_CALL_INTRUSION_PC PDU	
11	IMP_U_TERMINATE_routine_normal	Cause IUT to send a U_TERMINATE PDU using routine priority and normal cause	
12	IMP_U_TERMINATE_flash_normal	Cause IUT to send a U_TERMINATE PDU using flash priority and normal cause	
13	IMP_U_TERMINATE_cleared_by_user	Cause IUT to send a U_TERMINATE PDU using cleared by user cause	
14	IMP_U_TERMINATE_ns	Cause IUT to send a U_TERMINATE PDU	
15	IMP_U_TRANSFER_REQ_routine	Cause IUT to send a U_TRANSFER_REQ PDU using routine priority	
16	IMP_U_TRANSFER_REQ_flash	Cause IUT to send a U_TRANSFER_REQ PDU using flash priority	
17	IMP_U_OCH_SETUP_routine	Cause IUT to send a U_OCH_SETUP PDU using routine priority	

18	IMP_U_OCH_SETUP_crisis	Cause IUT to send a U_OCH_SETUP PDU using crisis priority	
19	IMP_U_OCH_SETUP_broadcast	Cause IUT to send a U_OCH_SETUP PDU using broadcast priority	
20	IMP_U_OCH_SETUP_flash	Cause IUT to send a U_OCH_SETUP PDU using flash priority	
21	IMP_U_OCH_SETUP_one_group_id	Cause IUT to send a U_OCH_SETUP PDU using one group_id field	
22	IMP_U_OCH_SETUP_three_group_id	Cause IUT to send a U_OCH_SETUP PDU using three group_ids field	
23	IMP_U_GROUP_ACTIV_open_channel_routine	Cause IUT to send a U_GROUP_ACTIVATION PDU for an open channel using routine priority	
24	IMP_U_GROUP_ACTIV_open_channel_crisis	Cause IUT to send a U_GROUP_ACTIVATION PDU for an open channel using crisis priority	
25	IMP_U_GROUP_ACTIV_talkgroup_routine	Cause IUT to send a U_GROUP_ACTIVATION PDU for a talkgroup using routine priority	
26	IMP_U_OCH_RELEASE_routine	Cause IUT to send a U_OCH_RELEASE PDU using routine priority	
27	IMP_U_OCH_RELEASE_crisis	Cause IUT to send a U_OCH_RELEASE PDU using crisis priority	
28	IMP_U_OCH_RELEASE_broadcast	Cause IUT to send a U_OCH_RELEASE PDU using broadcast priority	
29	IMP_U_OCH_RELEASE_flash	Cause IUT to send a U_OCH_RELEASE PDU using flash priority	
30	IMP_U_ECH_ACTIVATION_def	Cause IUT to send a U_ECH_ACTIVATION PDU	
31	IMP_U_EMERGENCY_REQ_def	Cause IUT to send a U_EMERGENCY_REQ PDU	
32	IMP_U_SHORT_DATA_def	Cause IUT to send a U_SHORT_DATA PDU	
33	IMP_U_ECH_SETUP_def	Cause IUT to send a U_ECH_SETUP PDU	
34	IMP_U_ECH_CLOSE_def	Cause IUT to send a U_ECH_CLOSE PDU	
35	IMP_U_DATA_REQUEST_def	Cause IUT to send a U_DATA_REQUEST PDU	
36	IMP_U_EVENT_REPORT_insufficient_tch_quality	Cause IUT to send a U_EVENT_REPORT PDU using insufficient tch quality cause	
37	IMP_U_EVENT_REPORT_power_supply_failure	Cause IUT to send a U_EVENT_REPORT	

		PDU using power supply failure cause	
38	IMP_U_DETACH_power_supply_failure	Cause IUT to send a U_DETACH PDU using power supply failure cause	
39	IMP_U_DETACH_user_erasure_indication	Cause IUT to send a U_DETACH PDU using user erasure indication cause	
40	IMP_U_DEVIATION_SET_def	Cause IUT to send a U_DEVIATION_SET PDU	
41	IMP_U_DEVIATION_CLEAR_def	Cause IUT to send a U_DEVIATION_CLEAR PDU	
42	IMP_U_ATTACH_com_change	Cause IUT to send a U_ATTACH PDU using communication change cause	
43	IMP_U_ABORT_cleared_by_user	Cause IUT to send a U_ATTACH PDU using cleared by user cause	
44	IMP_U_EMPTY_def	Cause IUT to send a U_EMPTY PDU	
NOTE: The PIXIT names for the implicit send events in this table are the same as those of the test steps in which the implicit send events are used.			

B.6.2.2 Parameter values

Table B.8: Parameter values

Item	Parameter	Parameter type	Explanation	Value or reference
	TSPIX_ADDRESS_IUT	INTEGER	Address of IUT.	
	TSPIX_CHANNEL_ID	BIT_STRING	Number allocated to a channel (CCH, VCH, DCH) that shall identify a channel within the system.	
	TSPIX_U_CCH_SCRAMBLING	OCTET_STRING	Uplink control channel scrambling parameter.	
	TSPIX_U_TCH_SCRAMBLING	OCTET_STRING	Uplink traffic channel scrambling parameter.	
	TSPIX_D_CCH_SCRAMBLING	OCTET_STRING	Downlink control channel scrambling parameter.	
	TSPIX_D_TCH_SCRAMBLING	OCTET_STRING	Downlink traffic channel scrambling parameter.	
	TSPIX_ORGANISATION	OCTET_STRING	Identity of the organisation of the IUT.	
	TSPIX_TTI_VALID	OCTET_STRING	Valid Temporary IUT identifier	
	TSPIX_USER_PRIORITY	UserPriority	User Priority of the IUT.	
	TSPIX_SYSTEM_ID	OCTET_STRING	Number that shall identify the system and the product version in the country.	
	TSPIX_SERIAL_NB	OCTET_STRING	IUT serial number.	
	TSPIX_RT_STATUS	OCTET_STRING	IUT status vector.	
	TSPIX_RT_ACCESS_CLASS	OCTET_STRING	IUT Registration Access Class	
	TSPIX_FIX_MOBILE	INTEGER	Number that identifies the kind of the IUT (fix or mobile)	
	TSPIX_COUNTRY_CODE	OCTET_STRING	Country code of the network.	
	TSPIX_BN_ID	OCTET_STRING	Identity of base network in the system.	
	TSPIX_CELL_ID	BIT_STRING	Cell identifier in the base network.	
	TSPIX_CELL_ID_NEW	BIT_STRING	Cell identifier in the base network.	
	TSPIX_ANTI_TALKATIVE	INTEGER	Duration of antitalkative mecanism	
	TSPIX_RT_DATA_INFO	OCTET_STRING	IUT status concerning Data	

Annex C (normative): Protocol Conformance Test Report (PCTR) proforma for TETRAPOL APPLI layer

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

The PCTR Proforma is based on ISO/IEC 9646-6 [12]. Any additional information needed can be found in this international standard.

C.1 Identification summary

C.1.1 Protocol conformance test report

Table C.1

PCTR number:	
PCTR date:	
Corresponding SCTR number:	
Corresponding SCTR date:	
Test laboratory identification:	
Test laboratory manager:	
Signature:	

C.1.2 IUT identification

Table C.2

Name:	
Version:	
Protocol specification:	
PICS:	
Previous PCTR if any:	

C.1.3 Testing environment

Table C.3

PIXIT number:	
ATS specification:	PAS 0001-9-4
Abstract test method:	Remote test method, embedded variant
Means of testing identification:	
Date of testing:	
Conformance log reference(s):	
Retention date for log reference(s):	

C.1.4 Limits and reservation

Additional information relevant to the technical contents or further use of the test report, or the rights and obligations of the test laboratory and the client, may be given here. Such information may include restriction on the publication of the report.

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C.1.5 Comments

Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.

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C.2 IUT conformance status

This IUT has or has not been shown by conformance assessment to be non-conforming to the specified protocol specification.

Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements as specified in clause C.3 in this report and there are no "FAIL" verdicts to be recorded in clause C.6 strike the words "has or". otherwise strike the words "or has not".

C.3 Static conformance summary

The PICS for this IUT is or is not consistent with the static conformance requirements in the specified protocol.

Strike the appropriate words in this sentence.

C.4 Dynamic conformance summary

The test campaign did or did not reveal errors in the IUT.

Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded in clause C.6 of this report strike the words "did or" otherwise strike the words "or did not".

Summary of the results of groups of test:

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C.5 Static conformance review report

If clause C.3 indicates non-conformance, this subclause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.

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C.6 Test campaign report

Table C.4

ATS reference	Selected	Run	Verdict	Observations (see note)
APPLI_CC_NS_NVS_PC_BV_OC_01	Yes/No	Yes/No		
APPLI_CC_NS_NVS_PC_BV_OC_02	Yes/No	Yes/No		
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APPLI_MM_BV_ID_03	Yes/No	Yes/No		
APPLI_MM_BV_ID_04	Yes/No	Yes/No		
APPLI_MM_TI_01	Yes/No	Yes/No		

C.7 Observations

Additional information relevant to the technical content of the PCTR are given here.

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Annex D (informative): Bibliography

- ETR 141: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; The Tree and Tabular Combined Notation (TTCN) style guide".

7. History

Document history		
Date	**Status**	**Comment**
18 December 1998	First version	Version 0.0.1