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Contents

Foreword

Part 2 of this European Telecommunication Standard (ETS) was produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS comprises two Parts:

"Terminal Equipment (TE); Programmable Communication Interface (PCI) APPLI/COM for facsimile group 3, facsimile group 4, teletex and teletex services;

Part 1: CCITT Recommendation T.611 (1992) [modified];

Part 2: Conformance testing".

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Date of adoption of this ETS:	10 November 1995
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Introduction

This second Part of ETS 300 243 describes the conformance testing of APPLI/COM Programmable Communication Interfaces (PCIs). ETS 300 243-1 [1] endorses CCITT Recommendation T.611 [2], which is known as APPLI/COM PCI. As described in CCITT Recommendation T.611 [2], an APPLI/COM PCI is located within a TE between two entities, a Communication Application (CA) as service provider and a Local Application (LA) as service user. The services provided by the CA and used by the LA are services such as sending a document, receiving a document or tracing document transmissions. This second Part of the ETS describes the testing of the conformance of both entities - CA and LA - with respect to the interface behaviour.

The reason for providing this Part of the ETS was to give developers assistance in the testing of their commercial products as well as to make test laboratories able to perform fair testing on different APPLI/COM products that claim conformance to the APPLI/COM PCI standard. It is expected that CA testing will be mainly performed by test laboratories, whereas LA testing is rather seen as assistance to LA developers.

Since no former material exists on which the description of conformance testing of PCIs could rely, the terminology and notation for describing the testing was deduced from ISO/IEC 9646, Parts 1 to 4 [3]. ISO/IEC 9646 [3] is a general framework for conformance testing of OSI layer protocols. However, because a PCI is not a protocol, adaptation of certain terms and notations to the requirements of PCIs were necessary. They are described at appropriate places in this ETS.

Besides the general clauses describing test methodology and adaptation of ISO/IEC 9646 [3], this ETS contains two separate Abstract Test Suite (ATS) descriptions using (adapted) Tree and Tabular Combined Notation (TTCN). Hence the testing of either component - CA or LA - can be set up and carried out independently of each other. In both cases, this ETS tries to provide the shortest list of test cases necessary to be confident in the conformance of the interface implementation under test. However, passing the test suites does not guarantee good performance nor does it guarantee reliability in any environment.

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1 Scope

Part 2 of this ETS describes the conformance testing of APPLI/COM Programmable Communication Interfaces (PCIs) that claim conformance to ETS 300 243-1 [1], which in turn endorses CCITT Recommendation T.611 [2], with certain ETSI modifications.

The aim of this Part of the ETS is to define conformance tests and methods which ensure, when applied, that:

- a conforming implementation of a Local Application (LA) can work together with a conforming implementation of a Communication Application (CA). The LA can coexist, access and communicate with the CA from within the Terminal Equipment (TE) of the LA;

- a conforming implementation of a CA offers and carries out the functionality and features declared and covered by one of the functional classes defined by CCITT Recommendation T.611 [2].

The intention of this Part of the ETS is to test one LA to one CA relation.

When many LAs are present within the same TE, many LAs to one CA relation, testing of the LAs need to handle one LA at a time. To ensure conformance in the case of a many LA to one CA relationship, test cases are provided exclusively for testing the CA conformance with respect to multiple LAs.

When many CAs are accessible from within the same TE, the testing of the CAs needs to be carried out one CA at a time. No special test cases are provided for the case of multiple CAs in the same equipment.

2 Normative references

Part 2 of this ETS incorporates by dated and undated references, 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 Part of the ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1] ETS 300 243-1 (1995): "Terminal Equipment (TE); Programmable Communication Interface (PCI) APPLI/COM for facsimile group 3, facsimile group 4, teletex and telex services; Part 1: CCITT Recommendation T.611 (1992) [modified]".

[2] CCITT Recommendation T.611 (1992): "Programmable Communication Interface (PCI) APPLI/COM for facsimile group 3, facsimile group 4, teletex and telex services".

[3] ISO/IEC 9646: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework

Part 1: General concepts;

Part 2: Abstract Test Suite specification;

Part 3: The Tree and Tabular Combined Notation (TTCN);

Part 4: Test realization".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this Part of the ETS, the following definitions apply along with those given in CCITT Recommendation T.611 [2] and ISO/IEC 9646 [3].

Communication Application Emulator (CA Emulator): Lower Local Application (LA) Tester, emulating a CA.

Local Emulation Application (LA Emulator): Upper CA Tester, emulating a LA.

LA User: Upper LA Tester; test entity using the LA under test.

Lower LA PCO: Point of Control and Observation (PCO) for LA testing, located "below" the LA towards the CA Emulator.

Lower CA PCO: Point of Control and Observation (PCO) for CA testing, located "below" the CA towards the network or the Remote Test Equipment respectively.

Remote Test Equipment: Lower CA Tester, simulating a remote device.

Upper CA PCO: PCO for CA testing, located "above" the CA towards the LA Emulator.

Upper LA PCO: PCO for LA testing, located "above" the LA towards the LA User.

3.2 Abbreviations

For the purposes of this Part of the ETS, the following abbreviations apply:

ASP	Abstract Service Primitive
ATS	Abstract Test Suite
BIT	Basic Interconnection Test
CA	Communications Application
CA Emulator	Common Application Emulator
EM	Exchange Method
ICE	Interface Configuration Environment
IUT	Implementation Under Test
LA	Local Application
LA Emulator	Local Application Emulator
PCI	Programmable Communication Interface
PCO	Point of Control and Observation
PDU	Protocol Data Unit
PICS	PCI Implementation Conformance Statement
PIUT	PCI Implementation Under Test
PIXIT	PCI Implementation eXtra Information for Testing
TDD	Task Data Description
TSS	Test Suite Structure
TTCN	Tree and Tabular Combined Notation
TE	Terminal Equipment
TF	Transfer Formats

4 PCI testing model

4.1 Overview

CCITT Recommendation T.611 [2] and ETS 300 243-1 [1] define an interface (called the APPLI/COM interface) between LAs and CAs. The use of this APPLI/COM interface allows the sending and receiving of documents through telematic services (e.g. facsimile, telex or Teletex).

Two kinds of implementations can be derived from the above-mentioned standards: Local Applications (LAs) and Communication Applications (CAs). A LA may dialogue with one or many CAs simultaneously. Conversely, a CA may service one or many LAs simultaneously.

This Part of the ETS defines the testing of the interactions between LAs and CAs claiming conformance to the above-mentioned standards. It is important to notice that this ETS does not test the effects resulting from the use of the interface. For instance, this ETS ensures that a CA correctly handles SEND TDD requests, it understands it correctly; but it does not ensure that the further actions undertaken by the CA are correct, i.e. that it effectively sends the documents to the intended recipient, nor does it test that the underlying communication protocols are well implemented.

Similarly, the ETS ensures that the LA generates correct Task Data Descriptions (TDDs) and understands the responses; however, this ETS provides no means to check that the LA reacts appropriately to a given TDD response.

To summarise, only "visible" events at the CA-LA interface are covered by this ETS. All other events are outside the scope of this ETS.

The APPLI/COM interface, as described in CCITT Recommendation T.611 [2], conveys information between two entities (LAs and CAs). This exchange has two aspects: the dynamic aspect which covers the interactions themselves, i.e. "how exchanges are done" and the static aspect which covers the pieces of information exchanged, i.e. "what is exchanged".

Testing implementations that claim conformance to the APPLI/COM interface implies testing conformance to both the static aspect and the dynamic aspect.

4.2 PCI interfaces and ISO/IEC 9646

In the course of building this testing Part of the ETS, consideration was taken of existing material dealing with tests in general. ISO/IEC 9646 [3] was especially studied. ISO/IEC 9646 [3] explicitly states that it applies only to protocols of the OSI stack. Since PCIs are interfaces and not protocols, there should be no point in applying ISO/IEC 9646 [3] concepts to the testing of PCI interfaces.

However, most of the principles described in the ISO/IEC 9646 [3] can apply to the testing of PCI interfaces, and especially to the APPLI/COM interface as described in CCITT Recommendation T.611 [2]. This is possible by mapping some of the ISO/IEC 9646 [3] concepts onto PCI testing concepts. In particular, it is necessary to map Abstract Service Primitives (ASPs) and Protocol Data Units (PDUs) onto PCI concepts. Similarly, Tree and Tabular Combined Notation (TTCN) statements need to be adapted to the PCI environment of Abstract Test Suites (ATSs). Clause 5 of this Part of the ETS describes the changes and adaptations that are required to carry out the testing of APPLI/COM implementations.

4.3 Model

Testing implementations that conform to the APPLI/COM interface follow the general model described below.

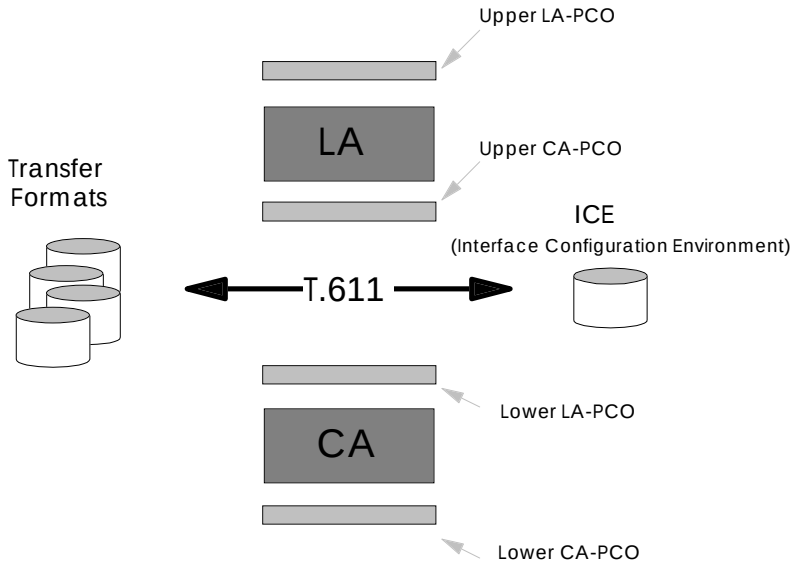

Figure 1: Placement of the various PCOs related to the APPLI/COM interface

Figure 2 depicts the PCOs used for testing an LA-CA interaction, which observe the LA behaviour. These PCOs are called the Upper LA PCO and the Lower LA PCO for the remainder of this ETS.

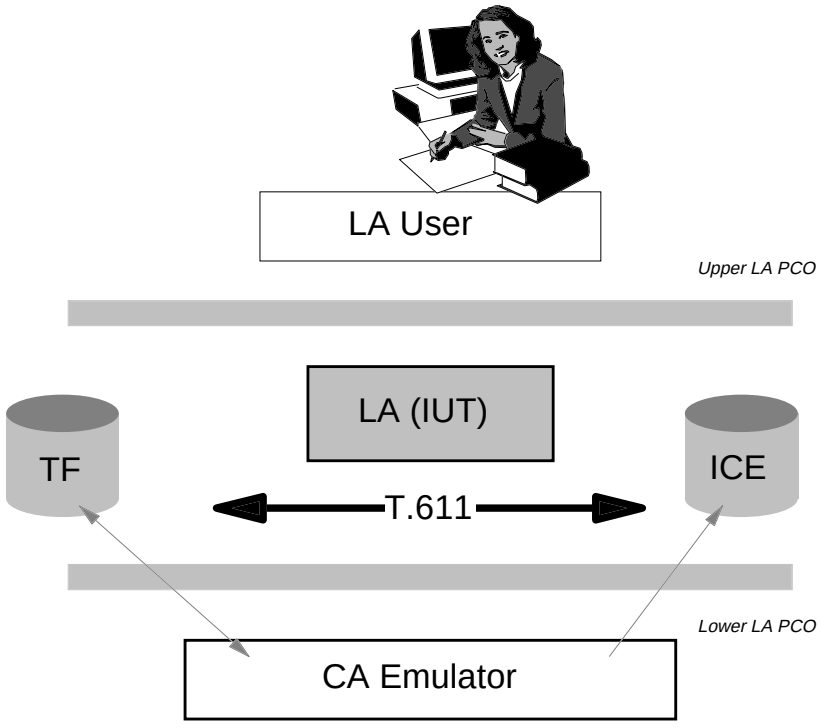

Figure 2: PCOs used to observe the LA behaviour

Figure 3 shows the Upper CA PCO and Lower CA PCO used to observe the CA behaviour.

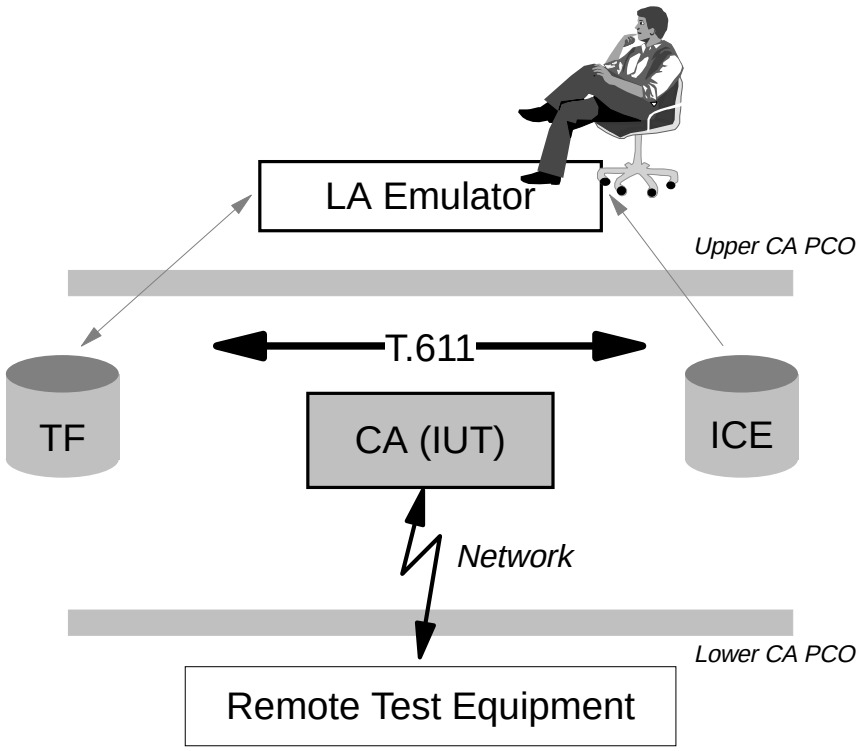

Figure 3: PCOs used to observe the CA behaviour

CCITT Recommendation T.611 [2] defines the APPLI/COM interface between LAs and CAs. It also gives information about the internal behaviour of the CA so that it can fulfil the requirements of the interface. However no information is given on the internal behaviour of LAs. Since the APPLI/COM interface obeys the client-server model, very few constraints are placed on the LA (client). On the opposite, the CA acts as a server and shall respect specific constraints. The following subclauses identify where control and observation of meaningful information can occur in a LA-CA configuration. The location of these specific points are called Points of Control and Observation (PCOs).

According to CCITT Recommendation T.611 [2], an LA can use multiple CAs simultaneously. Conversely, a CA may service multiple LAs at the same time. Testing of such configurations shall be achieved on a single LA-CA interaction basis, i.e. by repeating the test suite execution for each pair of possible LA-CA couples involved.

4.3.1 Lower LA PCO

The Lower LA PCO is positioned at the location where a CA would normally be placed. The Lower LA PCO can be considered at the upper border of a "virtual" CA.

At the Lower LA PCO, one can observe:

- how the LA uses the Exchange Mechanism;
- TDD Requests generated by the LA;
- transfer formats of the files exchanged with CAs.

At the Lower LA PCO, one can control:

- how the LA reacts to information contained in the Interface Configuration Environment (ICE).

A lower LA Tester for the APPLI/COM interface can be defined: the lower LA Tester takes the place of the "virtual" CA. The lower LA Tester can be physically located on the same system or on a remote system.

When the Upper LA PCO (as defined in subclause 4.3.2) is not defined on the LA to be tested, the Lower LA PCO serves as a point of observation only. No control from the Lower LA PCO can be exercised on

such a configuration because the effects of such control cannot be observed at the upper boundary of the LA under test.

4.3.2 Upper LA PCO

The Upper LA PCO is positioned at the location where a user would normally be placed. The Upper LA PCO can be considered at the upper border of a "virtual" LA. This PCO may exist on some configurations but is not required on all systems. When it exists, the following applies.

At the Upper LA PCO, one can observe:

- how the LA reacts to ICE information;
- the result of received incoming events.

At the Upper LA PCO, one can control:

- the generation of specific TDDs by the LA.

An Upper LA tester can also be defined in order to observe the LA reactions. It resides at the upper boundary of the LA. This specific boundary is not defined by CCITT Recommendation T.611 [2], therefore, it cannot be described formally.

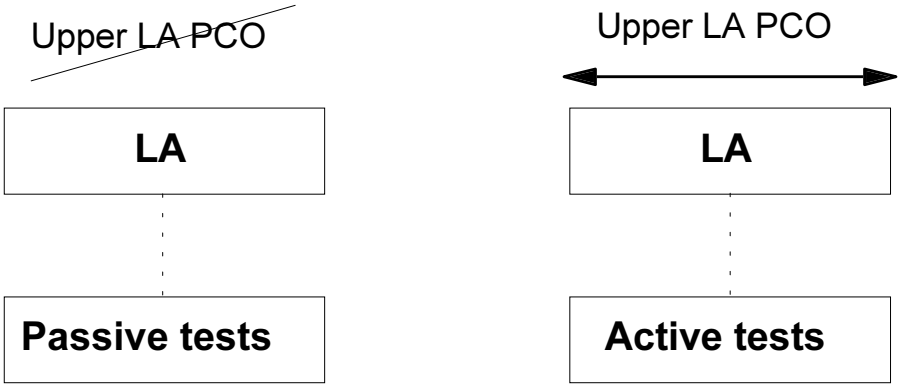

Figure 4: When no Upper LA PCO exists, only "passive" LA tests may be carried out

4.3.3 Upper CA PCO

The CA-PCO is positioned at the location where a LA would normally be placed. The CA-PCO can be considered at the lower border of a "virtual" LA. The Upper CA PCO may be located on a physical system different from that of the CA.

At the upper CA PCO, one can observe:

- the CA's reactions to the Exchange Method functions;
- the CA's behaviour through the TDD Responses that it generates;
- how the CA handles the transfer format of the files exchanged between the LA and the CA.

At the upper CA PCO, one can control:

- the CA's reactions to the use of the Exchange Mechanism functions;
- the CA's behaviour by submitting TDD Requests;
- the CA's handling of exchanged files according to the transfer formats that it supports.

The ICE contains specific information that shall be used to carry out the tests.

The Upper CA Tester shall be located at the Upper CA PCO. The Upper CA Tester is the main tester for CAs.

4.3.4 Lower CA PCO

The lower CA PCO is located at the boundary of the CA system, where the telecommunications actually occur. The lower CA PCO is placed outside the system hosting the CA. The location of the lower CA PCO does not depend on the telecommunication services involved.

At the lower CA PCO, one can control:

- the CA's capability to receive information from the telecommunications services.

At the lower CA PCO, one can observe:

- the CA's capability to actually send information through a CA supported telecommunications service.

A lower CA tester can be used to observe and control the CA reactions. This is especially useful to check the receiving capabilities of the CA and how the CA reflects these capabilities at the APPLI/COM interface level. The lower CA tester will be typically placed on a telecommunication line, outside the system hosting the CA. The lower CA tester therefore depends on the telecommunication services involved.

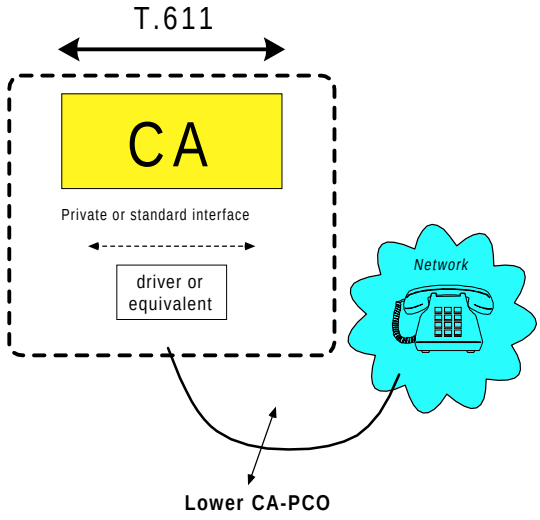

Figure 5: The lower CA PCO resides outside the system hosting the CA

5 Testing procedure

This clause describes the testing procedures. Furthermore it shows how the terms and notations of ISO/IEC 9646 [3] shall be interpreted and applied to the testing.

The test procedures described as follows are more precise than the standard itself. So, a PCI Implementation Under Test (PIUT) may in fact conform to an interpretation of the related standard (CCITT Recommendation T.611 [2]) but fail the tests provided within this ETS. However, in the latter case, that PIUT is not allowed to call itself conformant to this ETS.

Following ISO/IEC 9646 [3], one could derive three main elements necessary in order to describe the testing of a PIUT:

- the PCI Implementation Conformance Statements (PICS);
- the PCI Implementation eXtra Information for Testing (PIXIT);
- the Abstract Test Suite (ATS) itself.

These parts are described in the following subclauses.

5.1 PCI Implementation Conformance Statement (PICS)

The PICS shall be used in exactly the same way as the Protocol Interface Conformance Statement defined in ISO/IEC 9646 [3]. That means, that a PICS Proforma shall be filled out by the PIUT provider prior to testing.

Besides other information, the PIUT provider shall state in the PICS Proforma:

- whether it is an LA or a CA;
- which version(s) of CCITT Recommendation T.611 [2] it supports;
- which telecommunication service(s) it supports;
- which Functional Class it implements;
- which environment(s) it supports.

Furthermore, the PIUT provider may state:

- as a CA: which features it provides;
- as a LA: on which specific features it relies.

To be able to be tested, a PIUT provider shall implement, and shall state accordingly in the PICS, at a minimum:

- one telecommunication service;

- one Functional Class;

- all the basic keywords for the TDDs belonging to the supported Functional Class and to the supported telecommunication services;

- the Exchange Method (EM) appropriate for the supported environment(s);

- the Transfer Format(s) appropriate for the supported telecommunication service(s).

Furthermore, the conforming PIUT shall respect the procedures expressed in CCITT Recommendation T.611 [2], clauses 7, 8 and 10.

ISO/IEC 9646 [3] states that a PICS Proforma should normally be provided by the standard the conformance testing is related to. However, since this is not the case with CCITT Recommendation T.611 [2], which serves as the base standard for this ETS, the PICS Proforma to be used for the CA and LA test suites are provided in annex A to this Part of the ETS.

5.2 PCI Implementation eXtra Information for Testing (PIXIT)

The PIXIT shall be used exactly in the same way as the Protocol Implementation eXtra Information for Testing defined in ISO/IEC 9646 [3]. Thus, the PIXIT shall contain all the information a tester needs to know in order to set up the test system. As a consequence, a PIXIT Proforma shall be completed by the PIUT provider. The PIXIT Proformas to be used are provided by this ETS. They are shown in annex B.

5.3 ATS

The term Abstract Test Suite (ATS) is as defined in ISO/IEC 9646 [3]. For the purpose of testing both the CA and LA, two ATSs have been designed. Figure 6 gives an overview of the structure of both.

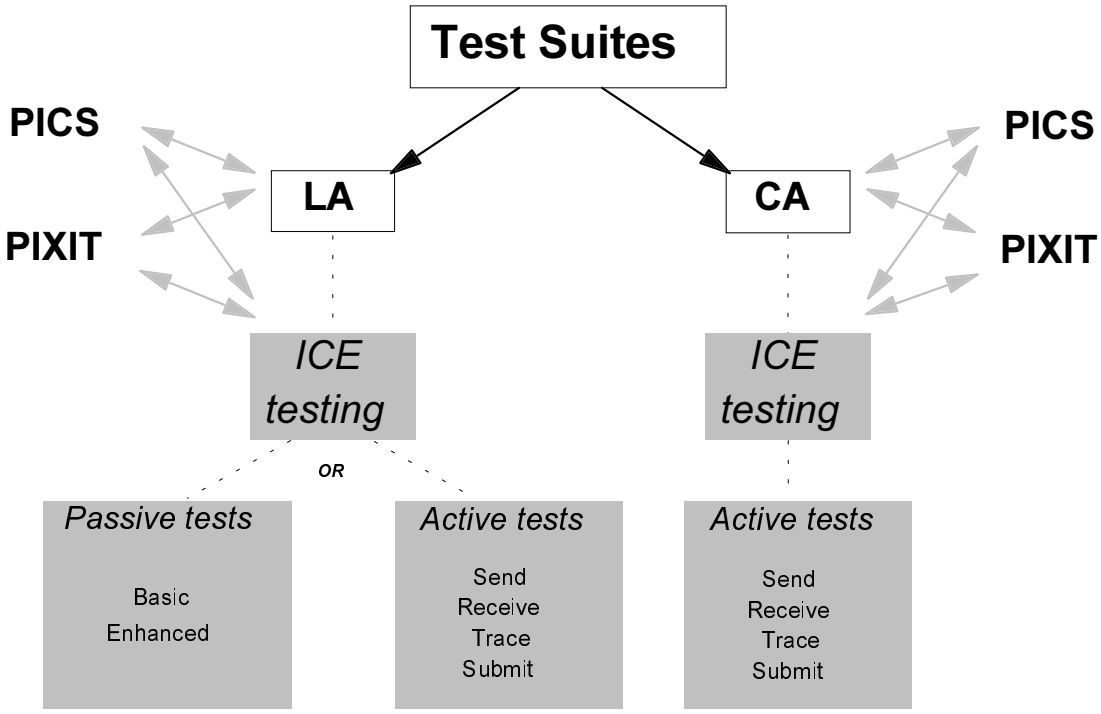

Figure 6: Abstract Test Suites

It is expected that CA testing will be mainly performed by test laboratories, whereas LA testing is rather seen as assistance for LA developers.

Within both ATSs, CA and LA, static and dynamic behaviours are described using Tree and Tabular Combined Notation language (TTCN). The ATSs for the CA and the LA itself are shown in clauses 6 and 7 respectively.

5.3.1 Mapping of TTCN terms

As stated earlier, to work with APPLI/COM PCIs, some terms have to be mapped on terms used within TTCN:

- the functions of the Exchange Method (EM) of the PCI correspond to the Abstract Service Primitives (ASPs) as defined in ISO/IEC 9646 [3];

- the Task Data Descriptions (TDDs) of the PCI correspond to the Protocol Data Units (PDUs) as defined in ISO/IEC 9646 [3].

5.3.2 Limits and constants

For the sake of efficient testing of the APPLI/COM PCI, some limits and ranges for parameter values not specified in CCITT Recommendation T.611 [2] has been stated. They can be found in the related Simple Type Definitions of the ATS.

5.3.3 Testing of TDDs

TDDs are tested against syntax and semantics. The probes for these tests are taken at appropriate moments during the dynamic behaviour tests inside the ATS. The syntax of the TDDs is provided within the TDD Type Definitions inside the ATSs and in related annexes.

5.3.4 Transfer Format testing

In general, the testing of the Transfer Format occurs during the dynamic behaviour tests when the semantics check of the TDDs is performed. The testing of the Transfer Format varies according to the Transfer Format itself, as shown in table 1:

Table 1

Transfer Format	Convert-id	Operating System	Testing
APPLI/COM Extended ASCII	"ASCII" "ASCII437"	MS-DOS, Windows, OS/2	According to syntax definition
APPLI/COM Standard ASCII[2]	"T.50"	all	According to syntax definition
APPLI/COM TIFF	"TIFF"	all	According to syntax definition
Teletex Format	"T.61"	all	Testing is not defined by this ETS. There are existing Conformance Test standards which may be applied (see annex D).
Transparent Format	"VOID"	all	No test shall be performed.

The syntax definition for the Transfer Formats to be tested is given within the TF Type Definition and in related annexes.

5.3.5 ICE testing

The ICE is provided by the CA in the case of CA testing. In the case of LA testing, a test ICE is provided by the CA Emulator.

Testing the ICE covers two aspects:

- Does the ICE conform to CCITT Recommendation T.611 [2]? This aspect deals with the syntax of the contents. This mainly concerns the CA under test;

- is the LA reacting correctly to the ICE? This aspect deals with the dynamic behaviour of the LA. However, since the LA behaviour cannot always be observed, the LA reaction to the ICE may also be also difficult to seize. Only two LA attitudes can be tested: successful connection to the CA according to the ICE information, and proper reaction to ICE changes.

The syntax definition of the ICE is contained in the ATSs and in related annexes.

5.3.5.1 Reactions to the ICE (LA Test Suite)

For the sake of testing the LA reactions to the ICE file, some test ICEs are provided in form of ICE Type Definitions (see subclause 6.3.5). These test ICEs contains a single CA Descriptor. The tests are carried out by changing some parameters and keywords in the test ICE. The tester shall provide the test ICEs with a single CA Descriptor according to the Type Definitions provided.

Execution of these tests also requires a full-featured CA Emulator (i.e. belonging to Functional Class B, with all SUBMIT functions supported). Two types of tests can be conducted:

- connection tests, where it is observed whether the LA can successfully connect to the CA Emulator whose characteristics are described in a given test ICE;

- feature tests, where it is observed whether the LA can successfully utilise CA features that are described in the test ICE, with respect to the LA PICS/PIXIT information.

5.3.5.2 Connection test using ICE (LA Test Suite)

These tests are achieved by changing the test ICE, and asking the LA to connect to the CA according to the new ICE information. These shall to be carried out with the PICS/PIXIT information in hand.

When multiple EMs are supported, the tests shall be carried out on a per-EM basis. When multiple environments are supported, the tests shall be carried on a per-environment basis.

5.3.5.3 Features adaptation test using ICE (LA Test Suite)

The features adaptation tests can be performed when a point of observation is offered at the upper LA interface (Upper LA PCO). Otherwise no definite pass/fail statement can be given. These tests are achieved by changing the test ICE, and asking the LA to connect to the CA. The LA shall then invoke features that have been changed in the test ICE, with respect to the PICS/PIXIT limits. The LA should react accordingly, i.e.:

- when a feature is removed from the test ICE, the LA should not be able to invoke it;

- when a new feature is added to the test ICE, if the LA supports it (as stated in the PICS/PIXIT) the LA should be able to invoke it;

- when the way to apply/invoke a supported feature is changed, the LA should still be able to invoke it.

If all these conditions are met, a pass statement can be given to the LA.

For these tests to be carried out, a CA Emulator shall be used that supports all features listed below. The CA Emulator may be usefully configured for handling LA passive tests (see Test Group LA/Passive of the LA Test Suite).

Feature to test	LA support	(PICS Ref.)
DRF	DRF is supported	
PRINT	PRINT is supported	
CONVERT	CONVERT is supported	
CHECK	CHECK is supported	
TLX	TLX is supported	
TTX	TTX is supported	
FX3	FX3 is supported	
FX4	FX4 is supported	

5.4 Basic Interconnection Test (BIT)

Since the test suites are set up to be able to operate independently, the ability to interconnect shall be tested independently as well. Therefore a CA shall be tested against a LA Emulator and a LA shall be tested against a CA Emulator.

When the PIUT is a CA, the BIT consists of connecting the LA Emulator to the CA according to the ICE information provided by the CA.

When the PIUT is an LA, the BIT consists of connecting the LA to the CA Emulator. A test ICE shall be provided according to the related information contained in the PICS and given by the LA provider.

5.5 Many LA to one CA relationship

In case a CA implementation supports a service to more than one LA, the CA test suite provides two special test cases. In these test cases, **two** LA Emulators shall be connected to the CA. The test steps of the test case then shall be carried out alternately by each of the LA Emulators.

5.6 Documentation requirements

Although not normally part of conformance testing following ISO/IEC 9646 [3], there are some minimum requirements for documentation. This is because the interface is public and there is a strong need for the Interface users, on both sides, to be informed about some basic features in order to use the interface commercially.

5.6.1 CA documentation requirements

Since an LA relies on the properties claimed by CAs, the LA user needs precise information about them before selecting such a CA. Therefore CA implementations shall provide a documentation in which they shall state:

a) which version(s) of CCITT Recommendation T.611 [2] it supports;

b) which telecommunication service(s) it supports;

c) which Functional Class it implements;

d) which environment(s) it supports.

Additionally, this documentation should state:

1) which (additional) EM(s) it implements (file, primitive with/without alarm), if any;

2) which additional coding it supports, if any;

3) which additional (private) Transfer Formats it supports, if any;

4) support of ADDRLIST if so;

5) support of FILELIST if so;

6) support of DISPATCH (DRF) if so.

Finally, the CA documentation may state any additional features it offers, but only if they are (properly) explained. The layout of this documentation is free.

5.6.2 LA documentation requirements

LA implementations shall provide a documentation in which they shall state:

- which version(s) of CCITT Recommendation T.611 [2] they support;
- which telecommunication service(s) they support;
- which Functional Class it implements;
- which environment(s) it supports;
- which additional CA features it requires in order to run properly. The features should be explained.

The layout of this documentation is free.

6 CA Test Suite

6.1 Test Suite overview

6.1.1 Overview: Test Suite Structure (TSS)

NOTE: The Selection References used are found in the related PICS.

Test Suite Structure

Suite Name	:	T.611 CA Test Suite
Standards Reference	:	ETS 300 243-1 [1]
PICS Reference	:	Annex A of this ETS
PIXIT Reference	:	Annex B of this ETS
Test Methods	:	PCI test method as described in clause 4
Comments	:	

Test Group Reference	Selection Reference	Test Group Objective	Page Nr
CA/ICE		Test Syntax of ICE provided by CA	82
CA/Send		Test Send behaviours (Functions: SEND and SENDACK)	83
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6.1.2 Overview: Test Case Index

Test Case Index

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	tcSEND11ASCII		Send one document to one recipient (using the Send function) use the ASCII Transfer Format	83
	tcSEND11TIFF	FX3 FX4	Send one document to one recipient (using the Send function), use TIFF Transfer Format	84
	tcSEND11T61	TTX	Send one document to one recipient (using the Send function) use the T61 Transfer Format	84
	tcSEND11TIME1		Send one document to one recipient (using the Send function, send urgent)	85
	tcSEND11TIME2		Send one document to one recipient (using the Send function, send immediately)	85
	tcSEND11TIME3		Send one document to one recipient (using the Send function, send at a future time)	86
	tcSEND11TIME4		Send one document to one recipient (using the Send function, send at past time)	86
	tcSEND11SPEED	FX3	Send one document to one recipient (using the Send function, specifying a transmission speed)	87
	tcSEND21	FILELIST	Send many documents to one recipient (using the Send function)	87
	tcSEND12	ADDRLIST	Send one document to multiple recipients (using the Send function)	88
	tcSENDACK1		Send one document to one recipient (using the SendAck function)	89
	tcSENDACK2	FILELIST	Send many documents to one recipient (using the SendAck function)	90
	tcSENDACK1OPTS		Send one document to one recipient (using the SendAck function) and test the basic options	91

(continued)

Test Case Index (concluded)

6.1.3 Overview: Test Step Index

Test Step Index			
Test Group Reference	**Test Step Id**	**Description**	**Page Nr**
CA/LIBRARY	PutUC	Send a TDD to the CA, depending on the exchange method	109
CA/LIBRARY	PutUC1	Send a TDD to the CA, using LA Emulator No. 1, depending on the exchange method	109
CA/LIBRARY	PutUC2	Send a TDD to the CA, using LA Emulator No. 2, depending on the exchange method	110
CA/LIBRARY	GetUC	Retrieve a TDD from the CA, depending on the exchange method	110
CA/LIBRARY	FetchUC1	Retrieve a TDD from the CA, depending on the exchange method	110
CA/LIBRARY	FetchUC2	Retrieve a TDD from the CA, depending on the exchange method	111
CA/LIBRARY	CheckTDD	Check a TDD at the Upper CA PCO. Includes syntax and semantics check, but not check of a related document's transfer format.	111
CA/LIBRARY	LoadICE	Load and read ICE	112
CA/LIBRARY	ICESyntaxCheck	Check Syntax of ICE	112
CA/LIBRARY	LCDocCheck	Check that the presentation of the received document is the same as the sent document, depending on the telecommunication service.	112
CA/LIBRARY	UCDocCheck	Check that the presentation of the received document at the upper PCO is the same as the sent document, depending on the telecommunication service.	113
CA/LIBRARY	CheckTarget	Check presentation of target delivered by COPY function	113
CA/LIBRARY	CheckPrint	Check presentation of printout delivered by PRINT function	113
CA/LIBRARY	DoLogin	To ensure logged-in state. This step is a test preamble.	113
CA/LIBRARY	DoLogin1	To ensure logged-in state of LA Emulator No. 1. This step is a test preamble.	113
CA/LIBRARY	DoLogin2	To ensure logged-in state of LA Emulator No. 2. This step is a test preamble.	113

6.1.4 Overview: default index

There are no Default Behaviour Definitions. The Behaviours are always described completely in the Test Case Dynamic Behaviours itself.

6.2 CA Test Suite: Declarations

6.2.1 Declaration: Test Components

Test Component Declarations		
TC Name	**TC Role**	**Comments**
LA Emulator	Main Test Component	LA-Emulator for controlling and observing Interface from the LA side (Upper CA tester).
Remote Test Equipment	Parallel Test Component	Remote Device Emulator for tests of the send and receive behaviour by monitoring and manipulating network data (Lower CA tester).

6.2.2 Declaration: Test Component Configurations

Test Component Configuration Declarations			
Configuration Name : Standard-CA-Environment **Comments** : Configuration to test CA being the only one in the terminal equipment.			
TCs Used	**PCOs Used**	**CPs Used**	**Comments**
LA Emulator	UC		Upper CA tester
Remote Test Equipment	LC	UC-LC-CP	Lower CA tester

Test Component Configuration Declarations			
Configuration Name : Many-LA-One-CA-Environment **Comments** : Configuration to test CA being the only one in the terminal equipment, but serving at least two LAs.			
TCs Used	**PCOs Used**	**CPs Used**	**Comments**
LA Emulator	UC1		Upper CA tester
LA Emulator	UC2		Upper CA tester
Remote Test Equipment	LC	UC1-LC-CP, UC2-LC-CF	Lower CA tester

6.2.3 Declaration: Points of Control and Observation (PCOs)

Points of Control and Observation Declarations		
PCO Name	**PCO Role**	**Comments**
UC	Upper CA PCO (local application side)	Access point at the LA-Emulator.
UC1	Upper CA PCO (local application side)	Access point at LA-Emulator No. 1.
UC2	Upper CA PCO (local application side)	Access point at LA-Emulator No. 2.
LC	Lower CA PCO (network side)	Access Point at the Remote-Device-Emulator.

6.2.4 Declaration: Control Points (CPs)

Control Points Declarations		
CP Name	**CP Role**	**Comments**
UC-LC-CP	LA Emulator <-> Remote Device Emulator	Co-ordination between LA Emulator and Remote Device Emulator.
UC1-LC-CP	LA Emulator No. 1 <-> Remote Device Emulator	Co-ordination between LA Emulator No. 1 and Remote Device Emulator.
UC2-LC-CP	LA Emulator No. 2 <-> Remote Device Emulator	Co-ordination between LA Emulator No. 2 and Remote Device Emulator.

6.2.5 Declaration: Timers

Timer Declarations			
Timer Name	**Duration**	**Unit**	**Comments**
T	timeout_tdd	minutes	Value of timeout_tdd is given as test suite parameter (PIXIT).
T1	timeout_tdd	minutes	Value of timeout_tdd is given as test suite parameter (PIXIT).
T2	timeout_tdd	minutes	Value of timeout_tdd is given as test suite parameter (PIXIT).

6.2.6 Declaration: Test Suite Parameter

Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
file_receive	IA5STRING	To be provided by tester	Path to incoming file delivered as result of a RECEIVE Request. All services.
file_target	IA5STRING	To be provided by tester	Path to target file delivered as result of a COPY Request. All services.
file1_ASCfx3	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_ASCfx4	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_ASCtlx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_ASCttx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_ASCtx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_T50fx3	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_T50fx4	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_T50tlx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_T50ttx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_T50tx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_T61ttx	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_TIFFfx3	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
file1_TIFFfx4	IA5STRING	To be provided by tester	Path to a test file, which shall respect the transfer format definitions. See annex C.
la_id1	IA5STRING	PIXIT nr. 8	LA-ID for accessing the CA.
la_id2	IA5STRING	PIXIT nr. 9	LA-ID for accessing the CA.
recipient1_fx3	IA5STRING	To be provided by tester	Address of a recipient for sending documents (fax 3 service).

(continued)

Test Suite Parameter Declarations (concluded)			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
recipient2_fx3	IA5STRING	To be provided by tester	Address of a recipient for sending documents (fax 3 service).
recipient3_fx3	IA5STRING	To be provided by tester	Address of a recipient for sending documents (fax 3 service).
recipient4_fx3	IA5STRING	To be provided by tester	Non-existing or occupied address of a recipient (fax 3 service).
recipient1_fx4	IA5STRING	To be provided by tester	Address of a recipient for sending documents (fax 4 service).
recipient2_fx4	IA5STRING	To be provided by tester	Address of a recipient for sending documents (fax 4 service).
recipient3_fx4	IA5STRING	To be provided by tester	Address of a recipient for sending documents (fax 4 service).
recipient4_fx4	IA5STRING	To be provided by tester	Non-existing or occupied address of a recipient (fax 4 service).
recipient1_tlx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (telex service).
recipient2_tlx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (telex service).
recipient3_tlx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (telex service).
recipient4_tlx	IA5STRING	To be provided by tester	Non-existing or occupied address of a recipient (telex service).
recipient1_ttx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (Teletex service).
recipient2_ttx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (Teletex service).
recipient3_ttx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (Teletex service).
recipient4_ttx	IA5STRING	To be provided by tester	Non-existing or occupied address of a recipient (Teletex service).
recipient1_tx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (telex/Teletex service).
recipient2_tx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (telex/Teletex service).
recipient3_tx	IA5STRING	To be provided by tester	Address of a recipient for sending documents (telex/Teletex service).
recipient4_tx	IA5STRING	To be provided by tester	Non-existing or occupied address of a recipient (telex/Teletex service).
timeout_tdd	INTEGER	PIXIT nr. 3	TDD turnaround time-out value for time-out-timers T, T1, T2 in minutes.
send_fail	INTEGER	PIXIT nr. 10	Delay to be sure a SEND has failed if sent to non existing address.
login_name1	IA5STRING	PIXIT nr. 4	Login name for CA Login.
password1	OCTETSTRING	PIXIT nr. 5	Password for CA Login.
login_name2	IA5STRING	PIXIT nr. 6	Login name for CA Login.
password2	OCTETSTRING	PIXIT nr. 7	Password for CA Login.

6.2.7 Declaration: Test Suite Constants

Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
send_delay	INTEGER	5	Send delay for delayed sending in minutes.

6.2.8 Declaration: Test Suite Variables

The following test suite variables shall be set before executing the test suite.

Test Suite Variable Declarations			
Variable Name	**Type**	**Initial Value**	**Comments**
actual_time	Date-time		Set to the actual time. Should be set by internal clock.
exch_method	IA5STRING FROM ("File"|"Primitive")		Set to the currently assigned Exchange Method under test.
login	BOOLEAN	FALSE	Indicates state of login.
login1	BOOLEAN	FALSE	Indicates state of login (LA Emulator 1).
login2	BOOLEAN	FALSE	Indicates state of login (LA Emulator 2).
sid	Service-id		Set to value of current assigned SERVICE under test; for type-definition refer to subclause 6.3.1.1.

6.2.9 Declaration: Test Case Variables

Test Case Variable Declarations			
Variable Name	**Type**	**Initial Value**	**Comments**
req	Req-id		Contains temporary value of REQ-ID; for type-definition refer to subclause 6.3.1.1.

6.3 CA Test Suite: Type Definitions

6.3.1 Type Definition: Simple Types

Except where explicitly stated, the case of characters is not significant. This is not reflected in the following table for the sake of legibility.

Padding characters are either the space character or the underscore character.

6.3.1.1 Simple Types applying to TDDs

Types applying to TDDs (SET parameters only):

Simple Type Definition (TDD)		
Parameter Name	**Parameter Type**	**Comments**
Address	IA5STRING (SIZE(1..42)) FROM ("0".."9", "A".."Z", "!", ";", ":", ",", "@", "=")	
Boolean	IA5STRING ("yes"|"no")	
Com-id	IA5STRING (SIZE(1..24))	
Comid-ref	Com-id || IA5STRING ("ALL")	
Comment	IA5STRING (SIZE(1..80))	
Convert-id	IA5STRING (SIZE(1..8))	
Date-time	IA5STRING (SIZE(14)) FROM ("0".."9", "-", ":")	
Filespec	IA5STRING (SIZE(1..255))	Distinguish between lower and upper case.
Function	IA5STRING FROM ("SEND" | "SENDACK" | "RECEIVE" | "COPY" | "DELETE" | "PURGE" | "CANCEL" | "DISPATCH" | "RESCHEDULE" | "PRINT" | "CONVERT" | "CHECK" | "NATIONAL" | "EXTEND" | "PRIVATE")	
G3speed	IA5STRING ("14400" | "12200" | "9600" | "7200" | "4800" | "2400")	
Highres	NUMERICSTRING SIZE(1) FROM ("0".."4")	
La-id	IA5STRING SIZE (1..16)	
Page	NUMERICSTRING SIZE (1..5)	
Path	IA5STRING SIZE (1..255)	
Password	OCTETSTRING SIZE (1..16)	
Printer-id	IA5STRING SIZE (16)	
Printer-ref	Printer-id | IA5STRING ("STANDARD")	
Req-id	IA5STRING SIZE (1..24)	
Req-ref	Req-id | IA5STRING ("ALL")	
Send-time	IA5STRING (SIZE(14)) FROM ("0".."9", "-", ":") | IA5STRING ("IMMEDIATE" | "URGENT")	
Service-id	IA5STRING FROM ("FX3" | "FX4" | "TLX" | "TTX" | "TX")	
Service-info	IA5STRING SIZE (1..12)	
State	IA5STRING FROM ("DELAYED" | "SENDING" | "SENT" | "FAILED" | "RECEPTION" | "RETRIEVED")	
State-ref	State | IA5STRING ("ALL")	
Subaddress	IA5STRING SIZE (1..20)	
Subfunction	IA5STRING SIZE (1..255)	For further study.
T61options	GENERALSTRING SIZE (1..255)	For further study.
Type-id	IA5STRING FROM ("STD" | "OPD" | "MD" | "CTL" | "BTM" | "DTM" | "BFT" | "EDI")	
Userkey	IA5STRING SIZE(1..8)	

Types applying to TDDs (RETURN, UPDATE and SELECT OR RETURN parameters):

Simple Type Definition (TDD)		
Parameter Name	**Parameter Type**	**Comments**
Address	IA5STRING (SIZE(42)) FROM ("0".."9", "A".."Z", "!", ";", ":", ",", "@", "=")	
Boolean	IA5TSRING ("yes"|"no")	
Cil	IA5STRING (SIZE(72))	
Com-id	IA5STRING (SIZE(24))	
Comid-ref	Com-id | IA5STRING ("ALL")	If "ALL" is used, pad to 24 characters.
Convert-id	IA5STRING (SIZE(8))	
Date-time	IA5STRING (SIZE(14)) FROM ("0".."9", "-", ":")	
Error	IA5STRING (SIZE(84))	
G3speed	IA5STRING ("14400" | "12200" | "9600" | "7200" | "4800" | "2400")	Pad to 5 characters.
Page	NUMERICSTRING SIZE (5)	
Send-time	IA5STRING (SIZE(14)) FROM ("0".."9", "-", ":") | IA5STRING ("IMMEDIATE" | "URGENT")	Pad to 14 characters.
Service-id	IA5STRING FROM ("FX3" | "FX4" | "TLX" | "TTX" | "TX")	Pad to 3 characters.
Service-info	IA5STRING SIZE (12)	
Status	IA5STRING FROM ("+" | "-" | "+-")	Pad to 2 characters.
Subaddress	IA5STRING SIZE (20)	
Type-id	IA5STRING FROM ("STD" | "OPD" | "MD" | "CTL" | "BTM" | "DTM" | "BFT" | "EDI")	Pad to 3 characters.

6.3.1.2 Simple Types applying to Exchange Method

Types applying to the Exchange Methods only:

Simple Type Definition (EM)		
Parameter Name	**Parameter Type**	**Comments**
Connection-id	INTEGER (1..65535)	
EM-status	INTEGER (1..65535)	
Login	IA5STRING SIZE (1..16)	
Memory-address	OCTETSTRING	System dependent.
Password	OCTETSTRING SIZE (1..16)	
Tdd-size	INTEGER (1..65535)	
Tdd-type	INTEGER (0..7)	

6.3.1.3 Simple Types applying to Transfer Format

Types applying to the Transfer Format only:

Simple Type Definition (TF)		
Parameter Name	**Parameter Type**	**Comments**
Portrait	'1B 4F 30'H ("ESC O 0")	
Landscape	'1B 4F 31'H ("ESC O 1")	
Cpi10	'1B 50 30'H ("ESC P 0")	
Cpi12	'1B 50 31'H ("ESC P 1")	
Cpi15	'1B 50 32'H ("ESC P 2")	
Lpi6	'1B 4C 30'H ("ESC L 0")	
Lpi4	'1B 4C 31'H ("ESC L 1")	
Lpi3	'1B 4C 32'H ("ESC L 2")	
Lpi12	'1B 4C 33'H ("ESC L 3")	
Underline_off	'1B 55 30'H ("ESC U 0")	
Underline_on	'1B 55 31'H ("ESC U 1")	
Superscript_off	'1B 41 30'H ("ESC A 0")	
Superscript_on	'1B 41 31'H ("ESC A 1")	
Subscript_off	'1B 56 30'H ("ESC V 0")	
Subscript_on	'1B 56 31'H ("ESC V 1")	
Boldface_off	'1B 42 30'H ("ESC B 0")	
Boldface_on	'1B 42 31'H ("ESC B 1")	
Strike-out_off	'1B 53 30'H ("ESC S 0")	
Strike-out_on	'1B 53 31'H ("ESC S 1")	
Italics_off	'1B 49 30'H ("ESC I 0")	
Italics_on	'1B 49 31'H ("ESC I 1")	
Fold_lines_forbidden	'1B 54 30'H ("ESC T 0")	
Fold_lines_allowed	'1B 54 31'H ("ESC T 1")	
Rotate_pg_forbidden	'1B 52 30'H ("ESC R 0")	
Rotate_pg_allowed	'1B 52 31'H ("ESC R 1")	
New_line	'0D 0A'H ("CR LF")	
New_page	'0D 0C'H ("'CR FF")	

6.3.1.4 Simple Types applying to ICE

Simple Type Definition (ICE)		
Parameter Name	**Parameter Type**	**Comments**
"xyz"	The value is a character string, encoded as implied by the APPLI/COM header ID of the TDD (see below) *or* the value is a character string "xyz" (excluding the surrounding quotes) encoded as explained in CCITT Recommendation T.50 International Reference Version (or using EBCDIC on those systems where EBCDIC is the native character coding).	
File	Full path for a file specification on the LA equipment.	
String	A string encoded as in CCITT Recommendation T.50, International Reference Version (or EBCDIC on appropriate systems).	
Hex	A CCITT Recommendation T.50 string representing an hexadecimal value; e.g. the value 2F is encoded "3/2 4/6". (Or using EBCDIC equivalent coding on appropriate systems).	
Path	Full path to directory. Full path means: path given absolute, without relative components [1)].	
Printer-Id	ID of selected printer. Represented as a string. Depends on the supporting operating system.	
Convert-Id	Conversion-ID. Specifies the Transfer format used for a document.	
Keyword	A string, whose value is one of the possible keywords defined in CCITT Recommendation T.611 [2].	

6.3.2 Type Definition: Abstract Service Primitives (ASPs)

ASP Type Definition		
ASP Name : LOGIN		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Login-name	Login	
Password	Password	
Connection-ID	Connection-id	
Status	EM-status	

ASP Type Definition		
ASP Name : LOGOUT		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Connection-ID	Connection-id	
Status	EM-status	

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1) On some systems the drive letter shall also be included in the path specification.

ASP Type Definition		
ASP Name : PUTTDD		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Connection-ID	Connection-id	
Status	EM-status	
TDD location	Memory-address	
TDD size	Tdd-size	

ASP Type Definition		
ASP Name : POLLTDD		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Connection-ID	Connection-id	
Status	EM-status	
TDD location	Memory address	
TDD size	Tdd-size	
TDD type	Tdd-type	

ASP Type Definition		
ASP Name : GETTDD		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Connection-ID	Connection-id	
Status	EM-status	
TDD location	Memory-address	

ASP Type Definition		
ASP Name : SETALARM		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Connection-ID	Connection-id	
Status	EM-status	
CallBack Routine location	Memory-address	

ASP Type Definition		
ASP Name : CALLBACKROUTINE		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
Connection-ID	Connection-id	

ASP Type Definition		
ASP Name : WRITEFILE		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
File Name	Path	

ASP Type Definition		
ASP Name : READFILE		
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)		
Comments :		
Parameter Name	**Parameter Type**	**Comments**
File Name	Path	

ASP Type Definition		
ASP Name : RECEIVEDOCUMENT		
PCO Type : LC (Lower CA PCO)		
Comments : Receive a document according to the service in use.		
Parameter Name	**Parameter Type**	**Comments**
no parameters		

ASP Type Definition		
ASP Name : SENDDOCUMENT		
PCO Type : LC (Lower CA PCO)		
Comments : Send a document according to the service in use.		
Parameter Name	**Parameter Type**	**Comments**
no parameters		

6.3.3 Type Definition: Task Data Descriptions (TDDs)

The subtitles of the Comments column in the following TDD Type Definitions are denote the following:

Type: One of the following Types: SET, RETURN, UPDATE or SELECT OR RETURN

B/+: Basic (B) or additive (+) parameter

m/o: mandatory (m) or optional (o) parameter

Services: applicable to services: Facsimile Group 3 (FX3), Facsimile Group 4 (FX4), Telex (TLX), Telex using Teletex (TX), Teletex (TTX) or all of them (all).

TDD Type Definition

TDD Name : SEND
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Send one (or several) document(s) to one (or several) recipient(s) without acknowledge of the send status.

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"SEND"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
SERVICE	Service-id	SET	B	m	all	
G3SPEED	G3speed	SET	B	o	FX3	
SENDTIME	Send-time	SET	B	o	all	
COMMENT	Comment	SET	+	o	all	
GENCIL	Boolean	SET	+	o	all	
HIGHRES	Highres	SET	+	o	FX3, FX4	
LASTTIME	Date-time	SET	+	o	all	
NOTIFY	Boolean	SET	+	o	TX	
PROLOG	Path	SET	+	o	FX4, TTX	
SUBADDR	Subaddress	SET	+	o	FX4, TLX, TX, TTX	
USEECM	Boolean	SET	+	o	FX3	
USERKEY	Userkey	SET	+	o	all	
One file only						
CONVERT	Convert-id	SET	B	m	all	
FILENAME	Path <Document>	SET	B	m	all	Test attached document.
TYPE	Type-id	SET	B	o	all	
NAME	Service-info	SET	+	o	FX4, TTX	
FROM	Page	SET	+	o	all	
T61OPTS	T61options	SET	+	o	TTX	
USERINFO	Service-info	SET	+	o	FX4, TTX	
List of files						
FILELIST*	Filespec <Document>	SET	+	m	all	Test attached document(s).
One recipient						
ADDRESS	Address	SET	B	m	all	
List of recipients						
ADDRLIST*	Address	SET	+	m	all	

TDD Type Definition

TDD Name : SENDACK
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)
Comments : Send one (or several) document(s) to one recipient with acknowledge of the send status.

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"SENDACK"
ADDRESS	Address	UPDATE	B	m	all	
ERROR	Error	RETURN	B	m	all	
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
SERVICE	Service-id	SET	B	m	all	
STATUS	Status	RETURN	B	m	all	
CIL	Cil	RETURN	B	o	FX4, TTX	
COMID	Com-id	RETURN	B	o	all	
G3SPEED	G3speed	UPDATE	B	o	FX3	
SENDTIME	Send-time	SET	B	o	all	
COMMENT	Comment	SET	+	o	all	
GENCIL	Boolean	SET	+	o	all	
HIGHRES	Highres	SET	+	o	FX3, FX4	
LASTTIME	Date-time	SET	+	o	all	
MINOR	Error	RETURN	+	o	all	
NOTIFY	Boolean	SET	+	o	TX	
PROLOG	Path	SET	+	o	FX4, TTX	
SUBADDR	Subaddress	SET	+	o	FX4, TLX, TX, TTX	
USEECM	Boolean	UPDATE	+	o	FX3	
USERKEY	Userkey	SET	+	o	all	
WARNING	Error	RETURN	+	o	all	
One file only						
CONVERT	Convert-id	SET	B	m	all	
FILENAME	Path <Document>	SET	B	m	all	Test attached document.
TYPE	Type-id	SET	B	o	all	
NAME	Service-info	SET	+	o	FX4, TTX	
FROM	Page	SET	+	o	all	
T61OPTS	T61options	SET	+	o	TTX	
USERINFO	Service-info	SET	+	o	FX4, TTX	
List of files						
FILELIST*	Filespec <Document>	SET	+	m	all	Test attached document(s).

TDD Type Definition

TDD Name : RECEIVE
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Receive a document.

Keyword	Parameter	Comments				
		TYPE	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"RECEIVE"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
FILENAME	Path <Document>	SET	B	m	all	Test delivered document.
CONVERT	Convert-id	RETURN	B	m	all	
ERROR	Error	RETURN	B	m	all	
STATUS	Status	RETURN	B	m	all	
ADDRESS	Address	RETURN	B	o	all	
CIL	Cil	RETURN	B	o	FX4, TTX	
COMID	Com-id	SELECT OR RETURN	B	o	all	
CVFAX3	Convert-id	SET	B	o	FX3	
CVFAX4	Convert-id	SET	B	o	FX4	
CVTLX	Convert-id	SET	B	o	TLX	
CVTTX	Convert-id	SET	B	o	TTX	
CVTX	Convert-id	SET	B	o	TX	
SERVICE	Service-id	SELECT OR RETURN	B	o	all	
TYPE	Type-id	RETURN	B	o	all	
DELETE	Boolean	SET	+	o	all	
FIRSTPG	Page	RETURN	+	o	FX4, TTX	
G3SPEED	G3speed	RETURN	+	o	FX3	
MINOR	Error	RETURN	+	o	all	
NAME	Service-info	RETURN	+	o	FX4, TTX	
PROLOG	Path	SET	+	o	FX4, TTX	
RCVTIME	Date-time	RETURN	+	o	all	
SUBADDR	Subaddress	SELECT OR RETURN	+	o	FX4, TLX, TX, TTX	
USERINFO	Service-info	RETURN	+	o	FX4, TTX	
WARNING	Error	RETURN	+	o	all	

TDD Type Definition						
TDD Name : COPY						
PCO Type : UC, UC1, UC2, LL (Upper CA PCOs and Lower LA PCO)						
Comments : Trace Group						
Keyword	**Parameter**	**Comments**				
		Type	**B/+**	**m/o**	**Services**	**Remarks**
FUNCTION	Function	SET	B	m	all	"COPY"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
STATE	State-ref	SET	B	m	all	
TARGET	Path <Target-file>	SET	B	m	all	Test delivered target-file.
ERROR	Error	RETURN	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	
Select using						
COMID	Comid-ref	SET	B	m	all	
Select using						
REQREF	Req-ref	SET	B	m	all	

TDD Type Definition						
TDD Name : CANCEL						
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)						
Comments : Trace Group						
Keyword	**Parameter**	**Comments**				
		Type	**B/+**	**m/o**	**Services**	**Remarks**
FUNCTION	Function	SET	B	m	all	"CANCEL"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	
Select using						
COMID	Comid-ref	SET	B	m	all	
Select using						
REQREF	Req-ref	SET	B	m	all	

TDD Type Definition

TDD Name : DELETE
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Trace Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"DELETE"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	
Select using						
COMID	Comid-ref	SET	B	m	all	
Select using						
REQREF	Req-ref	SET	B	m	all	

TDD Type Definition

TDD Name : DISPATCH
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Trace Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"DISPATCH"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
NEWLA	La-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
COMID	Comid-ref	SET	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	

TDD Type Definition

TDD Name : PURGE
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Trace Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"PURGE"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
STATE	State-ref	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	
Select using						
COMID	Comid-ref	SET	B	m	all	
Select using						
REQREF	Req-ref	SET	B	m	all	

TDD Type Definition

TDD Name : RESCHEDULE
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Trace Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"RESCHEDULE"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
ADDRESS	Address	SET	B	o	all	
SENDTIME	Send-time	SET	B	o	all	
LASTTIME	Date-time	SET	+	o	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	
Select using						
COMID	Comid-ref	SET	B	m	all	
Select using						
REQREF	Req-ref	SET	B	m	all	

TDD Type Definition

TDD Name : PRINT
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Submit Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"PRINT"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
FILENAME	Path	SET	B	m	all	
INFORMT	Convert-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
PRINTER	Printer-ref	SET	+	o	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	

TDD Type Definition

TDD Name : CONVERT
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Submit Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"CONVERT"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
FILENAME	Path	SET	B	m	all	
TARGET	Path	SET	B	m	all	
INFORMT	Convert-id	SET	B	m	all	
OUTFORMT	Convert-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	

TDD Type Definition

TDD Name : CHECK
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Submit Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"CHECK"
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
FILENAME	Path	SET	B	m	all	
CHECK	Convert-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	
MINOR	Error	RETURN	+	o	all	
WARNING	Error	RETURN	+	o	all	

TDD Type Definition

TDD Name : EXTEND
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Extend Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"EXTEND"
SUBFUNC	Subfunction	SET	B	m	all	
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	

TDD Type Definition

TDD Name : NATIONAL
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments : Extend Group

Keyword	Parameter	Comments				
		Type	B/+	m/o	Services	Remarks
FUNCTION	Function	SET	B	m	all	"NATIONAL"
SUBFUNC	Subfunction	SET	B	m	all	
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	

TDD Type Definition						
TDD Name : PRIVATE **PCO Type** : UC, LL (Upper CA PCO or Lower LA PCO) **Comments** : Extend Group						
Keyword	**Parameter**	**Comments**				
		Type	**B/+**	**m/o**	**Services**	**Remarks**
FUNCTION	Function	SET	B	m	all	"PRIVATE"
SUBFUNC	Subfunction	SET	B	m	all	
LA-ID	La-id	SET	B	m	all	
REQ-ID	Req-id	SET	B	m	all	
ERROR	Error	RETURN	B	m	all	

6.3.4 Type Definition: Transfer Formats (TFs)

TF Type Definition		
TF Name : ASCII437 **PCO Type** : UC, LL (Upper CA PCO or Lower LA PCO) **Comments** :		
Parameter Name	**Parameter Type**	**Comments**
Control-sequence	Portrait | Landscape | Cpi10 | Cpi12 | Cpi15 | Lpi6 | Lpi4 | Lpi3 | Lpi12 | Underline_off | Underline_on | Superscript_off | Superscript_on | Subscript_off | Subscript_on | Boldface_off | Boldface_on | Strike-out_off | Strike-out_on | Italics_off | Italics_on | Fold_lines_forbidden | Fold_lines_allowed | Rotate_pg_forbidden | Rotate_pg_allowed | New_line | New_page	See also annex C, table C.1.
Character	OCTETSTRING SIZE(1) FROM ('14'H, '15'H, '20'H..'7E'H, '80'H..'FE'H)	For character representation see annex C, table C.2.

TF Type Definition		
TF Name : ASCII **PCO Type** : UC, LL (Upper CA PCO or Lower LA PCO) **Comments** :		
Parameter Name	**Parameter Type**	**Comments**
Control-sequence	Portrait | Landscape | Cpi10 | Cpi12 | Cpi15 | Lpi6 | Lpi4 | Lpi3 | Lpi12 | Underline_off | Underline_on | Superscript_off | Superscript_on | Subscript_off | Subscript_on | Boldface_off | Boldface_on | Strike-out_off | Strike-out_on | Italics_off | Italics_on | Fold_lines_forbidden | Fold_lines_allowed | Rotate_pg_forbidden | Rotate_pg_allowed | New_line | New_page	See also annex C, table C.1.
Character	OCTETSTRING SIZE(1) FROM ('14'H, '15'H, '20'H..'7E'H, '80'H..'FE'H)	For character representation see annex C, table C.3.

TF Type Definition		
TF Name : T50 **PCO Type** : UC, LL (Upper CA PCO or Lower LA PCO) **Comments** :		
Parameter Name	**Parameter Type**	**Comments**
Control-sequence	Portrait | Landscape | Cpi10 | Cpi12 | Cpi15 | Lpi6 | Lpi4 | Lpi3 | Lpi12 | Underline_off | Underline_on | Superscript_off | Superscript_on | Subscript_off | Subscript_on | Boldface_off | Boldface_on | Strike-out_off | Strike-out_on | Italics_off | Italics_on | Fold_lines_forbidden | Fold_lines_allowed | Rotate_pg_forbidden | Rotate_pg_allowed | New_line | New_page	See also annex C, table C.1.
Character	OCTETSTRING SIZE(1) FROM ('20'H..'7E'H)	For character representation see annex C, table C.4.

TF Type Definition

TF Name : TIFF
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments :

Parameter Name	Parameter Type	Comments
NewSubfileType	INTEGER (0|2)	
SubfileType	INTEGER (0|2)	
ImageWidth	INTEGER	
ImageLength	INTEGER	
BitsPerSample	INTEGER (1)	
Compression	INTEGER (1|2|3|4|32773)	
PhotometricInterpretation	INTEGER (0|1)	
Thresholding	INTEGER	ignored by reader; not generated by writer.
CellWidth	INTEGER	ignored by reader; not generated by writer.
CellLength	INTEGER	ignored by reader; not generated by writer.
FillOrder	INTEGER (1|2)	
DocumentName	OCTETSTRING	ignored by reader; not generated by writer.
ImageDescription	INTEGER	
Make	INTEGER	ignored by reader; not generated by writer.
Model	INTEGER	ignored by reader; not generated by writer.
StripOffsets	INTEGER	
Orientation	INTEGER (1)	
SamplesPerPixel	INTEGER (1)	
RowsPerStrip	INTEGER	
StripByteCount	INTEGER	
MinSampleValue	INTEGER (0)	
MaxSampleValue	INTEGER (1)	
XResolution	INTEGER (300)	
YResolution	INTEGER (300)	
PlanarConfiguration	INTEGER (1)	
PageName	OCTETSTRING	ignored by reader; not generated by writer.
XPosition	INTEGER	ignored by reader; not generated by writer.
YPosition	INTEGER	ignored by reader; not generated by writer.
FreeOffsets	INTEGER	ignored by reader; not generated by writer.
FreeByteCount	INTEGER	ignored by reader; not generated by writer.
GrayResponseUnit	INTEGER	ignored by reader; not generated by writer.
GrayResponseCurve	INTEGER	ignored by reader; not generated by writer.
Group3Options	INTEGER (0|4)	
Group4Options	INTEGER (0|4)	
ResolutionUnit	INTEGER (2)	
PageNumber	INTEGER	
ColorResponseUnit	INTEGER	ignored by reader; not generated by writer.
ColorResponseCurve	INTEGER	ignored by reader; not generated by writer.
Image	BITSTRING	

6.3.5 Type Definition: ICE

The information of the *Line number* column shall not be included in the test ICE; it is provided for convenience only.

ICE Type Definition				
Name	:	ICE_file		
PCO Type	:	UC, LL (Upper CA PCO or Lower LA PCO)		
Comments	:			
Keyword	:	**Parameter(s)**	**Comment**	**Line number**
#				1
APPLICOM	:	String		2
FC	:	A | B		3
CODING	:	I		4
EM	:	FILE		5
ENVIRON	:	String		6
SYNC	:	YES | NO		7
F_JOB_Q	:	Path		8
F_ACK_Q	:	Path		9
ERROR_Q	:	Path		10
COUNTRY	:	String		11
DRF	:	YES | NO		12
SUBMIT*	:	PRINT | CONVERT | CHECK		13
PRINT*	:	String		14
CONVCHK*	:	String		15
TLX	:	STD		16
TX	:	STD		17
TTX	:	STD		18
FX3	:	STD		19
FX4	:	STD		20
CODEPAGE*	:	String		21
ADDKEYS*	:	String		22
RECORD*	:	String		23

ICE Type Definition

Name : ICE_driver
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments :

Keyword	:	Parameter(s)	Comment	Line number
#				1
APPLICOM	:	String		2
FC	:	A | B		3
CODING*	:	String		4
EM	:	PRIMITIVE		5
ENVIRON	:	String		6
ALARM	:	YES | NO		7
DRIVER	:	Path		8
COUNTRY	:	String		9
DRF	:	YES | NO		10
SUBMIT*	:	PRINT | CONVERT | CHECK		11
PRINT*	:	String		12
CONVCHK*	:	String		13
TLX	:	STD		14
TX	:	STD		15
TTX	:	STD		16
FX3	:	STD		17
FX4	:	STD		18
CODEPAGE*	:	String		19
ADDKEYS*	:	String		20
RECORD*	:	String		21

ICE Type Definition

Name : ICE_interrupt
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments :

Keyword	:	Parameter(s)	Comment	Line number
#				1
APPLICOM	:	String		2
FC	:	A | B		3
CODING*	:	String		4
EM	:	PRIMITIVE		5
ENVIRON	:	String		6
ALARM	:	YES | NO		7
INT	:	Hex,Hex		8
COUNTRY	:	String		9
DRF	:	YES | NO		10
SUBMIT*	:	PRINT | CONVERT | CHECK		11
PRINT*	:	String		12
CONVCHK*	:	String		13
TLX	:	STD		14
TX	:	STD		15
TTX	:	STD		16
FX3	:	STD		17
FX4	:	STD		18
CODEPAGE*	:	String		19
ADDKEYS*	:	String		20
RECORD*	:	String		21

ICE Type Definition

Name : ICE_library
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments :

Keyword	:	Parameter(s)	Comment	Line number
#				1
APPLICOM	:	String		2
FC	:	A | B		3
CODING*	:	String		4
EM	:	PRIMITIVE		5
ENVIRON	:	String		6
ALARM	:	YES | NO		7
LIB	:	YES		8
LIB-NAME	:	Path		9
COUNTRY	:	String		10
DRF	:	YES | NO		11
SUBMIT*	:	PRINT | CONVERT | CHECK		12
PRINT*	:	String		13
CONVCHK*	:	String		14
TLX	:	STD		15
TX	:	STD		16
TTX	:	STD		17
FX3	:	STD		18
FX4	:	STD		19
CODEPAGE*	:	String		20
ADDKEYS*	:	String		21
RECORD*	:	String		22

ICE Type Definition

Name : ICE_dll
PCO Type : UC, LL (Upper CA PCO or Lower LA PCO)
Comments :

Keyword	:	Parameter(s)	Comment	Line number
#				1
APPLICOM	:	String		2
FC	:	A | B		3
CODING*	:	String		4
EM	:	PRIMITIVE		5
ENVIRON	:	String		6
ALARM	:	YES | NO		7
DLL	:	YES		8
DLL-NAME	:	Path		9
COUNTRY	:	String		10
DRF	:	YES | NO		11
SUBMIT*	:	PRINT | CONVERT | CHECK		12
PRINT*	:	String		13
CONVCHK*	:	String		14
TLX	:	STD		15
TX	:	STD		16
TTX	:	STD		17
FX3	:	STD		18
FX4	:	STD		19
CODEPAGE*	:	String		20
ADDKEYS*	:	String		21
RECORD*	:	String		22

ICE Type Definition				
Name	:	ICE_dde		
PCO Type	:	UC, LL (Upper CA PCO or Lower LA PCO)		
Comments	:			
Keyword	:	Parameter(s)	Comment	**Line number**
#				1
APPLICOM	:	String		2
FC	:	A | B		3
CODING*	:	String		4
EM	:	PRIMITIVE		5
ENVIRON	:	String		6
ALARM	:	YES | NO		7
DDE	:	YES		8
WIN-APP	:	Path		9
SUBJECT	:	String		10
ITEM	:	String		11
COUNTRY	:	String		12
DRF	:	YES | NO		13
SUBMIT*	:	PRINT | CONVERT | CHECK		14
PRINT*	:	String		15
CONVCHK*	:	String		16
TLX	:	STD		17
TX	:	STD		18
TTX	:	STD		19
FX3	:	STD		20
FX4	:	STD		21
CODEPAGE*	:	String		22
ADDKEYS*	:	String		23
RECORD*	:	String		24

6.4 CA Test Suite: Constraint Declarations

For the description of the constraint declarations the following signs defined in ISO/IEC 9646 [3] are used in the Parameter value column of the TDD constraint definition tables:

- \- : parameter shall be omitted;
- ? : the parameter shall be present;
- * : the parameter may be present or omitted.

Furthermore, an "empty" parameter - a parameter pre-set with blanks or underline characters - is denoted by a pair of double quotes ("").

6.4.1 Constraint Declaration: ASPs

ASP Constraint Declaration		
Constraint Name : LOGINparms		
ASP Type : LOGIN		
Derivation Path :		
Comments :		
Parameter Name	**Parameter Value**	**Comments**
Login-name	login_name1	Value taken from test suite parameters (PIXIT).
Password	password1	Value taken from test suite parameters (PIXIT).
Connection-ID	*	
Status	*	

ASP Constraint Declaration		
Constraint Name : LOGINparms1		
ASP Type : LOGIN		
Derivation Path :		
Comments :		
Parameter Name	**Parameter Value**	**Comments**
Login-name	login_name1	Value taken from test suite parameters (PIXIT).
Password	password1	Value taken from test suite parameters (PIXIT).
Connection-ID	*	
Status	*	

ASP Constraint Declaration		
Constraint Name : LOGINparms2		
ASP Type : LOGIN		
Derivation Path :		
Comments :		
Parameter Name	**Parameter Value**	**Comments**
Login-name	login_name2	Value taken from test suite parameters (PIXIT).
Password	password2	Value taken from test suite parameters (PIXIT).
Connection-ID	*	
Status	*	

6.4.2 Constraint Declaration: TDDs

In the following TDD constraint definition tables only the keywords to be specified inside of the TDD are shown. Other keywords not mentioned - regardless wether they are basic or additive - shall not be used inside of the TDD. Furthermore, keywords mentioned but indicated with a dash ('-' character) as parameter value shall be omitted as well.

TDD Constraint Declaration

Constraint Name : SEND11T50req
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND11ASCIIreq
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"ASCII"	"ASCII"	"ASCII"	"ASCII"	"ASCII"	
FILENAME	file1_ASCfx3	file1_ASCfx4	file1_ASCtlx	file1_ASCtx	file1_ASCttx	1

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND11TIFFreq
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient. Select telecommunications service according to test case variable sid. Only defined for facsimile services.

Keyword	Parameter value depending on test case variable sid		NOTES
	sid = "FX3"	sid = "FX4"	
FUNCTION	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	1
REQ-ID	?	?	2
SERVICE	"FX3"	"FX4"	
ADDRESS	recipient1_fx3	recipient1_fx4	1
CONVERT	"TIFF"	"TIFF"	
FILENAME	file1_TIFFfx3	file1_TIFFfx4	1

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND11T61req
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient. Only defined for teletex service.

Keyword	Parameter value for sid = "TTX"	NOTES
FUNCTION	"SEND"	
LA-ID	la_id1	1
REQ-ID	?	2
SERVICE	"TTX"	
ADDRESS	recipient1_ttx	1
CONVERT	"T.61"	
FILENAME	file1_T61ttx	1

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND11TIME1req
TDD Type : SEND
Derivation Path : SEND11T50req
Comments : Request to send one document "URGENT" to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND11TIME2req
TDD Type : SEND
Derivation Path : SEND11T50req
Comments : Request to send one document "IMMEDIATE" to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	"IMMEDIATE"	"IMMEDIATE"	"IMMEDIATE"	"IMMEDIATE"	"IMMEDIATE"	

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND11TIME3req
TDD Type : SEND
Derivation Path : SEND11T50req
Comments : Request to send one document at a future time to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	actual_time + send_delay	actual_time + send_delay	actual_time + send_delay	actual_time + send_delay	actual_time + send_delay	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Taken from test suite constants and variables.

TDD Constraint Declaration

Constraint Name : SEND11TIME4req
TDD Type : SEND
Derivation Path : SEND11T50req
Comments : Request to send one document to one recipient. Sendtime is set to a time past! Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	actual_time - send_delay	actual_time - send_delay	actual_time - send_delay	actual_time - send_delay	actual_time - send_delay	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Taken from test suite constants and variables.

TDD Constraint Declaration

Constraint Name : SEND11SPEEDreq
TDD Type : SEND
Derivation Path : SEND11T50
Comments : Request to send one document to one recipient using facsimile group 3 service. Set transmission speed for fax transmission.

Keyword	Parameter value for sid = "FX3"	NOTES
FUNCTION	"SEND"	
LA-ID	la_id1	1
REQ-ID	?	2
SERVICE	"FX3"	
ADDRESS	recipient1_fx3	1
CONVERT	"T.50"	
FILENAME	file1_T50fx3	1
G3SPEED	"4800"	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: If CA is not capable managing this speed, also another speed may be specified!

TDD Constraint Declaration

Constraint Name : SEND21req
TDD Type : SEND
Derivation Path :
Comments : Request to send 3 documents to one recipient. Select telecommunications service according to test case variable sid. Only applicable if FILELIST keyword is supported by CA!

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
FILELIST	file1_T50fx3 ",T.50"	file1_T50fx4 ",T.50"	file1_T50tlx ",T.50"	file1_T50tx ",T.50"	file1_T50ttx ",T.50"	1
FILELIST	file1_ASCfx3 ",ASCII"	file1_ASCfx4 ",ASCII"	file1_ASCtlx ",ASCII"	file1_ASCtx ",ASCII"	file1_ASCttx ",ASCII"	1
FILELIST	file1_TIFFfx3 ",TIFF,STD"	file1_TIFFfx4 ",TIFF,STD"	file1_T50tlx ",T.50,STD"	file1_T50tx ",T.50,STD"	file1_T61ttx ",T.61,STD"	1

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SEND12req
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to 3 recipients. Select telecommunications service according to test case variable sid. Only applicable if ADDRLIST keyword is supported by CA!

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRLIST	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
ADDRLIST	recipient2_fx3	recipient2_fx4	recipient2_tlx	recipient2_tx	recipient2_ttx	1
ADDRLIST	recipient3_fx3	recipient3_fx4	recipient3_tlx	recipient3_tx	recipient3_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.

TDD Constraint Declaration

Constraint Name : SACK1req
TDD Type : SENDACK
Derivation Path :
Comments : Request to send one document to one recipient. Acknowledgement is required. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
ERROR	""	""	""	""	""	3
STATUS	""	""	""	""	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters.
NOTE 4: Pre-set with 2 blank or underline characters.

TDD Constraint Declaration

Constraint Name : SACK1rsp
TDD Type : SENDACK
Derivation Path : SACK1req
Comments : Response to a sendack request: one document to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	3
STATUS	"+"	"+"	"+"	"+"	"+"	4

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 4: Only 1st character replaced by "+", second character same as padding.

TDD Constraint Declaration

Constraint Name : SACK2req
TDD Type : SENDACK
Derivation Path :
Comments : Request to send 3 documents to one recipient. Acknowledgement is required. Select telecommunications service according to test case variable sid. Only applicable if FILELIST keyword is supported by CA!

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
FILELIST	file1_T50fx3 ",T.50"	file1_T50fx4 ",T.50"	file1_T50tlx ",T.50"	file1_T50tx ",T.50"	file1_T50ttx ",T.50"	1
FILELIST	file1_ASCfx3 ",ASCII"	file1_ASCfx4 ",ASCII"	file1_ASCtlx ",ASCII"	file1_ASCtx ",ASCII"	file1_ASCttx ",ASCII"	1
FILELIST	file1_TIFFfx3 ",TIFF,STD"	file1_TIFFfx4 ",TIFF,STD"	file1_T50tlx ",T.50,STD"	file1_T50tx ",T.50,STD"	file1_T61ttx ",T.61,STD"	1
ERROR	""	""	""	""	""	3
STATUS	""	""	""	""	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters.
NOTE 4: Pre-set with 2 blank or underline characters.

TDD Constraint Declaration

Constraint Name : SACK2rsp
TDD Type : SENDACK
Derivation Path : SACK1req
Comments : Response to a sendack request: 3 documents to one recipient. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
FILELIST	file1_T50fx3 ",T.50"	file1_T50fx4 ",T.50"	file1_T50tlx ",T.50"	file1_T50tx ",T.50"	file1_T50ttx ",T.50"	1
FILELIST	file1_ASCfx3 ",ASCII"	file1_ASCfx4 ",ASCII"	file1_ASCtlx ",ASCII"	file1_ASCtx ",ASCII"	file1_ASCttx ",ASCII"	1
FILELIST	file1_TIFFfx3 ",TIFF,STD"	file1_TIFFfx4 ",TIFF,STD"	file1_T50tlx ",T.50,STD"	file1_T50tx ",T.50,STD"	file1_T61ttx ",T.61,STD"	1
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	3
STATUS	"+"	"+"	"+"	"+"	"+"	4

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 4: Only 1st character replaced by "+", second character same as padding.

TDD Constraint Declaration

Constraint Name : SACK1OPTSreq
TDD Type : SENDACK
Derivation Path :
Comments : Request to send one document to one recipient. Acknowledgement is required. Select telecommunications service according to test case variable sid. Test basic options.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
TYPE	"STD"	"STD"	"STD"	"STD"	"STD"	
ERROR	""	""	""	""	""	3
STATUS	""	""	""	""	""	4
COMID	""	""	""	""	""	5
CIL	-	""	-	-	""	6, 7
G3SPEED	"4800_"	-	-	-	-	8
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters.
NOTE 4: Pre-set with 2 blank or underline characters.
NOTE 5: Pre-set with 24 blank or underline characters.
NOTE 6: Pre-set with 72 blank or underline characters.
NOTE 7: As an option the CA may deliver a CIL also for the services FX3, TLX and TX (see GENCIL additive keyword); these feature will not be tested here.
NOTE 8: If the CA is not capable of supporting this speed, also another value may be given. However, size of the field shall be not less than 5 characters, padded with blank or underline if necessary.

TDD Constraint Declaration

Constraint Name : SACK1OPTSrsp
TDD Type : SENDACK
Derivation Path : SACK1OPTSreq
Comments : Response to a sendack request: one document to one recipient using basic options. Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
TYPE	"STD"	"STD"	"STD"	"STD"	"STD"	
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	3
STATUS	"+"	"+"	"+"	"+"	"+"	4
COMID	Com-id	Com-id	Com-id	Com-id	Com-id	5
CIL	-	Cil	-	-	Cil	6
G3SPEED	G3speed	-	-	-	-	7
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 4: Only 1st character replaced by "+", second character same as padding.
NOTE 5: Com-id computed by CA; maximum size is 24 characters starting at left boundary.
NOTE 6: Cil delivered by CA; size is exactly 72 characters.
NOTE 7: G3speed used by CA. Response field contains either all blanks or one of the valid values for G3speed, not higher than the pre-set value!

TDD Constraint Declaration

Constraint Name : RECEIVEreq
TDD Type : RECEIVE
Derivation Path :
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"RECEIVE"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	file_receive	1
CONVERT	""	3
ERROR	""	4
STATUS	""	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 8 blank or underline characters.
NOTE 4: Pre-set with 4 blank or underline characters.
NOTE 5: Pre-set with 2 blank or underline characters.

TDD Constraint Declaration

Constraint Name : RECEIVE1rsp
TDD Type : RECEIVE
Derivation Path : RECEIVEreq
Comments : Response if file available. Depends on service. Select telecommunications service according to test case variable sid.

Keyword	**Parameter value depending on test case variable sid**					**NOTES**
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
FILENAME	file_receive	file_receive	file_receive	file_receive	file_receive	1
CONVERT	"TIFF"	"TIFF"	"T.50"	"T.50"	"T.61"	3
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	4
STATUS	"+"	"+"	"+"	"+"	"+"	5

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Only used characters shall be replaced.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 5: Only 1st character replaced by "+", second character same as padding.

TDD Constraint Declaration

Constraint Name : RECEIVE2rsp
TDD Type : RECEIVE
Derivation Path : RECEIVEreq
Comments : Response if no file available. Depends on service. Select telecommunications service according to test case variable sid.

Keyword	**Parameter value depending on test case variable sid**					**NOTES**
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
FILENAME	file_receive	file_receive	file_receive	file_receive	file_receive	1
CONVERT	""	""	""	""	""	3
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	4
STATUS	"-"	"-"	"-"	"-"	"-"	5

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Shall remain as given on request.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 5: Only 1st character replaced by "-", second character same as padding.

TDD Constraint Declaration

Constraint Name : RECEIVEOPTSreq
TDD Type : RECEIVE
Derivation Path :
Comments : Receive request using basic options. Prerequisite: a document is available for the service specified by test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	**sid = "FX4"**	**sid = "TLX"**	**sid = "TX"**	**sid = "TTX"**	
FUNCTION	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
FILENAME	file_receive	file_receive	file_receive	file_receive	file_receive	1
CONVERT	""	""	""	""	""	3
ERROR	""	""	""	""	""	4
STATUS	""	""	""	""	""	5
ADDRESS	""	""	""	""	""	6
CIL	-	""	-	-	""	7
COMID	""	""	""	""	""	8
SERVICE	""	""	""	""	""	9
TYPE	""	""	""	""	""	9

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 8 blank or underline characters.
NOTE 4: Pre-set with 4 blank or underline characters.
NOTE 5: Pre-set with 2 blank or underline characters.
NOTE 6: Pre-set with 42 blank or underline characters.
NOTE 7: As an option the CA may deliver a CIL also for the services FX3, TLX and TX (See GENCIL additive keyword); these feature are not be tested here.
NOTE 8: Pre-set with 24 blank or underline characters.
NOTE 9: Pre-set with 3 blank or underline characters.

TDD Constraint Declaration

Constraint Name : RECEIVEOPTSrsp
TDD Type : RECEIVE
Derivation Path : RECEIVEOPTSreq
Comments : Response TDD for receive request using basic options. Prerequisite: a document is available for the service specified by test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	"RECEIVE"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
FILENAME	file_receive	file_receive	file_receive	file_receive	file_receive	1
CONVERT	"TIFF"	"TIFF"	"T.50"	"T.50"	"T.61"	3
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	4
STATUS	"+"	"+"	"+"	"+"	"+"	5
ADDRESS	Address	Address	Address	Address	Address	6
CIL	-	Cil	-	-	Cil	7
COMID	Com-id	Com-id	Com-id	Com-id	Com-id	8
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
TYPE	"STD"	"STD"	"STD"	"STD"	"STD"	

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Only first 4 characters shall be replaced, the other 4 shall be the same as used for padding.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 5: Only 1st character replaced by "+", second character same as padding.
NOTE 6: Address formatted according to service, starting at left boundary.
NOTE 7: Cil delivered by CA; size is exactly 72 characters.
NOTE 8: Com-id computed by CA; maximum size is 24 characters starting at left boundary.

TDD Constraint Declaration

Constraint Name : RECEIVET50req
TDD Type : RECEIVE
Derivation Path :
Comments : Request to receive a teletex document. Deliver in T.50 format rather than in T.61 format. Only applicable for Teletex service. Prerequisite: a document is available.

Keyword	Parameter value for sid = "TTX"	NOTES
FUNCTION	"RECEIVE"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	file_receive	1
CVTTX	"T.50"	
CONVERT	""	3
ERROR	""	4
STATUS	""	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 8 blank or underline characters.
NOTE 4: Pre-set with 4 blank or underline characters.
NOTE 5: Pre-set with 2 blank or underline characters.

TDD Constraint Declaration

Constraint Name : RECEIVET50rsp
TDD Type : RECEIVE
Derivation Path : RECEIVET50req
Comments : Response to request for receiving a teletex document with delivery in T.50 format rather than in T.61 format. Only applicable for Teletex service.

Keyword	Parameter value for sid = "TTX"	NOTES
FUNCTION	"RECEIVE"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	file_receive	1
CVTTX	"T.50"	
CONVERT	"T.50"	3
ERROR	"0000"	4
STATUS	"+"	5

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Only first 4 characters shall be replaced.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 5: Only 1st character replaced by "+", second character same as padding.

TDD Constraint Declaration

Constraint Name : RECEIVEASCIIreq
TDD Type : RECEIVE
Derivation Path :
Comments : Request to receive a document with delivery in non default transfer-format ASCII. Only applicable for Teletex and telex services. Prerequisite: a document is available.

Keyword	Parameter value depending on test case variable sid			NOTES
	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"RECEIVE"	"RECEIVE"	"RECEIVE"	
LA-ID	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	2
FILENAME	file_receive	file_receive	file_receive	1
CVTLX	"ASCII"	-	-	
CVTX	-	"ASCII"	-	
CVTTX	-	-	"ASCII"	
CONVERT	""	""	""	3
ERROR	""	""	""	4
STATUS	""	""	""	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 8 blank or underline characters.
NOTE 4: Pre-set with 4 blank or underline characters.
NOTE 5: Pre-set with 2 blank or underline characters.

TDD Constraint Declaration

Constraint Name : RECEIVEASCIIrsp
TDD Type : RECEIVE
Derivation Path : RECEIVEASCIIreq
Comments : Response TDD to request to receive a document with delivery in non default transfer-format ASCII. Only applicable for teletex and telex services.

Keyword	Parameter value depending on test case variable sid			NOTES
	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"RECEIVE"	"RECEIVE"	"RECEIVE"	
LA-ID	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	2
FILENAME	file_receive	file_receive	file_receive	1
CVTLX	"ASCII"	-	-	
CVTX	-	"ASCII"	-	
CVTTX	-	-	"ASCII"	
CONVERT	"ASCII"	"ASCII"	"ASCII"	3
ERROR	"0000"	"0000"	"0000"	4
STATUS	"+"	"+"	"+"	5

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Only first 4 characters shall be replaced.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.
NOTE 5: Only 1st character replaced by "+", second character same as padding.

TDD Constraint Declaration

Constraint Name : COPY1req
TDD Type : COPY
Derivation Path :
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	"ALL"	
STATE	"ALL"	
TARGET	file_target	1
ERROR	""	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : COPY1rsp
TDD Type : COPY
Derivation Path : COPY1req
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	"ALL"	
STATE	"ALL"	
TARGET	file_target	1
ERROR	"0000"	3

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : COPY2req
TDD Type : COPY
Derivation Path :
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
REQREF	"ALL"	
STATE	"ALL"	
TARGET	file_target	1
ERROR	""	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : COPY2rsp
TDD Type : COPY
Derivation Path : COPY2req
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
REQREF	"ALL"	
STATE	"ALL"	
TARGET	file_target	1
ERROR	"0000"	3

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : COPY3Sreq (req: Req-id)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient. Used in conjunction with COPY3 test. Send urgent and use test case variable req for assignement of REQ-ID! Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	req	req	req	req	req	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use test case variable req as given.

TDD Constraint Declaration

Constraint Name : COPY3req (req: Req-id)
TDD Type : COPY
Derivation Path :
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
REQREF	req	3
STATE	"SENT"	
TARGET	file_target	1
ERROR	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use test case variable req as given.
NOTE 4: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : COPY3rsp
TDD Type : COPY
Derivation Path : COPY3req
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
REQREF	req	3
STATE	"SENT"	
TARGET	file_target	1
ERROR	"0000"	4

NOTE 1: Test suite parameter as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Test case variable req as given on request.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : COPY4Sreq (req: Req-id)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient. Used in conjunction with COPY4 test. Send delayed and use test case variable req for assignement of REQ-ID! Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SEND"	"SEND"	"SEND"	"SEND"	"SEND"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	req	req	req	req	req	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	actual_time + send_delay	actual_time + send_delay	actual_time + send_delay	actual_time + send_delay	actual_time + send_delay	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use test case variable req as given.
NOTE 3: Compute from test suite variable actual_time and test suite constant send_delay.

TDD Constraint Declaration

Constraint Name : COPY4req (req: Req-id)
TDD Type : COPY
Derivation Path :
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
REQREF	req	3
STATE	"DELAYED"	
TARGET	file_target	1
ERROR	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use test case variable req as given.
NOTE 4: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : COPY4rsp
TDD Type : COPY
Derivation Path : COPY4req
Comments : Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
REQREF	req	3
STATE	"DELAYED"	
TARGET	file_target	1
ERROR	"0000"	4

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Test case variable req as given on request.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : COPY5req
TDD Type : COPY
Derivation Path :
Comments : Get a list of documents in the reception state. Not service dependend. Includes only basic mandatory keywords. Prerequisite: minimum 1 document is in the reception state.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	"ALL"	
STATE	"RECEPTION"	
TARGET	file_target	1
ERROR	""	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters

TDD Constraint Declaration

Constraint Name : COPY5rsp
TDD Type : COPY
Derivation Path : COPY5req
Comments : Response TDD. Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"COPY"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	"ALL"	
STATE	"RECEPTION"	
TARGET	file_target	1
ERROR	"0000"	3

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : DISPreq (com_id: Com-id)
TDD Type : DISPATCH
Derivation Path :
Comments : Dispatch a document in the reception state to another owner (la_id2). Not service dependend. Includes only basic mandatory keywords. Prerequisite: minimum 1 document is in the reception state.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"DISPATCH"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	com_id	3
NEWLA	la_id2	1
ERROR	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use given Communication-ID.
NOTE 4: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : DISPrsp (com_id: Com-id)
TDD Type : DISPATCH
Derivation Path : DISPreq
Comments : Response TDD. Not service dependent. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"DISPATCH"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	com_id	3
NEWLA	la_id2	1
ERROR	"0000"	4

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Communication-ID as given on request.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : DELreq (com_id: Com-id)
TDD Type : DELETE
Derivation Path :
Comments : Get a list of documents in the reception state. Not service dependend. Includes only basic mandatory keywords. Prerequisite: minimum 1 document is in the reception state.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"DELETE"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	com_id	3
ERROR	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Communication-ID as given.
NOTE 4: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : DELrsp (com_id: Com-id)
TDD Type : DELETE
Derivation Path : DELreq
Comments : Response TDD. Not service dependent. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"DELETE"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	com_id	3
ERROR	"0000"	4

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Communication-ID as given on request.
NOTE 4: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : RESCHSreq (req: Req-id)
TDD Type : SENDACK
Derivation Path :
Comments : Request to send one document to one recipient. Send urgent and ensure failure during send by use of a non-existing address. Use test case variable req for assignement of REQ-ID! Select telecommunications service according to test case variable sid.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	req	req	req	req	req	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient4_fx3	recipient4_fx4	recipient4_tlx	recipient4_tx	recipient4_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	
ERROR	""	""	""	""	""	3
STATUS	""	""	""	""	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use test case variable req as given.
NOTE 3: Pre-set with 4 blank or underline characters.
NOTE 4: Pre-set with 2 blank or underline characters.

TDD Constraint Declaration

Constraint Name : RESCHSrsp
TDD Type : SENDACK
Derivation Path : RESCHSreq
Comments : Response TDD to send to send one document to one recipient for Reschedule testing.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	"SENDACK"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	req	req	req	req	req	2
SERVICE	"FX3"	"FX4"	"TLX"	"TX"	"TTX"	
ADDRESS	recipient4_fx3	recipient4_fx4	recipient4_tlx	recipient4_tx	recipient4_ttx	1
CONVERT	"T.50"	"T.50"	"T.50"	"T.50"	"T.50"	
FILENAME	file1_T50fx3	file1_T50fx4	file1_T50tlx	file1_T50tx	file1_T50ttx	1
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	3
STATUS	"-"	"-"	"-"	"-"	"-"	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use test case variable req as given on corresponding request.
NOTE 3: Exactly 4 characters. All pre-set characters shall be replaced.
NOTE 4: Only 1st character replaced by "-"; second shall be same as padding of request.

TDD Constraint Declaration

Constraint Name : RESCHreq (req: Req-id)
TDD Type : RESCHEDULE
Derivation Path :
Comments : Reschedule failed send request. Use request reference given by req.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"RESCHEDULE"	"RESCHEDULE"	"RESCHEDULE"	"RESCHEDULE"	"RESCHEDULE"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
REQREF	req	req	req	req	req	3
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	
ERROR	""	""	""	""	""	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use test case variable req as given.
NOTE 4: Exactly 4 characters, pre-set with blank or underline characters.

TDD Constraint Declaration

Constraint Name : RESCHrsp
TDD Type : RESCHEDULE
Derivation Path : RESCHreq
Comments : Response TDD to reschedule request.

Keyword	Parameter value depending on test case variable sid					NOTES
	sid = "FX3"	sid = "FX4"	sid = "TLX"	sid = "TX"	sid = "TTX"	
FUNCTION	"RESCHEDULE"	"RESCHEDULE"	"RESCHEDULE"	"RESCHEDULE"	"RESCHEDULE"	
LA-ID	la_id1	la_id1	la_id1	la_id1	la_id1	1
REQ-ID	?	?	?	?	?	2
REQREF	req	req	req	req	req	3
ADDRESS	recipient1_fx3	recipient1_fx4	recipient1_tlx	recipient1_tx	recipient1_ttx	1
SENDTIME	"URGENT"	"URGENT"	"URGENT"	"URGENT"	"URGENT"	
ERROR	"0000"	"0000"	"0000"	"0000"	"0000"	4

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Request-ID as given on request.
NOTE 3: Use test case variable req as given on request.
NOTE 4: Exactly 4 characters shall be replaced.

TDD Constraint Declaration

Constraint Name : PURGEreq
TDD Type : PURGE
Derivation Path :
Comments : Purge all CA-Records, all states.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"PURGE"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	"ALL"	
STATE	"ALL"	
ERROR	""	3

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : PURGErsp
TDD Type : PURGE
Derivation Path : PURGEreq
Comments : Response TDD. Not service dependend. Includes only basic mandatory keywords.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"PURGE"	
LA-ID	la_id1	1
REQ-ID	?	2
COMID	"ALL"	
STATE	"ALL"	
ERROR	"0000"	3

NOTE 1: Test suite parameters as given on request.
NOTE 2: Unique Request-ID as given on request.
NOTE 3: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : CONVERTreq
TDD Type : CONVERT
Derivation Path :
Comments : Convert a file from one format into another. Parameters for file formats shall be selected from PICS/PIXIT.

Keyword	Parameter value (all services)	NOTES
OTES	"CONVERT"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	?	3
TARGET	?	3
INFORMT	?	4
OUTFORMT	?	4
ERROR	""	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use any convenient path.
NOTE 4: Use formats specified by PICS/PIXIT.
NOTE 5: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : CONVERTrsp
TDD Type : CONVERT
Derivation Path : CONVERTreq
Comments : Response TDD of CONVERT request.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"CONVERT"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	?	3
TARGET	?	3
INFORMT	?	4
OUTFORMT	?	4
ERROR	"0000"	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Path as given on request.
NOTE 4: Formats as specified by PICS/PIXIT and given on request.
NOTE 5: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : PRINTreq
TDD Type : PRINT
Derivation Path :
Comments :

Keyword	Parameter value (all services)	NOTES
FUNCTION	"PRINT"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	?	3
INFORMT	?	4
PRINTER	?	5
ERROR	""	6

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use any convenient path.
NOTE 4: Use format specified by PICS/PIXIT.
NOTE 5: Use Printer-id specified by PICS/PIXIT.
NOTE 6: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : PRINTrsp
TDD Type : PRINT
Derivation Path : PRINTreq
Comments : Response TDD.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"PRINT"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	?	3
INFORMT	?	4
PRINTER	?	5
ERROR	"0000"	6

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Path as given on request.
NOTE 4: Formats as specified by PICS/PIXIT and given on request.
NOTE 5: Printer-id as specified by PICS/PIXIT and given on request.
NOTE 6: Exactly 4 characters; all pre-set characters shall be replaced.

TDD Constraint Declaration

Constraint Name : CHECKreq
TDD Type : CHECK
Derivation Path :
Comments : Check a file against it's format. Parameters for file formats shall be selected from PICS/PIXIT.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"CHECK"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	?	3
CHECK	?	4
ERROR	""	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Use any convenient path.
NOTE 4: Use formats specified by PICS/PIXIT.
NOTE 5: Pre-set with 4 blank or underline characters.

TDD Constraint Declaration

Constraint Name : CHECKrsp

TDD Type : CHECK
Derivation Path : CHECKreq
Comments : Response TDD of CHECK request.

Keyword	Parameter value (all services)	NOTES
FUNCTION	"CHECK"	
LA-ID	la_id1	1
REQ-ID	?	2
FILENAME	?	3
CHECK	?	4
ERROR	"0000"	5

NOTE 1: Test suite parameters (taken from PIXIT).
NOTE 2: Use any unique Request-ID.
NOTE 3: Path as given on request.
NOTE 4: Formats as specified by PICS/PIXIT and given on request.
NOTE 5: Exactly 4 characters; all pre-set characters shall be replaced.

6.4.3 Constraint Declaration: TFs

TF Constraint Declaration

Constraint Name : ASCII437format
TF Type : ASCII437
Derivation Path :
Comments : Select telecommunications service according to test case variable sid.

Para-. meter	Parameter value depending on test case variable sid			NOTE
	sid = "FX3" | "FX4"	**sid = "TLX" | "TX"**	**sid = "TTX"**	
Control-sequence	*	Fold_lines_forbidden | Fold_lines_allowed | New_line | New_page	Portrait | Landscape | Cpi10 | Cpi12 | Cpi15 | Lpi6 | Lpi4 | Lpi3 | Lpi12 | Underline_off | Underline_on | Superscript_off | Superscript_on | Subscript_off | Subscript_on | Fold_lines_forbidden | Fold_lines_allowed | Rotate_pg_forbidden | Rotate_pg_allowed | New_line | New_page	1
Character	*	OCTETSTRING SIZE(1) FROM ('20'H, '27'H..'29'H, '2B'H..3A'H, '3D'H, '3F'H, '41'H..'5A'H, '61'H..'7A'H)	OCTETSTRING SIZE(1) FROM ('14'H,'15'H, '20'H..'5B'H, '5D'H..'7A'H, '7C'H, '7E'H, '80'H..'9D'H, 'A0'H..'A8'H, 'AB"H..'AF'H, 'E1'H, 'E6'H, 'EA'H, 'F1'H, 'F6'H, 'F8'H..'FA'H, 'FD'H)	for character representation see annex C, tables C.2, C.5 and C.8

NOTE 1: The CA is allowed to ignore control sequences.

TF Constraint Declaration

Constraint Name : ASCIIformat
TF Type : ASCII
Derivation Path :
Comments : Select telecommunications service according to test case variable sid.

Para-meter	Parameter value depending on test case variable sid			NOTE
	sid = "FX3" | "FX4"	**sid = "TLX" | "TX"**	**sid = "TTX"**	
Control-sequence	*	Fold_lines_forbidden | Fold_lines_allowed | New_line | New_page	Portrait | Landscape | Cpi10 | Cpi12 | Cpi15 | Lpi6 | Lpi4 | Lpi3 | Lpi12 | Underline_off | Underline_on | Superscript_off | Superscript_on | Subscript_off | Subscript_on | Fold_lines_forbidden | Fold_lines_allowed | Rotate_pg_forbidden | Rotate_pg_allowed | New_line | New_page	1
Character	*	OCTETSTRING SIZE(1) FROM ('20'H, '27'H..'29'H, '2B'H..3A'H, '3D'H, '3F'H, '41'H..'5A'H, '61'H..'7A'H)	OCTETSTRING SIZE(1) FROM ('14'H,'15'H, '20'H..'5B'H, '5D'H..'7A'H, '7C'H, '7E'H, '80'H..'9D'H, 'A0'H..'A8'H, 'AB"H..'AF'H, 'E1'H, 'E6'H, 'EA'H, 'F1'H, 'F6'H, 'F8'H..'FA'H, 'FD'H)	for character representation see annex C, tables C.3, C.6 and C.8

NOTE 1: The CA is allowed to ignore control sequences.

TF Constraint Declaration				
Constraint Name : T50Format **TF Type** : T50 **Derivation Path** : **Comments** : Select telecommunications service according to test case variable sid.				
Para-meter	**Parameter value depending on test case variable sid**			**NOTES**
	sid = "FX3" | "FX4"	**sid = "TLX" | "TX"**	**sid = "TTX"**	
Control-sequence	*	Fold_lines_forbidden | Fold_lines_allowed | New_line | New_page	Portrait | Landscape | Cpi10 | Cpi12 | Cpi15 | Lpi6 | Lpi4 | Lpi3 | Lpi12 | Underline_off | Underline_on | Superscript_off | Superscript_on | Subscript_off | Subscript_on | Fold_lines_forbidden | Fold_lines_allowed | Rotate_pg_forbidden | Rotate_pg_allowed | New_line | New_page	1
Character	*	OCTETSTRING SIZE(1) FROM ('20'H, '27'H..'29'H, '2B'H..3A'H, '3D'H, '3F'H, '41'H..'5A'H, '61'H..'7A'H)	OCTETSTRING SIZE(1) FROM ('14'H,'15'H, '20'H..'5B'H, '5D'H..'7A'H, '7C'H, '7E'H, '80'H..'9D'H, 'A0'H..'A8'H, 'AB"H..'AF'H, 'E1'H, 'E6'H, 'EA'H, 'F1'H, 'F6'H, 'F8'H..'FA'H, 'FD'H)	for character representation see annex C, tables C.4, C.7 and C.8
NOTE 1: The CA is allowed to ignore control sequences.				

6.5 CA Test Suite: Dynamic Behaviour

6.5.1 Dynamic Behaviour: Test Groups

Test Case Dynamic Behaviour					
Test Case Name : tcICE **Group** : CA/ICE **Purpose** : To test syntax of the ICE provided by the CA **Configuration** : Standard-CA-Environment **Default** : Fail **Comments** : This test is service independent					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1 2		+Load_ICE +ICE_Syntax_Check		 Pass	

6.5.1.1 Test Group: CA/Send

Test Case Dynamic Behaviour

Test Case Name : tcSEND11T50 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11T50req		see pg 52
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND11ASCII (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11ASCIIreq		see pg 52
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIFF (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent; it applies only to the facsimile services.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11TIFFreq		see pg 53
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND11T61 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent; it applies only to the Teletex service.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11T61req		see pg 53
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name	:	tcSEND11TIME1 (sid:Service-id)
Group	:	CA/Send
Purpose	:	To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration	:	Standard-CA-Environment
Default	:	
Comments	:	This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11TIME1req		see pg 54
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name	:	tcSEND11TIME2 (sid:Service-id)
Group	:	CA/Send
Purpose	:	To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration	:	Standard-CA-Environment
Default	:	
Comments	:	This test is service dependent

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11TIME2req		see pg 54
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIME3 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11TIME3req		see pg 55
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIME4 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11TIME4req		see pg 55
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND11SPEED (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent; it applies only to the facsimile group 3 service.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND11SPEEDreq		see pg 56
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND21 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent. Furthermore it applies only if the FILELIST keyword is supported by the CA!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND21req		see pg 56
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSEND12 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent. Furthermore it applies only if the ADDRLIST keyword is supported by the CA!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SEND12req		see pg 57
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck		Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSENDACK1 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour with send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SACK1req		see pg 57
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck			
6		+GetUC	SACK1rsp		see pg 58
7		+CheckTDD	SACK1rsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSENDACK2 (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour with send-acknowledge using only basic features; Send a list of documents to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent. Furthermore it applies only if the FILELIST keyword is supported by the CA!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SACK2req		see pg 58
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck			
6		+GetUC	SACK2rsp		see pg 59
7		+CheckTDD	SACK2rsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSENDACK1OPTS (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour with send-acknowledge using only basic features; Send 1 document to 1 recipient.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	SACK1OPTSreq		see pg 60
3		START T (timeout_tdd)			1
4		LC?RECEIVEDOCUMENT(sid)			
5		+LCDocCheck			
6		+GetUC	SACK1OPTSrsp		see pg 61
7		+CheckTDD	SACK1OPTSrsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcSENDmanyLA (sid:Service-id)
Group : CA/Send
Purpose : To test send behaviour with send-acknowledge while serving two LAs; Send 1 document to 1 recipient.
Configuration : Many-LA-One-CA-Environment
Default :
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin1			
2		+DoLogin2			
3		+PutUC1	SACK1req		see pg 57
4		+PutUC2	SACK1req		
5		+FetchUC1	SACK1rsp		see pg 58
6		+CheckTDD	SACK1rsp		
7		+FetchUC2	SACK1rsp		
8		+CheckTDD	SACK1rsp	Pass	

6.5.1.2 Test Group: CA/Receive

Test Case Dynamic Behaviour

Test Case Name : tcRECEIVE1
Group : CA/Receive
Purpose : To test reception behaviour with receive function using only basic features.
Prerequisite: a document is available in the CA.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		LC!SENDDOCUMENT			
3		+PutUC	RECEIVEreq		see pg 61
4		START T (timeout_tdd)			1
5		+GetUC	RECEIVE1rsp		see pg 62
6		+CheckTDD	RECEIVE1rsp		
7		+UCDocCheck	RECEIVE1rsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcRECEIVE2
Group : CA/Receive
Purpose : To test reception behaviour with receive function using only basic features.
Prerequisite: no document is available in the CA!
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent. No document is available at the start of the test case.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	RECEIVEreq		see pg 61
3		START T (timeout_tdd)			1
4		+GetUC	RECEIVE2rsp		see pg 62
5		+CheckTDD	RECEIVE2rsp	Pass	
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcRECEIVEOPTS
Group : CA/Receive
Purpose : To test reception behaviour with receive function using only basic features.
Prerequisite: a document is available in the CA.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		LC!SENDDOCUMENT			
3		+PutUC	RECEIVEOPTSreq		see pg 63
4		START T (timeout_tdd)			1
5		+GetUC	RECEIVEOPTSrsp		see pg 64
6		+CheckTDD	RECEIVEOPTSrsp		
7		+UCDocCheck	RECEIVEOPTSrsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcRECEIVET50
Group : CA/Receive
Purpose : To test reception behaviour with receive function using only basic features.
Prerequisite: a document is available in the CA.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent; it applies only to the teletex service.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		LC!SENDDOCUMENT			
3		+PutUC	RECEIVET50req		see pg 64
4		START T (timeout_tdd)			1
5		+GetUC	RECEIVET50rsp		see pg 65
6		+CheckTDD	RECEIVET50rsp		
7		+UCDocCheck	RECEIVET50rsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcRECEIVEASCII
Group : CA/Receive
Purpose : To test reception behaviour with receive function using only basic features.
Prerequisite: a document is available in the CA.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		LC!SENDDOCUMENT			
3		+PutUC	RECEIVEASCIIreq		see pg 65
4		START T (timeout_tdd)			1
5		+GetUC	RECEIVEASCIIrsp		see pg 66
6		+CheckTDD	RECEIVEASCIIrsp		
7		+UCDocCheck	RECEIVEASCIIrsp	Pass	
8		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

6.5.1.3 Test Group: CA/Trace

Test Case Dynamic Behaviour

Test Case Name	:	tcCOPY1
Group	:	CA/Trace
Purpose	:	Get a list of events, all states, all COMIDs
Configuration	:	Standard-CA-Environment
Default	:	
Comments	:	This test is service independent. Documents and CA-Records are supposed to be available.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	COPY1req		see pg 66
3		START T (timeout_tdd)			1
4		+GetUC	COPY1rsp		see pg 67
5		+CheckTDD	COPY1rsp		
6		+CheckTarget	COPY1rsp	Pass	
7		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcCOPY2
Group : CA/Trace
Purpose : Get a list of events, all states, all REQREFs
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent. Documents and CA-Records are supposed to be available.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	COPY2req		see pg 67
3		START T (timeout_tdd)			1
4		+GetUC	COPY2rsp		see pg 67
5		+CheckTDD	COPY2rsp		
6		+CheckTarget	COPY2rsp	Pass	
7		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcCOPY3
Group : CA/Trace
Purpose : Get a list of events in the 'sent' state using the Copy function.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+DoLogin			
2		req := "tcCOPY3"			1
3		+PutUC	COPY3Sreq (req)		see pg 68 2, 3
4		START T1 (timeout_tdd)			4
5		LC?RECEIVEDOCUMENT(sid)			
6		+PutUC	COPY3req		see pg 68
7		START T2 (timeout_tdd)			2
8		+GetUC	COPY3rsp		see pg 69
9		+CheckTDD	COPY3rsp		
10		+CheckTarget	COPY3rsp	Pass	
11		? TIMEOUT T2		Inconc.	
12		? TIMEOUT T1		Inconc.	

NOTE 1: Set test case variable req to unique value.
NOTE 2: Use service set by test case variable sid.
NOTE 3: Send immediate!
NOTE 4: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcCOPY4
Group : CA/Trace
Purpose : Get a list of events in the 'delayed', then the 'sending' states using the Copy function.
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+DoLogin			
2		req := "tcCOPY4"			1
3		+PutUC	COPY4Sreq (req)		see pg 69 2 and 3
4		START T (send_delay+timeout_tdd)			2 and 4
5		+PutUC	COPY4req		see pg 70
6		START T1 (timeout_tdd)			4
7		+GetUC	COPY4rsp		see pg 70
8		+CheckTDD	COPY4rsp		
9		+CheckTarget	COPY4rsp		
10		? TIMEOUT T1		Inconc.	
11		? TIMEOUT T			
12		START T2 (timeout_tdd)			4
13		LC?RECEIVEDOCUMENT(sid)			
14		+LCDocCheck		Pass	
15		? TIMEOUT T2		Inconc.	

NOTE 1: Set test case variable req to unique value.
NOTE 2: Use service set by test case variable sid.
NOTE 3: Send delayed; use test case constant send_delay for adjusting delay.
NOTE 4: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcCOPY5
Group : CA/Trace
Purpose : Get a list of events in the "RECEPTION" state, all COMIDs
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent. Documents and CA-Records are supposed to be available.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+DoLogin			
2		+PutUC	COPY5req		see pg 71
3		START T (timeout_tdd)			1
4		+GetUC	COPY5rsp		see pg 71
5		+CheckTDD	COPY5rsp		
6		+CheckTarget	COPY5rsp	Pass	
7		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcDISPATCH
Group : CA/Trace
Purpose : Get a list of events in the "RECEPTION" stateand subsequently test the dispatch feature of the CA
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent. At least 1 incomming document and related CA-Record is supposed to be available.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+DoLogin			
2		+PutUC	COPY5req		see pg 71
3		START T1 (timeout_tdd)			1 2
4		+GetUC	COPY5rsp		see pg 71
5		+CheckTDD	COPY5rsp		3
6		+GetComId (com_id)	COPY5rsp		4
7		+PutUC	DISPreq(com_id)		see pg 72
8		START T2 (timeout_tdd)			1
9		+GetUC	DISPrsp (com_id)		see pg 72
10		+CheckTDD	DISPrsp (com_id)	Pass	
11		? TIMEOUT T2		Inconc.	
12		? TIMEOUT T1		Inconc.	

NOTE 1: The Request TDD is exactly the same as the one used in test case tcCOPY5.
NOTE 2: The value of the test suite parameter timeout_tdd is taken from PIXIT.
NOTE 3: Up to this point the test steps are the same as in test case tcCOPY5.
NOTE 4: Get first Comunnication-ID from target file (file_target) into test case variable com_id.

Test Case Dynamic Behaviour

Test Case Name	:	tcDELETE
Group	:	CA/Trace
Purpose	:	Get a list of events in the 'delayed' state, then delete first item and check if successful
Configuration	:	Standard-CA-Environment
Default	:	
Comments	:	This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+DoLogin			
2		req := "tcDELETE"			1
3		+PutUC	COPY4Sreq (req)		see pg 69 2, 3 and 4
4		START T (send_delay+timeout_tdd)			3 and 5
5		+PutUC	COPY4req		see pg 70
6		START T1 (timeout_tdd)			5
7		+GetUC	COPY4rsp		see pg 70
8		+CheckTDD	COPY4rsp		
9		+GetComId (com_id)	COPY4rsp		6
10		+PutUC	DELreq(com_id)		see pg 73
11		START T2 (timeout_tdd)			5
12		+GetUC	DELrsp(com_id)		see pg 73
13		+CheckTDD	DELrsp(com_id)	Pass	
14		? TIMEOUT T2		Inconc.	
15		? TIMEOUT T1		Inconc.	
16		? TIMEOUT T		Inconc.	

NOTE 1:	Set test case variable req to unique value.
NOTE 2:	Use the same send request as in test case tcCOPY4.
NOTE 3:	Use service set by test case variable sid.
NOTE 4:	Send delayed; use test case constant send_delay for adjusting delay.
NOTE 5:	The value of the test suite parameter timeout_tdd is taken from PIXIT.
NOTE 6:	Get first Comunnication-ID from target file (file_target) into test case variable com_id.

Test Case Dynamic Behaviour

Test Case Name : tcRESCHEDULE
Group : CA/Trace
Purpose :
Configuration : Standard-CA-Environment
Default :
Comments : This test is service dependent because of new adresses to be given.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+DoLogin			
2		req := "tcRESCHEDULE"			1
3		+PutUC	RESCHSreq (req)		see pg 74
4		START T (send_fail + timeout_tdd)			2 3
5		+GetUC	RESCHSrsp		see pg 74
		+CheckTDD	RESCHSrsp		
		+PutUC	RESCHreq (req)		see pg 75
6		START T1 (timeout_tdd)			3
7		+GetUC	RESCHrsp		see pg 75
8		+CheckTDD	RESCHrsp		
9		LC?RECEIVEDOCUMENT		Pass	
14		? TIMEOUT T1		Inconc.	
15		? TIMEOUT T		Inconc.	

NOTE 1:	Set test case variable req to unique value.
NOTE 2:	Use service set by test case variable sid.
NOTE 3:	The value of the test suite parameters are taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcPURGE
Group : CA/Trace
Purpose :
Configuration : Standard-CA-Environment
Default :
Comments : This test is not service independent. Documents and CA-Records are supposed to be available.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	PURGEreq		see pg 76
3		START T (timeout_tdd)			1
4		+GetUC	PURGErsp		see pg 76
5			PURGErsp	Pass	
		+CheckTDD			
6		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Case Dynamic Behaviour

Test Case Name : tcCOPYmanyLA
Group : CA/Trace
Purpose : Get a list of events, all states, all COMIDs while CA is serving two LAs.
Configuration : Many-LA-One-CA-Environment
Default :
Comments : This test is service independent. Documents and CA-Records are supposed to be available.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin1			
2		+DoLogin2			
3		+PutUC1	COPY1req		see pg 66
4		+PutUC2	COPY1req		
5			COPY1rsp		see pg 67
		+FetchUC1			
6			COPY1rsp		
		+CheckTDD			
7			COPY1rsp		
		+CheckTarget			
8			COPY1rsp		
		+FetchUC2			
9			COPY1rsp		
		+CheckTDD			
10			COPY1rsp	Pass	
		+CheckTarget			

6.5.1.4 Test Group: CA/Submit

Test Case Dynamic Behaviour					
Test Case Name : tcCONVERT **Group** : CA/Submit **Purpose** : **Configuration** : Standard-CA-Environment **Default** : **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTE**
1		+DoLogin			
2		+PutUC	CONVERTreq		see pg 77
3		START T (timeout_tdd)			1
4		+GetUC	CONVERTrsp		see pg 77
5		+CheckTDD	CONVERTrsp		
6		+UCDocCheck	CONVERTrsp	Pass	
7		? TIMEOUT T		Inconc.	
NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.					

Test Case Dynamic Behaviour					
Test Case Name : tcPRINT **Group** : CA/Submit **Purpose** : **Configuration** : Standard-CA-Environment **Default** : **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTE**
1		+DoLogin			
2		+PutUC	PRINTreq		see pg 78
3		START T (timeout_tdd)			1
4		+GetUC	PRINTrsp		see pg 78
5		+CheckTDD	PRINTrsp		
6		+CheckPrint		Pass	
7		? TIMEOUT T		Inconc.	
NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.					

Test Case Dynamic Behaviour

Test Case Name : tcCHECK
Group : CA/Submit
Purpose :
Configuration : Standard-CA-Environment
Default :
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		+DoLogin			
2		+PutUC	CHECKreq		see pg 79
3		START T (timeout_tdd)			1
4		+GetUC	CHECKrsp		see pg 79
5		+CheckTDD	CHECKrsp		
6		+CheckTarget	CHECKrsp	Pass	
7		? TIMEOUT T		Inconc.	

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

6.5.2 Dynamic Behaviour: Test Steps

Test Step Dynamic Behaviour

Test Step Name : PutUC
Group : CA/LIBRARY
Purpose : Send a TDD to the CA, depending on the exchange method
Default : inconclusive
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UC!WRITE [exch_method=File]		(pass)	
2		UC!PUTTDD [exch_method=Primitive]		(pass)	

Test Step Dynamic Behaviour

Test Step Name : PutUC1
Group : CA/LIBRARY
Purpose : Send a TDD to the CA, depending on the exchange method
Default : inconclusive
Comments : Use UC1!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UC1!WRITE [exch_method=File]		(pass)	
2		UC1!PUTTDD [exch_method=Primitive]		(pass)	

Test Step Dynamic Behaviour

Test Step Name : PutUC2
Group : CA/LIBRARY
Purpose : Send a TDD to the CA, depending on the exchange method
Default : inconclusive
Comments : Use UC2!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UC2!WRITE [exch_method=File]		(pass)	
2		UC2!PUTTDD [exch_method=Primitive]		(pass)	

Test Step Dynamic Behaviour

Test Step Name : GetUC
Group : CA/LIBRARY
Purpose : Retrieve a TDD from the CA, depending on the exchange method
Default : inconclusive
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UC!READ [exch_method=File]		(pass)	
2		UC!POLLTDD [exch_method=Primitive]			
3		UC!GETTDD		(pass)	

Test Step Dynamic Behaviour

Test Step Name : FetchUC1
Group : CA/LIBRARY
Purpose : Retrieve a TDD from the CA, depending on the exchange method, using LA Emulator No. 1
Default : inconclusive
Comments : Use UC1!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		START T (timeout_tdd)			1
2	Loop	UC1!READ [exch_method=File]		(pass)	
3		UC1!POLLTDD [exch_method=Primitive]			
4		UC1!GETTDD		(pass)	
5		? TIMEOUT T		fail	
6		-> Loop			

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Step Dynamic Behaviour

Test Step Name : FetchUC2
Group : CA/LIBRARY
Purpose : Retrieve a TDD from the CA, depending on the exchange method, using LA Emulator No. 2
Default : inconclusive
Comments : Use UC2!

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		START T (timeout_tdd)			1
2	Loop	UC1!READ [exch_method=File]		(pass)	
3		UC1!POLLTDD [exch_method=Primitive]			
4		UC1!GETTDD		(pass)	
5		? TIMEOUT T		fail	
6		-> Loop			

NOTE 1: The value of the test suite parameter timeout_tdd is taken from PIXIT.

Test Step Dynamic Behaviour

Test Step Name : CheckTDD
Group : CA/LIBRARY
Purpose : Check a TDD at the Upper CA PCO. Includes syntax and semantics check, but not check of a related document's transfer format.
Default : Fail
Comments : The BNF notation describing the syntax is provided below;

BNF Syntax Notation

```
<tdd> :=          <applicom-header> <end-of-line>+
                  <function> <end-of-line>+
                  <keyword-parameter-pair>+
                  -- relevant to the "function" and the CCITT service used

<applicom-header> := <Code-ID> '*APPLI/COM*CCITT*1992*' <add-info>
                  -- SHALL be first element of file

<Code-ID> := "A" | "B" | "E" | "I"
<add-info> := STRING(SIZE(0..16))
<function> := "FUNCTION:" ("Send" | "Receive" | "Trace" | "Submit" | "Control" | "Extend")
<keyword-parameter-pair> := <keyword> ":" <parameter> <end-of-line>+
<keyword> :=    STRING(SIZE(1..16))
<parameter> := STRING(SIZE(1..255))
        -- if a semicolon character (";") is required inside the value
        -- field, it shall be escaped by the backslash character ("\")

<end-of-line> := { ";" STRING(SIZE(0..255)) };
```

Test Step Dynamic Behaviour					
Test Step Name : LoadICE					
Group : CA/LIBRARY					
Purpose : Set up the environment in such a way that the test ICE given in the constraint reference is active and used for the next test steps.					
Default :					
Comments :					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**

Test Step Dynamic Behaviour
Test Step Name : ICESyntaxCheck
Group : CA/LIBRARY
Purpose : Check that the ICE provided by the CA is syntactically correct.
Default :
Comments : The BNF notation describing the syntax is provided below;
BNF Syntax Notation
<ICE> := <applicom-header> <end-of-line>+ <CA-Descriptor>+ <applicom-header> := <Code-ID> "*APPLI/COM*CCITT*1992*" <add-info> *-- SHALL be first element of file* <Code-ID> := "A" | "B" | "E" | "I" <add-info> := "ICE" <CA-Descriptor> := "#" <end-of-line>+ (<keyword-parameter-pair> <end-of-line>+)+ <keyword-parameter-pair> := <keyword> ":" <parameter> ("," <parameter>)* <keyword> := STRING(SIZE(1..16)) <parameter> := STRING(SIZE(1..255)) *-- if a semicolon character (";") is required inside the value* *-- field, it shall be escaped by the backslash character ("\")* <end-of-line> := { ";" STRING(SIZE(0..255)) };

Test Step Dynamic Behaviour					
Test Step Name : LCDocCheck					
Group : CA/LIBRARY					
Purpose : Check that the presentation of the received document is the same as the sent document, depending on the telecommunication service.					
Default :					
Comments : For facsimile groups 3 and 4, a visual control is performed. For the Teletex and telex services, a more complete procedure may be applied.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**

Test Step Dynamic Behaviour

Test Step Name : UCDocCheck
Group : CA/LIBRARY
Purpose : Check that the presentation of the received document at the upper PCO is the same as the sent document, depending on the telecommunication service.
Default :
Comments : For facsimile groups 3 and 4, a visual control is performed. For the Teletex and telex services, a more complete procedure may be applied.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES

Test Step Dynamic Behaviour

Test Step Name : CheckTarget
Group : CA/LIBRARY
Purpose : Check that the presentation of the target file delivered by the COPY functionality is syntactically correct.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES

Test Step Dynamic Behaviour

Test Step Name : CheckPrint
Group : CA/LIBRARY
Purpose : Check that the presentation of the printout delivered by the PRINT functionality is correct.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES

Test Step Dynamic Behaviour

Test Step Name : DoLogin
Group : CA/LIBRARY
Purpose : To ensure logged-in state. This step is a test preamble.
Default : Pass
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		UC!LOGIN [login = FALSE]	LOGINparms		see pg 51 1
2		login := TRUE			

NOTE 1: Take Login-name and Password parameters from test suite parameters (derived from PIXIT).

Test Step Dynamic Behaviour					
Test Step Name : DoLogin1					
Group : CA/LIBRARY					
Purpose : To ensure logged-in state. This step is a test preamble.					
Default : Pass					
Comments : Use UC1!					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTE**
1		UC1!LOGIN [login1 = FALSE]	LOGINparms1		see pg 51 1
2		login1 := TRUE			
NOTE 1: Take Login-name and Password parameters from test suite parameters (derived from PIXIT).					

Test Step Dynamic Behaviour					
Test Step Name : DoLogin2					
Group : CA/LIBRARY					
Purpose : To ensure logged-in state. This step is a test preamble.					
Default : Pass					
Comments : Use UC2!					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTE**
1		UC2!LOGIN [login2 = FALSE]	LOGINparms2		see pg 51 1
2		login2 := TRUE			
NOTE 1: Take Login-name and Password parameters from test suite parameters (derived from PIXIT).					

6.5.3 Dynamic Behaviour: Test Defaults

There are no Test Default Behaviours.

7 LA Test Suite

7.1 LA Test Suite: Overview

7.1.1 Overview: Test Suite Structure

The Selection References used are found in the related PICS.

Test Suite Structure

Suite Name	:	T.611 LA Test Suite
Standards Reference	:	ETS 300 243-1 [1]
PICS Reference	:	Annex A of this ETS
PIXIT Reference	:	Annex B of this ETS
Test Methods	:	PCI test method as described in clause 4 of this ETS
Comments	:	

7.1.2 Overview: Test Case Index

Test Case Index

Test Group Reference	Test Case Id	Selection Reference	Description	Page Nr
LA/ICE	tcConnectFile	EM = file	Test connection to a CA Emulator.	143
	tcFeatureFile	EM = file	Test feature adaptation of the LA under test.	143
	tcConnectPrimitive	EM = primitive	Test connection to a CA Emulator.	143
	tcFeaturePrimitive	EM = primitive	Test feature adaptation of the LA under test.	144
LA/Active/Send	tcSEND11T50		Send one document to one recipient (using the Send function).	144
	tcSEND11ASCII		Send one document to one recipient (using the Send function).	145
	tcSEND11TIFF		Send one document to one recipient (using the Send function).	145
	tcSEND11T61		Send one document to one recipient (using the Send function).	146
	tcSEND11TIME1		Send one document to one recipient (using the Send function).	146
	tcSEND11TIME2		Send one document to one recipient (using the Send function).	147
	tcSEND11TIME3		Send one document to one recipient (using the Send function).	147
	tcSEND11TIME4		Send one document to one recipient (using the Send function).	148
	tcSEND21	FILELIST	Send many documents to one recipient (using the Send function).	148
	tcSEND12	ADDRLIST	Send one document to multiple recipients (using the Send function).	149
	tcSENDACK1		Send one document to one Send recipient (using the SendAck function).	149
	tcSENDACK2	FILELIST	Send many documents to one recipient (using the SendAck function).	150
LA/Active/Receive	tcRECEIVE		Receive a document.	151
LA/Active/Trace	tcTRACECOPY1		Get a list of events in the 'delayed' state using the Copy function.	152

(continued)

Test Case Index (concluded)

Test Group Reference	Test Case Id	Selection Reference	Description	Page Nr
	tcTRACECOPY2		Get a list of events in the 'sending' state using the Copy function.	153
	tcTRACECOPY3		Get a list of events in the 'sent' state using the Copy function.	153
	tcTRACECOPY4		Get a list of events in the 'failed' state using the Copy function.	154
	tcTRACECOPY5		Get a list of events in the 'reception' state using the Copy function.	154
	tcTRACECOPY6		Get a list of events in the 'retrieved' state using the Copy function.	155
	tcTRACEPURGE1		Remove events in the 'sent' state using the Purge function	155
	tcTRACEPURGE2		Remove events in the 'retrieved' state using the Purge function	156
	tcTRACEPURGE3		Remove events in the 'failed' state using the Purge function	156
	tcTRACEDISPATCH	DRF	Dispatch received information to a given user using the Dispatch function	157
	tcTRACERESCHEDULE		Reschedule the sending of an event using the Reschedule function	157
	tcTRACECANCEL		Abort the transmission of a sending event using the Cancel function	158
	tcTRACEDELETE		Remove an event from the list of delayed transmissions using the Delete function	158
LA/Active/Submit	tcSUBMITCONVERT	CONVERT and CONVCHECK	Convert document file formats using the Convert function	159
	tcSUBMITPRINT	PRINT	Print a document according to its file format	160
	tcSUBMITCHECK	CONVERT and CONVCHECK	Check a document's file format	160
LA/Passive	tcBasic		Perform passive tests of Functional Class A	161
	tcEnhanced	FCB	Perform passive tests of Functional Class B	162

7.1.3 Overview: Test Step Index

Test Step Index			
Test Group Reference	**Test Step Id**	**Description**	**Page Nr**
LA/LIBRARY	SendTDD	To ask the LA to pass a SEND or SENDACK TDD to the CA Emulator, using the TDD specified in the test case's constraint reference.	163
LA/LIBRARY	ReceiveTDD	To ask the LA to pass a RECEIVE TDD to the CA Emulator, using the TDD specified in the test case's constraint reference.	163
LA/LIBRARY	TraceCopyTDD	To ask the LA to pass a TRACE TDD, COPY Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	163
LA/LIBRARY	TracePurgeTDD	To ask the LA to pass a TRACE TDD, PURGE Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	163
LA/LIBRARY	TraceDispatchTDD	To ask the LA to pass a TRACE TDD, DISPATCH Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	163
LA/LIBRARY	TraceRescheduleTDD	To ask the LA to pass a TRACE TDD, RESCHEDULE Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	164
LA/LIBRARY	TraceCancelTDD	To ask the LA to pass a TRACE TDD, CANCEL Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	164
LA/LIBRARY	TraceDeleteTDD	To ask the LA to pass a TRACE TDD, DELETE Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	164
LA/LIBRARY	ConvertTDD	To ask the LA to pass a SUBMIT TDD, CONVERT Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	164
LA/LIBRARY	PrintTDD	To ask the LA to pass a SUBMIT TDD, PRINT Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	164
LA/LIBRARY	CheckTDD	To ask the LA to pass a SUBMIT TDD, CHECK Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.	165

7.1.4 Overview: Default Index

There are no Default Test Behaviours.

7.2 LA Test Suite: Declarations

7.2.1 Declaration: Test Components

Test Components Declaration		
TC Name	**TC Role**	**Comments**
LA User	Main Test Component	LA User for controlling and observing Interface from the user side (Upper LA tester).
CA Emulator	Parallel Test Component	CA Emulator for tests of the send and receive behaviour by monitoring and manipulating network data (Lower LA tester).

7.2.2 Declaration: Test Component Configurations

Test Component Configuration Declaration			
Configuration Name : Standard-LA-Environment **Comments** : Configuration to test LA being the only one in the terminal equipment			
TCs Used	**PCOs Used**	**CPs Used**	**Comments**
LA User	UL		Upper LA tester.
CA Emulator	LL	UL-LL-CP	Lower LA tester.

7.2.3 Declaration: Points of Control and Observation (PCOs)

Points of Control and Observation Declaration		
PCO Name	**PCO Role**	**Comments**
UL	Upper LA PCO (LA user side)	Access point at the LA User (used for active tests only).
LL	Lower LA PCO (CA side)	Access point at the CA Emulator.

7.2.4 Declaration: Control Points (CPs)

Control Points Declaration		
CP Name	**CP Role**	**Comments**
UL-LL-CP	LA User <-> CA Emulator	Co-ordination between LA User and CA Emulator (used for active tests only).

7.2.5 Declaration: Timers

Timer Declaration			
Timer Name	**Duration**	**Unit**	**Comments**
T	timeout_em	minutes	Timeout value taken from PIXIT, declared as Test Suite Parameter.
T1	timeout_get1	minutes	Timeout value taken from PIXIT, declared as Test Suite Parameter.
T2	timeout_get2	minutes	Timeout value taken from PIXIT, declared as Test Suite Parameter.
T3	timeout_get3	minutes	Timeout value taken from PIXIT, declared as Test Suite Parameter.
T4	timeout_get4	minutes	Timeout value taken from PIXIT, declared as Test Suite Parameter.
T5	timeout_get5	minutes	Timeout value taken from PIXIT, declared as Test Suite Parameter.

7.2.6 Declaration: Test Suite Parameter

Test Suite Parameter Declaration			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
timeout_em	INTEGER	PIXIT nr. 29	Timeout for observable event to occur at lower LA PCO.
timeout_get1	INTEGER	PIXIT nr. 30	Timeout for LA to retrieve a TDD response through a PollTDD function call.
timeout_get2	INTEGER	PIXIT nr. 31	Timeout for LA to poll the response of a TRACE:CANCEL TDD.
timeout_get3	INTEGER	PIXIT nr. 32	Timeout for LA to poll the response of a SUBMIT:CONVERT TDD.
timeout_get4	INTEGER	PIXIT nr. 33	Timeout for LA to poll the response of a SUBMIT:PRINT TDD.
timeout_get5	INTEGER	PIXIT nr. 34	Timeout for LA to poll the response of a SUBMIT:CHECK TDD.
login_name	IA5STRING	To be provided by tester	Login name for performing CA login.
password	OCTETSTRING	To be provided by tester	Password for performing CA login.

7.3 LA Test Suite: Type Definitions

The LA Test Suite Type Definitions are the same as the ones used in the CA Test Suite Type Definitions (see subclause 6.3).

7.4 LA Test Suite: Constraint Declarations

For the description of the constraint declarations, the following signs defined in ISO/IEC 9646 [3] are used in the Parameter value column of the following constraint definition tables:

- \- : parameter shall be omitted;
- ? : the parameter shall be present;
- * : the parameter may be present or omitted.

Furthermore, an "empty" parameter - a parameter pre-set with blanks or underline characters - is denoted by a pair of double quotes (""). If n/a is stated, the parameter is not applicable.

7.4.1 Constraint Declaration: ASPs

ASP Constraint Declaration		
Constraint Name : LOGINparmsLALOGINparms		
ASP Type : LOGIN		
Derivation Path :		
Comments :		
Parameter Name	**Parameter Value**	**Comments**
Login-name	login_name	Value taken from test suite parameters (PIXIT).
Password	password	Value taken from test suite parameters (PIXIT).
Connection-ID	*	
Status	*	

7.4.2 Constraint Declaration: TDDs

In the following TDD constraint definition tables only the keywords to be specified inside of the TDD are shown. Other keywords not mentioned - regardless wether they are basic or additive - shall not be used inside of the TDD. Furthermore, keywords mentioned but indicated with a dash ('-' character) as parameter value shall be omitted as well.

TDD Constraint Definition						
Constraint Name : SEND11T50req (service:IA5STRING)						
TDD Type : SEND						
Derivation Path :						
Comments : Request to send one document to one recipient using the service specified in parameter.						
Keyword	**Parameter value depending on: service**					**NOTE**
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	T.50	T.50	T.50	T.50	T.50	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1
NOTE 1: Any applicable value.						

TDD Constraint Definition

Constraint Name : SEND11ASCIIreq (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	ASCII	ASCII	ASCII	ASCII	ASCII	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SEND11TIFFreq (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	n/a	n/a	n/a	
LA-ID	?	?	n/a	n/a	n/a	1
REQ-ID	?	?	n/a	n/a	n/a	1
SERVICE	FX3	FX4	n/a	n/a	n/a	
One file only						
CONVERT	TIFF	TIFF	n/a	n/a	n/a	
FILENAME	?	?	n/a	n/a	n/a	1
One recipient						
ADDRESS	?	?	n/a	n/a	n/a	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SEND11T61req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient using the service specified in parameter

Keyword	Parameter value depending on: service					NOTE
	FX3	FX4	TLX	TX	TTX	
FUNCTION	n/a	n/a	n/a	n/a	SEND	
LA-ID	n/a	n/a	n/a	n/a	?	1
REQ-ID	n/a	n/a	n/a	n/a	?	1
SERVICE	n/a	n/a	n/a	n/a	T.61	
One file only						
CONVERT	n/a	n/a	n/a	n/a	TIFF	
FILENAME	n/a	n/a	n/a	n/a	?	1
One recipient						
ADDRESS	n/a	n/a	n/a	n/a	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SEND11T1req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to urgently send one document to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	FX4	TLX	TX	TTX	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SENDTIME	urgent	urgent	urgent	urgent	urgent	
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	T.50	T.50	T.50	T.50	T.50	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SEND11T2req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to immediately send one document to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SENDTIME	immediate	immediate	immediate	immediate	immediate	
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	T.50	T.50	T.50	T.50	T.50	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SEND11T3req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient using the service specified in parameter, at a future date/time.

Keyword	Parameter value depending on: service					NOTES
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SENDTIME	future date/time	future date/time	future date/time	future date/time	future date/time	2
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	T.50	T.50	T.50	T.50	T.50	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.
NOTE 2: Any date/time that applies to future.

TDD Constraint Definition

Constraint Name : SEND11T4req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to one recipient using the service specified in parameter, to a past date/time.

Keyword	Parameter value depending on: service					NOTES
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SENDTIME	past date/time	past date/time	past date/time	past date/time	past date/time	2
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	T.50	T.50	T.50	T.50	T.50	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.
NOTE 2: Any date/time that applies to past.

TDD Constraint Definition

Constraint Name : SEND21req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send many documents to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
Many files						
FILELIST*	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SEND12req (service:IA5STRING)
TDD Type : SEND
Derivation Path :
Comments : Request to send one document to many recipients using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SEND	SEND	SEND	SEND	SEND	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
One file only						
CONVERT	T.50	T.50	T.50	T.50	T.50	
FILENAME	?	?	?	?	?	1
Many recipients						
ADDRLIST*	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SENDACK1req (service:IA5STRING)
TDD Type : SENDACK
Derivation Path :
Comments : Request to send one document to one recipient using the service specified in parameter. Acknowledgement is required.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SENDACK	SENDACK	SENDACK	SENDACK	SENDACK	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
ADDRESS	?	?	?	?	?	1
ERROR	""	""	""	""	""	
STATUS	""	""	""	""	""	
One file only						
CONVERT	(ASCII, TIFF, T.50)	(ASCII, TIFF, T.50)	(ASCII, T.50)	(ASCII, T.50)	(ASCII, T.61)	
FILENAME	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SENDACK1resp (service:IA5STRING)
TDD Type : SENDACK
Derivation Path :
Comments : Response to a sendack request: one document to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SENDACK	SENDACK	SENDACK	SENDACK	SENDACK	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
COMID	?	?	?	?	?	1
ERROR	0000	0000	0000	0000	0000	
STATUS	"+"	"+"	"+"	"+"	"+"	
One file only						
CONVERT	(ASCII, TIFF, T.50)	(ASCII, TIFF, T.50)	(ASCII, T.50)	(ASCII, T.50)	(ASCII, T.61)	
FILENAME	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SENDACK2req (service:IA5STRING)
TDD Type : SENDACK
Derivation Path :
Comments : Request to send many documents to one recipient using the service specified in parameter. Acknowledgement is required.

Keyword	Parameter value depending on: service					NOTE
	FX3	**FX4**	**TLX**	**TX**	**TTX**	
FUNCTION	SENDACK	SENDACK	SENDACK	SENDACK	SENDACK	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
ADDRESS	?	?	?	?	?	1
ERROR	""	""	""	""	""	
STATUS	""	""	""	""	""	
Many files						
FILELIST	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : SENDACK2resp (service:IA5STRING)
TDD Type : SENDACK
Derivation Path :
Comments : Response to a sendack request: one document to one recipient using the service specified in parameter.

Keyword	Parameter value depending on: service					NOTE
	FX3	FX4	TLX	TX	TTX	
FUNCTION	SENDACK	SENDACK	SENDACK	SENDACK	SENDACK	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
SERVICE	FX3	FX4	TLX	TX	TTX	
COMID	?	?	?	?	?	1
ERROR	0000	0000	0000	0000	0000	
STATUS	"+"	"+"	"+"	"+"	"+"	
Many files						
FILELIST	?	?	?	?	?	1
One recipient						
ADDRESS	?	?	?	?	?	1

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : RECEIVEreq
TDD Type : RECEIVE
Derivation Path :
Comments : Request to receive document(s).

Keyword	Parameter value depending on: service					NOTE
	FX3	FX4	TLX	TX	TTX	
FUNCTION	RECEIVE	RECEIVE	RECEIVE	RECEIVE	RECEIVE	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
FILENAME	?	?	?	?	?	1
CONVERT	?	?	?	?	?	1
ERROR	""	""	""	""	""	
STATUS	""	""	""	""	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : RECEIVEresp
TDD Type : RECEIVE
Derivation Path :
Comments : Response to request to receive document(s).

Keyword	Parameter value depending on: service					NOTE
	FX3	FX4	TLX	TX	TTX	
FUNCTION	RECEIVE	RECEIVE	RECEIVE	RECEIVE	RECEIVE	
LA-ID	?	?	?	?	?	1
REQ-ID	?	?	?	?	?	1
FILENAME	?	?	?	?	?	1
CONVERT	?	?	?	?	?	1
ERROR	0000	0000	0000	0000	0000	
STATUS	""	""	""	""	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY1req
TDD Type : TRACE, function COPY, request
Derivation Path :
Comments : Request to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	delayed	
TARGET	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY1resp
TDD Type : TRACE, function COPY, Response
Derivation Path :
Comments : Response to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	delayed	
TARGET	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY2req
TDD Type : TRACE, function COPY, request
Derivation Path :
Comments : Request to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	sending	
TARGET	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY2resp
TDD Type : TRACE, function COPY, Response
Derivation Path :
Comments : Response to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	sending	
TARGET	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY3req
TDD Type : TRACE, function COPY, request
Derivation Path :
Comments : Request to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	sent	
TARGET	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY3resp
TDD Type : TRACE, function COPY, Response
Derivation Path :
Comments : Response to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	sent	
TARGET	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY4req
TDD Type : TRACE, function COPY, request
Derivation Path :
Comments : Request to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	failed	
TARGET	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY4resp
TDD Type : TRACE, function COPY, Response
Derivation Path :
Comments : Response to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	failed	
TARGET	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY5req
TDD Type : TRACE, function COPY, request
Derivation Path :
Comments : Request to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	reception	
TARGET	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY5resp
TDD Type : TRACE, function COPY, Response
Derivation Path :
Comments : Response to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	reception	
TARGET	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY6req
TDD Type : TRACE, function COPY, request
Derivation Path :
Comments : Request to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	retrieved	
TARGET	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : COPY6resp
TDD Type : TRACE, function COPY, Response
Derivation Path :
Comments : Response to get information from the CA.

Keyword	Parameter	NOTE
FUNCTION	COPY	
LA-ID	?	1
REQ-ID	?	1
STATE	retrieved	
TARGET	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PURGE1req
TDD Type : TRACE, function PURGE, request
Derivation Path :
Comments : Request to purge no longer useful information.

Keyword	Parameter	NOTE
FUNCTION	PURGE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
STATE	sent	1
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PURGE1resp
TDD Type : TRACE, function PURGE, Response
Derivation Path :
Comments : Response to purge no longer useful information.

Keyword	Parameter	NOTE
FUNCTION	PURGE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
STATE	sent	
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PURGE2req
TDD Type : TRACE, function PURGE, request
Derivation Path :
Comments : Request to purge no longer useful information.

Keyword	Parameter	NOTE
FUNCTION	PURGE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
STATE	retrieved	
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PURGE2resp
TDD Type : TRACE, function PURGE, Response
Derivation Path :
Comments : Response to purge no longer useful information.

Keyword	Parameter	NOTE
FUNCTION	PURGE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
STATE	retrieved	
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PURGE3req
TDD Type : TRACE, function PURGE, request
Derivation Path :
Comments : Request to purge no longer useful information.

Keyword	Parameter	NOTE
FUNCTION	PURGE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
STATE	failed	
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PURGE3resp
TDD Type : TRACE, function PURGE, Response
Derivation Path :
Comments : Response to purge no longer useful information.

Keyword	Parameter	NOTE
FUNCTION	PURGE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
STATE	failed	
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : DISPATCHreq
TDD Type : TRACE, function DISPATCH, request
Derivation Path :
Comments : Request to delete a scheduled transmission.

Keyword	Parameter	NOTE
FUNCTION	DISPATCH	
LA-ID	?	1
COMID	?	1
NEWLA	?	1
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : DISPATCHresp
TDD Type : TRACE, function DISPATCH, Response
Derivation Path :
Comments : Response to delete a scheduled transmission.

Keyword	Parameter	NOTE
FUNCTION	DISPATCH	
LA-ID	?	1
COMID	?	1
NEWLA	?	1
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : RESCHEDULEreq
TDD Type : TRACE, function RESCHEDULE, request
Derivation Path :
Comments : Request to reschedule a transmission.

Keyword	Parameter	NOTE
FUNCTION	RESCHEDULE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : RESCHEDULEresp
TDD Type : TRACE, function RESCHEDULE, Response
Derivation Path :
Comments : Response to reschedule a transmission.

Keyword	Parameter	NOTE
FUNCTION	RESCHEDULE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : CANCELreq
TDD Type : TRACE, function CANCEL, request
Derivation Path :
Comments : Request to cancel a transmission.

Keyword	Parameter	NOTE
FUNCTION	CANCEL	
LA-ID	?	1
COMID	?	1
REQREF	?	1
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : CANCELresp
TDD Type : TRACE, function CANCEL, response
Derivation Path :
Comments : Response to cancel a transmission.

Keyword	Parameter	NOTE
FUNCTION	CANCEL	
LA-ID	?	1
COMID	?	1
REQREF	?	1
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : DELETEreq
TDD Type : TRACE, function DELETE, request
Derivation Path :
Comments : Request to delete a scheduled transmission.

Keyword	Parameter	NOTE
FUNCTION	DELETE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
REQ-ID	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : DELETEresp
TDD Type : TRACE, function DELETE, Response
Derivation Path :
Comments : Response to delete a scheduled transmission.

Keyword	Parameter	NOTE
FUNCTION	DELETE	
LA-ID	?	1
COMID	?	1
REQREF	?	1
REQ-ID	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PRINTreq
TDD Type : SUBMIT, function PRINT, request
Derivation Path :
Comments : Request to print a file.

Keyword	Parameter	NOTE
FUNCTION	PRINT	
LA-ID	?	1
REQ-ID	?	1
FILENAME	?	1
INFORMT	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : PRINTresp
TDD Type : SUBMIT, function PRINT, response
Derivation Path :
Comments : Response to print a file.

Keyword	Parameter	NOTE
FUNCTION	PRINT	
LA-ID	?	1
REQ-ID	?	1
FILENAME	?	1
INFORMT	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : CONVERTreq
TDD Type : SUBMIT, function CONVERT, request
Derivation Path :
Comments : Request to convert a file.

Keyword	Parameter	NOTE
FUNCTION	CONVERT	
LA-ID	?	1
REQ-ID	?	1
FILENAME	?	1
TARGET	?	1
INFORMT	?	1
OUTFORMT	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : CONVERTresp
TDD Type : SUBMIT, function CONVERT, response
Derivation Path :
Comments : Response to convert a file.

Keyword	Parameter	NOTE
FUNCTION	CONVERT	
LA-ID	?	1
REQ-ID	?	1
FILENAME	?	1
TARGET	?	1
INFORMT	?	1
OUTFORMT	?	1
ERROR	0000	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : CHECKreq
TDD Type : SUBMIT, function CHECK, request
Derivation Path :
Comments : Request to check the format of a file.

Keyword	Parameter	NOTE
FUNCTION	CHECK	
LA-ID	?	1
REQ-ID	?	1
FILENAME	?	1
CHECK	?	1
ERROR	""	

NOTE 1: Any applicable value.

TDD Constraint Definition

Constraint Name : CHECKresp
TDD Type : SUBMIT, function CHECK, response
Derivation Path :
Comments : Response to check the format of a file.

Keyword	Parameter	NOTE
FUNCTION	CHECK	
LA-ID	?	1
REQ-ID	?	1
FILENAME	?	1
CHECK	?	1
ERROR	0000	

NOTE 1: Any applicable value.

7.4.3 Constraint Declarations: ICE

ICE Constraint Definition		
Constraint Name	:	ICE_connect_file
ICE type	:	ICE_file
Derivation Path	:	
Comments	:	To test the connection of an LA under test to a CA Emulator.

ICE Constraint Definition		
Constraint Name	:	ICE_connect_primitive
ICE type	:	Depends on the type of primitive EM - see below
Derivation Path	:	
Comments	:	To test the connection of an LA under test to a CA Emulator. Depending on the exchange method supported by the LA (see the PICS), the suitable ICE type definition shall be selected by the tester.

Type of primitive EM

	Driver	**Interrupt**	**Library**	**DLL**	**DDE**
Use ICE Type Definition	ICE_driver	ICE_interrupt	ICE_library	ICE_dll	ICE_dde

ICE Constraint Definition

Constraint Name	:	ICE_feature_file
ICE type	:	ICE_file
Derivation Path	:	
Comments	:	To test that the LA recognises and gives effective access to features provided by the CA Emulator. The tester shall provide the test ICE specified in the "ICE type", and modify it according to the instructions given below. The modifications to perform are related to the line numbers as described in the ICE type definitions.

Features to be tested

Feature	DRF	TLX	TX	TTX	FX3	FX4	PRINT	CONVERT	CHECK
PICS ref									
ICE line numbers to be included/enabled [2)]									
	12	16	17	18	19	20	13, 14	13, 15	13, 15
ICE line numbers to be excluded/disabled [3)]									

[2)] In such a way that the feature is enabled (e.g. when the parameter takes the YES or NO values, it should be set to YES).

[3)] In such a way that the feature is disabled (e.g. when the parameter takes the YES or NO values, it should be set to NO).

ICE Constraint Definition

Constraint Name	:	ICE_feature_primitive
ICE type	:	Depends on the type of primitive EM - see below
Derivation Path	:	
Comments	:	To test that the LA recognises and gives effective access to features provided by the CA Emulator. The tester shall select the ICE type depending on the type of Exchange Method supported by the LA, as declared in the LA PICS. The tester shall provide the test ICE specified in the "ICE type", and modify it according to the instructions given below. The modifications to perform are related to the line numbers as described in the ICE type definitions.

Type of primitive EM

	Driver	**Interrupt**	**Library**	**DLL**	**DDE**
Use ICE Type Definition	ICE_driver	ICE_interrupt	ICE_library	ICE_dll	ICE_dde

Features to be tested

Feature	DRF	TLX	TX	TTX	FX3	FX4	PRINT	CONVERT	CHECK
PICS ref									
ICE line numbers to be included/enabled [4]									
ICE_driver	10	14	15	16	17	18	11, 12	11, 13	11, 13
ICE_interrupt	10	14	15	16	17	18	11, 12	11, 13	11, 13
ICE_library	11	15	16	17	18	19	12, 13	12, 14	12, 14
ICE_dll	11	15	16	17	18	19	12, 13	12, 14	12, 14
ICE_dde	13	17	18	19	20	21	14, 15	14, 16	14, 16
ICE line numbers to be excluded/disabled [5]									
ICE_driver									
ICE_interrupt									
ICE_library									
ICE_dll									
ICE_dde									

[4] In such a way that the feature is enabled (e.g. when the parameter takes the YES or NO values, it should be set to YES).

[5] In such a way that the feature is disabled (e.g. when the parameter takes the YES or NO values, it should be set to NO).

7.5 LA Test Suite: Dynamic Behaviour

7.5.1 Dynamic Behaviour: Test Groups

7.5.1.1 Test Group: LA/ICE

Test Case Dynamic Behaviour

Test Case Name : tcConnectFile
Group : LA/ICE
Purpose :
Configuration :
Default : Fail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+LoadICE	ICE_connect_file		see pg 140
2		UL!Login	LOGINParms	Pass	see pg 121

Test Case Dynamic Behaviour

Test Case Name : tcFeatureFile
Group : LA/ICE
Purpose :
Configuration :
Default : Fail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+LoadICE	ICE_feature_file		see pg 141
2		UL!Login	LOGINParms		see pg 121
3		+Check_feature_available		Pass	

Test Case Dynamic Behaviour

Test Case Name : tcConnectPrimitive
Group : LA/ICE
Purpose :
Configuration :
Default : Fail
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		+LoadICE	ICE_connect_primitive		see pg 140
2		UL!Login	LOGINParms	Pass	see pg 121

Test Case Dynamic Behaviour					
Test Case Name : tcFeaturePrimitive **Group** : LA/ICE **Purpose** : **Configuration** : **Default** : Fail **Comments** :					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		+LoadICE	ICE_feature_primitive		see pg **Error! Bookmark not defined.**
2		UL!Login	LOGINParms		see pg 121
3		+Check_feature_available		Pass	

7.5.1.2 TestGroup: LA/Active/Send

Test Case Dynamic Behaviour					
Test Case Name : tcSEND11T50 (sid:Service-id) **Group** : LA/Active/Send **Purpose** : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, using the T.50 format. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service dependent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!SendTDD	SEND11T50req(sid)		see pg 121
2		START T (timeout_em)			
3		?PutLL	SEND11T50req(sid)		
4		+CheckTDD	SEND11T50req(sid)		
5		+CheckDocument(T.50)		Pass	
6		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11ASCII (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, using the ASCII format.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND11ASCIIreq(sid)		see pg 122
2		START T (timeout_em)			
3		?PutLL	SEND11ASCIIreq(sid)		
4		+CheckTDD	SEND11ASCIIreq(sid)		
5		+CheckDocument(ASCII)		Pass	
6		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIFF (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, using the TIFF format.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND11TIFFreq(sid)		see pg 122
2		START T (timeout_em)			
3		?PutLL	SEND11TIFFreq(sid)		
4		+CheckTDD	SEND11TIFFreq(sid)		
5		+CheckDocument(TIFF)		Pass	
6		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11T61 (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, using the T.61 format.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND11T61req(sid)		see pg 123
2		START T (timeout_em)			
3		?PutLL	SEND11T61req(sid)		
4		+CheckTDD	SEND11T61req(sid)		
5		+CheckDocument(T.61)		Pass	
6		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIME1 (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, urgently.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND11T1req(sid)		
2		START T (timeout_em)			
3		?PutLL	SEND11T1req(sid)		
4		+CheckTDD	SEND11T1req(sid)	Pass	
5		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIME2 (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, immediately.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND11T2req(sid)		see pg 124
2		START T (timeout_em)			
3		?PutLL	SEND11T2req(sid)		
4		+CheckTDD	SEND11T2req(sid)	Pass	
5		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIME3 (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, at a future date/time.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND11T3req(sid)		see pg 124
2		START T (timeout_em)			
3		?PutLL	SEND11T3req(sid)		
4		+CheckTDD	SEND11T3req(sid)	Pass	
5		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSEND11TIME4 (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send 1 document to 1 recipient, at a past date/time.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTE
1		UL!SendTDD	SENDreq11T4(sid)		see pg 125
2		START T (timeout_em)			
3		?PutLL	SENDreq11T4(sid)	Pass	
4		+CheckTDD	SENDreq11T4(sid)	Pass	
5		?TIMEOUT T		Pass	1

NOTE 1: The LA may refuse to generate requests scheduled to a "past" date.

Test Case Dynamic Behaviour

Test Case Name : tcSEND21 (sid:Service-id)
Group : LA/Active/Send
Purpose : To test send behaviour without send-acknowledge using only basic features; Send many documents to 1 recipient.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SEND21req(sid)		see pg 125
2		START T (timeout_em)			
3		?PutLL	SEND21req(sid)		
4		+CheckTDD	SEND21req(sid)	Pass	
5		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcSEND12 (sid:Service-id) **Group** : LA/Active/Send **Purpose** : To test send behaviour without send-acknowledge using only basic features; Send 1 document to many recipients. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service dependent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!SendTDD	SEND12req(sid)		see pg 126
2		START T (timeout_em)			
3		?PutLL	SEND12req(sid)		
4		+CheckTDD	SEND12req(sid)	Pass	
5		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcSENDACK1 (sid:Service-id) **Group** : LA/Active/Send **Purpose** : To test send behaviour with acknowledge using only basic features; Send 1 document to 1 recipient. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service dependent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!SendTDD	SENDACK1req(sid)		see pg 126
2		START T (timeout_em)			
3		?PutLL	SENDACK1req(sid)		
4		+CheckTDD	SENDACK1req(sid)		
5		START T1 (timeout_get1)			
6		?GetLL	SENDACK1resp(sid)	Pass	see pg 127
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name	:	tcSENDACK2 (sid:Service-id)
Group	:	LA/Active/Send
Purpose	:	To test send behaviour with acknowledge using only basic features; Send many documents to 1 recipient.
Configuration	:	Standard-LA-Environment
Default	:	Inconclusive
Comments	:	This test is service dependent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!SendTDD	SENDACK2req(sid)		see pg 127
2		START T (timeout_em)			
3		?PutLL	SENDACK2req(sid)		
4		+CheckTDD	SENDACK2req(sid)		
5		START T1 (timeout_get1)			
6		?GetLL	SENDACK2resp(sid)	Pass	see pg 128
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

7.5.1.3 TestGroup: LA/Active/Receive

Test Case Dynamic Behaviour					
Test Case Name : tcRECEIVE **Group** : LA/Active/Receive **Purpose** : To test reception behaviour with receive function using only basic features. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!ReceiveTDD	RECEIVEreq		see pg 128
2		START T (timeout_em)			
3		?PutLL	RECEIVEreq		
4		+CheckTDD	RECEIVEreq		
5		START T1 (timeout_get1)			
6		?GetLL	RECEIVEresp	Pass	
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

7.5.1.4 Test Group: LA/Active/Trace

Test Case Dynamic Behaviour

Test Case Name : tcTRACECOPY1
Group : LA/Active/Trace
Purpose : To test logging behaviour with Copy function used on the delayed state.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!+TraceCopyTDD	COPY1req		see pg 129
2		START T (timeout_em)			
3		?PutLL	COPY1req		
4		+CheckTDD	COPY1req		
5		START T1 (timeout_get1)			
6		?GetLL	COPY1resp	Pass	see pg 129
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACECOPY2 **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Copy function used on the sending state. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	COPY2req		see pg 130
2		START T (timeout_em)			
3		?PutLL	COPY2req		
4		+CheckTDD	COPY2req		
5		START T1 (timeout_get1)			
6		?GetLL	COPY2resp	Pass	see pg 130
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACECOPY3 **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Copy function used on the sent state. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	COPY3req		see pg 130
2		START T (timeout_em)			
3		?PutLL	COPY3req		
4		+CheckTDD	COPY3req		
5		START T1 (timeout_get1)			
6		?GetLL	COPY3resp	Pass	see pg 131
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcTRACECOPY4
Group : LA/Active/Trace
Purpose : To test logging behaviour with Copy function used on the failed state.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	COPY4req		see pg 131
2		START T (timeout_em)			
3		?PutLL	COPY4req		
4		+CheckTDD	COPY4req		
5		START T1 (timeout_get1)			
6		?GetLL	COPY4resp	Pass	see pg 131
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcTRACECOPY5
Group : LA/Active/Trace
Purpose : To test logging behaviour with Copy function used on the reception state.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	COPY5req		see pg 132
2		START T (timeout_em)			
3		?PutLL	COPY5req		
4		+CheckTDD	COPY5req		
5		START T1 (timeout_get1)			
6		?GetLL	COPY5resp	Pass	see pg 132
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACECOPY6 **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Copy function used on the retrieved state. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	COPY6req		see pg 132
2		START T (timeout_em)			
3		?PutLL	COPY6req		
4		+CheckTDD	COPY6req		
5		START T1 (timeout_get1)			
6		?GetLL	COPY6resp	Pass	see pg 133
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACEPURGE1 **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Purge function used on the sent state. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	PURGE1req		see pg 133
2		START T (timeout_em)			
3		?PutLL	PURGE1req		
4		+CheckTDD	PURGE1req		
5		START T1 (timeout_get1)			
6		?GetLL	PURGE1resp	Pass	see pg 133
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACEPURGE2 **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Purge function used on the retrieved state. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	PURGE2req		see pg 134
2		START T (timeout_em)			
3		?PutLL	PURGE2req		
4		+CheckTDD	PURGE2req		
5		START T1 (timeout_get1)			
6		?GetLL	PURGE2resp	Pass	see pg 134
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACEPURGE3 **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Purge function used on the failed state. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	PURGE3req		see pg 134
2		START T (timeout_em)			
3		?PutLL	PURGE3req		
4		+CheckTDD	PURGE3req		
5		START T1 (timeout_get1)			
6		?GetLL	PURGE3resp	Pass	see pg 135
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACEDISPATCH **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Dispatch function to a given LA-ID. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	DISPATCHreq		see pg 135
2		START T (timeout_em)			
3		?PutLL	DISPATCHreq		
4		+CheckTDD	DISPATCHreq		
5		START T1 (timeout_get1)			
6		?GetLL	DISPATCHresp	Pass	see pg 135
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour					
Test Case Name : tcTRACERESCHEDULE **Group** : LA/Active/Trace **Purpose** : To test logging behaviour with Reschedule function. **Configuration** : Standard-LA-Environment **Default** : Inconclusive **Comments** : This test is service independent.					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**NOTES**
1		UL!TraceCopyTDD	RESCHEDULEreq		see pg 136
2		START T (timeout_em)			
3		?PutLL	RESCHEDULEreq		
4		+CheckTDD	RESCHEDULEreq		
5		START T1 (timeout_get1)			
6		?GetLL	RESCHEDULEresp	Pass	see pg 136
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcTRACECANCEL
Group : LA/Active/Trace
Purpose : To test abortion of a transmission with Cancel function.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	CANCELreq		see pg 136
2		START T (timeout_em)			
3		?PutLL	CANCELreq		
4		+CheckTDD	CANCELreq		
5		START T2 (timeout_get2)			
6		?GetLL	CANCELresp	Pass	see pg 137
7		?TIMEOUT T2		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcTRACEDELETE
Group : LA/Active/Trace
Purpose : To test removal of a scheduled transmission with Delete function.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	DELETEreq		see pg 137
2		START T (timeout_em)			
3		?PutLL	DELETEreq		
4		+CheckTDD	DELETEreq		
5		START T1 (timeout_get1)			
6		?GetLL	DELETEresp	Pass	see pg 137
7		?TIMEOUT T1		Inconc.	
8		?TIMEOUT T		Inconc.	

7.5.1.5 Test Group: LA/Active/Submit

Test Case Dynamic Behaviour

Test Case Name : tcSUBMITCONVERT
Group : LA/Active/Submit
Purpose : To test submission of a conversion task.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	CONVERTreq		see pg 138
2		START T (timeout_em)			
3		?PutLL	CONVERTreq		
4		+CheckTDD	CONVERTreq		
5		START T3 (timeout_get3)			
6		?GetLL	CONVERTresp	Pass	see pg 139
7		?TIMEOUT T3		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSUBMITPRINT
Group : LA/Active/Submit
Purpose : To test submission of a print task.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	PRINTreq		see pg 138
2		START T (timeout_em)			
3		?PutLL	PRINTreq		
4		+CheckTDD	PRINTreq		
5		START T4 (timeout_get4)			
6		?GetLL	PRINTresp	Pass	see pg 138
7		?TIMEOUT T4		Inconc.	
8		?TIMEOUT T		Inconc.	

Test Case Dynamic Behaviour

Test Case Name : tcSUBMITCHECK
Group : LA/Active/Submit
Purpose : To test submission of a format check task.
Configuration : Standard-LA-Environment
Default : Inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		UL!TraceCopyTDD	CHECKreq		see pg 139
2		START T (timeout_em)			
3		?PutLL	CHECKreq		
4		+CheckTDD	CHECKreq		
5		START T5 (timeout_get5)			
6		?GetLL	CHECKresp	Pass	see pg 139
7		?TIMEOUT T5		Inconc.	
8		?TIMEOUT T		Inconc.	

7.5.1.6 Test Group: LA/Passive

Test Case Dynamic Behaviour

Test Case Name : tcBasic
Group : LA/Passive
Purpose : To test LA behaviour in a passive fashion. Only functional class A requests are permitted. The LA is supposed to be logged in to the lower tester (CA Emulator).
Configuration : Standard-LA-Environment
Default : inconclusive
Comments : This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		LL?LOGIN		Fail	
2		+PutLL (tdd := TDDreq)	tdd_req		
3		+CheckTDD [tdd = SENDreq]	SENDreq	(pass)	
4		+CheckTDD [tdd = SENDACKreq]	SENDACKreq	(pass)	
5		+CheckTDD [tdd = RECEIVEreq]	RECEIVEreq	(pass)	
6		+GetLL		inconc.	
7		LL?SETALARM		inconc.	
8		LL?LOGOUT		inconc.	

Test Case Dynamic Behaviour

Test Case Name	:	tcEnhanced
Group	:	LA/Passive
Purpose	:	To test LA behaviour in a passive fashion. Only functional class A requests are permitted. The LA is supposed to be logged in to the lower tester (CA Emulator).
Configuration	:	Standard-LA-Environment
Default	:	inconclusive
Comments	:	This test is service independent.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	NOTES
1		LL?LOGIN		Fail	
2		+PutLL (tdd := TDDreq)	tdd_req		
3		+CheckTDD [tdd = SENDreq]	SENDreq	(pass)	
4		+CheckTDD [tdd = SENDACKreq]	SENDACKreq	(pass)	
5		+CheckTDD [tdd = RECEIVEreq]	RECEIVEreq	(pass)	
6		+CheckTDD [tdd = COPYreq]	COPYreq	(pass)	
7		+CheckTDD [tdd = PURGEreq]	PURGEreq	(pass)	
8		+CheckTDD [tdd = DISPATCHreq]	DISPATCHreq	(pass)	
9		+CheckTDD [tdd = RESCHEDULEreq]	RESCHEDULEreq	(pass)	
10		+CheckTDD [tdd = CANCELreq]	CANCELreq	(pass)	
11		+CheckTDD [tdd = DELETEreq]	DELETEreq	(pass)	
12		+CheckTDD [tdd = CONVERTreq]	CONVERTreq	(pass)	
13		+CheckTDD [tdd = PRINTreq]	PRINTreq	(pass)	
14		+CheckTDD [tdd = CHECKreq]	CHECKreq	(pass)	
15		+CheckTDD [tdd = EXTENDreq]	EXTENDreq	(pass)	
16		+CheckTDD [tdd = NATIONALreq]	NATIONALreq	(pass)	
17		+CheckTDD [tdd = PRIVATEreq]	PRIVATEreq	(pass)	
18		+GetLL		inconc.	
19		LL?SETALARM		inconc.	
20		LL?LOGOUT		inconc.	

7.5.2 Dynamic Behaviour: Test Steps

Test Step Dynamic Behaviour		
Test Step Name	:	SendTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a SEND or SENDACK TDD to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	ReceiveTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a RECEIVE TDD to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	TraceCopyTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a TRACE TDD, COPY Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	TracePurgeTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a TRACE TDD, PURGE Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	TraceDispatchTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a TRACE TDD, DISPATCH Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	TraceRescheduleTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a TRACE TDD, RESCHEDULE Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	TraceCancelTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a TRACE TDD, CANCEL Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	TraceDeleteTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a TRACE TDD, DELETE Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	ConvertTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a SUBMIT TDD, CONVERT Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	:	PrintTDD
Group	:	LA/LIBRARY
Purpose	:	To ask the LA to pass a SUBMIT TDD, PRINT Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	:	
Comments	:	See PIXIT.

Test Step Dynamic Behaviour		
Test Step Name	**:**	CheckTDD
Group	**:**	LA/LIBRARY
Purpose	**:**	To ask the LA to pass a SUBMIT TDD, CHECK Function, to the CA Emulator, using the TDD specified in the test case's constraint reference.
Default	**:**	
Comments	**:**	See PIXIT. The BNF syntax notation is provided below.

BNF Syntax Notation

```
<tdd> :=            <applicom-header> <end-of-line>+
                    <function> <end-of-line>+
                    <keyword-parameter-pair>+
                    -- relevant to the "function" and the CCITT service used

<applicom-header> := <Code-ID> '*APPLI/COM*CCITT*1992*' <add-info>
                    -- SHALL be first element of file

<Code-ID> := "A" | "B" | "E" | "I"
<add-info> := STRING(SIZE(0..16))
<function> := "FUNCTION:" ("Send" | "Receive" | "Trace" | "Submit" | "Control" | "Extend")
<keyword-parameter-pair> := <keyword> ":" <parameter> <end-of-line>+
<keyword> :=    STRING(SIZE(1..16))
<parameter> :=  STRING(SIZE(1..255))
          -- if a semicolon character (";") is required inside the value
          -- field, it shall be escaped by the backslash character ("\")

<end-of-line> := { ";" STRING(SIZE(0..255)) };
```

7.5.3 Dynamic Behaviour: Test Defaults

There are no Test Defaults defined.

Annex A (normative): PICS Proforma

A.1 CA PICS Proforma

A.1.1 Global requirements

A.1.1.1 Functional classes

Classes implemented				
Item #	**Functional Class**	**Reference**	**Status**	**Support**
0	A		c1	
1	B		c1	
c1:	Only one of these two classes shall be supported.			

A.1.1.2 TDD Types

TDD types implemented				
Item #	**TDD type**	**Reference**	**Status**	**Support**
0	SEND (“send variation”)			
1	SEND (“sendack variation”)			
2	RECEIVE			
3	TRACE:Delete			
4	TRACE:Copy			
5	TRACE:Cancel			
6	TRACE:Purge			
7	TRACE:Reschedule			
8	TRACE:Dispatch			
9	SUBMIT:Print			
10	SUBMIT:Convert			
11	SUBMIT:Check			

A.1.1.3 Support of many LAs

Support of many LAs				
Item #	**Question**	**Reference**	**Status**	**Support**
0	How many LAs are supported ?			

A.1.2 ICE

When a keyword is specified as mandatory (m) or conditional and the condition applies, the parameter shall be specified.

Keys to table	Meaning
c1	At least one of these keywords shall be specified.
c2	Only if CONVERT or CHECK were specified in any SUBMIT line(s).
c3	Only if PRINT was specified in a SUBMIT line.
c4	Only if the FC line mentions the "B" parameter.
c5	Only if the EM line mentions the "file" parameter.
c6	Only if the EM line mentions the "primitive" parameter.
c7	c6 & (the ENVIRON line mentions the "MSDOS" or "WINDOWS" parameters).
c8	Only if the LIB line is specified.
c9	c7 & (the ENVIRON line mentions the "WINDOWS" parameter).
c10	Only if the DLL line is specified.
c11	Only if the DDE line is specified.
1	Indicates the keyword can appear only once in a given CA Descriptor.
0, n	Indicates the keyword can appear 0 or more times in a given CA Descriptor.
1, n	Indicates the keyword can appear 1 or more times in a given CA Descriptor.

Keyword/Parameter	Status	Indic.	Predic.	Param.	Support
APPLICOM	m	1			
DRF	o	1			
EM	m	1			
CODING	m	1,n			
COUNTRY	m	1			
FC	m	1			
TLX	c1	1			
TX	c1	1			
TTX	c1	1, n			
FX3	c1	1, n			
FX4	c1	1, n			
ADDKEYS	o	0, n			
EXTEND	o	0, n			
NATIONAL	o	0, n			
PRIVATE	o	0, n			
SUBMIT	o	0, n			
CONVCHK	c2	1, n			
PRINT	c3	1, n			
CODEPAGE	o	0, n			
RECORD	c4	0, n			
ENVIRON	m	1, n			
SYNC	c5	1			
F_JOB_Q	c5	1			
F_ACK_Q	c5	1			
ERROR_Q	c5	1			
ALARM	c6	1			
DRIVER	c7	1			
INT	c7	1			
LIB	c7	1			
LIB-NAME	c8	1, n			
DLL	c9	1			
DLL-NAME	c10	1, n			
DDE	c9	1			
WIN-APP	c11	1			
SUBJECT	c11	1, n			
ITEM	c11	1, n			

A.1.3 TDDs

A.1.3.1 General

The following tables describe the PICS proforma for the CCITT Recommendation T.611 [2] interface.

Four sets of basic requirements are considered:

- the LA generates TDD Requests;
- the CA receives TDD Requests;
- the CA generates TDD Responses;
- the LA receives TDD Responses.

According to CCITT Recommendation T.611 [2], the TDD Responses shall follow the same layout as the TDD Requests to which they answer. Only those parameters that are declared to be input/output or output only may be changed in the Response; the input parameters shall not be changed. This statement

reduces the number of sets from 4 to 2. The following details the basic requirements concerning the TDD Requests.

A.1.3.1.1 Status of parameters in the TDD Requests

The parameters that are classified as input parameters have a mandatory status (m1). Those classified as output parameters have a forbidden status (x). Those classified as input/output have a mandatory status (m2).

The status m1 means that the parameter is mandatory if the keyword is specified in the request. Its value shall be unchanged in the response. If the keyword was not specified in the request, it shall not be present in the response.

The status m2 means that the parameter is mandatory if the keyword is specified in the request. Its value may be different in the response. If the keyword was not specified in the request, it shall not be present in the response.

A.1.3.1.2 Status of parameters in the TDD Responses

Responses generated by the CAs contain all the keywords of the corresponding requests. Keywords without parameters in the requests are allowed only for output parameters. Therefore, these empty keywords are filled in the responses. Consequently, the responses shall not contain keywords without parameters. The status of response parameters is thus mandatory.

A.1.3.2 List of predicates

p1 = only one file to send.

p2 = send more than one file at the same time.

p3 = facsimile Group 3 is offered by the CA.

p4 = the keyword is declared in the ICE.

p5 = p2 AND p4.

p6 = send to a single recipient.

p7 = (send to multiple recipients) AND p4.

p8 = p1 AND p4.

p9 = selection is made by referencing a REQ-ID.

p10 = selection is made by referencing a COMID.

A.1.3.3 Send TDD Keywords support ("sendack" variation, CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
SERVICE	m			m1	
ADDRESS	m			m2	
STATUS	m			x	
ERROR	m			x	
COM-ID	m			x	
SENDTIME	m			m1	
CIL	m			m1	
G3SPEED	c	m x	p3 ^p3	m2	
GENCIL	c	m x	p4 ^p4	m1	
HIGHRES	c	m x	p4 ^p4	m1	
NOTIFY	c	m x	p4 ^p4	m1	
PROLOG	c	m x	p4 ^p4	m1	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
LASTTIME	c	m x	p4 ^p4	m1	
COMMENT	c	m x	p4 ^p4	m1	
USERINFO	c	m x	p4 ^p4	m1	
SUBADDR	c	m x	p4 ^p4	m1	
NAME	c	m x	p4 ^p4	m1	
USERKEY	c	m x	p4 ^p4	m1	
USEECM	c	m x	p4 ^p4	m2	
Keywords used for sending a single file					
FILENAME	m			m1	
TYPE	m			m1	
CONVERT	m			m1	
FROM	c	m x	p4 ^p4	m1	

(continued)

CA PICS Proforma (concluded)					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
TO	c	m x	p4 ^p4	m1	
T61OPTIONS	c	m x	p4 ^p4	m1	
Keywords used for sending multiple files					
FILELIST*	c	m x	p4 ^p4	m1	

A.1.3.4 Send TDD Keywords support (“send” variation, CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
SERVICE	m			m1	
SENDTIME	m			m1	
G3SPEED	c	m x	p3 ^p3	m1	
GENCIL	c	m x	p4 ^p4	m1	
HIGHRES	c	m x	p4 ^p4	m1	
NOTIFY	c	m x	p4 ^p4	m1	
PROLOG	c	m x	p4 ^p4	m1	
LASTTIME	c	m x	p4 ^p4	m1	
COMMENT	c	m x	p4 ^p4	m1	
USERINFO	c	m x	p4 ^p4	m1	
SUBADDR	c	m x	p4 ^p4	m1	
NAME	c	m x	p4 ^p4	m1	
USERKEY	c	m x	p4 ^p4	m1	
USEECM	c	m x	p4 ^p4	m1	
Keywords used for sending to a single recipient					
ADDRESS	m			m1	
Keywords used for sending to more than one recipient					
ADDRLIST*	c	m x	p7 ^p7	m1	
Keywords used for sending a single file					
FILENAME	m			m1	
TYPE	m			m1	
CONVERT	m			m1	
FROM	c	m x	p4 ^p4	m1	
TO	c	m x	p4 ^p4	m1	
T61OPTIONS	c	m x	p4 ^p4	m1	
Keywords used for sending multiple files					
FILELIST*	c	m x	p4 ^p4	m1	

A.1.3.5 Receive TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
SERVICE	m			m2	
TYPE	m			x	
ADDRESS	m			x	
FILENAME	m			m1	
CONVERT	m			x	
CVTLX	m			m1	
CVTX	m			m1	
CVTTX	m			m1	
CVFAX3	m			m1	
CVFAX4	m			m1	
STATUS	m			x	
ERROR	m			x	
COMID	m			m2	
CIL	m			x	
PROLOG	c	m x	p4 ^p4	m1	
DELETE	c	m x	p4 ^p4	m1	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
NAME	c	m x	p4 ^p4	x	
USERINFO	c	m x	p4 ^p4	x	
RCVTIME	c	m x	p4 ^p4	x	
FIRSTPG	c	m x	p4 ^p4	x	
SUBADDR	c	m x	p4 ^p4	m2	
G3SPEED	c	m x	p4 ^p4	x	

A.1.3.6 Trace: Delete TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 ^p10	m1	

A.1.3.7 Trace:Copy TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
STATE	m			m1	
TARGET	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 ^p10	m1	

A.1.3.8 Trace:Cancel TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 ^p10	m1	

A.1.3.9 Trace:Purge TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
STATE	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 ^p10	m1	

A.1.3.10 Trace:Reschedule TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
ADDRESS	m			m1	
SENDTIME	m			m1	
LASTTIME	c	m x	p4 ^p4	m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 ^p10	m1	

A.1.3.11 Trace:Dispatch TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
NEWLA	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 ^p10	m1	

A.1.3.12 Submit:Print TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
FILENAME	m			m1	
INFORMT	m			m1	
PRINTER	c	m x	p4 ^p4	m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	

A.1.3.13 Submit:Convert TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
FILENAME	m			m1	
TARGET	m			m1	
INFORMT	m			m1	
OUTFORMT	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	

A.1.3.14 Submit:Check TDD Keywords support (CA side)

CA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
FILENAME	m			m1	
CHECK	m			m1	
ERROR	m			x	
MINOR	c	m x	p4 ^p4	x	
WARNING	c	m x	p4 ^p4	x	

A.1.4 Exchange Method

This subclause addresses the Exchange Mechanisms described in CCITT Recommendation T.611 [2].

A.1.4.1 Primitive-based Exchange Mechanism

CA PICS Proforma				
Function	**Status**	**Status indicator**	**Predicate**	**Support**
Login	m			
Logout	m			
PutTDD	m			
PollTDD	m			
GetTDD	m			
SetAlarm	c	m x	p4 ^p4	
CallBackRoutine	o			

A.1.4.1.1 Login

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Login-name	m			
Password	m			
Connection-ID	m			
Status	m			

A.1.4.1.2 Logout

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			

A.1.4.1.3 PutTDD

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
TDD location	m			
TDD size	m			

A.1.4.1.4 PollTDD

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
TDD size	m			
TDD type	m			
TDD count	m			

A.1.4.1.5 GetTDD

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
TDD location	m			

A.1.4.1.6 SetAlarm

This function may be supported by the CA.

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
CallBackRoutine location	m			

A.1.4.1.7 CallBackRoutine

This function may be supported by the LA.

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			

A.1.5 Transfer Formats

Predicates:

p1 = if FX3 or FX4 is supported;

p2 = if a transparent transfer (TFT) is supported.

CA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
ASCII437	m			
ASCII	m			
T.50	m			
TIFF	c	m	p1	
VOID	c	m	p2	

A.2 LA PICS Proforma

A.2.1 Global requirements

A.2.1.1 Functional classes

Classes implemented				
Item #	**Functional Class**	**Reference**	**Status**	**Support**
0	A		m	
1	B		o	

A.2.1.2 TDD Types

TDD Types Implemented				
Item #	**TDD Type**	**Reference**	**Status**	**Support**
0	SEND (“send variation”)		m	
1	SEND (“sendack variation”)		m	
2	RECEIVE		m	
3	TRACE:Delete		o	
4	TRACE:Copy		o	
5	TRACE:Cancel		o	
6	TRACE:Purge		o	
7	TRACE:Reschedule		o	
8	TRACE:Dispatch		o	
9	SUBMIT:Print		o	
10	SUBMIT:Convert		o	
11	SUBMIT:Check		o	

A.2.2 ICE

When a keyword is specified as mandatory (m) or conditional and the condition applies, the parameter shall be specified.

Keys to table	Meaning
c1	At least one of these keywords shall be supported.
c2	Only if CONVERT or CHECK were specified in any SUBMIT line(s).
c3	Only if PRINT was specified in a SUBMIT line.
c4	Only if the FC line mentions the "B" parameter.
c5	Only if the EM line mentions the "file" parameter.
c6	Only if the EM line mentions the "primitive" parameter.
c7	c6 & (the ENVIRON line mentions the "MSDOS" or "WINDOWS" parameters).
c8	Only if the LIB line is specified.
c9	c7 & (the ENVIRON line mentions the "WINDOWS" parameter).
c10	Only if the DLL line is specified.
c11	Only if the DDE line is specified.
1	Indicates the keyword can appear only once in a given CA Descriptor.
0, n	Indicates the keyword can appear 0 or more times in a given CA Descriptor.
1, n	Indicates the keyword can appear 1 or more times in a given CA Descriptor.

Keyword/Parameter	Status	Indic.	Predic.	Param.	Support
APPLICOM	m	1			
DRF	o	1			
EM	m	1			
CODING	m	1,n			
COUNTRY	m	1			
FC	m	1			
TLX	c1	1			
TX	c1	1			
TTX	c1	1, n			
FX3	c1	1, n			
FX4	c1	1, n			
ADDKEYS	o	0, n			
EXTEND	o	0, n			
NATIONAL	o	0, n			
PRIVATE	o	0, n			
SUBMIT	o	0, n			
CONVCHK	c2	1, n			
PRINT	c3	1, n			
CODEPAGE	o	0, n			
RECORD	c4	0, n			
ENVIRON	m	1, n			
SYNC	c5	1			
F_JOB_Q	c5	1			
F_ACK_Q	c5	1			
ERROR_Q	c5	1			
ALARM	c6	1			
DRIVER	c7	1			
INT	c7	1			
LIB	c7	1			
LIB-NAME	c8	1, n			
DLL	c9	1			
DLL-NAME	c10	1, n			
DDE	c9	1			
WIN-APP	c11	1			
SUBJECT	c11	1, n			
ITEM	c11	1, n			

A.2.3 TDDs

A.2.3.1 General

The following tables describe the PICS proforma for the CCITT Recommendation T.611 [2].

Four sets of basic requirements are considered:

- the LA generates TDD Requests;

- the CA receives TDD Requests;

- the CA generates TDD Responses;

- the LA receives TDD Responses.

According to CCITT Recommendation T.611 [2], the TDD Responses shall follow the same layout as the TDD Requests to which they answer. Only those parameters that are declared to be input/output or output only may be changed in the Response; the input parameters shall not be changed. This statement reduces the number of sets from 4 to 2. The following details the basic requirements concerning the TDD Requests.

A.2.3.1.1 Status of parameters in the TDD Requests

The parameters that are classified as input parameters have a mandatory status (m1). Those classified as output parameters have a forbidden status (x). Those classified as input/output have a mandatory status (m2).

The status m1 means that the parameter is mandatory if the keyword is specified in the request. Its value shall be unchanged in the response. If the keyword was not specified in the request, it shall not be present in the response.

The status m2 means that the parameter is mandatory if the keyword is specified in the request. Its value may be different in the response. If the keyword was not specified in the request, it shall not be present in the response.

A.2.3.1.2 Status of parameters in the TDD Responses

Responses generated by the CAs contain all the keywords of the corresponding requests. Keywords without parameters in the requests are allowed only for output parameters: Therefore, these empty keywords are filled in the responses. Consequently, the responses shall not contain keywords without parameters. The status of response parameters is thus mandatory.

A.2.3.2 List of predicates

p1 = only one file to send.

p2 = send more than one file at the same time.

p3 = facsimile group 3 is offered by the CA.

p4 = the keyword is declared in the ICE.

p5 = p2 AND p4.

p6 = send to a single recipient.

p7 = (send to multiple recipients) AND p4.

p8 = p1 AND p4.

p9 = selection is made by referencing a REQ-ID.

p10 = selection is made by referencing a COMID.

A.2.3.3 Send TDD Keywords support ("sendack" variation, LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
SERVICE	m			m1	
ADDRESS	m			m2	
STATUS	m			x	
ERROR	m			x	
COM-ID	o			x	
SENDTIME	o			m1	
CIL	o			m1	
G3SPEED	o			m2	
GENCIL	c	o x	p4 ^p4	m1	
HIGHRES	c	o x	p4 ^p4	m1	
NOTIFY	c	o x	p4 ^p4	m1	
PROLOG	c	o x	p4 ^p4	m1	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
LASTTIME	c	o x	p4 ^p4	m1	
COMMENT	c	o x	p4 ^p4	m1	
USERINFO	c	o x	p4 ^p4	m1	
SUBADDR	c	o x	p4 ^p4	m1	
NAME	c	o x	p4 ^p4	m1	
USERKEY	c	o x	p4 ^p4	m1	
USEECM	c	o x	p4 ^p4	m2	
Keywords used for sending a single file					
FILENAME	c	m x	p1 ^p1	m1	
TYPE	c	o x	p1 ^p1	m1	
CONVERT	c	m x	p1 ^p1	m1	

(continued)

LA PICS Proforma (concluded)					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FROM	c	o x	p8 ^p8	m1	
TO	c	o x	p8 ^p8	m1	
T61OPTIONS	c	o x	p8 ^p8	m1	
Keywords used for sending multiple files					
FILELIST*	c	m x	p5 ^p5	m1	

A.2.3.4 Send TDD Keywords support (“send” variation, LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
SERVICE	m			m1	
SENDTIME	o			m1	
G3SPEED	o			m1	
GENCIL	o			m1	
HIGHRES	c	o x	p4 ^p4	m1	
NOTIFY	c	o x	p4 ^p4	m1	
PROLOG	c	o x	p4 ^p4	m1	
LASTTIME	c	o x	p4 ^p4	m1	
COMMENT	c	o x	p4 ^p4	m1	
USERINFO	c	o x	p4 ^p4	m1	
SUBADDR	c	o x	p4 ^p4	m1	
NAME	c	o x	p4 ^p4	m1	
USERKEY	c	o x	p4 ^p4	m1	
USEECM	c	o x	p4 ^p4	m1	
Keywords used for sending to a single recipient					
ADDRESS	c	m x	p6 ^p6	m1	
Keywords used for sending to more than one recipient					
ADDRLIST*	c	m x	p7 ^p7	m1	

(continued)

LA PICS Proforma (concluded)					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
Keywords used for sending a single file					
FILENAME	c	m x	p1 ^p1	m1	
TYPE	c	o x	p1 ^p1	m1	
CONVERT	c	m x	p1 ^p1	m1	
FROM	c	o x	p8 ^p8	m1	
TO	c	o x	p8 ^p8	m1	
T61OPTIONS	c	o x	p8 ^p8	m1	
Keywords used for sending multiple files					
FILELIST*	c	m x	p5 ^p5	m1	

A.2.3.5 Receive TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
SERVICE	o			m2	
TYPE	o			x	
ADDRESS	o			x	
FILENAME	m			m1	
CONVERT	m			x	
CVTLX	o			m1	
CVTX	o			m1	
CVTTX	o			m1	
CVFAX3	o			m1	
CVFAX4	o			m1	
STATUS	m			x	
ERROR	m			x	
COMID	o			m2	
CIL	o			x	
PROLOG	c	o x	p4 ^p4	m1	
DELETE	c	o x	p4 ^p4	m1	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
NAME	c	o x	p4 ^p4	x	
USERINFO	c	o x	p4 ^p4	x	
RCVTIME	c	o x	p4 ^p4	x	
FIRSTPG	c	o x	p4 ^p4	x	
SUBADDR	c	o x	p4 ^p4	m2	
G3SPEED	c	o x	p4 ^p4	x	

A.2.3.6 Trace:Delete TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 p10	m1	

A.2.3.7 Trace:Copy TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
STATE	m			m1	
TARGET	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 p10	m1	

A.2.3.8 Trace:Cancel TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 p10	m1	

A.2.3.9 Trace:Purge TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
STATE	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 p10	m1	

A.2.3.10 Trace:Reschedule TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
ADDRESS	o			m1	
SENDTIME	o			m1	
LASTTIME	c	o x	p4 ^p4	m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 p10	m1	

A.2.3.11 Trace:Dispatch TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
NEWLA	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	
Select by referencing a REQ-ID					
REQREF	c	m x	p9 ^p9	m1	
Select by referencing a COMID					
COMID	c	m x	p10 p10	m1	

A.2.3.12 Submit:Print TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
FILENAME	m			m1	
INFORMT	m			m1	
PRINTER	c	o x	p4 ^p4	m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	

A.2.3.13 Submit:Convert TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
FILENAME	m			m1	
TARGET	m			m1	
INFORMT	m			m1	
OUTFORMT	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	

A.2.3.14 Submit:Check TDD Keywords support (LA side)

LA PICS Proforma					
Keyword	**Status**	**Indic.**	**Predic.**	**Param.**	**Support**
FUNCTION	m			m1	
LA-ID	m			m1	
REQ-ID	m			m1	
FILENAME	m			m1	
CHECK	m			m1	
ERROR	m			x	
MINOR	c	o x	p4 ^p4	x	
WARNING	c	o x	p4 ^p4	x	

A.2.4 Exchange Method

This subclause addresses the Exchange Mechanisms described in CCITT Recommendation T.611 [2].

A.2.4.1 Primitive-based Exchange Mechanism

LA PICS Proforma				
Function	**Status**	**Status indicator**	**Predicate**	**Support**
Login	m			
Logout	m			
PutTDD	m			
PollTDD	m			
GetTDD	m			
SetAlarm	c	m x	p4 ^p4	
CallBackRoutine	o			

A.2.4.1.1 Login

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Login-name	m			
Password	m			
Connection-ID	m			
Status	m			

A.2.4.1.2 Logout

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			

A.2.4.1.3 PutTDD

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
TDD location	m			
TDD size	m			

A.2.4.1.4 PollTDD

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
TDD size	m			
TDD type	m			
TDD count	m			

A.2.4.1.5 GetTDD

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
TDD location	m			

A.2.4.1.6 SetAlarm

This function may be supported by the CA.

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			
Status	m			
CallBackRoutine location	m			

A.2.4.1.7 CallBackRoutine

This function may be supported by the LA.

LA PICS Proforma				
Parameter	**Status**	**Status indicator**	**Predicate**	**Support**
Connection-ID	m			

Annex B (normative): PIXIT Proforma

B.1 PIXITs concerning the CA Test Suite

B.1.1 General Information

Depending on the realisation of the test suite, the following information requested shall be delivered either by the CA provider or by the test suite/test bed provider.

PIXIT Proforma: General Information			
Entry Nr.	**Requested Information**	**Comments**	**Description** (fill in)
All Services			
1	Description of the required system environment (e.g. disk space required, minimum memory size, operating system...) necessary to perform the tests.		
2	Description of the setup or installation procedure (e.g. programs to run, actions to perform) in order to get the CA up and running.		

B.1.2 Procedural Information

The following information requested shall be delivered by the IUT provider.

PIXIT Proforma: Procedural Information			
Entry Nr.	**Requested Information**	**Type and Range**	**Value** (fill in)
3	TDD turnaround timeout value for timeout-timer T, T1, T2 in minutes. (CA Test Suite Parameter timeout_tdd).	INTEGER (1..300)	
4	Login name for performing CA login (login name).	IA5STRING SIZE (1..16)	
5	Password for performing CA login.	OCTETSTRING SIZE (1..16)	
6	Login name for performing CA login (login name) if CA supports many LAs.	IA5STRING SIZE (1..16)	
7	Password for performing CA login if CA supports many LAs.	OCTETSTRING SIZE (1..16)	
8	LA-ID for accessing the CA (used to identify all the TDD requests).	IA5STRING SIZE (1..16)	
9	LA-ID of a recipient LA (used in the DISPATCH TDD).	IA5STRING SIZE (1..16)	
10	Timeout value (in minutes) for getting the result of a SEND TDD Request to a non-existing address (send_fail).	INTEGER (1..300)	

B.2 PIXITs concerning the LA Test Suite

B.2.1 General Information

Depending on the realisation of the test suite the following information requested shall be delivered either by the LA provider or by the test suite/test bed provider.

PIXIT Proforma: General Information			
Entry Nr.	**Requested Information**	**Comments**	**Description** (fill in)
All Services			
11	Description of the required system environment (e.g. disk space required, minimum memory size, operating system...) necessary to perform the tests.		
12	Description of the setup or installation procedure (e.g. programs to run, actions to perform) in order to get the LA up and running.		
13	Description of the procedure that has to be followed in order to connect (Login) the LA to the CA Emulator.		
14	How does the LA show that it completes the connection with a CA? (E.g. Dialog boxes).		
15	How does the LA show that it fails to complete the connection with a CA? (E.g. Dialog boxes).		
16	Does the LA offer an Upper LA PCO ?	yes/no	
Only if the LA offers an Upper LA PCO [6)]			
17	Which procedure shall be used to get the LA generate a SEND TDD Request at the Lower LA PCO?		
18	Which procedure shall be used to get the LA generate a SENDACK TDD Request at the Lower LA PCO?		
19	Which procedure shall be used to get the LA generate a RECEIVE TDD Request at the Lower LA PCO ?		

(continued)

6) The fields are filled in only when they are applicable, i.e. if the LA does not support the TRACE TDDs, the corresponding fields will be filled up with the n/a value.

PIXIT Proforma: General Information (concluded)			
Entry Nr.	**Requested Information**	**Comments**	**Description** (fill in)
20	Which procedure shall be used to get the LA generate a TRACE:COPY TDD Request at the Lower LA PCO?	Only if applicable	
21	Which procedure shall be used to get the LA generate a TRACE:CANCEL TDD Request at the Lower LA PCO?	Only if applicable	
22	Which procedure shall be used to get the LA generate a TRACE:DELETE TDD Request at the Lower LA PCO?	Only if applicable	
23	Which procedure shall be used to get the LA generate a TRACE:PURGE TDD Request at the Lower LA PCO?	Only if applicable	
24	Which procedure shall be used to get the LA generate a TRACE:DISPATCH TDD Request at the Lower LA PCO?	Only if applicable	
25	Which procedure shall be used to get the LA generate a TRACE:RESCHEDULE TDD Request at the Lower LA PCO?	Only if applicable	
26	Which procedure shall be used to get the LA generate a SUBMIT:PRINT TDD Request at the Lower LA PCO?	Only if applicable	
27	Which procedure shall be used to get the LA generate a SUBMIT:CHECK TDD Request at the Lower LA PCO?	Only if applicable	
28	Which procedure shall be used to get the LA generate a SUBMIT:CONVERT TDD Request at the Lower LA PCO?	Only if applicable	

B.2.2 Procedural information

The following information requested shall be delivered by the IUT provider.

PIXIT Proforma: Procedural Information			
Entry Nr.	**Requested Information**	**Type and Range**	**Value**
29	TDD turnaround timeout value for timeout-timer T in minutes (LA Test Suite Parameter: timeout_em).	INTEGER (1..300)	
30	TDD turnaround timeout value for timeout-timer T1 in minutes (LA Test Suite Parameter: timeout_get1).	INTEGER (1..300)	
31	TDD turnaround timeout value for timeout-timer T in minutes (LA Test Suite Parameter: timeout_get2).	INTEGER (1..300)	
32	TDD turnaround timeout value for timeout-timer T in minutes (LA Test Suite Parameter: timeout_get3).	INTEGER (1..300)	
33	TDD turnaround timeout value for timeout-timer T in minutes (LA Test Suite Parameter: timeout_get4).	INTEGER (1..300)	
34	TDD turnaround timeout value for timeout-timer T in minutes (LA Test Suite Parameter: timeout_get5).	INTEGER (1..300)	

B.2.3 LA support of ICE features: Invocation of features

PIXIT Proforma: Invocation of ICE features			
Entry Nr.	**Feature**	**Parameter value(s)**	**How can the tester invoke or utilize the feature?** (Explain the steps to carry out in the LA - if the feature is not supported, fill with 'n/a')
35	DRF		
36	EM	file	
37	EM	primitive	
38	CODING	I (T.50)	
39	CODING	Other values (specify)	
40	COUNTRY	(specify which)	
41	FC	A	
42	FC	B	
43	TLX	STD	
44	TX	STD	
45	TTX	STD	
46	TTX	OPD	
47	TTX	MD	
48	TTX	CTL	
49	TTX	DTM	
50	TTX	BFT	
51	TTX	EDI	
52	FX3	STD	
53	FX3	BTM	
54	FX3	DTM	
55	FX3	BFT	
56	FX4	STD	
57	FX4	BTM	
58	FX4	DTM	
59	FX4	BFT	
60	FX4	EDI	
61	SUBMIT	PRINT	
62	SUBMIT	CONVERT	
63	SUBMIT	CHECK	
64	CONVCHK	(specify)	
65	PRINT	(specify)	
66	CODEPAGE	(specify)	
67	SYNC		
68	F_JOB_Q		
69	F_ACK_Q		
70	ERROR_Q		
71	ALARM		
72	DRIVER		
73	INT		
74	LIB		
75	LIB-NAME		
76	DLL		
77	DLL-NAME		

(continued)

PIXIT Proforma: Invocation of ICE features (concluded)			
Entry Nr.	**Feature**	**Parameter value(s)**	**How can the tester invoke or utilize the feature?** (Explain the steps to carry out in the LA - if the feature is not supported, fill with 'n/a')
78	DDE		
79	WIN-APP		
80	SUBJECT		
81	ITEM		

B.2.4 LA Support of ICE Features: Confirmation of features support

PIXIT Proforma: Confirmation of features supported			
Entry Nr.	**Feature**	**Parameter value(s)**	**How does the LA show that it supports the feature?** (Explain how the tester can get evidence that the feature is properly supported or utilized - if the feature is not supported, fill with 'n/a')
82	DRF		
83	EM	file	
84	EM	primitive	
85	CODING	I (T.50)	
86	CODING	Other values (specify)	
87	COUNTRY	(specify which)	
88	FC	A	
89	FC	B	
90	TLX	STD	
91	TX	STD	
92	TTX	STD	
93	TTX	OPD	
94	TTX	MD	
95	TTX	CTL	
96	TTX	DTM	
97	TTX	BFT	
98	TTX	EDI	
99	FX3	STD	
100	FX3	BTM	
101	FX3	DTM	
102	FX3	BFT	
103	FX4	STD	
104	FX4	BTM	
105	FX4	DTM	
106	FX4	BFT	
107	FX4	EDI	
108	SUBMIT	PRINT	
109	SUBMIT	CONVERT	
110	SUBMIT	CHECK	
111	CONVCHK	(specify)	

(continued)

PIXIT Proforma: Confirmation of features supported (concluded)			
Entry Nr.	**Feature**	**Parameter value(s)**	**How does the LA show that it supports the feature?** (Explain how the tester can get evidence that the feature is properly supported or utilized - if the feature is not supported, fill with 'n/a')
112	PRINT	(specify)	
113	CODEPAGE	(specify)	
114	SYNC		
115	F_JOB_Q		
116	F_ACK_Q		
117	ERROR_Q		
118	ALARM		
119	DRIVER		
120	INT		
121	LIB		
122	LIB-NAME		
123	DLL		
124	DLL-NAME		
125	DDE		
126	WIN-APP		
127	SUBJECT		
128	ITEM		

Annex C (normative): APPLI/COM Transfer Formats

C.1 ASCII oriented Transfer Formats

C.1.1 Control sequences

Table C.1: Control codes for ASCII oriented transfer formats

Format	Format Effector	Usage restricted by service					Control-String		Default
		FX3	FX4	TTX	TLX	TX	[HEX]	[ASCII]	
Orientation	Portrait						1B 4F 30	ESC O 0	√
	Landscape				X	X	1B 4F 31	ESC O 1	
Pitch	10 Pitch						1B 50 30	ESC P 0	√
	12 Pitch				X	X	1B 50 31	ESC P 1	
	15 Pitch				X	X	1B 50 32	ESC P 2	
Line spacing	6 Lines/inch						1B 4C 30	ESC L 0	√
	4 Lines/inch				X	X	1B 4C 31	ESC L 1	
	3 Lines/inch				X	X	1B 4C 32	ESC L 2	
	12 Lines/inch				X	X	1B 4C 33	ESC L 3	
Attributes	Underline off				X	X	1B 55 30	ESC U 0	√
	Underline on				X	X	1B 55 31	ESC U 1	
	Superscript off				X	X	1B 41 30	ESC A 0	√
	Superscript on				X	X	1B 41 31	ESC A 1	
	Subscript off				X	X	1B 56 30	ESC V 0	√
	Subscript on				X	X	1B 56 31	ESC V 1	
	Boldface off			X	X	X	1B 42 30	ESC B 0	√
	Boldface on			X	X	X	1B 42 31	ESC B 1	
	Strike-out off			X	X	X	1B 53 30	ESC S 0	√
	Strike-out on			X	X	X	1B 53 31	ESC S 1	
	Italics off			X	X	X	1B 49 30	ESC I 0	√
	Italics on			X	X	X	1B 49 31	ESC I 1	
Text makeup	Fold lines forbidden						1B 54 30	ESC T 0	
	Fold lines allowed						1B 54 31	ESC T 1	√
	Rotate page forbid.						1B 52 30	ESC R 0	
	Rotate page allowed				X	X	1B 52 31	ESC R 1	√
	New line						0D 0A	CR LF	
	New page				X		0D 0C	CR FF	

C.1.2 Character Sets

The following rules are applying to the character set tables:


: Use of character codes of such marked cells is reserved (forbidden)


: The character presentation of such marked cells is undefined, but their use is not restricted

C.1.2.1 Character Set for facsimile service

Table C.2: ASCII 437 Character Set

Hex	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
00			SP[1]	0	@	P	`	p	Ç	É	á	░	└	╨	α	≡
01			!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	β	±
02			"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
03			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
04		¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
05		§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
06			&	6	F	V	f	v	å	û	ª	╢	╞	╓	µ	÷
07			'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
08			(	8	H	X	h	x	ê	Ÿ	¿	╕	╚	╪	Φ	°
09			)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	•
0A			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
0B			+	;	K	[	k	{	ï	¢	½	╗	╦	█	δ	√
0C			,	<	L	\	l	|	î	£	¼	╝	╠	▄	∞	n
0D			-	=	M	]	m	}	ì	¥	¡	╜	═	▌	∅	²
0E			.	>	N	^	n	~	Ä	₧	«	╛	╬	▐	∈	■
0F			/	?	O	_	o		Å	ƒ	»	┐	╧	▀	∩	

[1] SP stands for 'space' (blank)

Table C.3: ASCII Character Set

Hex	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
00			SP[1]	0	@	P	`	p								
01			!	1	A	Q	a	q								
02			"	2	B	R	b	r								
03			#	3	C	S	c	s								
04		¶	$	4	D	T	d	t								
05		§	%	5	E	U	e	u								
06			&	6	F	V	f	v								
07			'	7	G	W	g	w								
08			(	8	H	X	h	x								
09			)	9	I	Y	i	y								
0A			*	:	J	Z	j	z								
0B			+	;	K	[	k	{								
0C			,	<	L	\	l	|							
0D			-	=	M	]	m	}								
0E			.	>	N	^	n	~								
0F			/	?	O	_	o									

[1] SP stands for 'space' (blank)

Table C.4: T.50 Character Set

Hex	00	10	20	30	40	50	60	70
00			SP[1]	0	@	P	`	p
01			!	1	A	Q	a	q
02			"	2	B	R	b	r
03			#	3	C	S	c	s
04			$	4	D	T	d	t
05			%	5	E	U	e	u
06			&	6	F	V	f	v
07			'	7	G	W	g	w
08			(	8	H	X	h	x
09			)	9	I	Y	i	y
0A			*	:	J	Z	j	z
0B			+	;	K	[	k	{
0C			,	<	L	\	l	|
0D			-	=	M	]	m	}
0E			.	>	N	^	n	~
0F			/	?	O	_	o	

[1] SP stands for 'space' (blank)

C.1.2.2 Character Set for Teletex Service

Table C.5: ASCII437 Character Set for the Teletex service

Hex	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
00			SP[1]	0	@	P	`	p	Ç	É	á					
01			!	1	A	Q	a	q	ü	æ	í				β	±
02			"	2	B	R	b	r	é	Æ	ó					
03			#	3	C	S	c	s	â	ô	ú					
04		¶	$	4	D	T	d	t	ä	ö	ñ					
05		§	%	5	E	U	e	u	à	ò	Ñ					
06			&	6	F	V	f	v	å	û	ª				µ	÷
07			'	7	G	W	g	w	ç	ù	º					
08			(	8	H	X	h	x	ê	Ÿ	¿					°
09			)	9	I	Y	i	y	ë	Ö						•
0A			*	:	J	Z	j	z	è	Ü					Ω	·
0B			+	;	K	[	k		ï	¢	½					
0C			,	<	L		l	|	î	£	¼					
0D			-	=	M	]	m		ì	¥	¡					²
0E			.	>	N	^	n	~	Ä		«					
0F			/	?	O	_	o		Å		»					

[1] SP stands for 'space' (blank)

Table C.6: ASCII Character Set for the Teletex service

Hex	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
00			SP[1]	0	@	P	`	p								
01			!	1	A	Q	a	q								
02			"	2	B	R	b	r								
03			#	3	C	S	c	s								
04		¶	$	4	D	T	d	t								
05		§	%	5	E	U	e	u								
06			&	6	F	V	f	v								
07			'	7	G	W	g	w								
08			(	8	H	X	h	x								
09			)	9	I	Y	i	y								
0A			*	:	J	Z	j	z								
0B			+	;	K	[	k									
0C			,	<	L		l	|								
0D			-	=	M	]	m									
0E			.	>	N	^	n	~								
0F			/	?	O	_	o									

[1] SP stands for 'space' (blank)

Table C.7: T.50 Character Set for the Teletex service

Hex	00	10	20	30	40	50	60	70
00			SP[1]	0	@	P	`	p
01			!	1	A	Q	a	q
02			"	2	B	R	b	r
03			#	3	C	S	c	s
04			$	4	D	T	d	t
05			%	5	E	U	e	u
06			&	6	F	V	f	v
07			'	7	G	W	g	w
08			(	8	H	X	h	x
09			)	9	I	Y	i	y
0A			*	:	J	Z	j	z
0B			+	;	K	[	k	
0C			,	<	L		l	|
0D			-	=	M	]	m	
0E			.	>	N	^	n	~
0F			/	?	O	_	o	

[1] SP stands for 'space' (blank)

C.1.2.3 Character Set for Telex service

Table C.8: Character Set for the Telex service

Hex	00	10	20	30	40	50	60	70
00			SP[1]	0		P		p
01				1	A	Q	a	q
02				2	B	R	b	r
03				3	C	S	c	s
04				4	D	T	d	t
05				5	E	U	e	u
06				6	F	V	f	v
07			'	7	G	W	g	w
08			(	8	H	X	h	x
09			)	9	I	Y	i	y
0A				:	J	Z	j	z
0B			+		K		k	
0C			,		L		l	
0D			-	=	M		m	
0E			.		N		n	
0F			/	?	O		o	

[1] SP stands for 'space' (blank)

C.2 TIFF Transfer Format

See CCITT Recommendation T.611 [2].

Annex D (informative): Bibliography

This annex provides detail of standards which may be of interest in relation to this ETS.

- CCITT Recommendation T.50 (1992): "International Reference Alphabet No. 5".

- CCITT Recommendation T.61 (1992): "Character repertoire and coded character sets for the international teletex service".

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