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Test procedures for Teletex**

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Foreword

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

This ETS contains the ETSI agreed and national tests. It is based on, and aligns with, the requirements for basic Teletex equipment given in the following ETS and ETR:

- ETS 300 015 (1994): "Terminal Equipment (TE); Basic and recommended additional requirements for terminal equipment supporting Teletex application" [11];
- ETR 052 (1993): "Terminal Equipment (TE); Service intercommunication requirements for Teletex terminal equipment".

This ETS does not replace CEPT Recommendation T/TE 07-02 (1988), reflecting the current situation for type approval and certification, and which co-exists with this ETS until it is adopted by ETSI as a full ETS.

Transposition dates	
Date of latest announcement of this ETS (doa):	30 November 1994
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 May 1995
Date of withdrawal of any conflicting National Standard (dow):	31 May 1995

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1 Scope

This ETS contains and refers to test procedures to facilitate member bodies verification of the protocol and service conformance of Teletex systems in order to ensure the international compatibility of Teletex. Furthermore, the specific Teletex service and protocol definitions of ETSI are considered to harmonise the test procedures for those requirements.

This ETS contains the ETSI agreed test cases which may be used by the ETSI member countries. It also contains national test requirements.

This ETS is only applicable when considered together with ITU-T Recommendation T.64 [5]. The test definitions for the related CCITT Recommendations, which define the Teletex service, are not duplicated in this ETS.

The ETSI and national test procedures contained herein are based on requirements for Teletex systems in three main areas:

- a) conformance testing procedures for Teletex defined in ITU-T Recommendation T.64 [5];
- b) characteristics of Teletex equipments, specified in ETS 300 015 [11];
- c) characteristics of Teletex equipments for Circuit Switched Public Data Networks (CSPDN) and Public Switched Data Networks (PSTN) for layers 2 and 3, specified in ITU-T Recommendation T 70 [6].

Therefore, the test procedures of this ETS cover all ETSI aspects of Teletex which have end-to-end significance. Thus, tests for the network dependent layers (layers 2 and 3) of CSPDN and PSTN are included.

These test procedures do not supersede the relevant CCITT, ITU-T and ETSI standards which continue to be the definitive specifications for all aspects of the Teletex service.

The test procedures of this ETS, together with the test procedures in ITU-T, are intended to assist verification and cannot fully guarantee the compliance of Teletex systems to the relevant Recommendations and Standards.

The whole of ITU-T Recommendation T.64 [5] together with this ETS should be applied for a comprehensive test of a Teletex system.

This ETS refers to ETS 300 015 [11] which is the basis for the European Teletex terminal equipment specification.

This ETS reflects the definitions ETS 300 015 [11] as far as those requirements are testable or considered for testing.

Since the interworking with telex service became optional in CCITT Recommendation F.200 [9] and ITU-T Recommendation T.60 [1], all the tests related to the Teletex/telex interworking are also optional. Only in the case where the terminal provider declares the terminal supports this option do the tests become mandatory.

2 Normative references

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

- [1] ITU-T Recommendation T.60 (1993): "Terminal equipment for use in the teletex service".
- [2] ITU-T Recommendation T.61 (1993): "Character repertoire and coded character sets for the international teletex service".
- [3] ITU-T Recommendation T.62 (1993): "Control procedures for teletex and Group 4 facsimile services".
- [4] CCITT Recommendation T.63 (1988): "Provisions for verification of teletex terminal compliance".
- [5] ITU-T Recommendation T.64 (1993): "Conformance testing procedures for the teletex Recommendations".
- [6] ITU-T Recommendation T.70 (1993): "Network-independent basic transport service for the telematic services".
- [7] CCITT Recommendation T.90 (1992): "Characteristics and protocols for telematic services in ISDN".
- [8] CCITT Recommendation T.390 (1988): "Teletex requirements for interworking with the telex service".
- [9] CCITT Recommendation F.200 (1992): "Teletex service".
- [10] ITU-T Recommendation F.201: "Interworking between teletex service and telex service - General principles".
- [11] ETS 300 015 (1994): "Terminal Equipment (TE); Basic and additional requirements for terminal equipment supporting teletex application".
- [12] ETS 300 081 (1993): "Integrated Services Digital Network (ISDN); Teletex end-to-end protocol over the ISDN".
- [13] ETS 300 154 (1994): "Terminal Equipment (TE); Terminal characteristics for the telematic file transfer within the teletex service [ITU-T Recommendation T.571 (modified)]".
- [14] Draft prETS 300 243-1: "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]".
- [15] ENV 41104 (1987): "Packet-switched data networks; Permanent access (FS T/31)".
- [16] ENV 41106 (1988): "Digital data circuit (circuit switched data networks); Provision of the OSI connection-mode transport service in the T.70 case for Telematic end systems (FS T/41)".

- [17] ENV 41105 (1988): "Packet-switched data networks; switched access (FS T/32)".
- [18] NET 1: "Approval requirements for data terminal equipment to connect to CSPN and leased circuits using CCITT Recommendation X.21 interface".
- [19] NET 2: "Approval requirements for data terminal equipment to connect to Packet Switched Public Data Network (PSPDN) using CCITT Recommendation X.25 (1984) interface".
- [20] ETS 300 001: "Attachments to the Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN (NET 4)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the terms given are as defined in ITU-T/CCITT Recommendations T.60 [1], T.61 [2], T.62 [3], T.64 [5], T.70 [6], F.201 [10] and CCITT Recommendations T.63 [4], T.90 [7], T.390 [8] and F.200 [9].

3.2 Abbreviations

For the purposes of this ETS, the abbreviations given are as defined in the CCITT and ITU-T Recommendations referenced in subclause 3.1.

4 Test limitations

The tests shall establish, to an acceptable degree of reliability, that a Teletex system conforms to the relevant Recommendations and Standards. It shall not be possible to test for complete conformance due to:

- a) the immense number of state event combinations and possible valid and invalid PDU types which would require an unacceptably large amount of computational resources and time;
- b) the possibility that previous actions may affect the results of a particular test;
- c) "transient" states that, although defined in the Recommendations and Standards, may not be externally accessible. Therefore, the relevant test cases defined in ITU-T Recommendation T.64 [5] and denoted by "transient state" may, or may not, be used in the ETSI member countries.

5 Structure of the recommendation

Test procedures applying to transport, session, service, terminal and CSPDN and PSTN lower layers requirements are contained in Annexes A to P.

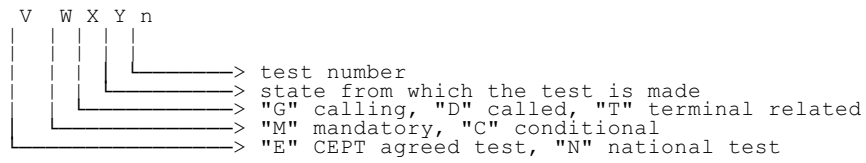
Annexes Q and R contain proforma which can be used for the test campaign. The PICS in Annex Q can be used to describe the profile of a Teletex system to be tested. The PIXIT in Annex R allows the client to define the parameters required for the test execution.

Annex S defines the relation between the documents used for testing and assists the operator to select the relevant tests.

Annex T gives a structure and contents of the Test Report, which is to be prepared by the test operator.

In general, each of Annexes A to P is sub-divided into separate parts. Each part covers the agreed tests (annexes denoted by "C") and national test (Annexes denoted by "N").

The scheme adopted for the test case numbering, in general, follows the format used in ITU-T Recommendation T.64 [5].



A full description of the test numbering scheme, test types and actions, may be found in ITU-T Recommendation T.64 [5].

All annexes form an integral part of this ETS.

Annex A (normative): Transport layer ("C")

Additional tests for T.70 ETSI requirements (see ITU-T Recommendation T.70).

Test No.	Description	
	no additional ETSI requirements	

Annex B (normative): Transport layer ("N")

Additional tests for T.70, national requirements (see ITU-T Recommendation T.70)

The test cases defined in this annex are applicable to the countries identified by "x" in the following table.

Test case	Applicable to the country															
	A	B	CH	D	DK	E	EI	F	GR	I	N	NL	P	S	SF	UK
NMG1								x								
NMD1								x								

Test No.	Reference to	Test area
NMG1	ITU-T Recommendation T.70 [6] : § 5.3.2.2	Calling side
Object	Use of M-bit at network layer level for transport data block sizes greater than 128 octets	
Tester action	Tester detects	a) state diagram route b) TPDU's sent by the tester c) comments
S-TCA		Transport data block size is 256 octets R-TCR a) 0,2 - 1,1 b) NOTE 1 a) 1,1 - 2,1
S-TDT (RSSP)		b) NOTE 2 R-TDT (CSS) a) 2,1 - 2,1 a) 2,1 - 2,1 R-TDT (CDS) a) 2,1 - 2,1 R-TDT (CDUI) a) 2,1 - 2,1 c) send document of 1k octets R-TDT (CDUI) a) 2,1 - 2,1 Release of network connection
NOTE 1:	Value of TCR 0E00130C00, 9000240018.	
NOTE 2:	Value of TCA 0DXX130C00, 90XX240018.	

Test No.	Reference to	Test area
NMD1	ITU-T Recommendation T.70 [6] : § 5.3.2.2	Called side
Object block	Use of the M-bit at network layer level for transport data sizes greater than 128 octets	
Tester action	Tester detects	a) state diagram route b) TPDU's sent by the tester c) comments
		Transport data block size is 256 octets
S-TCR	R-TCA	a) 0,2 - 1,1 b) NOTE 1
S-TDT (CSS)	R-TDT (RSSP)	a) 1,1 - 2,1 b) NOTE 2
S-TDT (CDS)		a) 2,1 - 2,1
S-TDT (CDUI)		a) 2,1 - 2,1
S-TDT (CDE)		a) 2,1 - 2,1
Release of network connection		a) 2,1 - 2,1 c) send document of 1k octets
<p>NOTE 1: Value of TCR 0E00130C00, 9000240018. NOTE 2: Value of TCA 0DXX130C00, 90XX240018.</p>		

Annex C (normative): Additional tests for T.62 ETSI requirements, see ETS 300 015 ("C")

See ITU-T Recommendations T.62 [3] and T.64 [5].

Test No.	Description	Reference to ETS 300 015 [11]
EMG1	<p>Presence of the service interworking parameter within the normal document.</p> <p>SUT submits a control document followed by a normal document suitable for forwarding to telex.</p> <p>Check:</p> <ul style="list-style-type: none">- that the service interworking parameter is present and is set to 1 within the normal document.	9.1.1
EMG2	<p>Usage of nbtc shown in CSS.</p> <p>SUT transmits a document using at least one nbtc from table 3 of ITU-T Recommendation T.62 [3].</p> <p>If the SUT is using CDCL the tester shall not repeat the already negotiated nbtc in CSS or RSSP.</p> <p>Check:</p> <ul style="list-style-type: none">- that the SUT negotiated correctly with CSS/RSSP.- that all supported nbtc parameters of table 3 of ITU-T Recommendation T.62 [3] appear at least in CSS.	9.1.2
EMG3	<p>Size of CDUI.</p> <p>SUT transmits a page of more than 5 000 octets.</p> <p>Check:</p> <ul style="list-style-type: none">- that the transmitted CDUIs contain not more than 5 000 octets.	9.1.4

Test No.	Description	Reference to ETS 300 015 [11]
ECG4	<p>Receiving of empty RSUI.</p> <p>SUT transmits a document containing at least one page.</p> <p>Tester transmits an empty RSUI instead of RSUI/RDPBP or RSUI/RDEP followed by the correct response.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the SUT completed the transmission correctly and no interruption is indicated. 	Annex B, Clause B.2
ECG5	<p>Capability to handle change control functions.</p> <p>Test CG 2 (A) in Annex D of ITU-T Recommendation T.64 [5] shall be mandatory.</p> <p>Reason: the tested function shall be mandatory.</p>	9.1.6
ECG6	<p>Repetition of pages.</p> <p>After execution of test GE9C/0 of ITU-T Recommendation T.64 [5], Annex C, and the SUT responds with CDC (R2) and repeats the not accepted page, the tester initiates a second RDPBN.</p> <p>Check:</p> <ul style="list-style-type: none"> - that this relevant page has not been transmitted again. 	Annex B

Test No.	Description	Reference to ETS 300 015 [11]
EMD1	<p>Presence of supported nbtc in RDCLP.</p> <p>Tester set up a connection and transmits a CDCL containing all nbtc of table 3 of ITU-T Recommendation T.62 [3].</p> <p>Check:</p> <ul style="list-style-type: none"><li>- that the SUT indicates all supported nbtc in RDCLP;<li>- that at least in RSSP indicated nbtc are present in RDCLP.	9.1.3

Test No.	Description	Reference to ETS 300 015 [11]
EMD2	<p>Receiving capability of CDUI with the maximum length.</p> <p>Tester establishes a connection and transmits a one page document containing one CDUI with 10 000 octets.</p> <p>Check:</p> <ul style="list-style-type: none">- that the SUT accepts and receives the complete document.	9.1.4
ECD3	<p>Receiving of empty CSUI.</p> <p>Tester establishes a connection and transmits CDS followed by an empty CSUI. Tester continues the transmission of a complete document.</p> <p>Check:</p> <ul style="list-style-type: none">- that the document is received correctly.	Annex B, Clause B.2

Test No.	Description	Reference to ETS 300 015 [11]
EMD4	<p>Reason parameter in RSSN?</p> <p>Load SUT memory such that less than 2K octets are free (if possible). Attempt to transmit a document to SUT.</p> <p>Check:</p> <ul style="list-style-type: none">- that SUT does not enter a session, e.g. responds to CSS with a RSSN with reason "receiving capabilities unable to enter a session".	9.1.5
EMD5	<p>Missing terminal capabilities in a CDC command.</p> <p>Tester starts a multi-page document to SUT. Tester interrupts the document transmission after having acknowledgement of at least one page.</p> <p>Tester continues document transmission by using CDC, containing not all of the necessary terminal capabilities for that document.</p> <p>Check:</p> <ul style="list-style-type: none">- that the document(s) are accepted and presented correctly.	9.1.12

Test No.	Description	Reference to ETS 300 015 [11]
EMD6	<p>Linking of documents by CDC Tester starts a multi-page document to SUT. Tester interrupts the document transmission after receiving acknowledgement of at least one page.</p> <p>Tester continues document transmission by using CDC with inopportune parameter values of:</p> <ul style="list-style-type: none"> - TID of the called terminal; - TID of the calling terminal; - additional session reference number; - document reference number; - checkpoint reference number. <p>Check:</p> <ul style="list-style-type: none"> - that the document(s) are accepted and presented correctly. 	9.1.10, 9.1.11
ECD7	<p>Handling of document and checkpoint reference number.</p> <p>Extension to test DN 15 of ITU-T Recommendation T.64 [5], Annex C. The tester carries out test DN15.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the corresponding CRN length in RDPBP or RDEP shall be less or equal to the CRN length in CDPB or CDE respectively. 	Annex B, Clause B.2
EMD8	<p>Handling of operator document.</p> <p>Test CD3 of ITU-T Recommendation T.64 [5] shall be carried out.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the document is received and presented immediately. 	Annex B, Clause B.2

Test No.	Description	Reference to ETS 300 015 [11]
ECT1	<p>Disconnection due to endless loops.</p> <p>The terminal shall be protected against endless loops (e.g. time-out after 5 minutes, etc...). In practice, compliance with this requirement shall be stated by the manufacturer.</p>	9.1.15

Annex D (normative): Additional tests for T.62, national requirements ("N")

See ETS 300 015 [11] and ITU-T Recommendations T.62 [3] and T.64 [5].

Annex E (normative): Additional tests for service and terminal requirements, ETSI requirement ("C")

See ETS 300 015 [11], Clause 10.

The implementation of the application/service layer shall be fully in line with the provisions laid down and described in ITU-T Recommendation T.60 [1]. Consequently, only tests regarding ITU-T Recommendation T.60 [1] shall be mandatory.

The tests listed in Annexes E and F are optional and are only to be carried out if a terminal intends to provide a more sophisticated quality of service.

Annex F deals with the Teletex/telex inter-working. Only in the case where the terminal provider declares that the terminal supports this option do the tests become mandatory.

Test No.	Description	Reference to ETS 300 015 [11]
EMG1	Automatic checking of part 4 (- mnemonic abbreviation) of the TID.	10.5
A.	SUT establishes a call specifying the correct TID, possibly replacing uppercase letters by lowercase letters in the mnemonic part. For example, doc. 2 could be used. Check: - that the document is transmitted.	
B.	SUT establishes a call specifying a wrong TID. For example, doc. 2 could be used. Check: - that the document is not transmitted.	
ECG2	Transmission periods (except PSTN half-duplex).	10
A.	SUT transmits a normal document of approximately 1 500 characters (doc. 13). Check: - that the duration of the communication does not exceed 12 s.	
B.	SUT transmits a 4-page-document with about 1 500 characters per page. (doc. 13, 4 times repeated). Check: - that the duration of the communication does not exceed 30 s.	

Test No.	Description	Reference to ETS 300 015 [11]
<p>ECG3</p> <p>A.</p> <p>B.</p>	<p>Performance test transmission periods (PSTN, half-duplex).</p> <p>The SUT establishes a call and sends a 1 500 octets document (doc. 13).</p> <p>Check:</p> <ul style="list-style-type: none"> - that the duration of the transmission does not exceed 24. <p>SUT transmits a 4-page document with about 1 500 characters per page (doc. 13, 4 times repeated).</p> <p>Check:</p> <ul style="list-style-type: none"> - that the duration of the transmission does not exceed 60. 	<p>10.1</p>
<p>ECG4</p>	<p>Contents of the Communication Log (if the Communications Log exists).</p> <p>SUT transmits a document.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the following information is present in the log: <ul style="list-style-type: none"> - called terminal's TID; - session Date & Time; - number of last acknowledged page; - document reference number; - reason for non-delivery (if any); - document type identification if; different from normal document. 	<p>10.11</p>

Test No.	Description	Reference to ETS 300 015 [11]
EMD1	<p>Correct handling of ISO A4 page format (horizontal and vertical).</p> <p>Tester transmits the ISO A4 test text (horizontal and vertical) (doc. 12) as defined in Annex G. SUT presents document.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the documents received are as sent and presented as legibly as possible. 	10.3
EMD2	<p>Minimum receive-store size (of 32K octets).</p> <p>Tester transmits a document of 32K octets.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the complete document is received. 	10.7
ECD3	<p>Receive memory back up for at least 72 hours.</p> <p>Tester transmits a document to the SUT. The main power is disconnected for 72 hours.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the document is still in the receive store. <p>NOTE: In practice compliance with this requirement shall be stated by the manufacturer.</p>	10.8
EMD4	<p>Operability after mains failure.</p> <p>Tester provokes a mains failure and sets the SUT back into the operational mode. Tester sends a document to the SUT.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the document is received and presented correctly. 	10.2

Test No.	Description	Reference to ETS 300 015 [11]
EMD5	<p>Influence of local operation.</p> <p>SUT shall be used in local mode. Tester transmits a document during this time.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the document is received and presented correctly. 	10.2
EMD6	<p>Contents of the Communication Log (if the Communications Log exists).</p> <p>Tester transmits a document.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the following information is present in the log: <ul style="list-style-type: none"> - calling terminal's TID; - session Date & Time; - number of last acknowledged page; - document reference number; - reason for non-delivery (if any); - document type identification if; different from normal document. 	10.11
EMD7	<p>Receive store nearly full (if the SUT can be set in this condition).</p> <p>Load SUT memory such that less than 4k octets is free.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the "receive store nearly full" indicator is provided to the operator of SUT. 	10.12
EMT1	<p>Robustness of TID after power down.</p> <p>Tester causes power down at SUT.</p> <p>Check:</p> <ul style="list-style-type: none"> - that after a short time power down the TID remains intact. 	10.4

Test No.	Description	Reference to ETS 300 015 [11]
ECT2	<p>Robustness of TID after power down.</p> <p>Tester causes power down at SUT.</p> <p>Check:</p> <ul style="list-style-type: none">- that after a power down of 4 weeks the TID remains intact. <p>NOTE: In practice compliance with this requirement should be stated by the manufacturer.</p>	10.4

Annex F (normative): Additional tests for service and terminal requirements, national requirements

Refer to ETS 300 015 [11], subclauses 10.13 to 10.15 and to the explanatory text in Annex E.

The test cases defined in this annex are applicable in the countries identified by "x" in the following matrix.

Test case No.	Applicable in the country															
	A	B	CH	D	DK	E	EI	F	GR	I	N	NL	P	S	SF	UK
NMG1								x								
NMG2								x								
NMG3								x								
NMG4					x											
NMG5					x						x	x				
NMG6					x						x	x				
NMG7					x						x					
NMG8					x						x					
NMG9											x					
NMD1								x								
NMD2								x								
NMD3								x								
NMD4					x						x					
NMD5					x						x	x				
NMD6					x						x	x				
NMD7					x						x					
NMD8								x								
NMT1						x										
NMT2								x								
NMT3										x						

Test No.	Description	Reference to																																																																																																				
NMG1	<p>Minimum sub-repertoire for document creation.</p> <table border="0"> <thead> <tr> <th>CODE</th> <th>CHARACTER</th> <th>CODE</th> <th>CHARACTER</th> </tr> </thead> <tbody> <tr> <td>LA01-LZ01</td> <td>a - z</td> <td>SC02</td> <td>£</td> </tr> <tr> <td>LA02-LZ02</td> <td>A - Z</td> <td>SC03</td> <td>\$</td> </tr> <tr> <td>ND01-ND10</td> <td>1 - 0</td> <td>SD27</td> <td>°</td> </tr> <tr> <td>LA13</td> <td>à</td> <td>SM01</td> <td>#</td> </tr> <tr> <td>LA15</td> <td>â</td> <td>SM02</td> <td>%</td> </tr> <tr> <td>LA17</td> <td>ä</td> <td>SM03</td> <td>&</td> </tr> <tr> <td>LC41</td> <td>ç</td> <td>SM04</td> <td>*</td> </tr> <tr> <td>LE11</td> <td>é</td> <td>SM06</td> <td>[</td> </tr> <tr> <td>LE13</td> <td>è</td> <td>SM08</td> <td>]</td> </tr> <tr> <td>LE15</td> <td>ê</td> <td>SM24</td> <td>§</td> </tr> <tr> <td>LE17</td> <td>ë</td> <td>SP01</td> <td>(space)</td> </tr> <tr> <td>LI15</td> <td>î</td> <td>SP02</td> <td>!</td> </tr> <tr> <td>LI17</td> <td>ï</td> <td>SP04</td> <td>"</td> </tr> <tr> <td>LO15</td> <td>ô</td> <td>SP05</td> <td>'</td> </tr> <tr> <td>LO17</td> <td>ö</td> <td>SP06</td> <td>(</td> </tr> <tr> <td>LU13</td> <td>ù</td> <td>SP07</td> <td>)</td> </tr> <tr> <td>LU15</td> <td>û</td> <td>SP08</td> <td>,</td> </tr> <tr> <td>LU17</td> <td>ú</td> <td>SP09</td> <td>_</td> </tr> <tr> <td></td> <td></td> <td>SP10</td> <td>-</td> </tr> <tr> <td></td> <td></td> <td>SP11</td> <td>.</td> </tr> <tr> <td></td> <td>+</td> <td>SP12</td> <td>/</td> </tr> <tr> <td>SA03</td> <td><</td> <td>SP13</td> <td>:</td> </tr> <tr> <td>SA04</td> <td>=</td> <td>SP14</td> <td>;</td> </tr> <tr> <td>SA05</td> <td>></td> <td>SP15</td> <td>?</td> </tr> </tbody> </table>	CODE	CHARACTER	CODE	CHARACTER	LA01-LZ01	a - z	SC02	£	LA02-LZ02	A - Z	SC03	\$	ND01-ND10	1 - 0	SD27	°	LA13	à	SM01	#	LA15	â	SM02	%	LA17	ä	SM03	&	LC41	ç	SM04	*	LE11	é	SM06	[LE13	è	SM08]	LE15	ê	SM24	§	LE17	ë	SP01	(space)	LI15	î	SP02	!	LI17	ï	SP04	"	LO15	ô	SP05	'	LO17	ö	SP06	(LU13	ù	SP07)	LU15	û	SP08	,	LU17	ú	SP09	_			SP10	-			SP11	.		+	SP12	/	SA03	<	SP13	:	SA04	=	SP14	;	SA05	>	SP15	?	
CODE	CHARACTER	CODE	CHARACTER																																																																																																			
LA01-LZ01	a - z	SC02	£																																																																																																			
LA02-LZ02	A - Z	SC03	\$																																																																																																			
ND01-ND10	1 - 0	SD27	°																																																																																																			
LA13	à	SM01	#																																																																																																			
LA15	â	SM02	%																																																																																																			
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LU17	ú	SP09	_																																																																																																			
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		SP11	.																																																																																																			
	+	SP12	/																																																																																																			
SA03	<	SP13	:																																																																																																			
SA04	=	SP14	;																																																																																																			
SA05	>	SP15	?																																																																																																			
NMG2	<p>Ability to specify the type of documents transmitted and their order of transmission.</p> <p>The operator selects the order of transmission of 2 documents. The first one is a control document and the second a normal document.</p> <p>Check:</p> <p>- that the control document is sent first.</p>																																																																																																					
NMG3	<p>Reception of incorrect TID in RSSP.</p> <p>ITU-T Recommendation T.64 [5] test EG1 is performed but 15 invalid TIDs are tested (see matrix to this annex).</p>																																																																																																					

Test No.	Description	Reference to
NMG4	<p>Capability to use the abbreviated address ".01+".</p> <p>SUT establishes call to the CF (tester).</p> <p>Check:</p> <ul style="list-style-type: none"> - that SUT establishes the call using the abbreviated address ".01+" (according to CCITT Recommendation X.21 § 4.6.1.2 of). 	
NMG5	<p>Capability to generate and transmit a Telex Status Enquiry control document.</p> <p>If the capability is present, SUT generates and transmits a Telex Status Enquiry control document.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the control document is sent; - that the control document identifier is present in CDS in that document. 	
NMG6	<p>Capability to generate and transmit a Telex Submission control document.</p> <p>SUT generates a Telex Submission control document matching a normal document suitable for transmission to Telex and transmits this message to tester (CF).</p> <p>Check:</p> <ul style="list-style-type: none"> - that the Telex Submission control document is submitted before the normal document within the same session; - that in the submission control document every Telex Address starts on a new line, and that the telex Address is first on the line; - that Answerback, if used, follows on the same line as the related Telex Address and is preceded by an equal sign; - that Acknowledgement Request (+ ACK), if used, is added as last element value on the same line as the related Telex Address. 	

Test No.	Description	Reference to
NMG7	<p>Capability to transmit only one message (= one Telex Submission control document) followed by one or more normal document(s) within the same session.</p> <p>SUT formats one message containing two normal documents and transmits this message two consecutive times to the CF (tester).</p> <p>Check:</p> <ul style="list-style-type: none">- that transmission takes place in two different sessions;- that the documents are completely transmitted.	
NMG8	<p>Capability to reject sending a message exceeding 12 000 octets.</p> <p>SUT generates a Telex Submission control document matching a normal document containing more than 12 000 octets. SUT is then forced to try to send this message to the CF (tester).</p> <p>Check:</p> <ul style="list-style-type: none">- that SUT rejects to send the message;- that SUT indicates the reason which caused the rejection.	
NMG9	<p>Checking of Document Reference Number.</p> <p>SUT generates and transmits a Telex Submission control document followed by one or more normal documents.</p> <p>Check:</p> <ul style="list-style-type: none">- that the document Reference Numbers consist of no more than 4 digits.	

Test No.	Description	Reference to
NMD1	<p>Correct handling of CIL.</p> <p>Test ITU-T Recommendation T.64 [5] MD2 shall be performed using the different TID and Date & Time specified in table F.2.</p>	
NMD2	<p>CEGT Address (Center for the administration of the French TELETEX service).</p> <p>Tester establishes a call and sends several monitor documents for downline loading of:</p> <ul style="list-style-type: none"> - Date & Time (with indication of transition from winter time to summer and vice versa); - TID. <p>Check:</p> <ul style="list-style-type: none"> - that the terminal handles this document correctly. 	
NMD3	<p>Receiving incorrect Date & Time or too long DRN/CRN.</p> <p>ITU-T Recommendation T.64 [5] tests ED2 and ED3, using 15 different cases (see table F.3).</p>	
NMD4	<p>Capability to receive and present a Telex Status Report operator document.</p> <p>As response to a Telex Status Enquiry control document, the tester, in a new session, transmits a Telex Status Report operator document to the SUT.</p> <p>Check:</p> <ul style="list-style-type: none"> - that the operator document is received by the SUT; - that SUT can present the text of the operator document. 	

Test No.	Description	Reference to
NMD5	<p>Capability to handle a Telex Delivery Notification control document.</p> <p>The tester transmits a Telex Delivery Notification control document to SUT.</p> <p>Check:</p> <ul style="list-style-type: none">- that the control document is received by the SUT;- that SUT can present the text of the control document.	
NMD6	<p>Capability to handle a Telex Non-Delivery Notification control document.</p> <p>The tester transmits a Telex Non-Delivery Notification control document to SUT.</p> <p>Check:</p> <ul style="list-style-type: none">- that the control document is received by SUT;- that SUT can present the text of the control document.	
NMD7	<p>Capability to receive a Telex Message Delivery control document.</p> <p>The tester transmits a Telex Message Delivery control document to SUT.</p> <p>Check:</p> <ul style="list-style-type: none">- that the control document is received by the SUT.	
NMD8	<p>Destruction conditions for the texts sent and received.</p> <p>The tester sends documents until the receive memory is full.</p> <p>Check:</p> <ul style="list-style-type: none">- that there is no automatical destruction of documents which are not printed and not stored in the bulk memory;- that the operator is only allowed to delete a document from which at least the first page has been printed or displayed.	ETS 300 015 [11], subclause 10.13

Test No.	Description	Reference to																																									
NMT1	<p>Keyboard character repertoire</p> <p>Check:</p> <ul style="list-style-type: none"> - that the keyboard layout fulfils the appropriate national requirements as laid down in ETS 300 015 [11]. <p>The minimum keyboard layout in the Spanish case shall be as follows:</p> <table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td> </tr> <tr> <td>Q</td><td>W</td><td>E</td><td>R</td><td>T</td><td>Y</td><td>U</td><td>I</td><td>O</td><td>P</td> </tr> <tr> <td>A</td><td>S</td><td>D</td><td>F</td><td>G</td><td>H</td><td>J</td><td>K</td><td>L</td><td>Ñ</td><td>Ç</td> </tr> <tr> <td>Z</td><td>X</td><td>C</td><td>V</td><td>B</td><td>N</td><td>M</td><td>;</td><td>:</td><td></td> </tr> </table> <p>The keyboard shall also contain the following characters placed in any position:</p> <ul style="list-style-type: none"> ! exclamation mark : inverted exclamation mark " quotation mark ' apostrophe (left parenthesis) right parenthesis = low line - hyphen or minus sign / solidus ? question mark ¿ inverted question mark + plus sign = equals sign % percent sign é acute accent à grave accent ä diaeresis or umlaut <p>Check:</p> <ul style="list-style-type: none"> - that the keyboard agrees the above described characteristics. 	1	2	3	4	5	6	7	8	9	0	Q	W	E	R	T	Y	U	I	O	P	A	S	D	F	G	H	J	K	L	Ñ	Ç	Z	X	C	V	B	N	M	;	:		<p>ITU-T Recommendation T.60 [1], ° 4.1.2.</p> <p>!!ignore e!! !!ignore a!! !!ignore a!!</p>
1	2	3	4	5	6	7	8	9	0																																		
Q	W	E	R	T	Y	U	I	O	P																																		
A	S	D	F	G	H	J	K	L	Ñ	Ç																																	
Z	X	C	V	B	N	M	;	:																																			
NMT2	<p>Loss of terminal identification.</p> <p>See test T2 of Annex E.</p> <p>This test also applies to the XID frame.</p>	<p>ETS 300 015 [11], subclause 10.4.</p>																																									

Table F.1: Invalid TID's (see test NMG3)

Nbr	description of TID	Encoding
		0L () 9i
1.	TID < 24 octets	01 933-99384553 = CCETT 92
2.	TID > 24 octets	02 2080-35000804 = ABCDEFGHIJKLMNOPQR 90
3.	TID empty	01 0 0 98 0 0
4.	TID without mnemonic part	01 933-99384553 = 2 ... 2 98 0 ... 0
5.	TID without part 1	01 -99384553 = CCETT 2 ... 2 98 0 ... 0
6.	TID without part 2	01 933 - = CCETT = 2 ... 2 0 ... 0
7.	TID with digits in the mnemonic part	01 933-99384553 = CCETT 10 2 2 ... 2 98 0 0 ... 0
8.	TID with letters in part 1	01 ABC-9938CCETT = ABC 2 ... 2 98 0 ... 0
9.	TID non-T.61 coded	01 5 5 6 - 7 7 7 = C D C 2 ... 2 98 C E 0 B D E 0 0 9 0 ... 0
10.	TID with command characters (OA/OC/OD)	01 933 0 99384553 0 CCETT 0 2 ... 2 98 D C A 0 ... 0
11.	TID with part 3 unknown	01 933-99384553-ABC = CCETT 2 ... 2 98 0 ... 0
12.	TID with part 1 > 4	01 20801-1234 = CCETT 2 ... 2 98 0 ... 0
13.	TID with part 2 > 12	01 933-12345678901234=CCETT 2 ... 2 98 0 ... 0
14.	TID with part 3 > 4	01 933-99384553-12345=CCETT 2 ... 2 98 0 ... 0
15.	TID not left justified	01 22 933 2 - 2 99384553 2 = 2 CCETT 98 00 0 0 0 0

Table F.2: Valid TID and D&T (see test NMDI)

Nbr	description of TID	Encoding
1.	TID part 1 minimum (1)	02 01 1-99384553 = CCETT 22 00 (D&T) 1A A8 00 BE
2.	TID part 2 minimum (1)	02 01 933-2 = CCETT 22 00 (D&T) 1A A8 00 BE
3.	TID part 4 minimum (4)	02 01 933-99384553 = ABC 22 00 (D&T) 1A A8 00 BE
4.	TID 1,2,4 maximum (4,12)	02 01 91-123456789012 = ABCDEF 00 (D&T) 1A A8 BE
5.	TID part 3 minimum (1)	02 01 2080-35000804-1=CCETT 22 00 (D&T) 1A A8 00 BE
6.	TID part 3 maximum (4)	02 01 2080-35000804-123A=CCETT 22 00 (D&T) 1A A8 00 BE
7.	TID part 4 lowercase and uppercase mixed	02 01 933-99384553 = AbCdeFgH 2 2 00 (D&T) 1A A8 0 0 BE
8.	TID: PSTN	02 01 933-16384444 = TELECOM 2 2 00 (D&T) 1A A8 0 0 BE
9.	TID: PSDN	02 01 2080-35000803 = TESTEUR 2 2 00 (D&T) 1A A8 0 0 BE
10.	TID: Telex (CF unit)	02 01 842-730089 = LABOTTX 2 2 00 (D&T) 1A A8 0 0 BE
11.	Date & Time with '-'	02 01 (TID) 00 85-01-01-00-05 1A A8 BE
12.	Date & Time with maximum value	02 01 (TID) 00 99-12-31-23 : 59 1A A8 BE
13.	TID with "space" in mnemonic part	02 01 842-666000=T 2 TTX 2 F 2 2 00 (D&T) 1A A8 0 0 0 0 BE
14.	TID with letters in part 2	02 01 8589-123ABC = TLX 2 2 00 (D&T) 1A A8 0 0 BE
15.	TID without part 2	02 01 8- = TERMTLX 2 2 00 (D&T) 1A A8 0 0 BE

Table F.3: Invalid TID and D&T in css (see test NMD3)

Nbr	description of TID	Encoding
1.	TID < 24 octets	02 01 933-99384553 = CCETT 00 (D&T) 10 A2 BE
2.	TID > 24 octets	02 02 2080-35000804=ABCDEFGHIJKLMNOPQR 00 (D&T) 1E A0 BE
3.	D&T > 14 octets	02 01 (TID) 01 85-01-01-00:00:05 13 A8 B1
4.	D&T < 14 octets	02 01 (TID) 00 85-01-01-00 13 A8 BB
5.	TID empty	02 01 00 0 00 (D&T) 1A A8 00 0 BE
6.	D&T empty	02 01 (TID) 00 000 ... 0 1A A8 BE 000 ... 0
7.	TID without mnemonic part	02 01 933-99384553 = 2 ... 2 00 (D&T) 1A A8 0 ... 0 BE
8.	TID without parts 1 and 2	02 01 - = CCETT 2 ... 2 00 (D&T) 1A A8 0 ... 0 BE
9.	TID with digits	02 01 933-99384553 = CCETT 10 2 ... 2 00 (D&T) 1A A8 0 ... 0 BE
10.	TID with letters in parts 1 and 2	02 01 ABC-9938 CCETT = ABC2 ... 2 00 (D&T) 1A A8 0 ... 0 BE
11.	TID with command characters	02 01 933 0 99384553 0 CCETT 0 2 ... 2 00 (D&T) 1A A8 C D A 0 ... 0 BE
12.	D&T without separator	02 01 (TID) 00 85 2 01 2 01 2 00 2 1A A8 BE 0 0 0 0
13.	D&T with letters	02 01 (TID) 00 AA-MM-JJ-HH:MM 1A A8 BE
14.	D&T with impossible values	02 01 (TID) 00 99-99-99-30:90 1A A8 BE
15.	D&T with command characters	02 01 (TID) 00 85 0 01 0 01 0 00:05 1A A8 BE C D A
16.	TID with part 1 > 4	02 01 20801-1234=CCETT 2 ... 2 00 (D&T) 1A A8 0 ... 0 BE
17.	TID with part 2 > 12	02 01 933-12345678901234=CCETT 2 ... 2 00 (D&T) 1A A8 0 ... 0 BE

Annex G (normative): Teletex test documents - ETSI requirements ("C")

Refer to ETS 300 015 [11], subclause 10.3.

G.1 Introduction

This annex contains all Teletex Test Documents which are required for testing of Teletex Systems.

In order to provide a complete list of test documents, the documents required for test in accordance to ITU-T Recommendation T.64 [5] and the ETSI-related test documents are included.

Subclauses G.1.1 to G.1.5 state which test document shall be used for each application service test.

Clause G.2 shows the indication for all test documents, Clause G.3 shows the presentation of all test documents and Clause G.4 defines the encoding of the test documents, on the left column in hexadecimal and on the right column in ASCII presentation.

G.1.1 General

This annex is the specification of the test texts to be used for the Teletex application service tests.

The content of this annex is divided in two parts:

- reference of the test texts to be used for the application service tests;
- specification of the content of the test texts.

G.1.2 Mandatory tests of ITU-T Recommendation T.64

G.1.2.1 SUT calling, tester called

Test MG1:	Not relevant for this test.
Test MG2:	Not relevant for this test.
Test MG3:	Any basic document.
Test MG4:	Not relevant for this test.
Test MG5:	Control document: subject to national variants. Normal document: any document created in telex mode.

NOTE: The test can only be carried out if the terminal is capable of sending a telex message according to CCITT Recommendation T.390 [8] to the test tool.

Test MG6: Document 1 (CCITT Recommendation T.63 [4]).

G.1.2.2 SUT called, tester calling

Test MD1:	Not relevant for this test.
Test MD2.A:	Doc. 2 + Doc. 6.
Test MD2.B:	Doc. 2 + Doc 6.
Test MD2.C:	Doc. 2 + Doc. 6.
Test MD3.A:	twice Doc. 2.
Test MD3.B:	1st document, one empty document. 2nd document, one page document containing only one character. 3rd document, Doc. 3.
Test MD3.C:	Doc. 4.
Test MD4.A:	Subject to National variants (e.g. doc. 5).
Test MD4.B:	Doc. 25.
Test MD5.A:	Doc. 2.

Test MD5.B:	Doc. 2.
Test MD5.C:	Doc. 2.
Test MD5.D:	Doc. 2.
Test MD5.E:	Doc. 2.
Test MD5.F:	Doc. 2 + Doc. 13.
Test MD6.A:	Doc. 2.
Test MD6.B:	Doc. 2.
Test MD6.C:	Doc. 2
Test MD7.A:	Doc. 2.
Test MD7.B:	Doc. 2.
Test MD7.C:	Doc. 2.
Test MD8.A:	Doc. 2.
Test MD8.B:	Doc. 2.
Test MD8.C:	Doc. 2.
Test MD9.A :	Doc. 3.
Test MD9.B:	Doc. 7.
Test MD10.A:	Doc. 1 + Doc. 8 + Doc. 9 + Doc. 10 + Doc. 12.
Test MD10.B:	Not relevant for this test.
Test MD11.B:	Doc. 2.

G.1.3 Conditional tests ITU-T Recommendation T.64

G.1.3.1 SUT calling, tester called

Test CG1.A:	Any multi-page document created by the operator.
Test CG1.B:	Any multi-page document created by the operator.
Test CG1.C:	Any multi-page document created by the operator.
Test CG2.A:	Any document(s) created by the operator.
Test CG2.B:	Any document(s) created by the operator.
Test CG3.A:	Any document created by the operator involving NBTC supported by the Teletex equipment e.g. Doc. 12, if the terminal is able to retransmit a received document.
Test CG3.B:	Doc. 2 + any document created by the operator involving NBTC supported by the Teletex equipment e.g. Doc. 12, if the terminal is able to retransmit a received document.
Test CG3.C:	Any document created by the operator involving NBTC supported by the Teletex equipment e.g. Doc. 12, if the terminal is able to retransmit a received document.
Test CG3.D:	Two documents created by the operator involving different NBTC's supported by the Teletex equipment.
Test CG4.A:	Any one page document having 1 600 octets and any document of pages containing 512 octets each created by the operator e.g. Doc. 14.
Test CG4.B:	Any three pages document created by the operator.

Tests A, B and C shall be repeated to cover all the nbtes supported by the SUT, if they cannot be all present at the same time in a single document.

G.1.3.2 SUT called, tester calling

Test CD1:	Doc. 13.
Test CD2:	Doc. 23.
Test CD3:	Doc. 24.
Test CD4.A:	NBTC's terminal dependent. Doc. 12, 15, 16 and 17.
Test CD4.B:	NBTC's terminal dependent. Doc. 12, 15, 16 and 17.
Test CD4.C:	NBTC's terminal dependent. Doc. 12, 15, 16 and 17.
Test CD4.D:	NBTC's terminal dependent. Doc. 12, 15, 16 and 17.
Test CD4.E:	NBTC's terminal dependent. Doc. 12, 15, 16 and 17.
Test CD5:	Doc. 13.

G.1.4 Exception conditions (ITU-T Recommendation T.64)

G.1.4.1 SUT calling, tester called

Test EG1: Not relevant for this test.
Test EG2.A: Any document(s) created by the operator, e.g. Doc. 2.
Test EG2.B: Any document(s) created by the operator, e.g. Doc. 2.

G.1.4.2 SUT called, tester calling

Test ED1: Doc. 13.
Test ED2: Doc. 13.
Test ED3: Doc. 13.
Test ED4.A: Doc. 18.
Test ED4.B: Doc. 19.
Test ED4.C: Tester architecture dependent. One possibility is to send twice the content of Doc. 3 twice (including the FF at the beginning of the page) as two CDU without CDPB in between.
Test ED4.D: Doc. 20 + Doc. 21.
Test ED4.E: Doc. 22.
Test ED5: Doc. 2.
Test ED6: Doc. 2.
Test ED7.A: NBTC's terminal dependent. Doc. 12, 15, 16 or 17, and Doc. 2.
Test ED7.B: NBTC's terminal dependent. Doc. 12, 15, 16 or 17, and Doc. 2.

G.1.5 Additional ETSI tests (Annex E of this ETS)

Test EMG1.A: Any document(s) created by the operator, e.g. Doc. 2.
Test EMG1.B: Any document(s) created by the operator, e.g. Doc. 2.
Test ECG2.A: Doc. 13.
Test ECG2.B: Doc. 13, 4 times repeated.
Test ECG3.A: Doc. 13.
Test ECG3.B: Doc. 13, 4 times repeated.
Test CG4: Any document generated, by the operator (e.g. Doc. 2).
Test EMD1: This test shall already be performed as part of test MD10.A using Doc. 12.
Test EMD2: Any document(s) created by the operator, having 32 K octets, e.g. a 20 page document with the content of each page identical to Doc. 13.
Test EMD4: Any document.
Test EMD5: Any document.
Test EMD6: Any document.
Test EMD7: Any document.

G.2 Index of documents

Doc. 1 CCITT Recommendation T.63 [4] Test pages.
Doc. 2 3 pages of 1 600 octets.
Doc. 3 4 000 octets page.
Doc. 4 200 octets page.
Doc. 5 Telex non-delivery notification.
Doc. 6 11 pages document.
Doc. 7 5 pages document.
Doc. 8 1 page document with various control characters.
Doc. 9 6 pages document with maximum page contents.
Doc. 10 6 pages document with maximum line length.
Doc. 11 Annex F of CCITT Recommendation T.61 (1988).
Doc. 12 A4 document.
Doc. 13 1 page document 1 600 octets.
Doc. 14 7 pages of 512 octets document.
Doc. 15 ISO 3535 document.
Doc. 16 12 CPI document.

Doc. 17	15 CPI document.
Doc. 18	Number of lines error.
Doc. 19	Number of characters per line error.
Doc. 20	Invalid use of PLU/PLD.
Doc. 21	Invalid use of PLU/PLD.
Doc. 22	Undefined characters.
Doc. 23	Monitor document.
Doc. 24	Operator document.
Doc. 25	Control document.

G.3 Test document presentation

Doc.1 page 1

1234567890123456789012345678901234567890123456789012345678901234567890
 2
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 22
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 31
 32
 33
 3434567890123456789012345678901234567890123456789012345678901234567890

PRESENTATION TEST TEXT

Here the line spacing is set to '1-4/2' (SVS(1)).

Here the line spacing is set to '2' (SVS(2)).

xx

JTCRB

Doc.4 page 1

0123456789 ; <=> ? @ ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789 ; <=> ? @ ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789 ; <=> ? @ ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789 ; <=> ? @ ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789 ; <=> ? @ A

1.3:TELEX NON-DELIVERY NOTIFICATION:

1:CORRELATION INFORMATION:

2080-75041294=TTXTXCF/2080-3500038704=CCETT/87-04-10-09:12/1.1

2:SUBMITTED CONTROL INFORMATION:

842-670372=CTS+ACK

3:FAILURE CAUSE: ANSWERBACK MISMATCH

Doc.6 page 1

TEST

PAGE 11

TEST

End of the document

TEST

TEST

TEST

PAGE 10

TEST

TEST

TEST

Doc.6 page 3

TEST
TEST

PAGE 9

TEST
TEST

Doc.6 page 4

TEST
TEST

PAGE 8

TEST
TEST

Doc.6 page 5

TEST
TEST

PAGE 7

TEST
TEST

TEST
TEST

PAGE 6

TEST
TEST

Doc.6 page 7

TEST
TEST

PAGE 5

TEST
TEST

TEST
TEST

PAGE 4

TEST
TEST

Doc.6 page 9

TEST
TEST

PAGE 3

TEST
TEST

TEST

PAGE 2

TEST

TEST

TEST

Doc.6 page 11

TEST
TEST

PAGE 1

TEST
TEST

Doc.1 page 1

9B 31 20 4A	PFS [1]
9B 31 32 33 34 20 4D	IGS [1234]
9B 30 20 4B	SHS [0]
0C 0D	[FF] [CR]
LINE 1	
31 32 33 34 35 36 37 38 39 30 31	12345678901
32 33 34 35 36 37 38 39 30 31 32	23456789012
33 34 35 36 37 38 39 30 31 32 33	34567890123
34 35 36 37 38 39 30 31 32 33 34	45678901234
35 36 37 38 39 30 31 32 33 34 35	56789012345
36 37 38 39 30 31 32 33 34 35 36	67890123456
37 38 39 30 31 32 33 34 35 36 37	78901234567
38 39 30 31 32 33	890 [PLU] 123
34 35 36 37 38 39 8B	456789 [PLD]
30 31 32 33 34 35 36 37 38 39 30	01234567890
0A 0D	[LF] [CR]
LINE 2	
32 20 20 20 20 20 20 20 20 20 20	2
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 50 52 45 53 45	
4E 54 41 54 49 4F 4E 20 54 45 53	PRESE
54 20 54 45 58 54 20 20 20 20 20	NTATION TES
20 20 20 20 20 20 50 61 67 65 20	T TEXT
31	Page
0D 0A	1
LINE 3	[CR] [LF]
33 20 20 20 61 20 41 20 20 C2 61	3 a A a
20 C2 41 20 20 C1 61 20 51 41 20	A a A
20 C3 61 20 C3 41 20 20 C8 61 20	a A a
C3 41 20 20 C4 61 20 54 41 20 20	A a A
20 20 20 20 20 C6 61 20 C6 41 20	a A
20 20 20 20 20 20 CA 61 20 CA 41	a A
20 20 20 20 20 20 20 CE 61 20 C5	a
41 20 20 20 20 20 20 20 CE 61 20	A a
CE 41	A
0D 0A	[CR] [LF]
LINE 4	
34 20 20 20 62 20 42	4 b 3
0D 0A	[CR] [LF]
LINE 5	
35 20 20 20 63 20 43 20 20 C2 63	5 c C c
20 C2 43 20 20 20 20 20 20 20 C3	C
63 20 C3 43 20 20 20 20 20 20 20	c C
20 20 20 20 20 CF 63 20 CF 43 20	c C
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 C7 63 20 C7 43 20	c C
20 20 20 20 20 20 CB 63 20 CB 43	c C
0D 0A	[CR] [LF]
LINE 6	
36 20 20 20 64 20 44 20 20 20 20	6 d D
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	

This horizontal page format starts with 12 lines per inch, 10 cpi, distance to CIL, is 4,23 mm.

Line 2. Distance to line 1 is 2,12 mm.

Line 3. Distance to line 2 is 2,12 mm.

This line starts with a SVS (2). Distance to line 3 is 2,12 mm.

The SVS (2) takes effect on this line. Distance to line 4 is 8,47 mm.

- - - - -

Line 8. Distance to line 7 is 8,47 mm. There is a SVS (1) at the end of this line.

Line 9. Distance to line 8 is 6,35 mm.

Line 10 starts with 5 backspaces. Distance to line 9 is 6,35.

This line starts also with 5 backspaces. Distance to line 10 is 6,35 mm.

Line 12 contains a SVS(0) in the middle of the line. Distance to line 11 is 6,35 mm.

Line 13. Distance to line 12 is 4,23 mm.

Line 14. There is a SVS(1) at the end of this line. Distance to line 13 = 4,23mm.

Line 15. There is a SVS(2) at the end of this line. Distance to line 14 = 6,35mm.

Line 16. Distance to line 15 is 8,47mm.

Line 17. Distance to line 16 is 8,47mm.

Line 18. There is a SVS(3) at the end of this line. Distance to line 17 is 8,47mm.

Line 19. Distance to line 18 is 2,12mm.

Line 20. Distance to line 19 is 2,12mm.

Doc.9 page 2

1
2
3 The second page, horizontal Teletex page format, has a vertical line spacing of 4 lines
4 per inch (i.e SVS1). It contains 25 lines plus the CIL.
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25: Last line page 2. end

1

2

3

Page 3: -horizontal TELETEX page format

-vertical line spacing: 3 lines per inch (SVS2)

-number of lines: 19 + CIL

7

8

9

10

11

12

13

14

15

16

17

18

19: Last line of page 3.

end

1
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54

Page 4: -format vertical TELETEX;
-vertical line spacing: 6 lines per inch (SVSO);
-number of lines: 55 + CIL.

55: Last line of page 4.

end

Doc.9 page 5

1
2
3

Page 5: -format vertical TELETEx;
-vertical line spacing: 4 lines per inch;
-number of line: 36 + CIL.

7
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9
10
11
12
13
14
15
16
17
18
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21
22
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24
25
26
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28
29
30
31
32
33
34
35

36: Last line of page 5.

end

1

2

3

Page 6: -format vertical TELETEX;
-vertical line spacing: 3 lines per inch (SVS");
-number of lines: 27 + CIL.

7

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21

22

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24

25

26

27: Last line of page 6.

end

12345678901234567890123456789012345678901234567890123456789012345678901234567890
1 2 3 4 5 6 7 8 9 0
1

This page has the following characteristics : PFS 1, SVS 0; SHS 0

The maximum number of characters per line is equal to 100.

End of the first page.

Doc.10 page 2

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345
1 2 3 4 5 6 7 8 9 0 1

This line above starts with 5 backspaces and contains 105 characters.

The characteristics of this page are: PFS 1, SHS 0, SVS 0.

End of page 2.

12345678901234567890123456789012345678901234567890123456789012345678901234567890
1 2 3 4 5 6 7 8 9 0
1

This page has the following characteristics : PFS 1, SVS 0; SHS 0.

The maximum number of characters per line is equal to 100.

End of page 3.

Doc.10 page 4

12345678901234567890123456789012345678901234567890123456789012
1 2 3 4 5 6 7

This page contains no parameter.

Therefore, the maximum number of characters per line is 72.

End of page 4.

Doc.10 page 5

1234567890123456789012345678901234567890123456789012345678901234567
1 2 3 4 5 6 7

This page contains no parameter and starts with 5 backspaces.

Therefore, the maximum number of characters per line is 77
in this case.

End of page 5.

Doc.10 page 6

12345678901234567890123456789012345678901234567890123456789012
1 2 3 4 5 6 7

The last page of this document contains no parameter and backspaces.

Therefore, the maximum number of characters per line is 72.

End of this document.

Doc.11 page 1

One page document with different PFS and SVS.
The result is a vertical page in the basis format with 10 cpi.
'a 'a 'a 'a 'a 'a 'a 'a 'a 'a 'a 'a 'a '
a a a a a a a a a
The line above contains a SVS(1) followed by a SVS(2).

It is the SVS(2) which is taken into account: vertical spacing = 3,47mm.

This line is ended by a SVS(0): vertical spacing = 4,23.

abcd^{ef}_{gh}ijkl

abcd^{ef}kl

abcd^{ef}kl

abcd^e_gijkl

ab_{cd}^{ef}kl

123456789012345678901234567890123456789012345678901234567890123456789012

2

3

PRESENTATION TEST TEXT

Page 2

4

5

No parameters were specific for this new page. Therefore,
by default, line spacing should be '1' [SVS(0)]. and page
format should be vertical [PPS(0)].

6

7

8

Character Set Test

9

10

11

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

12

0 @ P P ° Ω K

13

1 ! 1 A Q a q i ± ' Æ æ

14

2 " 2 B R b r c ² ' Ð ð

15

3 # 3 C S c s E ³ ^ ¢ ¢

16

4 ¤ 4 D T d t \$ x - ¢ ¢

17

5 % 5 E U e u ¥ µ ~ ¢ ¢

18

6 & 6 F V f v # ¶ ~ ¢ ¢

19

Here the line spacing is set to '1-1/2' [SVS(1)].

19

20

21

22

7 ' 7 G W g w \$. ' E l

23

8 (8 H X h x ¢ = .. E l

24

9) 9 I Y i y ¢ ¢ E l

25

10 * : J Z j z ¢ E l

26

11 + ; K [k * * . ¢ E l

27

12 , < L l | ¢ ¢ E l

28

13 - = M] m ¢ ¢ E l

29

14 . > N n ¢ ¢ E l

30

15 / ? O _ o ¢ ¢ E l

31

Here the line spacing is set to '2' [SVS (2)].

31

32

33

Format Effector Tests [SCR(4)]

34

nonspacing underline

35

36

$E_i = M_i c^2$ $E_i = M_i c^2$ $E_i = M_i c^2$

37

$E_i = M_i c^2$ $E_i = M_i c^2$ X

38

39

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123456789012345678901234567890123456789012345678901234567890123456789012

123456789012345678901234567890123456789012345678901234567890123456789012

2
3 Test text 5

4
5
6
7
8 The format of this page is the vertical ISO A4 format.

9
0
1 The line spacing is "1".

2
3 The maximum number of digits per
4 line is from HOME POSITION included 72.

5
6 The maximum number of lines per page is 59 + 1.

7
8 For this text the presentation control-functions
9 PFS(2), SVS(0) and SHS(0) are adequate.

0
1 The ability of the terminal to represent the graphic symbols
2 of the TELETEX-CODE Table shall be checked.

3
4 02/00..02/01...!.....02/02 ".....02/03..#.....02/04..°

5
6 02/05 % 02/06 & 02/07 (02/08 (02/09)

7
8 02/10 * 02/11 + 02/12 , 02/13 - 02/14 .

9
0 02/15 / 03/00 0 03/01 1 03/02 2 03/03 3

1
2 03/04 4 03/05 5 03/06 6 03/07 7 03/08 8

3
4 03/09 9 03/10 : 03/11 ; 03/12 < 03/13 =

5
6 03/14 > 03/15 ? 04/00 @ 04/01 A 04/02 B

7
8 04/03 C 04/04 D 04/05 E 04/06 F 04/07 G

9
0 04/08 H 04/09 I 04/10 J 04/11 K 04/12 L

1
2 04/13 M 04/14 N 04/15 O 05/00 P 05/01 Q

3
4 05/02 R 05/03 S 05/04 T 05/05 U 05/06 V

5
6 05/07 W 05/08 X 05/09 Y 05/10 Z 05/11 [

7
8 05/13] 05/15 _

9
0 06/01 a 06/02 b 06/03 c 06/04 d 06/05 e

1
2 06/06 f 06/07 g 06/08 h 06/09 i 06/10 j

3
4 06/11 k 06/12 l 06/13 m 06/14 n 06/15 o

5
6 07/00 p 07/01 q 07/02 r 07/03 s 07/04 t

7
8
923456789012345678901234567890123456789012345678901234567890123456789012

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64
65
66: Last line of the page

-format ISO 3535 TELETEX.
-vertical line spacing: 6 lines per inch(SVS0).
-number of lines: 66 + CIL.

end

Doc.16 page 1

1234567890123456789012345678901234567890123456789012345678901234567890
123456 1 2 3 4 5 6 7 8

This page contains the parameter SHS ' '2 cpi 1.

Therefore, the maximum number of characters per line is 80.

End of the page.

Doc.17 page 1

12345678901234567890123456789012345678901234567890123456789012345
678901234567890123456
123456

9 1 2 3 4 5 6 7 8
 0

This page contains the parameter SHS 2 ' ' 5 cpi 1.

Therefore, the maximum number of characters per line is 106.

End of page.

Doc.18 page 1

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55

-Wrong format VERTICAL TELETEx.
-vertical line spacing: 6 lines per inch (SVS0)?
-number of lines: 55-1 - CIL ?

56: Last line of the page.

end

Doc.19 page 1

123456789012345678901234567890123456789012345678901234567890123
1 2 3 4 5 6 7

This page contains too many characters in the first line.
The parameter SHS 0 (10 cpi) and therefore,
the maximum number of characters per line is 72.

End of page.

Doc.20 page 1

-----PLD-----PLU-----PLU-----

TTX test document.

The content of this document is invalid.
The number of PLD and PLU does not match.
(once PLD and twice PLU)

.....PLU.....PLU.....PLU..PLD.....PLD.....PLD.....

TTX test document

The content of this document is invalid.

Incorrect use of sequence of PLD (resp.PLU).
(3 times PLU and 3 times PLD)

Doc.22 page 1

TTX test document

The content of this document is invalid.

Undefined graphic characters from the primary character set.

1. Position (5 ,12) in the code table:
2. Position (5 ,14) in the code table:
3. Position (6 ,0) in the code table:
4. Position (7 ,11) in the code table:
5. Position (7 ,14) in the code table:

Position in the code table, not belonging to the graphic characters or control function sets.

1. Position (7 ,15) in the code table:

NOTE: The presentation of undefined graphic characters used in this document (Document 22) is up to the SUT. This NOTE does not belong to any part of Document 22.

TTX test document

The content of this document is invalid.

Undefined graphic characters from the supplementary character set.

1. Position (10,9) in the code table:
2. Position (10,12) in the code table:
3. Position (10,15) in the code table:
4. Position (12,0) in the code table:
5. Position (13,0) in the code table:
6. Position (13,1) in the code table:
7. Position (13,2) in the code table:
8. Position (13,3) in the code table:
9. Position (13,4) in the code table:
10. Position (13,5) in the code table:
11. Position (13,6) in the code table:
12. Position (13,7) in the code table:
13. Position (13,8) in the code table:
14. Position (13,9) in the code table:
15. Position (13,10) in the code table:
16. Position (13,11) in the code table:
17. Position (13,12) in the code table:
18. Position (13,13) in the code table:
19. Position (13,14) in the code table:
20. Position (13,15) in the code table:
21. Position (14,5) in the code table:

Positions in the code table, not belonging to the graphic characters or control function set

1. Position (10,0) in the code table:
2. Position (17,15) in the code table:

Doc.22 page 3

TTX test document

The content of this document is invalid.

Undefined control function from the primary control function set.1. Position
(0 ,0) in the code table:
2. Position (0 ,1) in the code table:
3. Position (0 ,2) in the code table:
4. Position (0 ,3) in the code table:
5. Position (0 ,4) in the code table:
6. Position (0 ,5) in the code table:
7. Position (0 ,6) in the code table:
8. Position (0 ,7) in the code table:
9. Position (0 ,9) in the code table:
10. Position (0 ,11) in the code table:
11. Position (1 ,0) in the code table:
12. Position (1 ,1) in the code table:
13. Position (1 ,2) in the code table:
14. Position (1 ,3) in the code table:
15. Position (1 ,4) in the code table:
16. Position (1 ,5) in the code table:
17. Position (1 ,6) in the code table:
18. Position (1 ,7) in the code table:
19. Position (1 ,8) in the code table:
20. Position (1 ,12) in the code table:
21. Position (1 ,14) in the code table:
22. Position (1 ,15) in the code table:

TTX test document

The content of this document is invalid.

Undefined control function from the
supplementary control function set.

1. Position (8 ,0) in the code table:
2. Position (8 ,1) in the code table:
3. Position (8 ,2) in the code table:
4. Position (8 ,3) in the code table:
5. Position (8 ,4) in the code table:
6. Position (8 ,5) in the code table:
7. Position (8 ,6) in the code table:
8. Position (8 ,7) in the code table:
9. Position (8 ,8) in the code table:
10. Position (8 ,9) in the code table:
11. Position (8 ,10) in the code table:
12. Position (8 ,14) in the code table:
13. Position (9 ,0) in the code table:
14. Position (9 ,1) in the code table:
15. Position (9 ,2) in the code table:
16. Position (9 ,3) in the code table:
17. Position (9 ,4) in the code table:
18. Position (9 ,5) in the code table:
19. Position (9 ,6) in the code table:
20. Position (9 ,7) in the code table:
21. Position (9 ,8) in the code table:
22. Position (9 ,9) in the code table:
23. Position (9 ,10) in the code table:
24. Position (9 ,12) in the code table:
25. Position (9 ,13) in the code table:
26. Position (9 ,14) in the code table:
27. Position (9 ,15) in the code table:

Control function not used in the basic teletex.

1. Position (8 ,13) in the code table: RLF

Doc.23 page 1

This is a monitor document

check:
that if accepted the document is not presented to the operator.

M M
O O
N N
I
T T
O O
R R

Doc.24 page 1

This document is an operator document

This document, if accepted, shall be presented correctly.

O O
P P
E E
R
A
T T
O O
R R

Doc.25 page 1

This document is a control document.

This document, if accepted, shall be presented correctly.

C C
O O
 N N
 T
 R R
O O
L L

Doc.12 page 1

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345

Test text 4
The format of this page is the horizontal ISO A4 page format.
The line spacing is "1".
The maximum number of digits per line is from HOME POSITION included 105
The maximum number of lines per page is 38 + 1.
For this text the presentation control-functions PFS(3), SVS(0) and SMS(0) are adequate.
The ability of the terminal to represent the graphic symbols of the TELETEX-CODE-Table shall be checked

07/05	u	.....07/06	v	.....07/07	w	.....07/08	x	.....07/09	y	.....07/10	z	.....07/12	|
10/01	i	10/02	¢	10/03	£	10/04	\$	10/05	¥	10/06	#	10/07	§
10/08	¶	10/11	✱	11/00	°	11/01	±	11/02	ˆ	11/03	³	11/04	×
11/05	µ	11/06	¶	11/07	·	11/08	+	11/11	»	11/12	¼	11/13	½
11/14	³ / ₄	11/15	¿	12/01	·	12/02	ˆ	12/03	·	12/04	·	12/05	·
12/06	˘	12/07	·	12/08	..	12/09	..	12/10	°	12/11	·	12/12	—
12/13	ˆ	12/14	·	12/15	˘	14/00	Ń	14/01	£	14/02	D	14/03	ē
14/04	H	14/06	IJ	14/07	L	14/08	I	14/09	Ø	14/10	Œ	14/11	ç
14/12	P	14/13	T	14/14	Œ	14/15	ñ	15/00	K	15/01	æ	15/02	đ
15/03	ð	15/04	h	15/05	l	15/06	ij	15/07	l	15/08	l	15/09	ø
15/10	e	15/11	ç	15/12	p	15/13	é	15/14	q	15/14	q	9012345678901234567890123456789012345	

G.4 Test document encoding

Doc.1 page 1

```
20 CF 64 20 CF 44
0D 0A
LINE 7
37 20 20 20 65 20 45 20 20 C2 65
20 C2 45 20 20 C1 65 20 C1 45 20
20 C3 65 20 C3 45 20 20 C8 65 20
C8 45 20 20 20 20 20 20 20 CF 65
20 CF 45 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 C7 65
20 C7 45 20 20 C5 65 20 C5 45 20
20 20 20 20 20 20 CE 65 20 CE 45
0D 0A
LINE 8
38 20 20 20 66 20 46
0D 0A
LINE 9
39 20 20 20 67 20 47 20 20 C2 67
20 20 20 20 20 20 20 20 20 C3 67
20 C3 47 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 C6 67
20 C6 47 20 20 20 20 20 20 20 20
20 20 20 20 C7 67 20 C7 47 20 20
20 20 20 20 20 20 20 CB 47
0D 0A
LINE 10
31 30 20 20 68 20 48 20 20 20 20
20 20 20 20 20 20 20 20 C3 68 20
C3 48
0D 0A
LINE 11
31 31 20 20 69 20 49 20 20 C2 69
20 C2 49 20 20 C1 69 20 C1 49 20
20 C3 69 20 C3 49 20 20 C8 69 20
C8 49 20 20 C4 69 20 C4 49 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
C7 49 20 20 C5 69 20 C5 49 20 20
20 20 20 20 20 CE 69 20 CE 49
0D 0A
LINE 12
31 32 20 20 6A 20 4A 20 20 20 20
20 20 20 20 20 20 20 20 C3 6A 20
C3 4A
0D 0A
LINE 13
31 33 20 20 6B 20 4B 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 CB 6B
20 CB 4B
0D 0A
LINE 14
31 34 20 20 6C 20 4C 20 20 C2 6C
20 C2 4C 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 CF 6C 20 CF 4C 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 CB 6C 20 CB 4C
```

```
~d ~D
[CR] [LF]
7 e E 'e
'E 'e 'E
^e ^E ~e
~E e
E
e
'E -e -E
e ,E
[CR] [LF]
8 f F
[CR] [LF]
9 g G 'g
'g
'G
g
G
.g .G
.G
[CR] [LF]
10 h H
'h
'H
[CR] [LF]
11 i I 'i
'I .i .I
'i 'I ~i
~I -i ~I
I -i -I
i ,I
[CR] [LF]
12 j J
^j
^J
[CR] [LF]
13 k K
.k
,K
[CR] [LF]
14 l L 'l
'l
~l ~L
,l ,L
```

OD 0A
LINE 15
31 35 20 20 6D 20 4D
OD 0A
LINE 16
31 36 20 20 6E 20 4E 20 20 C2 6E
20 C2 4E 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 C4 6E
20 C4 4E 20 20 CF 6E 20 CF 4E 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 CB 6E 20 CB 4E
OD 0A
LINE 17
31 37 20 20 6F 20 4F 20 20 C2 6F
20 C2 4F 20 20 C1 6F 20 C1 4F 20
20 C3 6F 20 C3 4F 20 20 CB 6F 20
C8 4F 20 20 C4 6F 20 C4 4F 20 20
20 20 20 20 20 20 20 20 20 20 CD
6F 20 CD 4F 20 20 20 20 20 20
20 20 20 20 20 C5 6F 20 C5 4F
OD 0A
LINE 18
31 38 20 20 70 20 50
OD 0A
LINE 19
31 39 20 20 71 20 51
OD 0A
LINE 20
32 30 20 20 72 20 52 20 20 C2 72
20 C2 52 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 CF 72 20 CF 52 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 CB 72 20 CB 52
OD 0A
LINE 21
32 31 20 20 73 20 53 20 20 C2 73
20 C2 53 20 20 20 20 20 20 20 C3
73 20 C3 53 20 20 20 20 20 20 20
20 20 20 20 20 CF 73 20 CF 53 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 CB 73 20 CB 53
OD 0A
LINE 22
32 32 20 20 74 20 54 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 CF 74 20 CF 54 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
CB 74 20 CB 54
OD 0A
LINE 23
32 33 20 20 75 20 55 20 20 C2 75
20 C2 55 20 20 C1 75 20 C1 55 20
20 C3 75 20 C3 55 20 20 C8 75 20
C8 55 20 20 C4 75 20 C4 55 20 20
20 20 20 20 20 C6 75 20 C6 55 20
20 CD 75 20 CD 55 20 20 CA 75 20
CA 55 20 20 20 20 20 20 20 C5 75
20 C5 55 20 20 20 20 20 20 20 CE
75 20 CE 55

{CR} [LF]
15 m M
{CR} [LF]
16 n N 'n
'N
~N ~n ~N
_n _N
{CR} [LF]
17 o O 'o
'o 'o 'O
^o ^O ..o
..O -o ~O
o "O
-o -O
{CR} [LF]
18 p P
{CR} [LF]
19 q Q
{CR} [LF]
20 r R 'r
'R
~r ~R
_r _R
{CR} [LF]
21 s S 's
'S
s ^S
~s ~S
_s _S
{CR} [LF]
22 t T
~t ~T
_t _T
{CR} [LF]
23 u U 'u
'U 'u 'U
^u ^U ..u
..U -u -U
u U
'u "U °u
°U -u
-U
u ,U

Doc.1 page 1

```
OD OA [CR] [LF]
LINE 24
32 34 20 20 76 20 56 24 v V
OD OA [CR] [LF]
LINE 25
32 35 20 20 77 20 57 20 20 20 20 25 w W ^w
20 20 20 20 20 20 20 20 C3 77 20 ^W
C3 57 [CR] [LF]
OD OA
LINE 26
32 36 20 20 78 20 58 26 x X
OD OA [CR] [LF]
LINE 27
32 37 20 20 79 20 59 20 20 C2 79 27 y Y 'Y
20 C2 59 20 20 20 20 20 20 C3 'Y
79 20 C3 59 20 20 C8 79 20 C8 59 y ^Y --y--y
OD OA [CR] [LF]
LINE 28
32 38 20 20 7A 20 5A 20 20 C2 7A 28 z Z 'z
20 C2 5A 20 20 20 20 20 20 20 20 'Z
20 20 9B 31 20 4C 20 20 20 20 20 SVS{1}
20 20 20 20 20 20 20 CF 7A 20 CF ^z
5A 20 20 20 20 20 20 20 20 20 Z
20 20 20 20 20 20 C7 7A 20 C7 z
5A [CR] [LF]
OD OA
LINE 29
32 39 20 20 20 20 48 65 72 65 29 Here
20 74 68 65 20 6C 69 6E 65 20 73 the line s
70 61 63 69 6E 67 20 69 73 20 73 pacing is s
65 74 20 74 6F 20 27 31 2D 31 2F et to '1-1/
32 27 20 5B 53 56 53 28 31 29 5D 2' SVS{1}
2E
OD OA [CR] [LF]
LINE 30
33 30 30
OD OA [cr] [LF]
Line 31
08 08 08 [BS] [BS] [BS]
08 08 58 58 [BS] [BS] XX
OD 33 31 20 20 20 20 20 20 20 20 [CR] 31
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 CC CF 54 CB
54 CC C3 43 CC CF 52 CC 42
OD OA
LINE 32
33 32 20 9B 32 20 4C 32 SVS{2}
OD OA [CR] [LF]
LINE 33
33 33 20 20 20 20 48 65 72 65 33 Here
20 74 68 65 20 6C 69 6E 65 20 73 the line s
70 61 63 69 6E 67 20 69 73 20 73 pacing is s
65 74 20 74 6F 20 27 32 27 20 5B et to '2' [
53 56 53 28 32 29 5D 2E SVS{2}],
OD OA [CR] [LF]
LINE 34
33 34 33 34 35 36 37 38 39 30 31 34345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 33 34 35 36 37 78901234567
38 39 30 8B 890 [PLD]
9B 34 6D 31 32 33 34 SGR{4} 1234
35 36 37 38 39 30 8C 567890 [PLU]
9B 30 6D 31 32 33 34 SGR{0} 1234
35 36 37 38 39 30 567890
```

0D 0C	[CR] [FF]
LINE 1	
31 32 33 34 35 36 37 38 39 30 31	12345678901
32 33 34 35 36 37 38 39 30 31 32	23456789012
33 34 35 36 37 38 39 30 31 32 33	34567890123
34 35 36 37 38 39 30 31 32 33 34	45678901234
35 36 37 38 39 30 31 32 33 34 35	56789012345
36 37 38 39 30 8C	67890 [PLU]
31 32 33 34 35 36 37 38 39 30	1234567890
8B 31 32	[PLD] 12
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33 20 20 20 20 20 20 20 20 20 20	3
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 50 52 45 53 45	PRESE
4E 54 41 54 49 4F 4E 20 54 45 53	NTATION TES
54 20 54 45 58 54 20 20 20 20 20	T TEXT
20 20 20 20 20 20 50 61 67 65 20	Page
32	2
0D 0A	[CR] [LF]
LINE 4	
34	4
0D 0A	[CR] [LF]
LINE 5	
35 20 20 20 20 20 4E 6F 20 70 61	5 No pa
72 61 6D 65 74 65 72 73 20 77 65	rameters we
72 65 20 73 70 65 63 69 66 69 65	re specifie
64 20 66 6F 72 20 74 68 69 73 20	d for this
6E 65 77 20 70 61 67 65 2E 20 54	new page.
68 65 72 65 66 6F 72 65 2C	Therefore,
0D 0A	[CR] [LF]
LINE 6	
36	6
20 20 20 20 20 62 79 20 64 65 66	by def
61 75 6C 74 2C 20 6C 69 6E 65 20	ault, line
73 70 61 63 69 6E 67 20 73 68 6F	spacing sho
75 6C 64 20 62 65 20 27 31 27 20	uld be 'l'
5B 53 56 53 28 30 29 5D 2C 20 61	[SVS(0)], a
6E 64 20 70 61 67 65	nd page
0D 0A	[CR] [LF]
LINE 7	
37 20 20 20 20 20 66 6F 72 6D 61	7 forma
74 20 73 68 6F 75 6C 64 20 62 65	t should be
20 76 65 72 74 69 63 61 6C 20 5B	vertical [
50 46 53 28 30 29 5D 2E	PFS(0)].
0D 0A	[CR] [LF]
LINE 8	
38	8

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OD OA
LINE 9
39 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 43 68 61 72 61 63 74 65
72 20 53 65 74 20 54 65 73 74
OD OA
LINE 10
31 30
OD OA
LINE 11
31 31 20 20 20 20 20 20 30 20
20 31 20 20 32 20 20 33 20 34
20 20 35 20 20 36 20 20 37 20 20
38 20 20 39 20 31 30 20 31 31 20
31 32 20 31 33 20 31 34 20 31 35
OD OA
LINE 12
31 32 20 20 20 20 20 30 20 20 20
20 20 20 20 20 20 20 30 20 20 40
20 20 50 20 20 20 20 20 70 20 20
20 20 20 20 20 20 20 20 20 80 20
20 20 20 20 20 20 20 E0 20 20 F0
OD OA
LINE 13
31 33 20 20 20 20 20 31 20 20 20
20 20 20 20 21 20 20 31 20 20 41
20 20 51 20 20 61 20 20 71 20 20
20 20 20 20 20 20 A1 20 20 B1 20
20 C1 20 20 20 20 20 20 E1 20 20
F1
OD OA
LINE 14
31 34 20 20 20 20 20 32 20 20 20
20 20 20 20 22 20 20 32 20 20 42
20 20 52 20 20 62 20 20 72 20 20
20 20 20 20 20 20 A2 20 20 B2 20
20 C2 20 20 20 20 20 20 E2 20 20
F2
OD OA
LINE 15
31 35 20 20 20 20 20 33 20 20 20
20 20 20 20 23 20 20 33 20 20 43
20 20 53 20 20 63 20 20 73 20 20
20 20 20 20 20 20 A3 20 20 B3 20
20 C3 20 20 20 20 20 20 E3 20 20
F3
OD OA
LINE 16
31 36 20 20 20 20 20 34 20 20 20
20 20 20 20 24 20 20 34 20 20 44
20 20 54 20 20 64 20 20 74 20 20
20 20 20 20 20 20 A4 20 20 B4 20
20 C4 20 20 20 20 20 20 E4 20 20
F4
OD OA
LINE 17
31 37 20 20 20 20 20 35 20 20 20
20 20 20 20 25 20 20 35 20 20 45
20 20 55 20 20 65 20 20 75 20 20
20 20 20 20 20 20 A5 20 20 B5 20
20 C5 20 20 20 20 20 20 20 20 20
F5

[CR] [LF]
9
Character Set Test
[CR] [LF]
10
[CR] [LF]
11 0
1 2 3 4
5 6 7
8 9 10 11
12 13 14 15
[CR] [LF]
12 0
0 @
P p
Q K
[CR] [LF]
13 1
! 1 A
Q a q+
i -
E
[CR] [LF]
14 2
" 2 B
R b r
c ' D
d
[CR] [LF]
15 3
3 C
S c s
f ' A
[CR] [LF]
16 4
o 4 D
T d t
\$ x
P
h
[CR] [LF]
17 5
% 5 E
U e u
Y μ
-
i

OD OA
LINE 18
31 38 20 20 20 20 20 36 20 20 20
20 20 20 20 26 20 20 36 20 20 46
20 20 56 20 20 66 20 20 76 20 20
20 20 20 20 20 20 A6 20 20 B6 20
20 C6 20 20 20 20 20 20 E6 20 20
F6

OD OA
LINE 19
31 39 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 9B 31 20 4C
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 31 39

OD OA
LINE 20
32 30 20 20 20 20 48 65 72 65 20
74 68 65 20 6C 69 6E 65 20 73 70
61 63 69 6E 67 20 69 73 20 73 65
74 20 74 6F 20 27 31 2D 31 2F 32
27 20 5B 53 56 53 28 31 29 5D 2B

OD OA
LINE 21
32 31

OD OA
LINE 22
32 32 20 20 20 20 37 20 20 20
20 20 20 20 27 20 20 37 20 20 47
20 20 57 20 20 67 20 20 77 20 20
20 20 20 20 20 20 A7 20 20 B7 20
20 C7 20 20 20 20 20 20 E7 20 20
F7

OD OA
LINE 23
32 33 20 20 20 20 38 20 20 20
20 20 20 20 28 20 20 38 20 20 48
20 20 58 20 20 68 20 20 78 20 20
20 20 20 20 20 20 A8 20 20 B8 20
20 C8 20 20 20 20 20 20 E8 20 20
F8

OD OA
LINE 24
32 34 20 20 20 20 39 20 20 20
20 20 20 20 29 20 20 39 20 20 49
20 20 59 20 20 69 20 20 79 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 E9 20 20 P9

OD OA
LINE 25
32 35 20 20 20 20 31 30 20 20 20
20 20 20 20 2A 20 20 3A 20 20 4A
20 20 5A 20 20 6A 20 20 7A 20 20
20 20 20 20 20 20 20 20 20 20
20 CA 20 20 20 20 20 20 EA 20 20
FA

OD OA
LINE 26
32 36 20 20 20 20 31 13 20 20 20
20 20 20 20 2B 20 20 3B 20 20 4B
22C 20 5B 20 20 6B 20 20 20 20 20
20 20 20 20 20 20 AB 20 20 BB 20
20 CB 20 20 20 20 20 20 EB 20 20
FB

[CR] [LF]
18 6
& 6 F
V f v
¶
[]

[CR] [LF]
19
SVS[1]

19
[CR] [LF]

20 Here
the line sp
acing is se
t to '1-1/2
' [SVS(1)].
[CR] [LF]

21
[CR] [LF]

22 7
' 7 G
W g w
\$.
L

1
[CR] [LF]

23 8
(8 H
X h x
□ +
L

1
[CR] [LF]

24 9
) 9 I
Y i y
φ φ

[CR] [LF]

25 10
* : J
Z j z
° ¶

[CR] [LF]

26 11
+ ; K
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* *
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B

Doc.1 page 2

0D 0A
LINE 27
32 37 20 20 20 20 31 32 20 20 20
20 20 20 20 2C 20 20 3C 20 20 4C
20 20 20 20 20 6C 20 20 7C 20 20
20 20 20 20 20 20 20 20 20 8C 20
20 CC 20 20 20 20 20 20 EC 20 20
FC

0D 0A
LINE 28
32 38 20 20 20 20 31 33 20 20 20
20 20 20 20 2D 20 20 3D 20 20 4D
20 20 5D 20 20 6D 20 20 20 20 20
20 20 20 20 20 20 20 20 20 BD 20
20 CD 20 20 20 20 20 20 ED 20 20
FD

0D 0A
LINE 29
32 39 20 20 20 20 31 34 20 20 20
20 20 20 20 2E 20 20 3E 20 20 4E
20 20 20 20 20 6E 20 20 20 20 20
20 20 20 20 20 20 20 20 20 BE 20
20 CE 20 20 20 20 20 20 EE 20 20
FE

0D 0A
LINE 30
33 30 20 20 20 20 31 35 20 20 20
20 20 20 20 2F 20 20 3F 20 20 4F
20 20 5F 20 20 6F 20 20 20 20 20
20 20 20 20 20 20 20 20 BF 20
20 CF 20 20 20 20 20 20 EF

[CR] [LF]
27 12
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[CR] [LF]
28 13
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 " T

[CR] [LF]
29 14
 . > N
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 N

[CR] [LF]
30 15
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 - c
 ¼
 ½

0D 0A	[CR] [LF]
Line 31	
33 31 20 20 20 20 20 20 20 20 20	31
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 9B 32 20 4C	SVS [2]
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 33 31	31
0D 0A	[CR] [LF]
LINE 32	
33 32 20 20 20 20 48 65 72 65 20	32 Here
74 68 65 20 6C 69 6E 65 20 73 70	the line sp
61 63 69 6E 67 20 69 73 20 73 65	acing is se
74 20 74 6F 20 27 32 27 20 5B 53	t to '2' [S
56 53 28 32 29 5D 2E	VS(2)].
0D 0A	[CR] [LF]
LINE 33	
33 33 20 20 20 20 20 20 20 20 20	33
20 1A	[SUB]
0D 0A	[CR] [LF]
LINE 34	
33 34 20 20 20 20 20 20 9B 34 6D	34 SGR[4]
46 6F 72 6D 61 74 20 45 66 66 65	Format Effe
63 74 6F 72 20 54 65 73 74 73	ctor Tests
9B 30 6D	SGR[0]
20 20 20 20 20 5B 53 47 52 28 34	[SGR(4
29 5D)]
0D 0A	[CR] [LF]
LINE 35	
08 08 08	[BS] [BS] [BS]
08 08	[BS] [BS]
58 58 0D 33 35	XX[CR]35
20 20 20 20 20 20 CC 6E CC 6F CC	_n_o_
6E CC 73 CC 70 CC 61 CC 63 CC 69	n_s_p_a_c_i
CC 6E CC 67 CC 20 CC 75 CC 6E CC	_n_s_ _u_n_
64 CC 65 CC 72 CC 6C CC 69 CC 6E	d_e_r_l_i_n
CC 65	_e
0D 0A	[CR] [LF]
LINE 36	
33 36 20 20 20 20 20 20 45	36 E
8B 69 8C 3D 4D	[PLD] i [PLU] =M
8B 69 8C 63 8C 32 8B 20	[PLD] i [PLU] c [PLU] 2 [PLD]
20 20 20 20 20 20 CC 45 CC 8B 69	_E_ [PLD] i
8C CC 3D CC 4D CC	[PLU] _=M_
8B 69 8C CC 63 CC	[PLD] i [PLU] _c_
8C 32 8B	[PLU] 2 [PLD]
20 20 20 20 20 20 CC 45	_E
8B CC 69 8C CC	[PLD] _i [PLU] _
3D CC 4D 8B CC	=_M [PLD] _
69 8C CC 63 8C CC 32 8B	i [PLU] _c [PLU] _2 [PLD]

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0D 0A	[CR] [LF]
LINE 37	
33 37 20 20 20 20 20	37
9B 34 6D 45 8B	[SGR(4)] E [PLD]
69 8C 3D 4D 8B 69 8C	i [PLU] =M [PLD] i [PLU]
63 8C 32 8B 9B 30 6D 20 20 20 20	c [PLU] 2 [PLD][SGR(0)]
20 20 20 9B 34 6D 45 9B 30 6D	[SGR(4)] E [SGR(0)]
8B 9B 34 6D 69 9B 30 6D	[PLD][SGR(4)] i [SGR(0)]
8C 9B 34 6D	[PLU][SGR(4)]
3D 4D 9B 30 6D 8B 9B 34 6D	=M [SGR(0)][PLD][SGR(4)]
69 8C	i [PLU]
9B 30 6D 9B 34 6D 63	[SGR(0)][SGR(4)] c
9B 30 6D 8C 9B 34 6D 32	[SGR(0)][PLU][SGR(4)] 2
8B 9B 30 6D 20 20 20	[PLD] [SGR(0)]
20 20 20 58	X
0A	[LF]
LINE 38	
33 38	38
0A	[LF]
LINE 39	
33 39	39
0D 0A	[CR] [LF]
LINE 40	
34 30 33 34 35 36 37 38 39 30 31	40345678901
32 33 34 35 36 37 38 39 30 31 32	23456789012
33 34 35 36 37 38 39 30 31 32 33	34567890123
34 35 36 37 38 39 30 31 32 33 34	45678901234
35 36 37 38 39 30 31 32 33 34 35	56789012345
36 37 38 39 30 8B	67890 [PLD]
9B 34 6D 31 32 33	[SGR(4)] 123
34 35 36 37 38 39 30 8C	4567890 [PLU]
9B 30 6D 31 32	[SGR(0)] 12

Doc.2 page 1

```
0D 0A [CR] [LF]
LINE 23
41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 AAAAA
0D 0A [CR] [LF]
LINE 23
41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
```


Doc.2 page 2

0D 0A	[CR] [LF]
LINE 23	
42 42 42 42 42 42 42 42 42 42 42	BBBBBBBBBBBB
42 42 42 42 42 42 42 42 42 42 42	BBBBBBBBBBBB
42 42 42 42 42 42 42 42 42 42 42	BBBBBBBBBBBB
42 42 42 42 42 42 42 42 42 42 42	BBBBBBBBBBBB
42 42 42 42 42	BBBBB

Doc.2 page 3

```
0D 0A [CR] [LF]
LINE 22
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
0D 0A [CR] [LF]
LINE 23
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
```

```
0D 0C [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 2
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 3
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 4
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 5
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456
33 34 35 36 37 38 39 30 31 32 33
34 35 36 37 38 39 30 31 32 33 34
35 36 37 38 39 30 31 32 33 34 35 45
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 6
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 20 20 20 54 68 69 23456 Thi
73 20 70 61 67 65 20 63 6F 6E 74 s page cont
61 69 6E 73 20 20 20 20 20 20 20 ains
20 20 20 20 20 20 20 20 20 34 35 45
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 7
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 20 20 20 20 20 20 23456
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 34 35 45
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
```


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OD 0A [CR] [LF]
LINE 8
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 20 20 20 20 20 20 23456
20 20 20 20 34 30 30 30 20 6F 63 4000 oc
74 65 74 73 20 20 20 20 20 20 20 tets
20 20 20 20 20 20 20 20 20 34 35 45
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 9
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 20 20 20 20 20 20 23456
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 34 35 45
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 10
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 11
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 12
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 13
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 14
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
```


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```
OD 0A [CR] [LF]
LINE 50
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 51
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 52
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 53
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 54
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
OD 0A [CR] [LF]
LINE 55
31 32 33 34
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0D 0C	[CR] [FF]
LINE 1	
30 31 32 33 34 35 36 37 38 39 3A	0123456789:
3B 3C 3D 3E 3F 40 41 42 43 44 45	; <=>?@ABCDE
46 47 48 49 4A 4B 4C 4D 4E 4F 50	FGHIJKLMNOP
51 52 53 54 55 56 57 58 59 5A	QRSTUVWXYZ
0D 0A	[CR] [LF]
LINE 2	
30 31 32 33 34 35 36 37 38 39 3A	0123456789:
3B 3C 3D 3E 3F 40 41 42 43 44 45	; <=>?@ABCDE
46 47 48 49 4A 4B 4C 4D 4E 4F 50	FGHIJKLMNOP
51 52 53 54 55 56 57 58 59 5A	QRSTUVWXYZ
0D 0A	[CR] [LF]
LINE 3	
30 31 32 33 34 35 36 37 38 39 3A	0123456789:
3B 3C 3D 3E 3F 40 41 42 43 44 45	; <=>?@ABCDE
46 47 48 49 4A 4B 4C 4D 4E 4F 50	FGHIJKLMNOP
51 52 53 54 55 56 57 58 59 5A	QRSTUVWXYZ
0D 0A	[CR] [LF]
LINE 4	
30 31 32 33 34 35 36 37 38 39 3A	0123456789:
3B 3C 3D 3E 3F 40 41 42 43 44 45	; <=>?@ABCDE
46 47 48 49 4A 4B 4C 4D 4E 4F 50	FGHIJKLMNOP
0D 0A	[CR] [LF]
LINE 5	
30 31 32 33 34 35 36 37 38 39 3A	0123456789:
3B 3C 3D 3E 3F 40 41	; <=>?@A

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0D 0C	[CR] [FF]
LINE 1	
31 2E 33 3A 20 54 45 4C 45 58 20	1.3: TELEX
4E 4F 4E 2D 44 45 4C 49 56 45 52	NON-DELIVER
59 20 4E 4F 54 49 46 49 43 41 54	Y NOTIFICAT
49 4F 4E 3A	ION:
0D 0A	[CR] [LF]
LINE 2	
20 20 31 3A 20 43 4F 52 52 45 4C	1: CORREL
41 54 49 4F 4E 20 49 4E 46 4F 52	ATION INFOR
4D 41 54 49 4F 4E 3A	MATION:
0D 0A	[CR] [LF]
LINE 3	
20 20 20 20 20 32 30 38 30 2D 37	2080-7
35 30 34 31 32 39 34 3D 54 54 58	5041294=TTX
54 58 43 46 2F 32 30 38 30 2D 33	TXCF/2080-3
35 30 30 30 33 38 37 30 34 3D 43	500038704=C
43 45 54 54 2F 38 37 2D 30 34 2D	CETT/87-04-
31 30 2D 30 39 3A 31 32 2F 31 2E	10-09:12/1.
31	1
0D 0A	[CR] [LF]
LINE 4	
20 20 32 3A 20 53 55 42 4D 49 54	2: SUBMIT
54 45 44 20 43 4F 4E 54 52 4F 4C	TED CONTROL
20 49 4E 46 4F 52 4D 41 54 49 4F	INFORMATIO
4E 3A	N:
0D 0A	[CR] [LF]
LINE 5	
20 20 20 20 20 38 34 32 2D 36 37	842-67
30 33 37 32 3D 43 54 53 2B 41 43	0372=CTS+AC
4B	K
0D 0A	[CR] [LF]
LINE 6	
20 20 33 3A 20 44 45 4C 49 56 45	3: DELIVE
52 59 20 49 4E 46 4F 52 4D 41 54	RY INFORMAT
49 4F 4E 3A	ION:
0D 0A	[CR] [LF]
LINE 7	
20 20 20 20 20 38 34 32 2D 36 37	842-67
30 33 37 32 3D 57 41 4E	0372=WAN
0D 0A	[CR] [LF]
LINE 8	
20 20 39 3A 20 46 41 49 4C 55 52	9: FAILUR
45 20 43 41 55 53 45 3A 20 41 4E	E CAUSE: AN
53 57 45 52 42 41 43 4B 20 4D 49	SWERBACK MI
53 4D 41 54 43 48	SMATCH
0D 0A	[CR] [LF]

0D 0C	[CR] [FF]
LINE 1	
54 68 65 20 66 6F 6C 6C 6F 77 69	The followi
6E 67 20 64 6F 63 75 6D 65 6E 74	ng document
20 69 73 20 61 20 31 31 20 70 61	is a 11 pa
67 65 73 20 64 6F 63 75 6D 65 6E	ges documen
74	t
0D 0A	[CR] [LF]
LINE 2	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 50 41 47 45 20 31	PAGE 1
0D 0A	[CR] [LF]
LINE 3	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST

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```
0D 0C [CR] [FF]
LINE 1
54 45 53 54 20 20 20 20 20 20 20 20 20 20 TEST
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53 54 TEST

0D 0A [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 50 41 47 45 20 32 PAGE 2
0D 0A [CR] [LF]
LINE 3
54 45 53 54 20 20 20 20 20 20 20 20 20 TEST
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53 54 TEST
```

0D 0C [CR] [FF]
LINE 1
54 45 53 54 20 20 20 20 20 20 20 20 20 20 20 20 20 20 TEST
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53 54 TEST

0D 0A [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 50 41 47 45 20 33 PAGE 3

0D 0A [CR] [LF]
LINE 3
54 45 53 54 20 20 20 20 20 20 20 20 20 20 20 20 20 20 TEST
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53 54 TEST

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0D 0C	[CR] [FF]
LINE 1	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST
0D 0A	[CR] [LF]
LINE 2	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 50 41 47 45 20 34	PAGE 4
0D 0A	[CR] [LF]
LINE 3	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST

0D 0C	[CR]	[FF]
LINE 1		
54 45 53 54 20 20 20 20 20 20 20	TEST	
20 20 20 20 20 20 20 20 20 20 20		
20 20 20 20 20 20 20 20 20 20 20		
20 20 20 20 20 20 20 20 54 45 53 54		TEST
0D 0A	[CR]	[LF]
LINE 2		
20 20 20 20 20 20 20 20 20 20 20		
20 20 20 20 50 41 47 45 20 35		PAGE 5
0D 0A	[CR]	[LF]
LINE 3		
54 45 53 54 20 20 20 20 20 20 20	TEST	
20 20 20 20 20 20 20 20 20 20 20		
20 20 20 20 20 20 20 20 20 20 20		
20 20 20 20 20 20 20 20 54 45 53 54		TEST

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0D 0C	[CR] [FF]
LINE 1	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST
0D 0A	[CR] [LF]
LINE 2	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 50 41 47 45 20 36	PAGE 6
0D 0A	[CR] [LF]
LINE 3	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST

0D 0C	[CR] [FF]
LINE 1	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST
0D 0A	[CR] [LF]
LINE 2	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 50 41 47 45 20 37	PAGE 7
0D 0A	[CR] [LF]
LINE 3	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST

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0D 0C	[CR] [FF]
LINE 1	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST
0D 0A	[CR] [LF]
LINE 2	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 50 41 47 45 20 38	PAGE 8
0D 0A	[CR] [LF]
LINE 3	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST

```
0D 0C                               [CR] [FF]
LINE  1
54 45 53 54 20 20 20 20 20 20 20  TEST
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53  TEST
                                          TEST

0D 0A                               [CR] [LF]
LINE  2
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 50 41 47 45 20 39
                                          PAGE 9
0D 0A                               [CR] [LF]
LINE  3
54 45 53 54 20 20 20 20 20 20 20  TEST
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53  TEST
                                          TEST
```

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```
0D 0C [CR] [FF]
LINE 1
54 45 53 54 20 20 20 20 20 20 20 20 20 20 20 20 TEST
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53 54 TEST

0D 0A [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 50 41 47 45 20 31 30 PAGE 10
0D 0A [CR] [LF]
LINE 3
54 45 53 54 20 20 20 20 20 20 20 20 20 20 20 20 TEST
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 45 53 54 TEST
```

0D 0C	[CR] [FF]
LINE 1	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST
0D 0A	[CR] [LF]
LINE 2	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 50 41 47 45 20 31 31	PAGE 11
0D 0A	[CR] [LF]
LINE 3	
0D 0A	[CR] [LF]
LINE 4	
20 20 20 20 20 20 20 20 20 45 6E	En
64 20 6F 66 20 74 68 65 20 64 6F	d of the do
63 75 6D 65 6E 74	cument
0D 0A	[CR] [LF]
LINE 5	
54 45 53 54 20 20 20 20 20 20 20	TEST
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 54 45 53 54	TEST
0D 0A	[CR] [LF]


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0D 0A [CR] [LF]
LINE 23
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAA
0D 0A [CR] [LF]
LINE 24
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAA
```


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```
0D 0C [CR] [FF]
LINE 1

0D 0A [CR] [LF]
LINE 2
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 20 20 20 CCCCCCC
20 20 20 50 41 47 45 20 33 20 20 PAGE 3
20 20 20 20 20 20 43 43 43 43 43 CCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
0D 0A [CR] [LF]
LINE 3
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
0D 0A [CR] [LF]
LINE 4
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
0D 0A [CR] [LF]
LINE 5
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
0D 0A [CR] [LF]
LINE 6
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
0D 0A [CR] [LF]
LINE 7
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 43 43 43 43 43 43 CCCCCCCCCC
43 43 43 43 43 CCCC
```


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9B 31 20 4A
9B 33 20 4C
9B 30 20 4B
9B 34 6D
0D 0C
LINE 1
23 24 54 68 69 73 20 68 6F 72 69
7A 6P 6E 74 61 6C 20 70 61 67 65
20 66 6F 72 6D 61 74 20 73 74 61
72 74 73 20 77 69 74 68 20 31 32
20 6C 69 6E 65 73 20 70 65 72 20
69 6E 63 68 2C 20 31 30 20 63 70
69 2C 20 64 69 73 74 61 6E 63 65
20 74 6F 20 43 49 4C 20 69 73 20
34 2E 32 33 20 6D 6D 2E 20
0D 0A
LINE 2
4C 69 6E 65 20 32 2E 20 44 69 73
74 61 6E 63 65 20 74 6F 20 6C 69
6E 65 20 31 20 69 73 20 32 2E 31
32 20 6D 6D
0D 0A
LINE 3
4C 69 6E 65 20 33 2E 20 44 69 73
74 61 6E 63 65 20 74 6F 20 6C 69
6E 65 20 32 20 69 73 20 32 2E 31
32 20 6D 6D 2E
0D 0A
LINE 4

9B 32 20 4C 54 68 69 73
20 6C 69 6E 65 20 73 74 61 72 74
73 20 77 69 74 68 20 61 20 53 56
53 28 32 29 2E 20 44 69 73 74 61
6E 63 65 20 74 6F 20 6C 69 6E 65
20 33 20 69 73 20 32 2E 31 32 20
6D 6D 2E
0D 0A
LINE 5
54 68 65 20 53 56 53 28 32 29 20
74 61 6E 65 73 20 65 66 66 65 63
74 20 6F 6E 20 74 68 69 73 20 6C
69 6E 65 2E 20 44 69 73 74 61 6E
63 65 20 74 6F 20 6C 69 6E 65 20
34 20 69 73 20 38 2E 34 37 20 6D
6D 2E

PFS[1]
SVS[3]
SHS[0]
SGR[4]
[CR] [FF]

This horizontal page format starts with 12 lines per inch, 10 cpi, distance to CIL is 4,23 mm.
[CR] [LF]

Line 2. Distance to line 1 is 2,12 mm
[CR] [LF]

Line 3. Distance to line 2 is 2,12 mm.
[CR] [LF]

SVS[2] This line starts with a SVS(2). Distance to line 3 is 2,12 mm.
[CR] [LF]

The SVS(2) takes effect on this line. Distance to line 4 is 8,47 mm.

Doc.9 page 1

```
0D 0A [CR] [LF]
LINE 20
32 30 20
0D 0A [CR] [LF]
LINE 21
32 31 21
0D 0A [CR] [LF]
LINE 22
32 32 22
0D 0A [CR] [LF]
LINE 23
32 33 23
0D 0A [CR] [LF]
LINE 24
32 34 24
0D 0A [CR] [LF]
LINE 25
32 35 25
0D 0A [CR] [LF]
LINE 26
32 37 27
0D 0A [CR] [LF]
LINE 27
32 38 28
0D 0A [CR] [LF]
LINE 28
32 39 29
0D 0A [CR] [LF]
LINE 29
33 30 30
0D 0A [CR] [LF]
LINE 30
33 31 31
0D 0A [CR] [LF]
LINE 31
33 32 32
0D 0A [CR] [LF]
LINE 32
33 33 33
0D 0A [CR] [LF]
LINE 33
33 34 34
0D 0A [CR] [LF]
LINE 34
33 35 35
0D 0A [CR] [LF]
LINE 35
33 36 36
0D 0A [CR] [LF]
LINE 36
33 37 37
0D 0A [CR] [LF]
LINE 37
33 38 3A 20 54 68 69 73 20 69 73 38: This is
20 74 68 65 20 6C 61 73 74 20 6C the last l
69 6E 65 20 6F 66 20 74 68 65 20 ine of the
66 69 72 73 74 20 70 61 67 65 20 first page
65 6E 64 69 6E 67 20 62 79 20 74 ending by t
68 65 20 63 68 61 72 61 63 74 68 he characte
72 20 22 64 22 20 6F 66 20 74 68 r "d" of th
65 20 77 6F 72 64 20 22 65 6E 64 e word "end
22 20 20 20 20 65 6E 64 " end
```

9B 31 20 4A	PFS[1]
9B 31 20 4C	SVS[1]
0D 0C	[CR] [FF]
LINE 1	
31	1
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33 20 20 20 20 20 20 20 20 54	3 T
68 65 20 73 65 63 6F 6E 64 20 70	he second p
61 67 65 2C 20 68 6F 72 69 7A 6F	age, horizo
6E 74 61 6C 20 74 65 6C 65 74 65	ntal telete
78 20 70 61 67 65 20 66 6F 72 6D	x page from
61 74 2C 20 68 61 73 20 61 20 76	at, has a v
65 72 74 69 63 61 6C 20 6C 69 6E	ertical lin
65 20 73 70 61 63 69 6E 67 20 6F	e spacing o
66 20 34 20 6C 69 6E 65 73 20 34	f 4 lines 4
0D 0A	[CR] [LF]
LINE 4	
34 20 20 20 20 20 20 20 70 65	4 pe
72 20 69 6E 63 68 28 20 69 2E 65	r inch(i.e
20 53 56 53 31 20 29 2E 20 49 74	SVS1). It
20 63 6F 6E 74 61 69 6E 73 20 32	contains 2
35 20 6C 69 6E 65 73 20 70 6C 75	5 lines plu
73 20 74 68 65 20 43 49 4C 2E	s the CIL.
0D 0A	[CR] [LF]
LINE 5	
35	5
0D 0A	[CR] [LF]
LINE 6	
36	6
0D 0A	[CR] [LF]
LINE 7	
37	7
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
31 30	10
0D 0A	[CR] [LF]
LINE 11	
31 31	11
0D 0A	[CR] [LF]
LINE 12	
31 32	12
0D 0A	[CR] [LF]
LINE 13	
31 33	13
0D 0A	[CR] [LF]
LINE 14	
31 34	14
0D 0A	[CR] [LF]
LINE 15	
31 35	15
0D 0A	[CR] [LF]
LINE 16	
31 36	16
0D 0A	[CR] [LF]
LINE 17	
31 37	17

Doc.9 page 2

```
0D 0A [CR] [LF]
LINE 18
31 38 18
0D 0A [CR] [LF]
LINE 19
31 39 19
0D 0A [CR] [LF]
LINE 20
32 30 20
0D 0A [CR] [LF]
LINE 21
32 31 21
0D 0A [CR] [LF]
LINE 22
32 32 22
0D 0A [CR] [LF]
LINE 23
32 33 20 20 23
0D 0A [CR] [LF]
LINE 24
32 34 24
0D 0A [CR] [LF]
LINE 25
32 35 3A 20 4C 61 73 74 20 6C 69 25: Last li
6E 65 20 6F 66 20 70 61 67 65 20 ne of page
32 2E 20 20 20 20 20 20 20 20 20 2.
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 65 6E 64 end
```

9B 31 20 4A	PFS[1]
9B 32 20 4C	SVS[2]
0D 0C	[CR] [FF]
LINE 1	
31	1
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33	3
0D 0A	[CR] [LF]
LINE 4	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 50 61 67 65	Page
20 33 3A 20 2D 68 6F 72 69 7A 6F	3: -horizo
6E 74 61 6C 20 54 45 4C 45 54 45	ntal TELETE
58 20 70 61 67 65 20 66 6F 72 6D	X page form
61 74	at
0D 0A	[CR] [LF]
LINE 5	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 2D 76 65 72 74 69 63	-vertic
61 6C 20 6C 69 6E 65 20 73 70 61	al line spa
63 69 6E 67 3A 20 33 20 6C 69 6E	es per inch
20 28 53 56 53 32 29	(SVS2)
0D 0A	[CR] [LF]
LINE 6	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 2D 6E 75 6D 62 65 72	-number
20 6F 66 20 6C 69 6E 65 73 3A 20	of lines:
31 39 20 2B 20 43 49 4C	19 + CIL
0D 0A	[CR] [LF]
LINE 7	
37	7
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
31 30	10
0D 0A	[CR] [LF]
LINE 11	
31 31	11
0D 0A	[CR] [LF]
LINE 12	
31 32	12
0D 0A	[CR] [LF]
LINE 13	
31 33	13
0D 0A	[CR] [LF]
LINE 14	
31 34	14
0D 0A	[CR] [LF]
LINE 15	
31 35	15
0D 0A	[CR] [LF]
LINE 16	
31 36	16

Doc.9 page 3

```
0D 0A [CR] [LF]
LINE 17
31 37 17
0D 0A [CR] [LF]
LINE 18
31 38 18
LINE 19
31 39 3A 20 4C 61 73 74 20 6C 69 19: Last li
6E 65 20 6F 66 20 70 61 67 65 20 ne of page
33 2E 20 20 20 20 20 20 20 20 20 3.
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 65 6E 64 end
```

0D 0C	[CR] [FF]
LINE 1	
31	1
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33	3
0D 0A	[CR] [LF]
LINE 4	
34 20 20 20 20 20 20 20 20 20	4
20 20 50 61 67 65 20 34 3A 20 2D	Page 4: -
66 6F 72 6D 61 74 20 76 65 72 74	format vert
69 63 61 6C 20 54 45 4C 45 54 45	ical TELETE
58	X
0D 0A	[CR] [LF]
LINE 5	
35 20 20 20 20 20 20 20 20 20	5
20 20 20 20 20 20 20 20 20 2D	-
76 65 72 74 69 63 61 6C 20 6C 69	vertical li
6E 65 20 73 70 61 63 69 6E 67 3A	ne spacing:
20 36 20 6C 69 6E 65 73 20 70 65	6 lines pe
72 20 69 6E 63 68 20 28 53 56 53	r inch (SVS
30 29	0)
0D 0A	[CR] [LF]
LINE 6	
36 20 20 20 20 20 20 20 20 20	6
20 20 20 20 20 20 20 20 20 2D	-
6E 75 6D 62 65 72 20 6F 66 20 6C	number of l
69 6E 65 73 3A 20 35 35 20 2B 20	ines: 55 +
43 49 4C	CIL
0D 0A	[CR] [LF]
LINE 7	
37	7
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
31 30	10
0D 0A	[CR] [LF]
LINE 11	
31 31	11
0D 0A	[CR] [LF]
LINE 12	
31 32	12
0D 0A	[CR] [LF]
LINE 13	
31 33	13
0D 0A	[CR] [LF]
LINE 14	
31 34	14
0D 0A	[CR] [LF]
LINE 15	
31 35	15
0D 0A	[CR] [LF]
LINE 16	
31 36	16
0D 0A	[CR] [LF]
LINE 17	
31 37	17

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0D 0A	[CR] [LF]
LINE 18	
31 38	18
0D 0A	[CR] [LF]
LINE 19	
31 39	19
0D 0A	[CR] [LF]
LINE 20	
32 30	20
0D 0A	[CR] [LF]
LINE 21	
32 31	21
0D 0A	[CR] [LF]
LINE 22	
32 32	22
0D 0A	[CR] [LF]
LINE 23	
32 33	23
0D 0A	[CR] [LF]
LINE 24	
32 34	24
0D 0A	[CR] [LF]
LINE 25	
32 35	25
0D 0A	[CR] [LF]
LINE 26	
32 36	26
0D 0A	[CR] [LF]
LINE 27	
32 37	27
0D 0A	[CR] [LF]
LINE 28	
32 38	28
0D 0A	[CR] [LF]
LINE 29	
32 39	29
0D 0A	[CR] [LF]
LINE 30	
33 30	30
0D 0A	[CR] [LF]
LINE 31	
33 31	31
0D 0A	[CR] [LF]
LINE 32	
33 32	32
0D 0A	[CR] [LF]
LINE 33	
33 33	33
0D 0A	[CR] [LF]
LINE 34	
33 34	34
0D 0A	[CR] [LF]
LINE 35	
33 35	35
0D 0A	[CR] [LF]
LINE 36	
33 36	36
0D 0A	[CR] [LF]
LINE 37	
33 37	37
0D 0A	[CR] [LF]
LINE 38	
33 38	38
0D 0A	[CR] [LF]
LINE 39	
33 39	39

```
0D 0A [CR] [LF]
LINE 40
34 30 40
0D 0A [CR] [LF]
LINE 41
34 31 41
0D 0A [CR] [LF]
LINE 42
34 32 42
0D 0A [CR] [LF]
LINE 43
34 33 43
0D 0A [CR] [LF]
LINE 44
34 34 44
0D 0A [CR] [LF]
LINE 45
34 35 45
0D 0A [CR] [LF]
LINE 46
34 36 46
0D 0A [CR] [LF]
LINE 47
34 37 47
0D 0A [CR] [LF]
LINE 48
34 38 48
0D 0A [CR] [LF]
LINE 49
34 39 49
0D 0A [CR] [LF]
LINE 50
35 30 50
0D 0A [CR] [LF]
LINE 51
35 31 51
0D 0A [CR] [LF]
LINE 52
35 32 52
0D 0A [CR] [LF]
LINE 53
35 33 53
0D 0A [CR] [LF]
LINE 54
35 34 54
0D 0A [CR] [LF]
LINE 55
35 35 3A 20 4C 61 73 74 20 6C 69 55: Last li
6E 65 20 6F 66 20 70 61 67 65 20 ne of page
34 2E 20 20 20 20 20 20 20 20 20 4.
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 65 6E 64 end
```

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9B 31 20 4C	SVS[1]
0D 0C	[CR] [FF]
LINE 1	
31	1
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33	3
0D 0A	[CR] [LF]
LINE 4	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 50 61 67 65	Page
20 35 3A 20 2D 66 6F 72 6D 61 54	5: -format
20 76 65 72 74 69 63 61 6C 20 54	vertical T
45 4C 45 54 45 58	ELETEx
0D 0A	[CR] [LF]
LINE 5	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 2D 76 65 72 74 69 63	-vertic
61 6C 20 6C 69 6E 65 20 73 70 61	al line spa
63 69 6E 67 3A 20 34 20 6C 69 6E	cing: 4 lin
65 73 20 70 65 72 20 69 6E 63 68	es per inch
0D 0A	[CR] [LF]
LINE 6	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 2D 6E 75 6D 62 65 72	-number
20 6F 66 20 6C 69 6E 65 73 3A 20	of lines:
33 36 20 2B 20 43 49 4C	36 + CIL
0D 0A	[CR] [LF]
LINE 7	
37	7
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
31 30	10
0D 0A	[CR] [LF]
0D 0A	[CR] [LF]
LINE 28	
32 38	28
0D 0A	[CR] [LF]
LINE 29	
32 39	29
0D 0A	[CR] [LF]
LINE 30	
33 30	30
0D 0A	[CR] [LF]
LINE 31	
33 31	31
0D 0A	[CR] [LF]
LINE 32	
33 32	32
0D 0A	[CR] [LF]
LINE 33	
33 33	33

0D 0A	[CR] [LF]
LINE 34	
33 34	34
0D 0A	[CR] [LF]
LINE 35	
33 35	35
0D 0A	[CR] [LF]
LINE 36	
33 36 3A 20 4C 61 73 74 20 6C 69	36: Last li
6E 65 20 6F 66 20 70 61 67 65 20	ne of page
35 2E 20 20 20 20 20 20 20 20 20	5.
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 65 6E 64	end

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9B 32 20 4C	SVS[2]
0D 0C	[CR] [FF]
LINE 1	
31	1
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33	3
0D 0A	[CR] [LF]
LINE 4	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 50 61 67 65 20 36	Page 6
3A 20 2D 66 6F 72 6D 61 74 20 76	: -format v
65 72 74 69 63 61 6C 20 54 45 4C	ertical TEL
45 54 45 58	ETEX
0D 0A	[CR] [LF]
LINE 5	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 2D 76 65 72 74 69 63 61 6C	-vertical
20 6C 69 6E 65 20 73 70 61 63 69	line spaci
6E 67 3A 20 33 20 6C 69 6E 65 73	ng: 3 lines
20 70 65 72 20 69 6E 63 68 20 28	per inch (
53 56 53 32 29	SVS2)
0D 0A	[CR] [LF]
LINE 6	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 2D 6E 75 6D 62 65 72 20 6F	-number o
66 20 6C 69 6E 65 73 3A 20 32 37	f lines: 27
20 2B 20 43 49 4C	+ CIL
LINE 7	
37	7
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
31 30	10
0D 0A	[CR] [LF]
LINE 11	
31 31	11
0D 0A	[CR] [LF]
LINE 12	
31 32	12
0D 0A	[CR] [LF]
LINE 13	
31 33	13
0D 0A	[CR] [LF]
LINE 14	
31 34	14
0D 0A	[CR] [LF]
LINE 15	
31 35	15
0D 0A	[CR] [LF]
LINE 16	
31 36	16
0D 0A	[CR] [LF]
LINE 17	
31 37	17

0D 0A	[CR] [LF]
LINE 18	
31 38	18
0D 0A	[CR] [LF]
LINE 19	
31 39	19
0D 0A	[CR] [LF]
LINE 20	
32 30	20
0D 0A	[CR] [LF]
LINE 21	
32 31	21
0D 0A	[CR] [LF]
LINE 22	
32 32	22
0D 0A	[CR] [LF]
LINE 23	
32 33	23
0D 0A	[CR] [LF]
LINE 24	
32 34	24
0D 0A	[CR] [LF]
LINE 25	
32 35	25
0D 0A	[CR] [LF]
LINE 26	
32 36	26
0D 0A	[CR] [LF]
LINE 27	
32 37 3A 20 4C 61 73 74 20 6C 69	27: Last li
6E 65 20 6F 66 20 70 61 67 65 20	ne of page
36 2E 20 20 20 20 20 20 20 20	6.
20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 65 6E 64 20	end

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Text coding of document

```
9B 31 20 4A          PFS[ 1]
0D 0C                [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31    12345678901
32 33 34 35 36 37 38 39 30 31 32    23456789012
33 34 35 36 37 38 39 30 31 32 33    34567890123
34 35 36 37 38 39 30 31 32 33 34    45678901234
35 36 37 38 39 30 31 32 33 34 35    56789012345
36 37 38 39 30 31 32 33 34 35 36    67890123456
37 38 39 30 31 32 33 34 35 36 37    78901234567
38 39 30 31 32 33 34 35 36 37 38    89012345678
39 30 31 32 33 34 35 36 37 38 39    90123456789
30                                      0
0D 0A                [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 31 20    1
20 20 20 20 20 20 20 20 32 20 20    2
20 20 20 20 20 20 20 33 20 20 20    3
20 20 20 20 20 20 34 20 20 20 20    4
20 20 20 20 20 35 20 20 20 20 20    5
20 20 20 20 36 20 20 20 20 20 20    6
20 20 20 37 20 20 20 20 20 20 20    7
20 20 38 20 20 20 20 20 20 20 20    8
20 39 20 20 20 20 20 20 20 20 20    9
30                                      0
0D 0A                [CR] [LF]
LINE 3
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
31                                      1
0D 0A                [CR] [LF]
LINE 4
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 54 68 69 73 20 70
61 67 65 20 68 61 73 20 74 68 65
20 66 6F 6C 6C 6F 77 69 6E 67 20
63 68 61 72 61 63 74 65 72 69 73
74 69 63 73 20 3A 20 20 50 46 53
20 31 2C 20 53 56 53 20 30 3B 20
53 48 53 20 30 2E
0D 0A                [CR] [LF]
LINE 5
0D 0A                [CR] [LF]
LINE 6
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 54    T
68 65 20 6D 61 78 69 6D 75 6D 20    he maximum
6E 75 6D 62 65 72 20 6F 66 20 63    number of c
68 61 72 61 63 74 65 72 73 20 70    haracters p
65 72 20 6C 69 6E 65 20 69 73 20    er line is
65 71 75 61 6C 20 74 6F 20 31 30    equal to 10
30 2E                                0.
```

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0D 0A
LINE 7

[CR] [LF]

0D 0A
LINE 8

[CR] [LF]

20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 65 6E 64 20 6F
66 20 74 68 65 20 66 69 72 73 74
20 70 61 67 65

end o
f the first
page

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```
9B 31 20 4A
0D 0C
LINE 1
08 08 08
08 08 31
32 33 34 35 36 37 38 39 30 31 32
33 34 35 36 37 38 39 30 31 32 33
34 35 36 37 38 39 30 31 32 33 34
35 36 37 38 39 30 31 32 33 34 35
36 37 38 39 30 31 32 33 34 35 36
37 38 39 30 31 32 33 34 35 36 37
38 39 30 31 32 33 34 35 36 37 38
39 30 31 32 33 34 35 36 37 38 39
30 31 32 33 34 35 36 37 38 39 30
31 32 33 34 35
0D 0A
LINE 2
08 08 08
08 08
20 20 20 20 20 20 20 20 31 20 20
20 20 20 20 20 20 20 32 20 20 20
20 20 20 20 20 20 33 20 20 20 20
20 20 20 20 20 34 20 20 20 20 20
20 20 20 20 35 20 20 20 20 20 20
20 20 20 36 20 20 20 20 20 20 20
20 20 37 20 20 20 20 20 20 20 20
20 38 20 20 20 20 20 20 20 20 20
39 20 20 20 20 20 20 20 20 20 30
20
0D 0A
LINE 3
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 31
0D 0A
LINE 4
20 20 20 20 20 20 20 20 20 20 20
54 68 69 73 20 6C 69 6E 65 20 61
62 6F 76 65 20 73 74 61 72 74 73
20 77 69 74 68 20 35 20 62 61 63
6B 73 70 61 63 65 73 20 20 61 6E
64 20 63 6F 6E 74 61 69 6E 73 20
31 30 35 20 63 68 61 72 61 63 74
65 72 73 2E
0D 0A
LINE 5
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
```

PFS[1]
[CR] [FF]

[BS] [BS] [BS]
[BS] [BS] 1
23456789012
34567890123
45678901234
56789012345
67890123456
78901234567
89012345678
90123456789
01234567890
12345
[CR] [LF]

[BS] [BS] [BS]
[BS] [BS]
1
2
3
4
5
6
7
8
9 0
[CR] [LF]

1
[CR] [LF]

This line above starts with 5 backspaces and contains 105 characters.
[CR] [LF]

0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 54 68 65 20 63 68
61 72 61 63 74 65 72 69 73 74 69 The ch
63 73 20 6F 66 20 74 68 69 73 20 aracteristi
70 61 67 65 20 61 72 65 3A 20 50 cs of this
46 53 20 31 2C 20 53 48 53 20 30 page are: P
2C 20 53 56 53 20 30 FS 1, SHS 0
0D 0A [CR] [LF]
LINE 7

0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
0D 0A [CR] [LF]

0D 0A [CR] [LF]
LINE 9
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 45 6E 64 20 6F 66 End of
20 70 61 67 65 20 3 page 2
9B 31 20 4A PFS[1]
0D 0C [CR] [FF]

Doc.10 page 3

LINE 1
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 33 34 35 36 37 78901234567
38 39 30 31 32 33 34 35 36 37 38 89012345678
39 30 31 32 33 34 35 36 37 38 39 90123456789
30 0
OD 0A [CR] [LF]

LINE 2
20 20 20 20 20 20 20 20 20 20 31 20 1
20 20 20 20 20 20 20 20 20 32 20 20 2
20 20 20 20 20 20 20 20 33 20 20 20 3
20 20 20 20 20 20 34 20 20 20 20 4
20 20 20 20 20 35 20 20 20 20 20 5
20 20 20 20 36 20 20 20 20 20 20 6
20 20 20 37 20 20 20 20 20 20 20 7
20 20 38 20 20 20 20 20 20 20 20 8
20 39 20 20 20 20 20 20 20 20 20 9
30 0
OD 0A [CR] [LF]

LINE 3
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
31 1
OD 0A [CR] [LF]

LINE 4
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
54 68 69 73 20 70 61 67 65 20 68
61 73 20 74 68 65 20 66 6F 6C 6C
6F 77 69 6E 67 20 63 68 61 72 61
63 74 65 72 69 73 74 69 63 73 20
3A 20 20 50 46 53 20 31 2C 20 53
56 53 20 30 3B 20 53 48 53 20 30
2E
OD 0A [CR] [LF]

This page has the following characteristics:
: PFS 1, S
VS 0; SHS 0
.

LINE 5
OD 0A [CR] [LF]

LINE 6
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 68 65 20 6D 61 78
69 6D 75 6D 20 6E 75 6D 62 65 72
20 6F 66 20 63 68 61 72 61 63 74
65 72 73 20 70 65 72 20 6C 69 6E
65 20 69 73 20 65 71 75 61 6C 20
74 6F 20 31 30 30 2E
OD 0A [CR] [LF]

The maximum number of characters per line is equal to 100.

LINE 7
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20

```
0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20 20
20 20 45 6E 64 20 6F 66 20 74 68 End of the
65 20 70 61 67 65 20 20 33 page 3
```

Doc.10 page 4

```
0D 0C [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 31 20 1
20 20 20 20 20 20 20 20 32 20 20 2
20 20 20 20 20 20 20 33 20 20 20 3
20 20 20 20 20 34 20 20 20 20 4
20 20 20 20 20 35 20 20 20 20 5
20 20 20 20 36 20 20 20 20 20 6
20 20 20 37 7
0D 0A [CR] [LF]
LINE 3

0D 0A [CR] [LF]
LINE 4
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 68 69 Thi
73 20 70 61 67 65 20 63 6F 6E 74 s page cont
61 69 6E 73 20 6E 6F 20 70 61 72 ains no par
61 6D 65 74 65 72 2E ameter.
0D 0A [CR] [LF]
LINE 5

0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 74 68 65 72 65 there
66 6F 72 65 20 74 68 65 20 6D 61 fore the ma
78 69 6D 75 6D 20 6E 75 6D 62 65 ximum numbe
72 20 6F 66 20 63 68 61 72 61 63 r of charac
74 65 72 73 20 70 65 72 20 6C 69 ters per li
6E 65 20 69 73 20 37 32 2E ne is 72.
0D 0A [CR] [LF]
LINE 7

0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 45 6E 64 20 End
6F 66 20 70 61 67 65 20 34 of page 4
```

```
0D 0C [CR] [FF]
LINE 1
08 08 08 [BS] [BS] [BS]
08 08 31 [BS] [BS] 1
32 33 34 35 36 37 38 39 30 31 32 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 33 34 35 36 37 78901234567
38 39 30 31 32 33 34 35 36 37 8901234567
0D 0A [CR] [LF]
LINE 2
08 08 08 [BS] [BS] [BS]
08 08 [BS] [BS]
20 20 20 20 20 20 20 20 31 20 20 1
20 20 20 20 20 20 20 32 20 20 20 2
20 20 20 20 20 20 33 20 20 20 20 3
20 20 20 20 20 34 20 20 20 20 20 4
20 20 20 20 35 20 20 20 20 20 20 5
20 20 20 36 20 20 20 20 20 20 20 6
20 20 37 7
0D 0A [CR] [LF]
LINE 3
08 08 08 [BS] [BS] [BS]
08 08 [BS] [BS]
0D 0A [CR] [LF]
LINE 4
20 20 20 20 20 54 68 69 73 20 70
61 67 65 20 63 6F 6E 74 61 69 6E This p
73 20 6E 6F 20 70 61 72 61 6D 65 age contain
74 65 72 20 61 6E 64 20 73 74 61 s no parame
72 74 73 20 77 69 74 68 20 35 20 ter and sta
62 61 63 6B 73 70 61 63 65 73 2E rts with 5
0D 0A [CR] [LF] backspaces.
LINE 5 [CR] [LF]
0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 20 54 68 65 72 Ther
65 66 6F 72 65 20 74 68 65 20 6D efore the m
61 78 69 6D 75 6D 20 6E 75 6D 62 aximum numb
65 72 20 63 68 20 63 68 61 72 61 er of chara
63 74 65 72 73 20 70 65 72 20 6C cters per l
69 6E 6 20 69 73 20 37 37 ine is 77
0D 0A [CR] [LF]
LINE 7 [CR] [LF]
0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 69 6E 20 74 in t
68 69 73 20 63 61 73 65 2E his case.
0D 0A [CR] [LF]
LINE 9 [CR] [LF]
0D 0A [CR] [LF]
LINE 10
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 45 6E 64 20 6F End o
66 20 70 61 67 65 20 35 2E f page 5.
```

Doc.10 page 6

```
0D 0C [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 789012
0D 0A [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 31 20 1
20 20 20 20 20 20 20 20 32 20 20 2
20 20 20 20 20 20 20 33 20 20 20 3
20 20 20 20 20 34 20 20 20 20 4
20 20 20 20 20 35 20 20 20 20 5
20 20 20 20 36 20 20 20 20 20 6
20 20 20 37 7
0D 0A [CR] [LF]
LINE 3
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20
0D 0A [CR] [LF]
LINE 4
54 68 65 20 6C 61 73 74 20 70 61 The last pa
67 65 20 6F 66 20 74 68 69 73 20 ge of this
64 6F 63 75 6D 65 6E 74 20 63 6F document co
6E 74 61 69 6E 73 20 6E 6F 20 70 ntains no p
61 72 61 6D 65 74 65 72 20 61 6E arameter an
64 20 6E 6F 20 62 61 63 6B 73 70 d no backsp
61 63 65 73 2E aces.
0D 0A [CR] [LF]
LINE 5
0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 54 68 65 72 65 There
66 6F 72 65 20 74 68 65 20 6D 61 fore the ma
78 69 6D 75 6D 20 6E 75 6D 62 65 ximum numbe
72 20 6F 66 20 63 68 61 72 61 63 r of charac
74 65 72 73 20 70 65 72 20 6C 69 ters per li
6E 65 20 69 73 20 37 32 2E ne is 72.
0D 0A [CR] [LF]
LINE 7
0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 45 6E 64 20 6F 66 20 74 End of t
68 69 73 20 64 6F 63 75 6D 65 6E his documen
74 2E t.
```

9B 31 20 4A	PFS[1]
9B 30 20 4A	PFS[0]
9B 32 20 4C	SVS[2]
9B 30 20 4C	SVS[0]
0D 0C	[CR] [FF]
LINE 1	
4F 6E 65 20 70 61 67 65 20 64 6F	One page do
63 75 6D 65 6E 74 20 77 69 74 68	cument with
20 64 69 66 66 65 72 65 6E 74 20	different
50 46 53 20 61 6E 64 20 53 56 53	PFS and SVS
2E	.
0D 0A	[CR] [LF]
LINE 2	
54 68 65 20 72 65 73 75 6C 74 20	The result
69 73 20 61 20 76 65 72 74 69 63	is a vertic
61 6C 20 70 61 67 65 20 69 6E 20	al page in
74 68 65 20 62 61 73 69 73 20 66	the basis f
6F 72 6D 61 64 20 77 69 74 68 20	ormat with
31 30 20 63 70 69 2E	10 cpi.
0D 0A	[CR] [LF]
LINE 3	
27 61 20 27 61 20 27 61 20 27 61	'a 'a 'a 'a
20 27 61 20 27 61 20 27 61 20 27	'a 'a 'a '
61 20 27 61 20 27 61 20 27 61 20	a 'a 'a 'a
27 61 20 27	'a '
0D 0A	[CR] [LF]
LINE 4	
61 08 27 20 61 08	a[BS] ' a[BS]
27 20 61 08 27 20 61	' a[BS] ' a
08 27 20 61 08	[BS] ' a[BS]
27 20 61 08 27 20 61	' a[BS] ' a
08 27 20 61 08	[BS] ' a[BS]
27 20 61 08 27	' a[BS] '
0D 0A	[CR] [LF]
LINE 5	
54 68 69 73 20 6C 69 6E 65 20 20	This line
63 6F 6E 74 61 69 6E 73 20 61 20	contains a
53 56 53 28 31 29 20 66 6F 6C 6C	SVS(1) foll
6F 77 65 64 20 62 79 20 61 20 53	owed by a S
56 53 28 32 29	VS(2)
9B 31 20 4C	SVS[1]
9B 32 20 4C	SVS[2]
0D 0A	[CR] [LF]
LINE 6	
49 74 27 73 20 74 68 65 20 53 56	It's the SV
53 28 32 29 20 77 68 69 63 68 20	S(2) which
69 73 20 74 61 6B 65 6E 20 69 6E	is taken in
74 6F 20 61 63 63 6F 75 6E 74 3A	to account:
20 76 65 72 74 69 63 61 6C 20 73	vertical S
70 61 63 69 6E 67 20 3D 20 38 2C	pacing = 8,
34 37 6D 6D	47mm
0D 0A	[CR] [LF]
LINE 7	
54 68 69 73 20 6C 69 6E 65 20 69	This line i
73 20 65 6E 64 65 64 20 62 79 20	s ended by
61 20 53 56 53 28 30 29 3A 20 76	a SVS(0): V
65 72 74 69 63 61 6C 20 73 70 61	ertical spa
63 69 6E 67 20 3D 20 34 2C 32 33	cing = 4,23
6D 6D	mm
9B 30 20 4C	SVS[0]

Doc.11 page 1

```
0D 0A [CR] [LF]
LINE 8
61 62 ab
9B 34 6D 63 64 8C SGR[ 4]cd[PLU]
65 66 8B 8B ef[PLD] [PLD]
67 68 8C 69 6A gh[PLU] ij
9B 6D 6B 6C SGR[ 0]kl
0D 0A [CR] [LF]
LINE 9

0D 0A [CR] [LF]
LINE 10
61 62 ab
9B 34 6D 63 64 SGR[ 4]cd
9B 30 6D 8C SGR[ 0][PLU]

9B 34 6D 65 66 SGR[ 4]ef
9B 30 6D 8B SGR[ 0][PLD]
6B 6C kl
0D 0A [CR] [LF]
LINE 11

0D 0A [CR] [LF]
LINE 12
61 62 ab
9B 34 6D 63 64 8C SGR[ 4]cd[PLU]

9B 34 6D 65 66 SGR[ 4]ef
9B 30 6D 8B SGR[ 0][PLD]
6B 6C kl
0D 0A [CR] [LF]
LINE 13

0D 0A [CR] [LF]
LINE 14
61 62 CC 63 CC 64 CC 8C ab|c|d|[PLU]
65 8B CC 8B e[PLD] |[PLD]
67 8C CC 69 CC 6A g[PLU] |i|j
6B 6C kl
0D 0A [CR] [LF]
LINE 15

0D 0A [CR] [LF]
LINE 16
61 62 CC 63 CC 64 8C ab|c|d[PLU]
CC 65 CC 66 8B 6B |e|f[PLD] k
6C l
```


Doc.12 page 1

0D 0A [CR] [LF]
LINE 11
20 20 54 68 65 20 6D 61 78 69 6D The maxim
75 6D 20 6E 75 6D 62 65 72 20 6F um number o
66 20 6C 69 6E 65 73 20 70 65 72 f lines per
20 70 61 67 65 20 69 73 20 33 38 page is 38
20 2B 20 31 2E + 1-

0D 0A [CR] [LF]
LINE 12

0D 0A [CR] [LF]
LINE 13
20 20 46 6F 72 20 74 68 69 73 20 For this
74 65 78 74 20 74 68 65 20 70 72 text the pr
65 73 65 6E 74 61 74 69 6F 6E 20 esentation
63 6F 6E 74 72 6F 6C 2D 66 75 6E control-fun
63 74 69 6F 6E 73 20 50 46 53 28 ctions PFS(
33 29 2C 20 53 56 53 28 30 29 20 3), SVS(0)
61 6E 64 20 53 48 53 28 30 29 20 and SHS(0)
61 72 65 20 61 64 65 71 75 61 74 are adequat
65 2E e.

0D 0A [CR] [LF]
LINE 14

0D 0A [CR] [LF]
LINE 15
20 20 54 68 65 20 61 62 69 6C 69 The abili
74 79 20 6F 66 20 74 68 65 20 74 ty of the t
65 72 6D 69 6E 61 6C 20 74 6F 20 erminial to
72 65 70 72 65 73 65 6E 74 20 74 represent t
68 65 20 67 72 61 70 68 69 63 20 he graphic
73 79 6D 62 6F 6C 73 20 6F 66 20 symbols of
74 68 65 20 54 45 4C 45 54 45 58 the TELETEx
2D 43 4F 44 45 2D 54 61 62 6C 65 -CODE-Table
20 73 68 61 6C 6C 20 62 65 20 63 shall be c
68 65 63 6B 65 64 hecked

0D 0A [CR] [LF]
LINE 16

0D 0A [CR] [LF]
LINE 17

0D 0A [CR] [LF]
LINE 18
20 20 30 37 2F 30 35 2E 2E 75 2E 07/05..u.
2E 2E 2E 2E 30 37 2F 30 36 2E 2E07/06..
76 2E 2E 2E 2E 2E 30 37 2F 30 37 v.....07/07
2E 2E 77 2E 2E 2E 2E 2E 30 37 2F ..w.....07/
30 38 2E 2E 78 2E 2E 2E 2E 2E 30 08..x.....0
37 2F 30 39 2E 2E 79 2E 2E 2E 2E 7/09..y....
2E 30 37 2F 31 30 2E 2E 7A 2E 2E .07/10..z.
2E 2E 2E 30 37 2F 31 32 2E 2E 7C ...07/12..|

0D 0A [CR] [LF]
LINE 19

0D 0A	[CR] [LF]
LINE 20	
20 20 31 30 2F 30 31 20 20 A1 20	10/01 ;
20 20 20 20 31 30 2F 30 32 20 20	10/02
A2 20 20 20 20 20 31 30 2F 30 33	ç 10/03
20 20 A3 20 20 20 20 20 31 30 2F	£ 10/
30 34 20 20 A4 20 20 20 20 31	04 \$ 1
30 2F 30 35 20 20 A5 20 20 20 20	0/05 ¥
20 31 30 2F 30 36 20 20 A6 20 20	10/06 #
20 20 20 31 30 2F 30 37 20 20 A7	10/07 §

0D 0A	[CR] [LF]
LINE 21	

0D 0A	[CR] [LF]
LINE 22	
20 20 31 30 2F 30 38 20 20 A8 20	10/08 o
20 20 20 20 31 30 2F 31 31 20 20	10/11
AB 20 20 20 20 20 31 31 2F 30 30	< 11/00
20 20 B0 20 20 20 20 31 31 2F	° 11/
30 31 20 20 B1 20 20 20 20 31	01 ± 1
31 2F 30 32 20 20 B2 20 20 20 20	1/02 ²
20 31 31 2F 30 33 20 20 B3 20 20	11/03 ³
20 20 20 31 31 2F 30 34 20 20 B4	11/04 x

0D 0A	[CR] [LF]
LINE 23	

Doc.12 page 1

OD OA	[CR] [LF]
LINE 24	
20 20 31 31 2F 30 35 20 20 B5 20	11/05 μ
20 20 20 20 31 31 2F 30 36 20 20	11/06
B6 20 20 20 20 20 20 31 31 2F 30 37	¶ 11/07
20 20 B7 20 20 20 20 20 31 31 2F	. 11/
30 38 20 20 B8 20 20 20 20 20 31	08 + 1
31 2F 31 31 20 20 BB 20 20 20 20	1/11 *
20 31 31 2F 31 32 20 20 BC 20 20	11/12 ✕
20 20 20 31 31 2F 31 20 20 BD	11/13 ✕
OD OA	[CR] [LF]
LINE 25	
OD OA	[CR] [LF]
LINE 26	
20 20 31 31 2F 31 34 20 20 BE 20	11/14 3/4
20 20 20 20 31 31 2F 31 35 20 20	11/15
BF 20 20 20 20 20 20 31 32 2F 30 31	¿ 12/01
20 20 C1 20 20 20 20 20 20 31 32	. 12
2F 30 32 20 20 C2 20 20 20 20 20	/02 ' 12/03 ^
20 31 32 2F 30 33 20 20 C3 20 20	12/04
20 20 20 20 31 32 2F 30 34 20 20	- 12/0
C4 20 20 20 20 20 20 31 32 2F 30	5 -
35 20 20 C5 20	
OD OA	[CR] [LF]
LINE 27	
OD OA	[CR] [LF]
LINE 28	
20 20 31 32 2F 30 36 20 20 C6 20	12/06 ~
20 20 20 20 20 31 32 2F 30 37 20	12/07
20 C7 20 20 20 20 20 20 31 32 2F	. 12/
30 38 20 20 C8 20 20 20 20 20 20	08 ..
31 32 2F 30 39 20 20 C9 20 20 20	12/09 "
20 20 20 31 32 2F 31 30 20 20 CA	12/10 °
20 20 20 20 20 20 31 32 2F 31 31	12/11
20 20 CB 20 20 20 20 20 20 31 32	. 12
2F 31 32 20 20 CC 20	/12 _
OD OA	[CR] [LF]
LINE 29	
OD OA	[CR] [LF]
LINE 30	
20 20 31 32 2F 31 33 20 20 CD 20	12/13 "
20 20 20 20 20 20 31 32 2F 31 34 20	12/14
20 CE 20 20 20 20 20 20 31 32 2F	¿ 12/
31 35 20 20 CF 20 20 20 20 20 20	15 ~
31 34 2F 30 30 20 20 E0 20 20 20	14/00 Ω
20 20 31 34 2F 30 31 20 20 E1 20	14/01 E
20 20 20 20 31 34 2F 30 32 20 20	14/02
E2 20 20 20 20 20 31 34 2F 30 33	D 14/03
20 20 E3	.
OD OA	[CR] [LF]
LINE 31	
OD OA	[CR] [LF]
LINE 32	
20 20 31 34 2F 30 34 20 20 E4 20	14/04 H
20 20 20 20 31 34 2F 30 36 20 20	14/06
E6 20 20 20 20 20 31 34 2F 30 37	¶ 14/07
20 20 E7 20 20 20 20 20 31 34 2F	E 14/
30 38 20 20 E8 20 20 20 20 20 31	08s E 1
34 2F 30 39 20 20 E9 20 20 20 20	4/09 °
20 31 34 2F 31 30 20 20 EA 20 20	14/10 Z
20 20 20 31 34 2F 31 31 20 20 EB	14/11 e

OD 0A [CR] [LF]
LINE 33
OD 0A [CR] [LF]
LINE 34
20 20 31 34 2F 31 32 20 20 EC 20 14/12 p
20 20 20 20 31 34 2F 31 33 20 20 14/13
ED 20 20 20 20 20 31 34 2F 31 34 T 14/14
20 20 EE 20 20 20 20 20 31 34 2F N 14/
31 35 20 20 EF 20 20 20 20 20 31 5/00 k
35 2F 30 30 20 20 F0 20 20 20 20 15/01 æ
20 31 35 2F 30 31 20 20 F1 20 20 15/02 d
20 20 20 31 35 2F 30 32 20 20 F2

OD 0A [CR] [LF]
LINE 35

OD 0A [CR] [LF]
LINE 36
20 20 31 35 2F 30 33 20 20 F3 20 15/03 ø
20 20 20 20 31 35 2F 30 34 20 20 15/04
F4 20 20 20 20 20 31 35 2F 30 35 b 15/05
20 20 F5 20 20 20 20 20 31 35 2F 1 15/
30 36 20 20 F6 20 20 20 20 20 31 06 ij 1
35 2F 30 37 20 20 F7 20 20 20 20 5/07 l
20 31 35 2F 30 38 20 20 F8 20 20 15/08 i
20 20 20 31 35 2F 30 39 20 20 F9 15/09 ø

OD 0A [CR] [LF]
LINE 37

OD 0A [CR] [LF]
LINE 38
20 20 31 35 2F 31 30 20 20 FA 20 15/10 ø
20 20 20 20 31 35 2F 31 31 20 20 15/11
FB 20 20 20 20 20 31 35 2F 31 32 B 15/12
20 20 FC 20 20 20 20 20 31 35 2F p 15/
31 33 20 20 FD 20 20 20 20 20 31 13 l 1
35 2F 31 34 20 20 FE 20 20 20 20 5/14 n
20 39 30 31 32 33 34 35 36 37 38 9012345678
39 30 31 32 33 34 35 36 37 38 39 90123456789
30 31 32 33 34 35 36 37 38 39 30 01234567890
31 32 33 34 35 12345

Doc.12 page 2

9B 32 20 4A	PFS[2]
0D 0C	[CR] [FF]
LINE 1	
31 32 33 34 35 36 37 38 39 30 31	12345678901
32 33 34 35 36 37 38 39 30 31 32	23456789012
33 34 35 36 37 38 39 30 31 32 33	34567890123
34 35 36 37 38 39 30 31 32 33 34	45678901234
35 36 37 38 39 30 31 32 33 34 35	56789012345
36 37 38 39 30 31 32 33 34 35 36	67890123456
37 38 39 30 31 32	789012
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33 20 20 54 65 73 74 20 74 65 78	3 Test tex
54 20 35	t 5
0D 0A	[CR] [LF]
LINE 4	
34	4
0D 0A	[CR] [LF]
LINE 5	
35	5
0D 0A	[CR] [LF]
LINE 6	
36	6
0D 0A	[CR] [LF]
LINE 7	
37 20 20 54 68 65 20 66 6F 72 6D	7 The form
61 74 20 6F 66 20 74 68 69 73 20	at of this
70 61 67 65 20 69 73 20 74 68 65	page is the
20 76 65 72 74 69 63 61 6C 20 49	vertical I
53 4F 20 41 20 34 20 70 61 67 65	SO A 4 page
20 66 6F 72 6D 61 74 2E	format.
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
30	0
0D 0A	[CR] [LF]
LINE 11	
31 20 20 54 68 65 20 6C 69 6E 65	1 The line
20 73 70 61 63 69 6E 67 20 69 73	spacing is
20 22 31 22 2E	"1"
0D 0A	[CR] [LF]
LINE 12	
32	2

OD 0A [CR] [LF]
LINE 13
33 20 20 54 68 65 20 6D 61 78 69 3 The maxi
6D 75 6D 20 6E 75 6D 62 65 72 20 mum number

6F 66 20 64 69 67 69 74 73 20 70 of digits p
65 72 er
OD 0A [CR] [LF]
LINE 14
34 20 20 6C 69 6E 65 20 69 73 20 4 line is
66 72 6F 6D 20 48 4F 4D 45 20 50 from HOME P
4F 53 49 54 49 4F 4E 20 69 6E 63 OSITION inc
6C 75 64 65 64 20 37 32 2E luded 72.
OD 0A [CR] [LF]
LINE 15
35 5
OD 0A [CR] [LF]
LINE 16
36 20 20 54 68 65 20 6D 61 78 69 6 The maxi
6D 75 6D 20 6E 75 6D 62 65 72 20 mum number
6F 66 20 6C 69 6E 65 73 20 70 65 of lines pe
72 20 70 61 67 65 20 69 73 20 35 r page is 5
39 20 2B 20 31 2E 9 + 1.
OD 0A [CR] [LF]
LINE 17
37 7
OD 0A [CR] [LF]
LINE 18
38 20 20 46 6F 72 20 74 68 69 73 8 For this
20 74 65 73 74 20 74 68 65 20 70 test the p
72 65 73 65 6E 74 61 74 69 6F 6E resentation
20 63 6F 6E 74 72 6F 6C 2D 66 75 control-fu
6E 63 74 69 6F 6E 73 nctions
OD 0A [CR] [LF]
LINE 19
39 20 20 50 46 53 28 32 29 2C 20 9 PFS(2),
53 56 53 28 30 29 20 61 6E 64 20 SVS(0) and
53 48 53 28 30 29 20 61 72 65 20 SHS(0) are
61 64 65 71 75 61 74 65 2E adequate.
OD 0A [CR] [LF]
LINE 20
30 0

OD 0A [CR] [LF]
LINE 21
31 20 20 54 68 65 20 61 62 69 6C 1 The abil
69 74 79 20 6F 66 20 74 68 65 20 ity of the
74 65 72 6D 69 6E 61 6C 20 74 6F terminal to
20 72 65 70 72 65 73 65 6E 74 20 represent
74 68 65 20 67 72 61 70 68 69 63 the graphic
20 73 79 6D 62 6F 6C 73 symbols

OD 0A [CR] [LF]
LINE 22
32 20 20 6F 66 20 74 68 65 20 54 2 of the T
45 4C 45 54 45 58 2D 43 4F 44 45 ELETEx-CODE
20 54 61 62 6C 65 20 73 68 61 6C Table shal
6C 20 62 65 20 63 68 65 63 6B 65 l be checke
64 2E d.

OD 0A [CR] [LF]
LINE 23
33 3

Doc.12 page 2

0D 0A	[CR] [LF]
LINE 24	
34 20 20 30 32 2F 30 20 2E 2E 20	4 02/00..
2E 2E 2E 2E 2E 30 32 2F 30 31 2E	.....02/01.
2E 21 2E 2E 2E 2E 2E 30 32 2F 30	..!.....02/0
32 2E 2E 22 2E 2E 2E 2E 2E 30 32	2.."......02
2F 30 33 2E 2E 23 2E 2E 2E 2E 2E	/03..#.....
30 32 2F 30 34 2E 2E 24	02/04..°
0D 0A	[CR] [LF]
LINE 25	
35	5
0D 0A	[CR] [LF]
LINE 26	
36 20 20 30 32 2F 30 35 20 20 25	6 02/05 %
20 20 20 20 20 30 32 2F 30 36 20	02/06
20 26 20 20 20 20 20 30 32 2F 30	& 02/0
37 20 20 27 20 20 20 20 20 30 32	7 ' 02
2F 30 38 20 20 28 20 20 20 20 20	/08 (
30 32 2F 30 39 20 20 29	02/09)
0D 0A	[CR] [LF]
LINE 27	
37	7
0D 0A	[CR] [LF]
LINE 28	
38 20 20 30 32 2F 31 30 20 20 2A	8 02/10 *
20 20 20 20 20 30 32 2F 31 31 20	02/11
20 2B 20 20 20 20 20 30 32 2F 31	? 02/1
32 20 20 2C 20 20 20 20 20 30 32	2 02
2F 31 33 20 20 2D 20 20 20 20 20	/13' -
30 32 2F 31 34 20 20 2E	02/14 .
0D 0A	[CR] [LF]
LINE 29	
39	9
0D 0A	[CR] [LF]
LINE 30	
30 20 20 30 32 2F 31 35 20 20 2F	0 02/15 /
20 20 20 20 20 30 33 2F 30 30 20	03/00
20 30 20 20 20 20 20 30 33 2F 30	0 03/0
31 20 20 31 20 20 20 20 20 30 33	1 1 03
2F 30 32 20 20 32 20 20 20 20 20	/02 2
30 33 2F 30 33 20 20 33	03/03 3
0D 0A	[CR] [LF]
LINE 31	
31	1
0D 0A	[CR] [LF]
LINE 32	
32 20 20 30 33 2F 30 34 20 20 34	2 03/04 4
20 20 20 20 20 30 33 2F 30 35 20	03/05
20 35 20 20 20 20 20 30 33 2F 30	5 03/0
36 20 20 36 20 20 20 20 20 30 33	6 6 03
2F 30 37 20 20 37 20 20 20 20 20	/07 7
30 33 2F 30 38 20 20 38	03/08 8

0D 0A	[CR] [LF]
LINE 33	
33	3
0D 0A	[CR] [LF]
LINE 34	
34 20 20 30 33 2F 30 39 20 20 39	4 03/09 9
20 20 20 20 20 30 33 2F 31 30 20	03/10
20 3A 20 20 20 20 20 30 33 2F 31	: 03/1
31 20 20 3B 20 20 20 20 20 30 33	1 ; 03
2F 31 32 20 20 3C 20 20 20 20 20	/12 <
30 33 2F 31 33 20 20 3D	03/13 =
0D 0A	[CR] [LF]
LINE 35	
35	5
0D 0A	[CR] [LF]
LINE 36	
36 20 20 30 33 2F 31 34 20 20 3E	6 03/14 >
20 20 20 20 20 30 33 2F 31 35 20	03/15
20 3F 20 20 20 20 20 30 34 2F 30	? 04/0
30 20 20 40 20 20 20 20 20 30 34	0 @ 04
2F 30 31 20 20 41 20 20 20 20 20	/01 A
30 34 2F 30 32 20 20 42	04/02 B
0D 0A	[CR] [LF]
LINE 37	
37	7
0D 0A	[CR] [LF]
LINE 38	
38 20 20 30 34 2F 30 33 20 20 43	8 04/03 C
20 20 20 20 20 30 34 2F 30 34 20	04/04
20 44 20 20 20 20 20 30 34 2F 30	D 04/0
35 20 20 45 20 20 20 20 20 30 34	5 E 04
2F 30 36 20 20 46 20 20 20 20 20	/06 F
30 34 2F 30 37 20 20 47	04/07 G
0D 0A	[CR] [LF]
LINE 39	
39	9
0D 0A	[CR] [LF]
LINE 40	
30 20 20 30 34 2F 30 38 20 20 48	0 04/08 H
20 20 20 20 20 30 34 2F 30 39 20	04/09
20 49 20 20 20 20 20 30 34 2F 31	I 04/1
30 20 20 4A 20 20 20 20 20 30 34	0 J 04
2F 31 31 20 20 4B 20 20 20 20 20	/11 K
30 34 2F 31 32 20 20 4C	04/12 L
0D 0A	[CR] [LF]
LINE 41	
31	1
0D 0A	[CR] [LF]
LINE 42	
32 20 20 30 34 2F 31 33 20 20 4D	2 04/13 M
20 20 20 20 20 30 34 2F 31 34 20	04/14
20 4E 20 20 20 20 20 30 34 2F 31	N 04/1
35 20 20 4F 20 20 20 20 20 30 35	5 O 05
2F 30 30 20 20 50 20 20 20 20 20	/00 P
30 35 2F 30 31 20 20 51	05/01 Q

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0D 0A	[CR] [LF]
LINE 43	
33	3
0D 0A	[CR] [LF]
LINE 44	
34 20 20 30 35 2F 30 32 20 20 52	4 05/02 R
20 20 20 20 20 30 35 2F 30 33 20	05/03
20 53 20 20 20 20 20 30 35 2F 30	S 05/0
34 20 20 54 20 20 20 20 20 30 35	4 T 05
2F 30 35 20 20 55 20 20 20 20 20	/05 U
30 35 2F 30 36 20 20 56	05/06 V
0D 0A	[CR] [LF]
LINE 45	
35	5
0D 0A	[CR] [LF]
LINE 46	
36 20 20 30 35 2F 30 37 20 20 57	6 05/07 W
20 20 20 20 20 30 35 2F 30 38 20	05/08
20 58 20 20 20 20 20 30 35 2F 30	X 05/0
39 20 20 59 20 20 20 20 20 30 35	9 Y 05
2F 31 30 20 20 5A 20 20 20 20 20	/10 Z
30 35 2F 31 31 20 20 5B	05/11 [
0D 0A	[CR] [LF]
LINE 47	
37	7
0D 0A	[CR] [LF]
LINE 48	
38 20 20 20 20 20 20 20 20 20 20	8
20 20 20 20 20 30 35 2F 31 33 20	05/13
20 5D 20 20 20 20 20 20 20 20 20	] 05
20 20 20 20 20 20 20 20 20 30 35	/15 _
2F 31 35 20 20 5F	
0D 0A	[CR] [LF]
LINE 49	
39	9
0D 0A	[CR] [LF]
LINE 50	
30 20 20 30 36 2F 30 31 20 20 61	0 06/01 a
20 20 20 20 20 30 36 2F 30 32 20	06/02
20 62 20 20 20 20 20 30 36 2F 30	b 06/0
33 20 20 63 20 20 20 20 20 30 36	3 c 06
2F 30 34 20 20 64 20 20 20 20 20	/04 d
30 36 2F 30 35 20 20 65	06/05 e
0D 0A	[CR] [LF]
LINE 51	
31	1
0D 0A	[CR] [LF]
LINE 52	
32 20 20 30 36 2F 30 36 20 20 66	2 06/06 f
20 20 20 20 20 30 36 2F 30 37 20	06/07
20 67 20 20 20 20 20 30 36 2F 30	g 06/0
38 20 20 68 20 20 20 20 20 30 36	8 h 06
2F 30 39 20 20 69 20 20 20 20 20	/09 i
30 36 2F 31 30 20 20 6A	06/10 j

0D 0A	[CR] [LF]
LINE 53	
33	3
0D 0A	[CR] [LF]
LINE 54	
34 20 20 30 36 2F 31 31 20 20 6B	4 06/11 k
20 20 20 20 20 30 36 2F 31 32 20	06/12
20 6C 20 20 20 20 20 30 36 2F 31	1 06/1
33 20 20 6D 20 20 20 20 20 30 36	3 m 06
2F 31 34 20 20 6E 20 20 20 20 20	/14 n
30 36 2F 31 35 20 20 6F	06/15 o
0D 0A	[CR] [LF]
LINE 55	
35	5
0D 0A	[CR] [LF]
LINE 56	
36 20 20 30 37 2F 30 30 20 20 70	6 07/00 p
20 20 20 20 20 30 37 2F 30 31 20	07/01
20 71 20 20 20 20 20 30 37 2F 30	q 07/0
32 20 20 72 20 20 20 20 20 30 37	2 r 07
2F 30 33 20 20 73 20 20 20 20 20	/03 s
30 37 2F 30 34 20 20 74	07/04 t
0D 0A	[CR] [LF]
LINE 57	
37	7
0D 0A	[CR] [LF]
LINE 58	
38	8
0D 0A	[CR] [LF]
LINE 59	
39 32 33 34 35 36 37 38 39 30 31	92345678901
32 33 34 35 36 37 38 39 30 31 32	23456789012
33 34 35 36 37 38 39 30 31 32 33	34567890123
34 35 36 37 38 39 30 31 32 33 34	45678901234
35 36 37 38 39 30 31 32 33 34 35	56789012345
36 37 38 39 30 31 32 33 34 35 36	67890123456
37 38 39 30 31 32	789012


```
OD 0A [CR] [LF]
LINE 23
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAA
OD 0A [CR] [LF]
LINE 24
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAA
```



```
9B 36 20 4A PFS[ 6]
0D 0C [CR] [FF]
LINE 1
31 1
0D 0A [CR] [LF]
LINE 2
32 2
0D 0A [CR] [LF]
LINE 3
33 3
0D 0A [CR] [LF]
LINE 4
34 20 20 20 20 20 20 20 20 20 20 4
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 2D 66 6F 72 6D 61 74 -format
20 49 53 4F 20 33 35 33 35 20 54 ISO 3535 T
45 4C 45 54 45 58 ELETEx
0D 0A [CR] [LF]
LINE 5
35 20 20 20 20 20 20 20 20 20 20 5
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 2D 76 65 72 74 69 63 -vertic
61 6C 20 6C 69 6E 65 20 73 70 61 al line spa
63 69 6E 67 3A 20 36 20 6C 69 6E cing: 6 lin
65 73 20 70 65 72 20 69 6E 63 68 es per inch
28 53 56 53 30 29 (SVS0)
0D 0A [CR] [LF]
LINE 6
36 20 20 20 20 20 20 20 20 20 20 6
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 2D 6E 75 6D 62 65 72 -number
20 6F 66 20 6C 69 6E 65 73 3A 20 of lines:
36 36 20 2B 20 43 49 4C 66 + CIL
0D 0A [CR] [LF]
LINE 7
37 7
0D 0A [CR] [LF]
LINE 8
38 8
0D 0A [CR] [LF]
LINE 9
39 9
0D 0A [CR] [LF]
LINE 10
31 30 10
0D 0A [CR] [LF]
0D 0A [CR] [LF]
LINE 11
31 31 11
0D 0A [CR] [LF]
LINE 12
31 32 12
0D 0A [CR] [LF]
LINE 15
31 35 15
0D 0A [CR] [LF]
LINE 16
31 36 16
0D 0A [CR] [LF]
LINE 17
31 37 17
0D 0A [CR] [LF]
LINE 18
31 38 18
```


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0D 0A	[CR] [LF]
LINE 19	
31 39	19
0D 0A	[CR] [LF]
LINE 20	
32 30	20
0D 0A	[CR] [LF]
LINE 21	
32 31	21
0D 0A	[CR] [LF]
LINE 22	
32 32	22
0D 0A	[CR] [LF]
LINE 23	
32 33	23
0D 0A	[CR] [LF]
LINE 24	
32 34	24
0D 0A	[CR] [LF]
LINE 25	
32 35	25
0D 0A	[CR] [LF]
LINE 26	
32 36	26
0D 0A	[CR] [LF]
LINE 27	
32 37	27
0D 0A	[CR] [LF]
LINE 28	
32 38	28
0D 0A	[CR] [LF]
LINE 29	
32 39	29
0D 0A	[CR] [LF]
LINE 30	
33 30	30
0D 0A	[CR] [LF]
LINE 31	
33 31	31
0D 0A	[CR] [LF]
LINE 32	
33 32	32
0D 0A	[CR] [LF]
LINE 33	
33 33	33
0D 0A	[CR] [LF]
LINE 34	
33 34	34
0D 0A	[CR] [LF]
LINE 35	
33 35	35
0D 0A	[CR] [LF]
LINE 36	
33 36	36
0D 0A	[CR] [LF]
LINE 37	
33 37	37
0D 0A	[CR] [LF]
LINE 38	
33 38	38
0D 0A	[CR] [LF]
LINE 39	
33 39	39

0D 0A	[CR] [LF]
LINE 40	
34 30	40
0D 0A	[CR] [LF]
LINE 41	
34 31	41
0D 0A	[CR] [LF]
LINE 42	
34 32	42
0D 0A	[CR] [LF]
LINE 43	
34 33	43
0D 0A	[CR] [LF]
LINE 44	
34 34	44
0D 0A	[CR] [LF]
LINE 45	
34 35	45
0D 0A	[CR] [LF]
LINE 46	
34 36	46
0D 0A	[CR] [LF]
LINE 47	
34 37	47
0D 0A	[CR] [LF]
LINE 48	
34 38	48
0D 0A	[CR] [LF]
LINE 49	
34 39	49
0D 0A	[CR] [LF]
LINE 50	
35 30	50
0D 0A	[CR] [LF]
LINE 51	
35 31	51
0D 0A	[CR] [LF]
LINE 52	
35 32	52
0D 0A	[CR] [LF]
LINE 53	
35 33	53
0D 0A	[CR] [LF]
LINE 54	
35 34	54
0D 0A	[CR] [LF]
LINE 55	
35 35	55
0D 0A	[CR] [LF]
LINE 56	
35 36	56
0D 0A	[CR] [LF]
LINE 57	
35 37	57
0D 0A	[CR] [LF]
LINE 58	
35 38	58
0D 0A	[CR] [LF]
LINE 59	
35 39	59
0D 0A	[CR] [LF]
LINE 60	
36 30	60
0D 0A	[CR] [LF]

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```
0D 0A [CR] [LF]
LINE 61
36 31 61
0D 0A [CR] [LF]
LINE 62
36 32 62
0D 0A [CR] [LF]
LINE 63
36 33 63
0D 0A [CR] [LF]
LINE 64
36 34 64
0D 0A [CR] [LF]
LINE 65
36 35 65
0D 0A [CR] [LF]
LINE 66
36 36 3A 20 4C 61 73 74 20 6C 69 66: Last li
6E 65 20 6F 66 20 74 68 65 20 70 ne of the p
61 67 65 20 2E 20 20 20 20 20 20 age .
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 65 6E
64 d en
```

```
9B 31 20 4B          SHS[ 1]
0D 0C              [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31      12345678901
32 33 34 35 36 37 38 39 30 31 32      23456789012
33 34 35 36 37 38 39 30 31 32 33      34567890123
34 35 36 37 38 39 30 31 32 33 34      45678901234
35 36 37 38 39 30 31 32 33 34 35      56789012345
36 37 38 39 30 31 32 33 34 35 36      67890123456
37 38 39 30 31 32 33 34 35 36 37      78901234567
38 39 30 31 32 33 34 35 36            890123456
0D 0A              [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 31 20      1
20 20 20 20 20 20 20 20 32 20 20      2
20 20 20 20 20 20 20 33 20 20 20      3
20 20 20 20 20 20 34 20 20 20 20      4
20 20 20 20 20 35 20 20 20 20 20      5
20 20 20 20 36 20 20 20 20 20 20      6
20 20 20 37 20 20 20 20 20 20 20      7
20 20 38 20 20 20 20 20 20 20 20      8
0D 0A              [CR] [LF]
LINE 3
0D 0A              [CR] [LF]
LINE 4
20 20 20 20 20 20 20 20 20 20 20      Thi
20 20 20 20 20 20 20 20 54 68 69      s page cont
73 20 70 61 67 65 20 63 6F 6E 74      ains the p
61 69 6E 73 20 20 74 68 65 20 70      arameter SH
61 72 61 6D 65 74 65 72 20 53 48      S 1 ( 12 cp
53 20 31 20 28 20 31 32 20 63 70      i ).
69 20 29 2E
0D 0A              [CR] [LF]
LINE 5
0D 0A              [CR] [LF]
LINE 6
20 20 20 20 20 20 74 68 65 72 65      there
66 6F 72 65 20 74 68 65 20 2D 61      fore the ma
78 69 6D 75 6D 20 6E 75 6D 62 65      ximum numbe
72 20 6F 66 20 63 68 61 72 61 63      r of charac
74 65 72 73 20 70 65 72 20 6C 69      ters per li
6E 65 20 69 73 20 38 36 2E           ne is 86.
0D 0A              [CR] [LF]
LINE 7
0D 0A              [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20      End
20 20 20 20 20 20 20 20 20 20 20      on the page
6F 66 20 74 68 65 20 70 61 67 65
```

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```
9B 32 20 4B          SHS[ 2]
0D 0C                [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31    12345678901
32 33 34 35 36 37 38 39 30 31 32    23456789012
33 34 35 36 37 38 39 30 31 32 33    34567890123
34 35 36 37 38 39 30 31 32 33 34    45678901234
35 36 37 38 39 30 31 32 33 34 35    56789012345
36 37 38 39 30 31 32 33 34 35 36    67890123456
37 38 39 30 31 32 33 34 35 36 37    78901234567
38 39 30 31 32 33 34 35 36 37 38    89012345678
39 30 31 32 33 34 35 36 37 38 39    90123456789
30 31 32 33 34 35 36 37 38          012345678
0D 0A                [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 31 20    1
20 20 20 20 20 20 20 20 32 20 20    2
20 20 20 20 20 20 20 33 20 20 20    3
20 20 20 20 20 34 20 20 20 20 20    4
20 20 20 20 35 20 20 20 20 20 20    5
20 20 20 20 36 20 20 20 20 20 20    6
20 20 20 37 20 20 20 20 20 20 20    7
20 20 38 20 20 20 20 20 20 20 20    8
20 39 20 20 20 20 20 20 20 20 20    9
30                                      0
0D 0A                [CR] [LF]
LINE 3
0D 0A                [CR] [LF]
LINE 4
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 54 68 69
73 20 70 61 67 65 20 63 6F 6E 74
61 69 6E 73 20 20 74 68 65 20 70
61 72 61 6D 65 74 65 72 20 53 48
53 20 32 20 28 20 31 35 20 63 70
69 20 29 2E
0D 0A                [CR] [LF]
LINE 5
0D 0A                [CR] [LF]
LINE 6
20 20 20 20 20 20 74 68 65 72 65
66 6F 72 65 20 74 68 65 20 2D 61
78 69 6D 75 6D 20 6E 75 6D 62 65
72 20 6F 66 20 63 68 61 72 61 63
74 65 72 73 20 70 65 72 20 6C 69
6E 65 20 69 73 20 31 30 38
0D 0A                [CR] [LF]
LINE 7
0D 0A                [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 45 6E 64 20
6F 66 20 74 68 65 20 70 61 67 65
                                End
                                of the page
```

0D 0C	[CR] [FF]
LINE 1	
31	1
0D 0A	[CR] [LF]
LINE 2	
32	2
0D 0A	[CR] [LF]
LINE 3	
33	3
0D 0A	[CR] [LF]
LINE 4	
34 20 20 20 20 20 20 20 20 20	4
20 20 20 20 20 20 20 20 20 20	
57 72 6F 6E 67 20 66 6F 72 6D 61	Wrong forma
74 20 56 45 52 54 49 43 41 4C 20	t VERTICAL
54 45 4C 45 54 45 58	TELETEX
0D 0A	[CR] [LF]
LINE 5	
35 20 20 20 20 20 20 20 20 20	5
20 20 20 20 20 20 20 20 20 2D	-
76 65 72 74 69 63 61 6C 20 6C 69	vertical li
6E 65 20 73 70 61 63 69 6E 67 3A	ne spacing:
20 36 20 6C 69 6E 65 73 20 70 65	6 lines pe
72 20 69 6E 63 68 20 28 53 56 53	r inch (SVS
30 29	0)
0D 0A	[CR] [LF]
LINE 6	
36 20 20 20 20 20 20 20 20 20	6
20 20 20 20 20 20 20 20 20 2D	-
6E 75 6D 62 65 72 20 6F 66 20 6C	number of l
69 6E 65 73 3A 20 35 35 2B 31 20	ines: 55+1
2B 20 43 49 4C	+ CIL
0D 0A	[CR] [LF]
LINE 7	
37	7
0D 0A	[CR] [LF]
LINE 8	
38	8
0D 0A	[CR] [LF]
LINE 9	
39	9
0D 0A	[CR] [LF]
LINE 10	
31 30	10
0D 0A	[CR] [LF]
LINE 11	
31 31	11
0D 0A	[CR] [LF]
LINE 12	
31 32	12
0D 0A	[CR] [LF]
LINE 13	
31 33	13
0D 0A	[CR] [LF]
LINE 14	
31 34	14
0D 0A	[CR] [LF]
LINE 15	
31 35	15
0D 0A	[CR] [LF]
LINE 16	
31 36	16
0D 0A	[CR] [LF]
LINE 17	
31 37	17

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0D 0A		[CR] [LF]
LINE 18		
31 38		18
0D 0A		[CR] [LF]
LINE 19		
31 39		19
0D 0A		[CR] [LF]
LINE 20		
32 30		20
0D 0A		[CR] [LF]
LINE 21		
32 31		21
0D 0A		[CR] [LF]
LINE 22		
32 32		22
0D 0A		[CR] [LF]
LINE 23		
32 33		23
0D 0A		[CR] [LF]
LINE 24		
32 34		24
0D 0A		[CR] [LF]
LINE 25		
32 35		25
0D 0A		[CR] [LF]
LINE 26		
32 36		26
0D 0A		[CR] [LF]
LINE 27		
32 37		27
0D 0A		[CR] [LF]
LINE 28		
32 38		28
0D 0A		[CR] [LF]
LINE 29		
32 39		29
0D 0A		[CR] [LF]
LINE 30		
33 30		30
0D 0A		[CR] [LF]
LINE 31		
33 31		31
0D 0A		[CR] [LF]
LINE 32		
33 32		32
0D 0A		[CR] [LF]
LINE 33		
33 33		33
0D 0A		[CR] [LF]
LINE 34		
33 34		[CR] [LF]
0D 0A		[CR] [LF]
LINE 35		
33 35		35
0D 0A		[CR] [LF]
LINE 36		
33 36		36
0D 0A		[CR] [LF]
LINE 37		
33 37		37
0D 0A		[CR] [LF]
LINE 38		
33 38		38

0D 0A	[CR] [LF]
LINE 39	
33 39	39
0D 0A	[CR] [LF]
LINE 40	
34 30	40
0D 0A	[CR] [LF]
LINE 41	
34 31	41
0D 0A	[CR] [LF]
LINE 42	
34 32	42
0D 0A	[CR] [LF]
LINE 43	
34 33	43
0D 0A	[CR] [LF]
LINE 44	
34 34	44
0D 0A	[CR] [LF]
LINE 45	
34 35	45
0D 0A	[CR] [LF]
LINE 46	
34 36	46
0D 0A	[CR] [LF]
LINE 47	
34 37	47
0D 0A	[CR] [LF]
LINE 48	
34 38	48
0D 0A	[CR] [LF]
LINE 49	
34 39	49
0D 0A	[CR] [LF]
LINE 50	
35 30	50
0D 0A	[CR] [LF]
LINE 51	
35 31	51
0D 0A	[CR] [LF]
LINE 52	
35 32	52
0D 0A	[CR] [LF]
LINE 53	
35 33	53
0D 0A	[CR] [LF]
LINE 54	
35 34	[CR] [LF]
0D 0A	
LINE 55	
35 35	55
0D 0A	[CR] [LF]
LINE 56	
35 36 3A 20 4C 61 73 74 20 6C 69	65: Last li
6E 65 20 6F 66 20 74 68 65 20 70	ne of the p
61 67 65 20 2E 20 20 20 20 20	age .
20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 22 20 20 20 20	
20 20 20 20 20 20 20 20 20 65 6E	
64	en
	d

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```
0D 0C [CR] [FF]
LINE 1
31 32 33 34 35 36 37 38 39 30 31 12345678901
32 33 34 35 36 37 38 39 30 31 32 23456789012
33 34 35 36 37 38 39 30 31 32 33 34567890123
34 35 36 37 38 39 30 31 32 33 34 45678901234
35 36 37 38 39 30 31 32 33 34 35 56789012345
36 37 38 39 30 31 32 33 34 35 36 67890123456
37 38 39 30 31 32 33 7890123
0D 0A [CR] [LF]
LINE 2
20 20 20 20 20 20 20 20 20 31 20 1
20 20 20 20 20 20 20 20 32 20 20 2
20 20 20 20 20 20 20 33 20 20 20 3
20 20 20 20 20 34 20 20 20 20 4
20 20 20 20 20 35 20 20 20 20 5
20 20 20 20 36 20 20 20 20 20 6
20 20 20 37 20 7
0D 0A [CR] [LF]
LINE 3

0D 0A [CR] [LF]
LINE 4
20 20 20 20 20 54 68 69 73 20 70 This p
61 67 65 20 63 6F 6E 74 61 69 6E age contain
73 20 20 74 6F 6F 20 6D 61 6E 79 s too many
20 63 68 61 72 61 63 74 65 72 73 characters
20 69 6E 20 74 68 65 20 66 69 72 in the fir
73 74 20 6C 69 6E 65 20 28 37 33 st line (73
29 2E ).
0D 0A [CR] [LF]
LINE 5
20 20 20 20 20 20 20 20 20 20 20
20 20 20 54 68 65 20 70 61 72 61 The para
6D 65 74 65 72 20 53 48 53 20 30 meter SHS 0
20 28 20 31 30 20 63 70 69 20 29 ( 10 cpi )
20 61 6E 64 20 74 68 65 72 65 66 and theref
6F 72 65 ore
0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 20 20 20 20 20
20 74 68 65 20 6D 61 78 69 6D 75 the maximu
6D 20 6E 75 6D 62 65 72 20 6F 66 m number of
20 63 68 61 72 61 63 74 65 72 73 characters
20 70 65 72 20 6C 69 6E 65 20 69 per line i
73 20 37 32 2E s 72.
0D 0A [CR] [LF]
LINE 7

0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 45 6E 64 20 End
6F 66 20 74 68 65 20 70 61 67 65 of the page
```

0D 0C [CR] [FF]
LINE 1
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 50 4C 44 8B -----PLD[PLD]
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 50 4C 55 8C -----PLU[PLU]
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 50 4C 55 8C -----PLU[PLU]
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D -----

0D 0A [CR] [LF]
LINE 2
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D -----

0D 0A [CR] [LF]
LINE 3

0D 0A [CR] [LF]
LINE 4

0D 0A [CR] [LF]
LINE 5
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 54 58 20 74 65 73 TTX tes
74 20 64 6F 63 75 6D 65 6E 74 2E t document.

0D 0A [CR] [LF]
LINE 6

0D 0A [CR] [LF]
LINE 7
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 68 65 20 63 6F 6E The con
74 65 6E 74 20 6F 66 20 74 68 69 tent of thi
73 20 64 6F 63 75 6D 65 6E 74 20 s document
69 73 20 69 6E 76 61 6C 69 64 2E is invalid.

0D 0A [CR] [LF]
LINE 8
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 68 65 20 6E 75 6D The num
62 65 72 20 6F 66 20 50 4C 44 20 ber of PLD
61 6E 64 20 50 4C 55 20 64 6F 65 and PLU doe
73 20 6E 6F 74 20 6D 61 74 63 68 s not match
2E .

0D 0A [CR] [LF]
LINE 9
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 28 6F 6E 63 65 20 50 4C 44 20 (once PLD
61 6E 64 20 74 77 69 63 65 20 50 and twice P
4C 55 29 LU)
0D 0A [CR] [LF]

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```
0D 0C [CR] [FF]
LINE 1
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D -----
0D 0A [CR] [LF]
LINE 2
2A 2A 2A 2A 2A 2A 2A 2A 2A 50 4C 55 *****PLU
8C 2A 2A 2A 2A 2A [PLU] ****
2A 2A 2A 50 4C 55 2A 2A 2A 2A 2A ***PLU*****
2A 2A 2A 50 4C 55 2A 2A 50 4C 44 ***PLU**PLD
8B 2A 2A 2A 2A 2A [PLD] *****
2A 2A 2A 50 4C 44 8B ***PLD[PLD]
2A 2A 2A 2A 2A 2A 2A 2A 2A 50 4C 44 *****PLD
2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A *****
2A 8C *[PLU]
0D 0A [CR] [LF]
LINE 3
8B 2D 2D 2D 2D 2D [PLD] -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D -----
2D 8C -[PLU]
0D 0A [CR] [LF]
LINE 4
0D 0A [CR] [LF]
LINE 5
0D 0A [CR] [LF]
LINE 6
0D 0A [CR] [LF]
LINE 7
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 54 54 58 20 74 65 TTX te
73 74 20 64 6F 63 75 6D 65 6E 74 st document
0D 0A [CR] [LF]
LINE 8
0D 0A [CR] [LF]
LINE 9
20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 68 65 20 63 6F 6E The con
74 65 6E 74 20 6F 66 20 74 68 69 tent of thi
73 20 64 6F 63 75 6D 65 6E 74 20 s document
69 73 20 69 6E 76 61 6C 69 64 2E is invalid.
0D 0A [CR] [LF]
LINE 10
0D 0A [CR] [LF]
```

LINE 11

20 20 20 20 20 20 20 20 20 20 20
20 20 49 6E 63 6F 72 72 65 63 74
20 75 73 65 20 6F 66 20 73 65 71
75 65 6E 63 65 20 6F 66 20 50 4C
44 20 28 72 65 73 70 2E 50 4C 55
29 2E
0D 0A

Incorrect
use of sequence of PLD (resp. PLU
).
[CR] [LF]

LINE 12

20 20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20 28
33 20 74 69 6D 65 73 20 50 4C 55
20 61 6E 64 20 33 20 74 69 6D 65
73 20 50 4C 44 29

(
3 times PLU
and 3 times PLD)

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0D 0A	[CR] [LF]
20 28 35 20 2C 31 32 29 20 69 6E	(5 ,12) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 5C	able:\
0D 0A	[CR] [LF]
LINE 12	
32 2E 20 50 6F 73 69 74 69 6F 6E	2. Position
20 28 35 20 2C 31 34 29 20 69 6E	(5 ,14) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 5E	able:^
0D 0A	[CR] [LF]
LINE 13	
33 2E 20 50 6F 73 69 74 69 6F 6E	3. Position
20 28 36 20 2C 30 20 29 20 69 6E	(6 ,0) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 60	able:'
0D 0A	[CR] [LF]
LINE 14	
34 2E 20 50 6F 73 69 74 69 6F 6E	4. Position
20 28 37 20 2C 31 31 29 20 69 6E	(7 ,11) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 7B	able:{
0D 0A	[CR] [LF]
LINE 15	
35 2E 20 50 6F 73 69 74 69 6F 6E	5. Position
20 28 37 20 2C 31 33 29 20 69 6E	(7 ,13) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 7D	able:}
0D 0A	[CR] [LF]
LINE 16	
36 2E 20 50 6F 73 69 74 69 6F 6E	6. Position
20 28 37 20 2C 31 34 29 20 69 6E	(7 ,14) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 7E	able:-
0D 0A	[CR] [LF]
LINE 17	
0D 0A	[CR] [LF]
LINE 18	
50 6F 73 69 74 69 6F 6E 20 69 6E	Position in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 2C 20 6E 6F 74 20 62	able, not b
65 6C 6F 6E 67 69 6E 67 20 74 6F	elonging to
20 74 68 65 20 67 72 61 70 68 69	the graphi
63 20 63 68 61 72 61 63 74 65 72	c character
20 6F 72	or
0D 0A	[CR] [LF]
LINE 19	
63 6F 6E 74 72 6F 6C 20 66 75 6E	control fun
63 74 69 6F 6E 20 73 65 74 73 2E	ction sets.
0D 0A	[CR] [LF]
LINE 20	
0D 0A	[CR] [LF]
LINE 21	
31 2E 20 50 6F 73 69 74 69 6F 6E	1. Position
20 28 37 20 2C 31 35 29 20 69 6E	(7 ,15) in
20 74 68 65 20 63 6F 64 64 20 74	the code t
61 62 6C 65 3A 7F	able:?

0D 0C LINE 1	[CR] [FF]
0D 0A LINE 2	[CR] [LF]
0D 0A LINE 3	[CR] [LF]
0D 0A LINE 4	[CR] [LF]
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 54 54 58 20 74 65 73 74 20 64 6F 63 75 6D 65 6E 74	TT X test docu ment
0D 0A LINE 5	[CR] [LF]
0D 0A LINE 6	[CR] [LF]
20 20 20 20 20 20 20 20 20 20 20 20 20 20 54 68 65 20 63 6F 6E 74 65 6E 74 20 6F 66 20 74 68 69 73 20 64 6F 63 75 6D 65 6E 74 20 69 73 20 69 6E 76 61 6C 69 64 2E	The con tent of thi s document is invalid.
0D 0A LINE 7	[CR] [LF]
0D 0A LINE 8	[CR] [LF]
0D 0A LINE 9	[CR] [LF]
55 6E 64 65 66 69 6E 65 64 20 67 72 61 70 68 69 63 20 63 68 61 72 61 63 74 65 72 73 20 66 72 6F 6D 20 74 68 65 20 73 75 70 70 6C 65 6D 65 6E 74 61 72 79 20 63 68 61 72 61 63 74 65 72 20 73 65 74 2E	Undefined g raphic char acters from the supple mentary cha racter set.
0D 0A LINE 10	[CR] [LF]
0D 0A LINE 11	[CR] [LF]
31 2E 20 50 6F 73 69 74 69 6F 6E 20 28 31 30 2C 39 20 29 20 69 6E 20 74 68 65 20 63 6F 64 65 20 74 61 62 6C 65 3A A9	1. Position (10,9) in the code t able:-
0D 0A LINE 12	[CR] [LF]
32 2E 20 50 6F 73 69 74 69 6F 6E 20 28 31 30 2C 31 32 29 20 69 6E 20 74 68 65 20 63 6F 64 65 20 74 61 62 6C 65 3A AC	2. Position (10,12) in the code t able:-
0D 0A LINE 13	[CR] [LF]
33 2E 20 50 6F 73 69 74 69 6F 6E 20 28 31 30 2C 31 35 29 20 69 6E 20 74 68 65 20 63 6F 64 65 20 74 61 62 6C 65 3A AF	3. Position (10,15) in the code t able:£

0D 0A	[CR] [LF]
LINE 14	
34 2E 20 50 6F 73 69 74 69 6F 6E	4. Position
20 28 31 32 2C 30 20 29 20 69 6E	(12,0) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A C0	able:û
0D 0A	[CR] [LF]
LINE 15	
35 2E 20 50 6F 73 69 74 69 6F 6E	5. Position
20 28 31 33 2C 30 20 29 20 69 6E	(13,0) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D0	able:Å
0D 0A	[CR] [LF]
LINE 16	
36 2E 20 50 6F 73 69 74 69 6F 6E	6. Position
20 28 31 33 2C 31 20 29 20 69 6E	(13,1) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D1	able:î
0D 0A	[CR] [LF]
LINE 17	
37 2E 20 50 6F 73 69 74 69 6F 6E	7. Position
20 28 31 33 2C 32 20 29 20 69 6E	(13,2) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D2	able:ø
0D 0A	[CR] [LF]
LINE 18	
38 2E 20 50 6F 73 69 74 69 6F 6E	8. Position
20 28 31 33 2C 33 20 29 20 69 6E	(13,3) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D3	able:Æ
0D 0A	[CR] [LF]
LINE 19	
39 2E 20 50 6F 73 69 74 69 6F 6E	9. Position
20 28 31 33 2C 34 20 29 20 69 6E	(13,4) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D4	able:â
0D 0A	[CR] [LF]
LINE 20	
31 30 2E 50 6F 73 69 74 69 6F 6E	10.Position
20 28 31 33 2C 35 20 29 20 69 6E	(13,5) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D5	able:ï
0D 0A	[CR] [LF]
LINE 21	
31 31 2E 50 6F 73 69 74 69 6F 6E	11.Position
20 28 31 33 2C 36 20 29 20 69 6E	(13,6) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D6	able:ø
0D 0A	[CR] [LF]
LINE 22	
31 32 2E 50 6F 73 69 74 69 6F 6E	12.Position
20 28 31 33 2C 37 20 29 20 69 6E	(13,7) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D7	able:æ
0D 0A	[CR] [LF]
LINE 23	
31 33 2E 50 6F 73 69 74 69 6F 6E	13.Position
20 28 31 33 2C 38 20 29 20 69 6E	(13,8) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D8	able:#
0D 0A	[CR] [LF]
LINE 24	
31 34 2E 50 6F 73 69 74 69 6F 6E	14.Position
20 28 31 33 2C 39 20 29 20 69 6E	(13,9) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A D9	able:—

OD 0A [CR] [LF]
LINE 25
31 35 2E 50 6F 73 69 74 69 6F 6E 15.Position
20 28 31 33 2C 31 30 29 20 69 6E (13,10) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A DA able:
OD 0A [CR] [LF]
LINE 26
31 36 2E 50 6F 73 69 74 69 6F 6E 16.Position
20 28 31 33 2C 31 31 29 20 69 6E (13,11) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A DB able:Û
OD 0A [CR] [LF]
LINE 27
31 37 2E 50 6F 73 69 74 69 6F 6E 17.Position
20 28 31 33 2C 31 32 29 20 69 6E (13,12) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 3A DC able:É
OD 0A [CR] [LF]
LINE 28
31 38 2E 50 6F 73 69 74 69 6F 6E 18.Position
20 28 31 33 2C 31 33 29 20 69 6E (13,13) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A DD able:i
OD 0A [CR] [LF]
LINE 29
31 39 2E 50 6F 73 69 74 69 6F 6E 19.Position
20 28 31 33 2C 31 34 29 20 69 6E (13,14) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A DE able:ß
OD 0A [CR] [LF]
LINE 30
32 30 2E 50 6F 73 69 74 69 6F 6E 20.Position
20 28 31 33 2C 31 35 29 20 69 6E (13,15) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A DF able:ô
OD 0A [CR] [LF]
LINE 31
32 31 2E 50 6F 73 69 74 69 6F 6E 21.Position
20 28 31 34 2C 35 20 29 20 69 6E (14,5) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A E5 able:I
OD 0A [CR] [LF]
LINE 32

OD 0A [CR] [LF]
LINE 33

OD 0A [CR] [LF]
LINE 34

OD 0A [CR] [LF]
LINE 35
50 6F 73 69 74 69 6F 6E 73 20 69 Positions i
6E 20 74 68 65 20 63 6F 64 65 20 n the code
74 61 62 6C 65 2C 20 6E 6F 74 20 table, not
62 65 6C 6F 6E 67 69 6E 67 20 74 belonging t
6F 20 74 68 65 20 67 72 61 70 68 o the graph
69 63 20 63 68 61 72 61 63 74 65 ic characte
72 20 6F 72 r or
OD 0A [CR] [LF]
LINE 36
63 6F 6E 74 72 6F 6C 20 66 75 6E control fun
63 74 69 6F 6E 20 73 65 74 ction set
OD 0A [CR] [LF]
LINE 37

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0D 0A	[CR[[LF]
LINE 38	
31 2E 20 50 6F 73 69 74 69 6F 6E	1. Position
20 28 31 30 2C 30 20 29 20 69 6E	(10,0) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A A0	able:.
0D 0A	[CR] [LF]
LINE 39	
32 2E 20 50 6F 73 69 74 69 6F 6E	2. Position
20 28 31 35 2C 31 35 29 20 69 6E	(15,15) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A FF	able:.

0D 0C [CR] [FF]
LINE 1

0D 0A [CR] [LF]
LINE 2

0D 0A [CR] [LF]
LINE 3

0D 0A [CR] [LF]
LINE 4
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 54 54 58 20 74 65 TTX te
73 74 20 64 6F 63 75 6D 65 6E 74 st document

0D 0A [CR] [LF]
LINE 5

0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 68 65 20 63 6F 6E The con
74 65 6E 74 20 6F 66 20 74 68 69 tent of thi
73 20 64 6F 63 75 6D 65 6E 74 20 s document
69 73 20 69 6E 76 61 6C 69 64 2E is invalid.

0D 0A [CR] [LF]
LINE 7

0D 0A [CR] [LF]
LINE 8

0D 0A [CR] [LF]
LINE 9
20 20 20 55 6E 64 65 66 69 6E 65 Undefine
64 20 63 6F 6E 74 72 6F 6C 20 66 d control f
75 6E 63 74 69 6F 6E 20 66 72 6F unction fro
6D 20 74 68 65 20 70 72 69 6D 61 m the prima
72 79 20 63 6F 6E 74 72 6F 6C 20 ry control
66 75 6E 63 74 69 6F 6E 20 73 65 function se
74 2E t.

0D 0A [CR] [LF]
LINE 10

0D 0A [CR] [LF]
LINE 11

0D 0A [CR] [LF]
LINE 12
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20

0D 0A [CR] [LF]
LINE 13

0D 0A [CR] [LF]
LINE 14
31 2E 20 50 6F 73 69 74 69 6F 6E 1. Position
20 28 30 20 2C 30 20 29 20 69 6E (0 ,0) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 00 able:.

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0D 0A	[CR] [LF]
LINE 15	
32 2E 20 50 6F 73 69 74 69 6F 6E	2. Position
20 28 30 20 2C 31 20 29 20 69 6E	(0 ,1) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 01	able:.
0D 0A	[CR] [LF]
LINE 16	
33 2E 20 50 6F 73 69 74 69 6F 6E	3. Position
20 28 30 20 2C 32 20 29 20 69 6E	(0 ,2) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 02	able:.
0D 0A	[CR] [LF]
LINE 17	
34 2E 20 50 6F 73 69 74 69 6F 6E	4. Position
20 28 30 20 2C 33 20 29 20 69 6E	(0 ,3) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 03	able:.
0D 0A	[CR] [LF]
LINE 18	
35 2E 20 50 6F 73 69 74 69 6F 6E	5. Position
20 28 30 20 2C 34 20 29 20 69 6E	(0 ,4) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 04	able:.
0D 0A	[CR] [LF]
LINE 19	
36 2E 20 50 6F 73 69 74 69 6F 6E	6. Position
20 28 30 20 2C 34 20 29 20 69 6E	(0 ,5) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 05	able:.
0D 0A	[CR] [LF]
LINE 20	
37 2E 20 50 6F 73 69 74 69 6F 6E	7. Position
20 28 30 20 2C 36 20 29 20 69 6E	(0 ,6) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 06	able:.
0D 0A	[CR] [LF]
LINE 21	
38 2E 20 50 6F 73 69 74 69 6F 6E	8. Position
20 28 30 20 2C 37 20 29 20 69 6E	(0 ,7) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 07	able:.
0D 0A	[CR] [LF]
LINE 22	
39 2E 20 50 6F 73 69 74 69 6F 6E	9. Position
20 28 30 20 2C 39 20 29 20 69 6E	(0 ,9) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 09	able:.
0D 0A	[CR] [LF]
0D 0A	[CR] [LF]
LINE 23	
31 30 2E 50 6F 73 69 74 69 6F 6E	10.Position
20 28 30 20 2C 31 31 29 20 69 6E	(0 ,11) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 0B	able:.
0D 0A	[CR] [LF]
LINE 24	
31 31 2E 50 6F 73 69 74 69 6F 6E	11.Position
20 28 31 20 2C 30 20 29 20 69 6E	(1 ,0) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 10	able:.

0D 0A		[CR] [LF]
LINE 25		
31 32 2E 50 6F 73 69 74 69 6F 6E		12.Position
20 28 31 20 2C 31 20 29 20 69 6E		(1 ,1) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 11		able:.
0D 0A		[CR] [LF]
LINE 26		
31 33 2E 50 6F 73 69 74 69 6F 6E		13.Position
20 28 31 20 2C 32 20 29 20 69 6E		(1 ,2) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 12		able:.
0D 0A		[CR] [LF]
LINE 27		
31 34 2E 50 6F 73 69 74 69 6F 6E		14.Position
20 28 31 20 2C 33 20 29 20 69 6E		(1 ,3) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 13		able:.
0D 0A		[CR] [LF]
LINE 28		
31 35 2E 50 6F 73 69 74 69 6F 6E		15.Position
20 28 31 20 2C 34 20 29 20 69 6E		(1 ,4) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 14		able:.
0D 0A		[CR] [LF]
LINE 29		
31 36 2E 50 6F 73 69 74 69 6F 6E		16.Position
20 28 31 20 2C 35 20 29 20 69 6E		(1 ,5) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 15		able:.
0D 0A		[CR] [LF]
LINE 30		
31 37 2E 50 6F 73 69 74 69 6F 6E		17.Position
20 28 31 20 2C 36 20 29 20 69 6E		(1 ,6) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 16		able:.
LINE 31		
31 38 2E 50 6F 73 69 74 69 6F 6E		18.Position
20 28 31 20 2C 31 20 29 20 69 6E		(1 ,7) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 17		able:.
0D 0A		[CR] [LF]
LINE 32		
31 39 2E 50 6F 73 69 74 69 6F 6E		19.Position
20 28 31 20 2C 38 20 29 20 69 6E		(1 ,8) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 18		able:.
0D 0A		[CR] [LF]
LINE 33		
32 30 2E 50 6F 73 69 74 69 6F 6E		20.Position
20 28 31 20 2C 31 32 29 20 69 6E		(1 ,12) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 1C		able:.
0D 0A		[CR] [LF]
LINE 34		
32 31 2E 50 6F 73 69 74 69 6F 6E		21.Position
20 28 31 20 2C 31 34 29 20 69 6E		(1 ,14) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 1E		able:.
0D 0A		[CR] [LF]
LINE 35		
32 32 2E 50 6F 73 69 74 69 6F 6E		22.Position
20 28 31 20 2C 31 35 29 20 69 6E		(1 ,15) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 1F		able:.

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0D 0A [CR] [LF]
LINE 36

0D 0A [CR] [LF]
LINE 37

0D 0A [CR] [LF]
LINE 38

0D 0C [CR] [FF]
LINE 1

0D 0A [CR] [LF]
LINE 2

0D 0A [CR] [LF]
LINE 3

0D 0A [CR] [LF]
LINE 4
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 54 54 58 20 74 65 TTX te
73 74 20 64 6F 63 75 6D 65 6E 74 st document

0D 0A [CR] [LF]
LINE 5

0D 0A [CR] [LF]
LINE 6
20 20 20 20 20 20 20 20 20 20
20 20 20 20 54 68 65 20 63 6F 6E The con
74 65 6E 74 20 6F 66 20 74 68 69 tent of thi
73 20 64 6F 63 75 6D 65 6E 74 20 s document
69 73 20 69 6E 76 61 6C 69 64 2E is invalid.

0D 0A [CR] [LF]
LINE 7

0D 0A [CR] [LF]
LINE 8

0D 0A [CR] [LF]
LINE 9
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 55 6E 64 65 Unde
66 69 6E 65 64 20 63 6F 6E 74 72 fined contr
6F 6C 20 66 75 6E 63 74 69 6F 6E ol function
20 66 72 6F 6D 20 74 68 65 from the
0D 0A [CR] [LF]
LINE 10
20 20 20 20 20 20 20 20 20 20
20 20 20 20 20 20 20 73 75 70 70 supp
6C 65 6D 65 6E 74 61 72 79 20 63 lementary c
6F 6E 74 72 6F 6C 20 66 75 6E 63 ontrol func
74 69 6F 6E 20 73 65 74 2E tion set.
0D 0A [CR] [LF]
LINE 11

0D 0A [CR] [LF]
LINE 12

0D 0A [CR] [LF]
LINE 13
31 2E 20 50 6F 73 69 74 69 6F 6E 1. Position
20 28 38 20 2C 30 20 29 20 69 6E (8 ,0) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 80 able:.
0D 0A [CR] [LF]
LINE 14
32 2E 20 50 6F 73 69 74 69 6F 6E 2. Position
20 28 38 20 2C 31 20 29 20 69 6E (8 ,1) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 81 able:.

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0D 0A		[CR] [LF]
LINE 15		
33 2E 20 50 6F 73 69 74 69 6F 6E		3. Position
20 28 38 20 2C 32 20 29 20 69 6E		(8 ,2) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 82		able:.
0D 0A		[CR] [LF]
LINE 16		
34 2E 20 50 6F 73 69 74 69 6F 6E		4. Position
20 28 38 20 2C 33 20 29 20 69 6E		(8 ,3) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 83		able:.
0D 0A		[CR] [LF]
LINE 17		
35 2E 20 50 6F 73 69 74 69 6F 6E		5. Position
20 28 38 20 2C 34 20 29 20 69 6E		(8 ,4) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 84		able:.
0D 0A		[CR] [LF]
LINE 18		
36 2E 20 50 6F 73 69 74 69 6F 6E		6. Position
20 28 38 20 2C 34 20 29 20 69 6E		(8 ,5) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 85		able:.
0D 0A		[CR] [LF]
LINE 19		
37 2E 20 50 6F 73 69 74 69 6F 6E		7. Position
20 28 38 20 2C 36 20 29 20 69 6E		(8 ,6) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 86		able:.
0D 0A		[CR] [LF]
LINE 20		
38 2E 20 50 6F 73 69 74 69 6F 6E		8. Position
20 28 38 20 2C 37 20 29 20 69 6E		(8 ,7) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 87		able:.
0D 0A		[CR] [LF]
LINE 21		
39 2E 20 50 6F 73 69 74 69 6F 6E		9. Position
20 28 38 20 2C 38 20 29 20 69 6E		(8 ,8) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 88		able:.
0D 0A		[CR] [LF]
LINE 22		
31 30 2E 50 6F 73 69 74 69 6F 6E		10.Position
20 28 38 20 2C 39 20 29 20 69 6E		(8 ,9) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 89		able:.
0D 0A		[CR] [LF]
LINE 23		
31 31 2E 50 6F 73 69 74 69 6F 6E		11.Position
20 28 38 20 2C 31 30 29 20 69 6E		(8 ,10) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 8A		able:.
0D 0A		[CR] [LF]
LINE 24		
31 32 2E 50 6F 73 69 74 69 6F 6E		12.Position
20 28 38 20 2C 31 34 29 20 69 6E		(8 ,14) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 8E		able:.
0D 0A		[CR] [LF]
LINE 25		
31 33 2E 50 6F 73 69 74 69 6F 6E		13.Position
20 28 39 20 2C 30 20 29 20 69 6E		(9 ,0) in
20 74 68 65 20 63 6F 64 65 20 74		the code t
61 62 6C 65 3A 90		able:.

0D 0A	[CR] [LF]
LINE 26	
31 34 2E 50 6F 73 69 74 69 6F 6E	14.Position
20 28 39 20 2C 31 20 29 20 69 6E	(9 ,1) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 91	able:.
0D 0A	[CR] [LF]
LINE 27	
35 34 2E 50 6F 73 69 74 69 6F 6E	15.Position
20 28 39 20 2C 32 20 29 20 69 6E	(9 ,2) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 92	able:.
0D 0A	[CR] [LF]
LINE 28	
31 36 2E 50 6F 73 69 74 69 6F 6E	16.Position
20 28 39 20 2C 33 20 29 20 69 6E	(9 ,3) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 93	able:.
0D 0A	[CR] [LF]
LINE 29	
31 37 2E 50 6F 73 69 74 69 6F 6E	17.Position
20 28 39 20 2C 34 20 29 20 69 6E	(9 ,4) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 94	able:.
0D 0A	[CR] [LF]
LINE 30	
31 38 2E 50 6F 73 69 74 69 6F 6E	18.Position
20 28 39 20 2C 35 20 29 20 69 6E	(9 ,5) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 95	able:.
0D 0A	[CR] [LF]
LINE 31	
31 39 2E 50 6F 73 69 74 69 6F 6E	19.Position
20 28 39 20 2C 36 20 29 20 69 6E	(9 ,6) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 96	able:.
0D 0A	[CR] [LF]
LINE 32	
32 30 2E 50 6F 73 69 74 69 6F 6E	20.Position
20 28 39 20 2C 37 20 29 20 69 6E	(9 ,7) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 97	able:.
0D 0A	[CR] [LF]
LINE 33	
32 31 2E 50 6F 73 69 74 69 6F 6E	21.Position
20 28 39 20 2C 38 20 29 20 69 6E	(9 ,8) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 98	able:.
0D 0A	[CR] [LF]
LINE 34	
32 32 2E 50 6F 73 69 74 69 6F 6E	22.Position
20 28 39 20 2C 39 20 29 20 69 6E	(9 ,9) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 99	able:.
0D 0A	[CR] [LF]
LINE 35	
32 33 2E 50 6F 73 69 74 69 6F 6E	23.Position
20 28 39 20 2C 31 30 29 20 69 6E	(9 ,10) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 9A	able:.
0D 0A	[CR] [LF]
LINE 36	
32 32 2E 50 6F 73 69 74 69 6F 6E	22.Position
20 28 39 20 2C 31 32 29 20 69 6E	(9 ,12) in
20 74 68 65 20 63 6F 64 65 20 74	the code t
61 62 6C 65 3A 9C	able:.

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```
0D 0A [CR] [LF]
LINE 37
32 35 2E 50 6F 73 69 74 69 6F 6E 25.Position
20 28 39 20 2C 31 33 29 20 69 6E (9 ,13) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 9D able:
0D 0A [CR] [LF]
LINE 38
32 36 2E 50 6F 73 69 74 69 6F 6E 26.Position
20 28 39 20 2C 31 34 29 20 69 6E (9 ,14) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 9E able:
0D 0A [CR] [LF]
LINE 39
32 37 2E 50 6F 73 69 74 69 6F 6E 27.Position
20 28 39 20 2C 31 35 29 20 69 6E (9 ,15) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 9F able:
0D 0A [CR] [LF]
LINE 40

0D 0A [CR] [LF]
LINE 41

0D 0A [CR] [LF]
LINE 42

0D 0A [CR] [LF]
LINE 43
43 6F 6E 74 72 6F 6C 20 66 75 6E Control fun
63 74 69 6F 6E 20 6E 6F 74 20 75 ction not u
73 65 64 20 69 6E 20 74 68 65 20 sed in the
62 61 73 69 63 20 74 65 6C 65 74 basic telet
65 78 2E ex.
0D 0A [CR] [LF]
LINE 44

0D 0A [CR] [LF]
LINE 45
31 2E 20 50 6F 73 69 74 69 6F 6E 1. Position
20 28 38 20 2C 31 33 29 20 69 6E (8 ,13) in
20 74 68 65 20 63 6F 64 65 20 74 the code t
61 62 6C 65 3A 8D 20 3D 52 4C 46 able: . =RLF

0D 0A [CR] [LF]
```

0D 0C	[CR] [FF]
LINE 1	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
54 68 69 73 20 69 73 20 61 20 6D	This is a m
6F 6E 69 74 6F 72 20 64 6F 63 75	onitor docu
6D 65 6E 74	ment
0D 0A	[CR] [LF]
LINE 2	
0D 0A	[CR] [LF]
LINE 3	
63 68 65 63 6B 3A	check:
0D 0A	[CR] [LF]
LINE 4	
54 68 61 74 20 69 66 20 61 63 63	That if acc
65 70 74 65 64 20 74 68 65 20 64	epted the d
6F 63 75 6D 65 6E 74 20 69 73 20	ocument is
6E 6F 74 20 70 72 65 73 65 6E 74	not present
65 64 20 74 6F 20 74 68 65 20 6F	ed to the o
70 65 72 61 74 6F 72 2E	perator.
0D 0A	[CR] [LF]
LINE 5	
0D 0A	[CR] [LF]
LINE 6	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 4D 20 20 20 20	M
20 4D	M
0D 0A	[CR] [LF]
LINE 7	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 4F 20 20 20	O
4F	O
0D 0A	[CR] [LF]
LINE 8	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 4E 20 4E	N N
0D 0A	[CR] [LF]
LINE 9	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 49	I
0D 0A	[CR] [LF]
LINE 10	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 54 20 54	T T
0D 0A	[CR] [LF]
LINE 11	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 4F 20 20 20	O
4F	O
0D 0A	[CR] [LF]
LINE 12	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 52 20 20 20 20	R
20 52	R
0D 0A	[CR] [LF]

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0D 0C	[CR] [FF]
LINE 1	
20 20 20 20 20 20 20 20 20 20 20	
54 68 69 73 20 64 6F 63 75 6D 65	This docume
6E 74 20 69 73 20 61 6E 20 6F 70	nt is an op
65 72 61 74 6F 72 20 64 6F 63 75	erator docu
6D 65 6E 74 2E	ment.
0D 0A	[CR] [LF]
LINE 2	
0D 0A	[CR] [LF]
LINE 3	
54 68 69 73 20 64 6F 63 75 6D 65	This docume
6E 74 20 2C 69 66 20 61 63 63 65	nt , if acce
70 74 65 64 2C 20 6D 75 73 74 20	pted, must
62 65 20 70 72 65 73 65 6E 74 65	be presente
64 20 63 6F 72 72 65 63 74 6C 79	d correctly
2E	.
0D 0A	[CR] [LF]
LINE 4	
0D 0A	[CR] [LF]
LINE 5	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 4F 20 20	O
20 20 20 4F	O
0D 0A	[CR] [LF]
LINE 6	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 50 20	P
20 20 20 4F	P
0D 0A	[CR] [LF]
LINE 7	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 45	E
20 45	E
0D 0A	[CR] [LF]
LINE 8	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
41	A
0D 0A	[CR] [LF]
LINE 10	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 54	T
20 54	T
0D 0A	[CR] [LF]
LINE 11	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 4F 20	O
20 20 4F	O
0D 0A	[CR] [LF]
LINE 12	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 52 20 20	R
20 20 20 52	R
0D 0A	[CR] [LF]

0D 0C	[CR] [FF]
LINE 1	
20 20 20 20 20 20 20 20 20 20 20	
54 68 69 73 20 64 6F 63 75 6D 65	This docume
6E 74 20 69 73 20 61 20 73 6F 6E	nt is a con
74 72 6F 6C 20 64 6F 63 75 6D 65	trol docume
6E 74 2E	nt.
0D 0A	[CR] [LF]
LINE 2	
0D 0A	[CR] [LF]
LINE 3	
54 68 69 73 20 64 6F 63 75 6D 65	This docume
6E 74 20 2C 69 66 20 61 63 63 65	nt, if acce
70 74 65 64 2C 20 6D 75 73 74 20	pted, must
62 65 20 70 72 65 73 65 6E 74 65	be presente
64 20 63 6F 72 72 65 63 74 6C 79	d correctly
2E	.
0D 0A	[CR] [LF]
LINE 4	
0D 0A	[CR] [LF]
LINE 5	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 43 20 20	
20 20 20 43	
0D 0A	[CR] [LF]
LINE 6	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 4F 20	
20 20 4F	
0D 0A	[CR] [LF]
LINE 7	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 4E	
20 4E	
0D 0A	[CR] [LF]
LINE 8	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
54	
0D 0A	[CR] [LF]
LINE 9	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 52	
20 52	
0D 0A	[CR] [LF]
LINE 10	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 4F 20	
20 20 4F	
0D 0A	[CR] [LF]
LINE 11	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 20 20 20	
20 20 20 20 20 20 20 20 4C 20 20	
20 20 20 4C	
0D 0A	[CR] [LF]

Annex H (informative): Teletex test texts, national requirements ("N")

Test No.	D e s c r i p t i o n	
	No additional national requirements -----	

Annex J (normative): Test procedures for data link layer in CSPDN, ETSI requirements ("C")

J.1 General

J.1.1 Introduction

This test schedule describes a number of tests which, collectively, provide a means to extensively check the conformance of an HDLC- implementation.

The test schedule is applicable only for terminals which are operating into the CSPDN. Tests concerning layers other than layer 2 (HDLC) are contained in other Clauses of this ETS.

J.1.2 Description

The test schedule describes the relevant tests in tabular form. Clause J.2 contains, at each state, a number and the verbal description of the function of this state. Clause J.3 contains the test sequences. For an explanation of the tables see subclause J.3.1.

J.2 States and functions

State	Description
0	Idle
1	First State after physical link is established.
2	Link set up Phase after send a SABM as calling station.
3.1.1	Normally state before sending an I-frame as called or calling station.
3.1.2	State for the recovery procedure after detecting a transmitted sequence counter error.
3.1.3	Receive not Ready state, this state is not testable.
3.2.1	Receiving an I-frame in exception condition.
3.2.2	Receiving an I-frame with a N(S) sequence error in exception condition.
3.2.3	Busy in exception condition.
4	State after receiving a NEF in Information Transfer Phase.
5	State after receiving a FRMR in Information Transfer Phase.
6	Link Disconnection after sending a DISC as called or calling station.

J.3 Description of the sequences

J.3.1 Explanation of the table description

Sequence X/X			Test area Called side/Calling side
Object			
Step	Tester	SUT (terminal)	Description
1	SABM P	UA F	with poll bit with final bit
2	SABM I-TCR	UA	none poll bit none final bit reaction of the SUT is object of this tests
3	RR RR	[RR] I-TCA <03>RR F	[] = optional reaction < > content of address field (hex character none reaction allowed
		----- Rea. A <----- Rea. B <-----	| start of more alternatives | continuation at the left column | end of the above alternatives
			NOTE: At this point, the SUT should operate correctly. Horizontal line below is the end of the test sequence

J.3.2 List of abbreviations

NEF	not expected frame.
NEW-W	not expected frame which caused the W-bit in a FRMR set to 1.
NEF-X	not expected frame which caused the X-bit in a FRMR set to 1.
NEF-Y	not expected frame which caused the Y-bit in a FRMR set to 1.
NEF-Z	not expected frame which caused the Z-bit in a FRMR set to 1.
EI-Frame	I-frame without I-field.
INFFrame	Invalid frame (containing fewer than 4 octets).
X.21+	The physical link is established.
X.21-	The physical link is disconnected.
wait 8	wait 8 seconds.
I-TCR	I-Frame with an I-Field containing a TCR.
SUT	System Under Test (included are different systems).
ADR-Frame	Any valid frame with address error.
FCS-Frame	Any valid frame with FCS error.
NPR	Not permitted reaction for type approval. Known deviate reaction might be received from SUTs type approved before any recommendations covered the correct reaction.

J.4 Test description tables

Sequence CMD1/0			Test area Called side State 1	
Object	Test of the stability in Disconnected Phase by receiving commands			
Step	Tester	SUT	Description	
1	RR	[DM]	NPR for type approval	
2	RR P	DM F		
3	RNR	[DM]		NPR for type approval reaction
4	RNR P	DM F		
5	DISC	[DM]		NPR for type approval
6	DISC P	DM F		
7	REJ				NPR for type approval
8	REJ P	DM F		
9	I-CDCL P	DM F		
	wait 4			
	X. 21-			
	end			

Sequence CMD1/1			Test area Called side State 1
Object	Test for an correct establishment of connection or disconnection		
Step	Tester	SUT	Description
1	SABM	UA	
2	DISC	UA	
3	wait 8	X. 21-	
	end		

Sequence CMD1/2			Test area Called side State 1/3.1.1
Object	Test for an correct establishment of connection or disconnection		
Step	Tester	SUT	Description
1	SABM P	UA F	
2	DISC P	UA F	
3	wait 8 X. 21- end	X. 21-	

Sequence CMD1/3			Test area Called side State 1
Object	Stability by receiving erroneous SABM in the Disconnected Phase		
Step	Tester	SUT	Description
1	<02> SABM wait 3	-	ADR-Frame different from <01> or <02>
2	<03> SABM wait 3	-	Response frame
3	SABM wait 3	-	FCS-error
4	<03> SABM wait 8 X. 21- end	-	Response and FCS-Frame

Sequence CMD1/4			Test area Called side State 1
Object	Stability in the Disconnected Phase by receiving responses		
Step	Tester	SUT	Description
1	<03> UA F	-	
2	<03> UA	-	
3	<03> RR F	-	
4	<03> RR	-	
5	<03> RNR F	-	
6	<03> RNR	-	
7	<03> REJ F	-	
8	<03> REJ	-	
9	<03> FRMR	-	
10	<03> DM F	-	
11	<03> DM	-	
		<-----	
		<SABM P	NPR for type approval
	X. 21-	<-----	
	end		

Sequence			Test area Called side State 1
CMD1/5			
Object	Stability in the Disconnected Phase		
Step	Tester	SUT	Description
1	NEF-W	-	
2	NEW-W p	-	NPR for type approval
		DM F	
3	EI	-	
4	NEF-I	-	
5	NEF-X	-	
6	NEF-x P	-	NPR for type approval
		DM F	
	ADR-Frame		ADR-error different from <01> and <03>
7		-	
	FCS-Frame		FCS-error
8		-	
	INFrame		incomplete frame
9		-	
	I-TCR		
10		-	
	wait 4		
	X. 21-		
	end		

Sequence CMD31/1			Test area Called side State 3.1.1
Object	Receiving two I-frames with only one-flag between them		
Step	Tester N(R) N(S)	SUT N(R) N(S)	
1	SABM P I- TCR 0 0 1 Flag I- TCR 0 1 X.21-	UA F ----- [RR 1] I-TCA 1 0 [RR 2] I-TBR 2 1 ----- [RR 1] [RR 2] I-TBR 0	

Sequence CMD31/2			Test area Called side State 3.1.1/4
Object	Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description
1	SABM P NEF-W wait 8	UA F FRMR	
2	X. 21-	X. 21- <----- SABM P <----- DISC P <----- FRMR <-----	NPR for type approval NPR for type approval
	end		

Sequence CMD31/3			Test area Called side State 3.1.1/4
Object	Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description
3	SABM P	UA F	
	NEF-W P	FRMR F	
	wait 8		
4		X. 21-	NPR for type approval
		<-----	
		SABM P	NPR for type approval
		<-----	
		DISC P	
		<-----	
		FRMR F	
	X. 21-	<-----	
	end		

Sequence CMD31/4			Test area Called side State 3.1.1/4
Object	Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description
5	SABM P	UA F	
	NEF-X	FRMR	
	wait 8		
6		X. 21-	NPR for type approval
		<-----	
		SABM P	NPR for type approval
		<-----	
		DISC P	
		<-----	
		FRMR	
	X. 21-	<-----	
	end		

Sequence				Test area Called side State 3.1.1/4
CMD31/5				
Object		Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description	
7	SABM P	UA F		
	NEF-X P	FRMR F		
	wait 8	X. 21-	NPR for type approval	
8		<-----		
		SABM P	NPR for type approval	
		<-----		
		DISC P		
		<-----		
		FRMR F		
	X. 21-	<-----		
	end			

Sequence				Test area Called side State 3.1.1/4
CMD31/6				
Object		Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description	
9	SABM P	UA F		
	NEF-Y	FRMR		
	wait 8	X. 21-	NPR for type approval	
10		<-----		
		SABM P	NPR for type approval	
		<-----		
		DISC P		
		<-----		
		FRMR		
	X. 21-	<-----		
	end			

Sequence CMD31/7			Test area Called side State 3.1.1/4
Object	Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description
11	SABM P	UA F	NPR for type approval
	NEF-Z	FRMR F	
	wait 8	X. 21-	
12		<-----	
		SABM P	NPR for type approval
		<-----	
		DISC P	
		<-----	
		FRMR F	
	X. 21-	<-----	
	end		

Sequence CMD31/8			Test area Called side State 3.1.1/4
Object	Detecting of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description
13	SABM P	UA F	N(S), N(R) correct
	EI-Frame	FRMR	NPR for type approval
	X. 21-	<-----	
	wait 8	RR	
14	X. 21-	-	
	end	<-----	

Sequence CMD31/9			Test area Called side State 3.1.1
Object	Detecting of address-, FCS errors and incomplete blocks		
Step	Tester	SUT	Description
1	SABM P INFrame	UA F	
2	ADR-Frame	-	
3	FCS-Frame	-	
	wait 8 X. 21-		
	end		

Sequence			Test area Called side State 3.1.1/3.2.1
CMD32/1			
Object	Correct treatment of a Busy situation by the remote SUT		
Step	Tester	SUT	Description
1	SABM P	UA F	
	RR P	RR F	
2	RR	[RR]	RR command
3	RNR P	<01> RR F	
	wait 8	<03> RR P	
		<-----	
		<03>REJ P	
4	RR F	[RR]	RNR command
	RNR		
	wait 8	<03> RR P	
		<-----	
		<03>REJ P	
	RR F		
	wait 8		
	X. 21-	-	
	end		

Sequence CMD32/10			Test area Called side State 3.1.1
Object	Interruption of data flow control during the data transmission, place back the link trough SABM		
Step	Tester	SUT	Description
1	SABM P I-TCR I-CSS RR SABM P wait 4 X. 21- end	UA F [RR] I-TCA [RR] I-RSSP ----- X.21- <----- UA F <----- UA F I-CSA DISC P -----	NPR for type approval

Sequence			Test area				
CMD31/11			Called side State 3.1.1				
Object	Correct treatment of the P-bit in an I-frame and correct incrementation of N(R) and N(S)						
Step	Tester	N(R)	N(S)	SUT	N(R)	N(S)	Description
	SABM	P		UA	F		
1	I-TCR	0	0	[RR]	1	0	
				I-TCA			
2	I-CSS	1	1	[RR]	2	1	
				I-RSSP			
	RR	2	-				
3	I-CDCL	P	2	RR	F	3	-
			2	I-RDCLP		3	2
4	I-CDCL	P	3	RR	F	4	-
			3	I-RDCLP		4	3
5	I-CDCL	P	4	RR	F	5	-
			4	I-RDCLP		5	4
6	I-CDCL	P	5	RR	F	6	-
			5	I-RDCLP		6	5
7	I-CDCL		6	[RR		7	-]
			6	I-RDCLP		7	6
8	I-CDCL		7	[RR		0	-]
			7	I-RDCLP		0	7
9	I-CDCL		0	[RR		1	-]
			0	I-RDCLP		1	0
10	I-CDCL		1	[RR		2	-]
			1	I-RDCLP		2	1
11	I-CSE		2	[RR		3	-]
			2	I-RSEP		3	2
	RR		3				
	DISC	P	-	UA	F		
	X. 21-						
	end						

Sequence CMD32/2			Test area Called side State 3.1.1/3.2.1
Object		Correct treatment of Busy situation	
Step	Tester	SUT	Description
1	SABM P	UA F	
2	REJ P	RR F	REJ command
3	RNR P	[RR]	
		<01> RR F	
		<03> RR P	
		<----->	
		<03>REJ P	
4	RR F RNR	[RR]	RNR command
		<03> RR P	
		<----->	
		<03>REJ P	
	RR F		
	X. 21-		
	end		

Sequence			Test area Called side State 3.1.1/3.1.2
CMD31/12			
Object	Detection of a N(S) error and recovery of the link by the use of a REJ from the SUT		
Step	Tester	SUT	Description
1	SABM P	UA F	
	I-TCR	[RR] I-TCA	
2	I-CSS	[RR] I-RSSP	
	RR		
1	I-CDCL N(S)	REJ	N(S) ERROR N(S)=4
	I-CDCL N(S)	_____	N(S) ERROR N(S)=5
2		-	
		<----- REJ	NPR for type approval
3	I-CDCL P	_____	N(S) ERROR N(S)=6
		REJ F <-----	
4	RR P	RR F <-----	
		REJ F <-----	
5	RR	RR F <-----	
		-	
6	I-CDCL	REJ <-----	
		[RR] I-RDCLP	N(S)=2
	I-CSE	I-RSEP	
	DISC P	UA F	
	X. 21-		
	end		

Sequence CMD31/13			Test area Called side State 3.1.1/3.1.2
Object	Detection of a N(S) error and recovery of the link by the use of a REJ from the SUT		
Step	Tester	SUT	Description
1	SABM P I-TCR I-CSS RR I-CDCL N(S)	UA F [RR] I-TCA [RR] RSSP REJ	N(S) ERROR N(S)=4
2	REJ P REJ	REJ F <----- RR F <----- -	NPR for type approval
4	I-CDCL I-CSE DISC P X. 21- end	<----- REJ <----- [RR] I-RDCLP I-RESP UA F	N(S)=2

Sequence				Test area	
CMD4/1				Called side State 3.1.2/4	
Object	FRMR-handling after a sequence error condition				
Step	Tester	N(S)	SUT	N(R)	Description
1 2 3	SABM P		UA F		N(S) ERROR
	I-TCR		[RR]		
	I-CSS	1	I-TCA	1	
	I-CDCL	4	[RR]	2	
	NEF-W		I-RSSP	2	
	wait 8		REJ	2	
			FRMR		
			X. 21-		
			<-----		
			SABM P		
			<-----		
		DISC P			
		<-----			
		FRMR			
		<-----			
	X. 21-				
	end				

Sequence					Test area Called side State 3.1.2/4
Object	FRMR-handling after a sequence error condition				
Step	Tester	N(S)	SUT	N(R)	Description
	SABM P		UA F		
	I-TCR	0	[RR] I-TCA	1	
	I-CSS	1	[RR] I-RSSP	2	
4	I-CDCL	4	REJ	2	
5	NEF-W P		FRMR F		
6	wait 8		X. 21- ----- SABM P ----- DISC P ----- FRMR ----- X. 21-		NPR for type approval NPR for type approval
	end				

Sequence			Test area
CMD4/3			Called side State 3.1.2/4
Object	FRMR-handling after a sequence error condition		
Step	Tester	N(S)	SUT N(R) Description
	SABM P		UA F
	I-TCR	0	[RR] I-TCA 1
	I-CSS	1	[RR] I-RSSP 2
7	I-CDCL	4	REJ 2
8	NEF-X		FRMR F
	wait 8		
9			X. 21- ----- <----- SABM P ----- <----- DISC P ----- <----- FRMR ----- <-----
	X. 21-		NPR for type approval
	end		NPR for type approval

Sequence					Test area Called side State 3.1.2/4
Object	FRMR-handling after a N(S) sequence error condition				
Step	Tester	N(S)	SUT	N(R)	Description
	SABM P		UA F		
	I-TCR	0	[RR] I-TCA	1	
	I-CSS	1	[RR] I-RSSP	2	
10	I-CDCL	4	REJ	2	
11	NEF-X P		FRMR F		
	wait 8				
12			X. 21- ----- SABM P ----- DISC P ----- FRMR ----- ←		NPR for type approval NPR for type approval
	X. 21- end				

Sequence				Test area	
CMD4/5				Called side State 3.1.2/4	
Object		FRMR-handling after a N(S) sequence error condition			
Step	Tester	N(S)	SUT	N(R)	Description
	SABM P		UA F		
	I-TCR	0	[RR] I-TCA	1	
	I-CSS	1	[RR] I-RSSP	2	
13	I-CDCL	4	REJ	2	
14	NEF-Y		FRMR		
	wait 8				
15			X. 21- ----- SABM P ----- DISC P ----- FRMR ----- <		NPR for type approval NPR for type approval
	X. 21- end				

Sequence					Test area Called side State 3.1.2/4
Object	FRMR-handling after a N(S) sequence error condition				
Step	Tester	N(S)	SUT	N(R)	Description
	SABM P		UA F		
	I-TCR	0	[RR] I-TCA	1	
	I-CSS	1	[RR] I-RSSP	2	
16	I-CDCL	4	REJ	2	
17	NEF-Z		FRMR		
	wait 8				
18			X. 21- ←----- SABM P ←----- DISC P ←----- FRMR ←-----		NPR for type approval NPR for type approval
	X. 21-				
	end				

Sequence					Test area Called side State 3.1.2/4
Object	Behaviour after receiving empty I-Frames (EI-Frames)				
Step	Tester	N(S)	SUT	N(R)	Description
19	SABM P		UA F		
	I-TCR	0	[RR] I-TCA	1	
20	I-CSS	1	[RR] I-RSSP	2	
	I-CDCL	4	REJ	2	
	EI-Frame		FRMR		N(S) error NPR for type approval
	wait 8		-		wait 8
	X.21- end				X.21- SABM P DISC P FRMR X.21- end

NOTE: For clarification, see also test CMD31/8

Sequence			Test area	
CMD32/3			Called side State 3.1.2	
Object	Handling of incomplete blocks, FCS-and address errors after a N(S) sequence error condition			
Step	Tester	N(S)	SUT N(R)	Description
	SABM P		UA F	
	I-TCR	0	[RR]	
	I-CSS	1	I-TCA 1	
	I-CDCL	4	[RR]	
1	INFrame		I-RSSP 2	
2	ADR-Frame		REJ 2	
3	FCS-Frame		-	
4	DISC		-	
5	wait 8		UA	
6	end		X. 21-	

Sequence				Test area	
CMD32/4				Called side State 3.1.2	
Object	Resetting the link by SABM after a N(S) sequence error condition				
Step	Tester	N(S)	SUT	N(R)	Description
10	SABM	P	UA	F	
	I-TCR	0	[RR]		
	CSS	1	I-TCA	1	
	I-CDCL	4	[RR]		
			I-RSSP	2	
11	SABM	P	REJ	2	NPR for type approval
	wait	8	X. 21-		
			<-----		
			UA	F	
			DISC	P	
		<-----			
			UA	F	
			I-CSA		
	wait	4	DISC	P	
	X. 21-		<-----		
	end				

Sequence CMD32/5			Test area Called side State 3.1.2	
Object	Detection of the link disconnection after a N(S) sequence error condition			
Step	Tester	N(S)	SUT N(R)	Description
7	SABM P		UA F	
8	I-TCR	0	[RR] I-TCA	1
9	I-CSS	1	[RR] I-RSSP	2
	I-CDCL	4	REJ	2
	DISC P		UA F	
	wait 8		X. 21-	
	X. 21			
	end			

Sequence CMD31/15			Test area Called side State 3.1.1	
Object	Ignore unexpected responses in the data transfer phase			
Step	Tester	N(S)	SUT N(R)	Description
1	SABM P		UA F	
2	UA F		-	
3	UA		-	
4	RR F		-	
5	REJ F		-	
	X.21-			
	end			

Sequence			Test area Called side State 3.1.1	
CMD31/16				
Object	Retransmission of unconfirmed I-frames			
Step	Tester	N(S)	SUT N(R)	Description
	SABM P		UA F	
	I-TCR	0	[RR] I-TCA 0	
	I-CSS	0	[RR] I-RSSP 1	
	CSE	0	[RR] RSEP 2	
1	REJ	0	I-TCA 0	
2	wait		I-RSSP 1	
3	RR	3	I-RESP 2	
	DISC P		UA F	
	X. 21- end		X. 21-	

Sequence				Test area	
CMD31/17				Called side State 3.1.1/3.2.1	
Object		Retransmission of unconfirmed I-frames			
Step	Tester	N(S)	SUT	N(R)	Description
1	SABM P		UA F		
	I-TCR	0	[RR] I-TCA	1	
	I-CSS	0	[RR] I-RDCLP	3	
	RR wait	1			
			RR P	3	
2			<----- REJ P	3	
3			<----- I-RDCLP P	3	
2	RR F DISC P		[RR] I-RSSP	3	
	RR	3	[RR] I-RDCLP	3	
	DISC		UA		
	X. 21- end				

Sequence					Test area Called side State 3.1.1/3.2.1		
CMD31/18							
Object	Retransmission of unconfirmed I-frames						
Step	Tester	N(R)	N(S)	SUT	N(R)	N(S)	Description
	SABM	P		UA	F		
	I-TCR	0	0	[RR] I-TCA	1	0	
	I-CSS	1	1	[RR] I-RSSP	2	1	
	RR	2					
	I-CDCL	2	2				
	I-CDCL	2	3	[RR] I-RDCLP	3	2	
	I-CDCL	2	4	[RR] I-RDCLP		3	
	I-CDCL	2	5	[RR] I-RDCLP		4	
	I-CDCL	2	6	[RR] I-RDCLP		5	
	I-CDCL	2	7	[RR] I-RDCLP		6	
	I-CDCL	2	0	[RR] I-RDCLP		7	
	I-CDCL	2	1	[RR] I-RDCLP	2	0	
	wait	7		RR	P	2	
	REJ	F	6	RR	P	2	
	wait	7					
	I-CSE	2	2	I-RDCLP	2	6	
				I-RDCLP	2	7	
				I-RDCLP	2	0	
				I-RDCLP	2	1	
	RR	3		[RR] I-RSEP	3	2	

continuation of the test sequence

Sequence			Test area Called side State 3.1.1/3.2.1
CMD31/18			
Object	Retransmission of unconfirmed I-frames		
Step	Tester N(R) N(S)	SUT N(R) N(S)	Description
	DISC P X. 21- end	UA F	

NOTE: Depending on the national requirements, the window size may be less than 7. In this case, the SUT may react differently, e.g. by sending RNR when the window is full.

Sequence			Test area Called side State 3.2.1/5
CMD32/6			
Object	Unexpected response in the timer recovery condition		
Step	Tester	SUT	Description
1	SABM P I-TCR wait	UA F I-TCA RR P <----- REJ P <----- I-TCA P	
2	UA F	-	
3	UA	-	
4	wait	RR P <----- REJ P <----- TCA P <-----	
5	RR	-	
6	REJ	-	
7	wait	RR P <----- REJ P <----- I-TCA P	
8	FRMR		
		X. 21- <----- SABM P <----- DISC P	NPR for type approval
	X. 21- end		

Sequence			Test area
CMD32/7			Called side State 3.2.1/3.1.1
Object	Examination of receive ready during polling condition		
Step	Tester	SUT	N(R)
Description			
1	SABM P	UA F	
	I-TCR	[RR]	
	wait	I-TCA	
		RR P	1
		<-----	
		REJ P	1
		<-----	
		I-TCA P	1
2	I-CSS		
	UA F	RR	2
	wait		
		RR P	2
		<-----	
		REJ P	2
		<-----	
		I-TCA P	2
3	RR F		
	wait	I-RSSP	
		RR P	2
		<-----	
		REJ P	2
		<-----	
		I-RSSP P	2
	X. 21-		
	end		

Sequence CMD32/8			Test area Called side State 3.2.1/6.2
Object	Ignore a response RNR without F-bit in timer recovery condition		
Step	Tester	SUT	Description
	SABM P	UA F	
	I-TCR	I-TCA	
	wait	RR P	
		<-----	
		REJ P	1.
		<-----	
		I-TCA P	
		:	
		poll	
		:	
		:	
	RNR	RR P	
		<-----	
		REJ P	2.
		<-----	
		I- TCA P	
		:	
		poll	
	wait	:	
		:	
		:	
	RNR	RR P	
		<-----	
		REJ P	3.
		<-----	
		I- TCA P	
		:	
		poll	
		:	
		:	
		:	
	X. 21- end	X.21-	The SUT may repeat the above polling procedure max. 8 times

Sequence CMD32/9			Test area Called side State 3.2.1
Object	Examination of the RC counter		
Step	Tester	SUT	Description
1	SABM P I-TCR wait 64	UA F [RR] I-TCA RR P <----- REJ P <----- I-TCA P : poll : : : X. 21-	not more than 8 times

Sequence CMD31/19			Test area Called side State 3.1.1/3.2.1
Object	Change from State 3.1 to State 3.2 because for Busy conditions		
Step	Tester	SUT	Description
1	SABM P I-TCR RNR RNR . . end	UA F [RR] I-TCA ----- RR P <----- REJ P <----- I- TCA P <----- : poll : X. 21-	RNR command RNR command not more than 8 times

Sequence CMD32/10			Test area Called side State 3.2.1
Object	Examination of the RCB counter		
Step	Tester	SUT	Description
	SABM P I-TCR RNR	UA F I-TCA RR P <----- REJ P <----- I- TCA P <----- : poll : :	RNR command
	RNR F	RR P <----- REJ P <----- I- TCA P <----- : poll : :	
	RNR F	RR P <----- REJ P <----- I- TCA P <----- : poll : :	

continues on next page

continuation of test sequence 6.5

Sequence CMD32/10			Test area Called side State 3.2.1
Object	Examination of the RCB counter		
Step	Tester	SUT	Description
	RNR F	RR P ----- REJ P ----- I- TCA P ----- : poll :	
	RNR F	RR P ----- REJ P ----- I- TCA P ----- : poll :	
	RNR F	RR P ----- REJ P ----- I- TCA P ----- : poll :	
	RNR F	RR P ----- REJ P ----- I- TCA P ----- : poll :	Not more than 8 times
	RNR F wait 8s X.21- end	X.21-	NOTE: Time out at the upper layers may interrupt the test before the end.

Sequence					Test area Called side State 3.1 / 3.2		
Object	Window size handling						
Step	Tester	N(R)	N(S)	SUT	N(R)	N(S)	Description
	SABM P			UA F			
	I-TCR	0	0	[RR] I-TCA	1	0	
	I-CSS	1	1	[RR] I-RSSP	2	1	
	I-CDCL	2	2	[RR] I-RDCLP		2	
	I-CDCL	2	3	[RR] I-RDCLP		3	
	I-CDCL	2	4	[RR] I-RDCLP		4	
	I-CDCL	2	5	[RR] I-RDCLP		5	
	I-CDCL	2	6	[RR] I-RDCLP		6	
	I-CDCL	2	7	[RR] I-RDCLP		7	
	I-CDCL	2	0	[RR] I-RDCLP		0	

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Continuation of the test sequence 6.6

Sequence						Test area Called side State 3.1 / 3.2				
CMD31/20										
Object		Window size handling								
Step	Tester	N(R)	N(S)	SUT	N(R)	N(S)	Description			
1	I-CDCL wait 7	2	1	|-----|			|			
				RR	P	2		|		
				<-----						
				REJ	P	2		|		
2	RR DISC X. 21-	3		|-----|			|			
				I-RDCLP	P	2		0	|	
				poli						|
				I-RSEP		3		2		|
				UA	F					

NOTE: Depending on the national requirements, the window size may be less than 7. In this case, the SUT may react differently, e.g. by sending RNR when the window is full.

Sequence						Test area Called side State 3.1.1/3.2.1	
CMD31/21							
Object		Window size handling					
Step	Tester	N(R)	N(S)	SUT	N(R)	N(S)	Description
4	SABM P			UA F			
	I-TCR	0	0	[RR] I-TCA	1	0	
	I-CSS	1	1	[RR] I-RSSP	2	1	
	RR	2					
	I-CDCL	2	2				
	I-CDCL	2	3	[RR] I-RDCLP	3	2	
	I-CDCL	2	4	[RR] I-RDCLP		3	
	I-CDCL	2	5	[RR] I-RDCLP		4	
	I-CDCL	2	6	[RR] I-RDCLP		5	
	I-CDCL	2	7	[RR] I-RDCLP		6	
	I-CDCL	2	0	[RR] I-RDCLP		7	
	I-CDCL	2	1	[RR] I-RDCLP	2	0	
	wait 7			[RR P 2] <----- [REJ P 2] <----- [I-RDCLP P 2 0] <-----			

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Continuation of test sequence 6.7

Sequence						Test area	
CMD31/21						Called side State 3.1.1/3.2.1	
Object		Window size handling					
Step	Tester	N(R)	N(S)	SUT	N(R)	N(S)	Description
	RR F	6			⋮ poll		
				I-RDCLP	2	6	
				I-RDCLP	2	7	
				I-RDCLP	2	0	
				I-RDCLP	2	1	
	I-CSE	2	2	[RR]			
				I-RESP	3	2	
	RR	3					
	DISC P						
	X. 21-			UA F			
	end						

Sequence CMD31/22			Test area Called side State 3.2.1/.1.1
Object		Ignore a RR F in State 3.1.1	
Step	Tester	SUT	Description
1	SABM P I-TCR wait	UA F I-TCA RR P <----- REJ P <----- I-TCA P	
2	RR F RR F wait 8 X.21- end	-	

Sequence CMD31/23			Test area Called side State 3.1.1/3.2.1
Object		Ignore a REJ with F=1 in State 3.1.1	
Step	Tester N(R)	SUT N(R) N(S)	Description
1	SABM P I-TCR 0 I-CSS 0 wait	UA F I-TCA I-RSSP 2 1 RR P <----- REJ P <----- I-RSSP P	
2	REJ F REJ F 1 REJ F 2 wait X.21-	I-RSSP 2 1 -	

Sequence CMD32/11			Test area Called side State 3.1.1/6
Object	Examination of polling with DISC		
Step	Tester	SUT	Description
12	SABM P	UA F	
13	I-TCR	[RR] I-TCA	
	I-CSE	[RR]	
	wait 64		
14		DISC P	max 8 times
15		DISC P	
		DISC P	
		DISC P	
		DISC P	
		DISC P	
		DISC P	
		DISC P	
	X. 21-	X. 21-	
	end		

Sequence CMD31/24			Test area Called side State 3.1.1/6
Object	Check the disconnection of link through DISC/UA		
Step	Tester	SUT	Description
4	SABM P I-TCR I-CSE wait	UA F [RR] I-TCA RR	
5	UA	DISC P -	
6	UA F X. 21- end	X. 21-	

Sequence CMD6/1			Test area Called side State 6/1
Object	Change from State 6 to 1		
Step	Tester	SUT	Description
7	SABM P I-TCR I-CSE wait DM F	UA F [RR] I-TCA RR DISC P	
8	X. 21- end	X. 21-	

Sequence CMD6/2			Test area Called side State 6/1
Object	Collision of DISC in State 6		
Step	Tester	SUT	Description
9	SABM P	UA F	
10	I-TCR	[RR] I-TCA	
	I-CSE	[RR]	
	wait	DISC P	
11	DISC P	UA F	
	wait 8	X.21- ←----- DISC P	
	X.21- end		

Sequence CMD6/3			Test area Called side State 6/1
Object	A collision of establishment of connection and of dis-connection		
Step	Tester	SUT	Description
1	SABM P I-TCR I-CSE wait	UA F [RR] I-TCA [RR]	
2	SABM P wait 8 X. 21- end	DISC P DM F X. 21- ←----- DISC P ←-----	NPR for type approval

J.5 Description of the states and tests

The following states are described in the following subclauses:

- J.5.1 Disconnected state
- J.5.2 Disconnect request state
- J.5.3 Connected state
- J.5.4 Established state
 - J.5.4.1 Established-reject
 - J.5.4.2 Established-blocked
 - J.5.4.3 Established-FRMR
 - J.5.4.4 Established-normal
- J.5.5 Exchange procedure state
- J.5.6 Identification procedure state
- J.5.7 Window rotation state
- J.5.8 Connection request state
- J.5.9 DTE clear request state
- J.5.10 DXE clear indication state
- J.5.11 Flow control ready state
- J.5.12 DTE reset request state
- J.5.13 DXE reset indication state
- J.5.14 DXE receive ready state
- J.5.15 DXE receive not ready state
- J.5.16 DTE receive ready state
- J.5.17 Window filling and rotation state
- J.5.18 Timer tests
- J.5.19 Address tests
- J.5.20 Facility tests

The tests are organised in scenarios, each scenario corresponding to one specific state. Every scenario is divided in sequences for each actions in a particular state.

STEP: the tester may realize more than one action for the same sequence. In this case, every action shall correspond to one step.

J.5.1 Disconnected state

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	Disconnected State, Called side .	

Before each test, the tester shall: establish of the physical level,				
Step	Tester Action	Tester Detects	Description	
	S_DISC/p=1	R_DM/f=1	Reception of dis-connection Request	x) 9.10.2
	S_SABM/p=1	R_UA/f=0 or DM/f=0	Reception of connection Request	x) 9.1.1.1
	S_SABM/p=1	R_UA/f=1 or DM/f=1	Reception of connection Request	x) 9.1.1.2
	S_DM/f=0	nothing or SABM or DISC/p=1	Reception of dis-connection indication	x) 9.1.2
	S_I/p=1	R_DM/f=1	Reception of inopportune frame	x) 9.10.3
	S_RR/p=1	R_DM/f=1	Reception of inopportune frame	x) 9.10.1
	S_RNR/p=1	R_DM/f=1	Reception of inopportune frame	x) 9.10.1
	S_REJ/p=1	R_DM/f=1	Reception of inopportune frame	x) 9.10.1

J.5.2 Disconnect request state

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Disconnect Request, Called side.	

<p>Before each test, the tester shall: establish the physical level establish data link level S-I(RST), R-I(RST) N2 times. R-DISC/p=0,1</p>			
Step	Tester Action	Tester Detects	Description
	S_DISC/p=1	R_UA/f=1	Reception of dis-connection Request
	S_SABM/p=1	R_DM/f=1 oR SABM/p=1	Reception of connection Request
	nothing	R_DSK/p=1	Disconnection Request unknown

J.5.3 Connected state

Test No.	Description	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Connected, Called side.	

Before each test, the tester shall: establish physical level S-SABM/p=1 R-UA/f=1			
Step	Tester Action	Tester Detects	Description
	S_DISC/p=1	R_UA/f=1	Reception of Dis-connection Request
	S_SABM/p=1	R_UA/p=1	Reception of Connection Request
	S_FRMR/f=0,1	R SABM or DISC/p=1 DM nothing	Reception of frame reject Indication
	S_DM/f=0	R SABM or DISC/p=1 DM	
	S_DM/f=1	R SABM or DISC/p=1 DM nothing	

J.5.4 Established state

J.5.4.1 Established-reject

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Established-Reject , Called side.	

Before each test, the tester shall: establish physical level establish data link layer S-I unexpected R-REJ N(R)=0			
Step	Tester Action	Tester Detects	Description
	S_DISC/p=1	R_UA/f=1	Reception of Dis-connection Request
	S_SABM/p=1	R_UA/f=1 or DM/f=1	Reception of Connection Indication
	S_DM/f=0	R_SABM or DISC/p=1 DM	Reception of Dis-connection Indication
	S_I/p=0	R_RR or RNR /F=0 N(R)=1 or I N(R)=1	Reception of correct Info frame.
	S_XX	R_FRMR	Reception of invalid frame
	S_I N(R)=7	R_DM/f=1	Reception of Info frame with incorrect N(R)
	S_FRMR	R_SABM/p=1 or DISC/p=1 DM	Reception of FRMR frame
	S_I/p=1=1 N(S)=2	R_REJ or RR /F=1 N(R)=0	Reception of frame with N(S) out of sequence

J.5.4.2 Established-blocked

Test No.	Description	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Established-Blocked, Called side.	

Before each test, the tester shall: establish physical level establish data link level S_RNR/1 N(R)=0 R_RR/1 N(R)=0			
Step	Tester Action	Tester Detects	Description
	S_I/p=0	R_RR/f=0 N(R)=1	Reception of I frame with p=0
	S_I/p=1	R_RR/f=1 N(R)=1	Reception of I frame with p=1
	S_RR/p=1	R_RR/f=1 N(R)=0	Reception of RR frame with p=1
	S_RNR/p=1	R_RR/f=1 N(R)=0	Reception of RNR frame with p=1
	S_REJ/p=1	R_RR/f=1 N(R)=0	Reception of REJ frame with p=1
	S_SABM/p=1	R_UA/f=1	Reception of SABM frame
	S_DISC/p=1	R_UA/f=1	Reception of DISC frame
	S_FRMR/f=0,1 N(S)=2 S_invalid frame	R_DM or DISC or SABM/p=1 R_FRMR	Reception of FRMR frame Reception of

J.5.4.3 Established-FRMR

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Established-FRMR, Called side.	

Before each test, the tester shall: establish physical level establish data link level S_I (with none defined control field) R_FRMR				
Step	Tester Action	Tester Detects	Description	
	S_DISC/p=1	R_UA/f=1	Reception of DISC frame	
	S_SABM/p=1	R_UA oR DM/f=1	Reception of SABM frame	
	S_FRMR/f=0	R_SABM oR DISC/p=1 DM	Reception of FRMR frame with f=0	x) 9.11
	S_FRMR/f=1	R_SABM oR DISC/p=1	Reception of FRMR frame with f=1	x) 9.11
	FRMR ignored	R_FRMR=1	frame FRMR ignored	

J.5.4.4 Established-normal

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Established-normal, Called side.	

Before each test, the tester shall: establish physical level establish data link level				
Step	Tester Action	Tester Detects	Description	
	S_I/p=0	R_I N(R)=1 or RR RNR with N(R)=1	Reception of Info frame with p=0	x) 9.11
	S_I/p=1	R RR/f=1 and N(R)=1 or RNR/f=1 N(R)=0 or 1	Reception of Info frame with p=1	x) 9.11
	S_RR or RNR p=1 N(R)=0	R_RR/f=1 N(R)=0	Reception of RR or RNR frame with p=1	x) 9.11
	S_I N(S)=2	R_REJ N(R)=0	Transmission error simulation	x) 9.8
	S_I N(R)=X	R_FRMR	Reception of Info frame with N(R) error	
	S_XX	R_FRMR	Reception of incorrect frame	
	S_XX	nothing	Reception of frame which must be ignored	x) 9.6

J.5.5 Exchange procedure state

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	Exchange procedure, repetition of frame	

The establishment before each test shall be different for each step.			
Step	Tester Action	Tester Detects	Description
	N2 SABM ignored	R SABM or nothing	Reception of N2 SABM without answers
	N2 DISC	R SABM or DISC or nothing	Reception of N2 DISC without answers
			x) 9.4

Test No.	Description	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Exchange procedure, Called side.	

Before each test, the tester shall : establish physical level establish the data link level				
Step	Tester Action	Tester Detects	Description	
	R_I with N(S)=0-2 S_REJ with N(R)=1	R_I N(S)=1	Verification of REJ/p=0 reception	x)9.8
	R_I with N(S)=0-2 S_RR N(R)=3 R_I with N(S)=0-2 S_FRMR S_I with CRC error	R_RR N(R)=3 or nothing R_SABM or DISC/p=1 dM R_FRMR	Verification of the window limit Reception of FRMR after emission of Info frame CRC error	x)9.9.1 x)9.9.2

J.5.6 Identification procedure state

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	State:Identification Procedure, Called side.	

The SUT calls with emission of XID frame			
Step	Tester Action	Tester Detects	Description
	S_XID accepted	R_SABM	frame XID accepted
	S_XID refused	nothing	XID frame refused
	S_XID () S_XID accepted	R_XID	Acceptance delayed
	S_XID () S_XID)=0-2 refused	R_XID	Refusal delayed
	S_SABM, DISC DM, UA	nothing or R_XID	Reception of acceptable frame different of the XID
	R_N2 XID	R_XID or nothing	XID frame repetition
	physical level established S_XID	R_DM or nothing	Reception of XID frame with the tester calling

J.5.7 Window rotation state

Test No.	Description	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Window Rotation, Called side.	

The DTE shall be in the information transfer phase RR/p=1 N(R)=a --> <---- RR/f=1 N(R)=b			
Step	Tester Action	Tester Detects	Description
	S I-frame N(s)=b, N(r)=a	R RR N(r)=b+1 R I N(S)=a N(r)=b+1	The tester transmits an I-frame 8 more times to verify that N(r) is incremented each time by the DTE.
	S I-frame N(s)=b N(r)=a S_SABM/p=1 S I-frame N(r)=N(s)=0	R RR N(r)=b+1 R I N(s)=a N(r)=b+1 R_UA/f=1 R RR N(r)=1 R I-frame N(s)=0 N(r)=1	The tester transmits an I-frame 4 more times (4 exchanges I,RR).
			x) 9.3.1

J.5.8 Connection request state

Test No.	D e s c r i p t i o n	Reference to x) Net 2 y) X.25 z) X.32
Object	State : Connection Req., Calling side.	

The SUT requests connection.				
Step	Tester Action	Tester Detects	Description	
	S_DISC/p=0	R_DM/f=0	Reception of dis-connection request.	x) 9.2
	S_DISC/p=1	R_DM/f=1	Reception of dis-connection request.	x) 9.2
	S_SABM/p=0 S_UA/f=0	R_UA/f=0	Reception of connection request.	x) 9.2.1
	S_SABM/p=1 S_UA/f=1	R_UA/f=1	Reception of connection request.	x) 9.2.1
	S_DM/f=0	nothing or SABM/p=1	Reception of disconnect indication.	
	S_UA/f=1	nothing or I N(r)=0	Reception of acknowledgment.	x) 9.3.1
	S_RR/p=0,1	R_SABM/p=1	Reception of RR frame.	
	S_RNR/p=0,1	R_SABM/p=1	Reception of RNR frame.	
	S_REJ/p=0,1	R_SABM/p=1	Reception of REJ frame.	
	S_I/p=0,1	R_SABM/p=1	Reception of information frame.	
	S_FRMR/f=0	R_SABM/p=1	Reception of FRMR frame.	
	S_invalid I or DISC/p=1	R_SABM/p=1	Reception of invalid frame	
	nothing	R_SABM/p=1	Connection In-unknown.	x) 9.1.2

(suite)

p5-e1	8-301	CALL REQ ---> XXXXX CONF --->	<---CLEAR, RESTART REQ
p5-e2	8-303	CLEAR CONF---> XXXXX CONF --->	<---CLEAR, RESTART REQ
p5-e3	8-304	DATA ---> XXXXX CONF --->	<---CLEAR, RESTART REQ
p5-e4	8-307	RR ---> XXXXX CONF --->	<---CLEAR, RESTART REQ
p5-e5	8-308	RNR ---> XXXXX CONF --->	<---CLEAR, RESTART REQ
p5-e6	8-309	RESET REQ ---> XXXXX CONF --->	<---CLEAR, RESTART REQ
p5-e7	8-310	RESET CONF ---> XXXXX CONF --->	<---CLEAR, RESTART REQ
<p>Verification sequence: RESET IND -----> <----- RESET CONF</p> <p>NOTE: This test shall be performed with the cause value '01'H, '05'H, '11'H, '13'H, '21'H.</p>			

J.5.9 DTE clear request state

Before each test:
IS: RESTART IND ---->
<--- RESTART CONF
CALL IND ---->
<--- CALL CONF
CLEAR CONF ---->
<--- CLEAR REQ (p6)

steps	TEST	ISO 8882	from TESTER	from IUT
5	p6-n1	9-101 ->105	CLEAR IND --> (see NOTE)	<-- nothing
	p6-n2	9-106	CLEAR CONF ---->	<-- nothing
	p6-i1	9-201	PACKET ----> (2 octets) CLEAR CONF -->	<-- nothing
	p6-i2	9-202	Packet undefined----> CLEAR CONF ---->	<-- nothing
	p6-i3	9-203	RESTART IND ----> with (LCI<> 0) CLEAR CONF ---->	<-- nothing
	p6-i4	9-204	RESTART CONF ----> with (LCI<> 0) CLEAR CONF ---->	<-- nothing
	p6-i5	9-205	CALL IND ----> (too short) CLEAR CONF ---->	<-- nothing
	p6-i7	9-206	CALL IND ----> (too long) CLEAR CONF ---->	<-- nothing
	p6-i8	9-207	CALL CONF ----> (too long) CLEAR CONF ---->	<-- nothing
	p6-i9	9-208	CLEAR IND ----> (too short) CLEAR CONF ---->	<-- CLEAR REQ
	p6-i10	9-209	CLEAR IND ----> (too long) CLEAR CONF ---->	<-- CLEAR REQ
	p6-i11	9-210	CLEAR CONF ----> (too long) CLEAR CONF ---->	<-- CLEAR REQ

(suite)

p6-e1	9-301	CALL IND ---> CLEAR CONF --->	<--- nothing
p6-e2	9-303	CALL CONF ---> CLEAR CONF --->	<--- nothing
p6-e3	9-304	DATA ---> CLEAR CONF --->	<--- nothing
p6-e4	9-307	RR ---> CLEAR CONF --->	<--- nothing
p6-e5	9-308	RNR ---> CLEAR CONF --->	<--- nothing
p6-e6	9-309	RESET IND ---> CLEAR CONF --->	<--- nothing
p6-e7	9-310	RESET CONF---> CLEAR CONF --->	<--- nothing
Verification sequence: RESET IND -----> <----- RESET CONF NOTE: This test shall be performed with the cause value '01'H, '05'h '11'H, '13'H, '21'H.			

J.5.10 DXE clear indication state

Before each test:
IS: CALL IND ---->
<---- CALL CONF
CLEAR IND (p7)---->

steps	TEST	ISO 8882	from TESTER	from IUT
	p7-i1	10-201	PACKET ----> (2 octets) XXXXX CONF ---->	<--CLEAR, RESTART REQ
	p7-i2	10-202	PACKET ----> (unidentifiable) XXXXX CONF ---->	<--CLEAR, RESTART REQ
	p7-i3	10-203	RESTART IND ----> (LCI<> 0)s CLEAR CONF -->	<--CLEAR, RESTART REQ
	p7-i4	10-204	RESTART CONF ----> (LCI<> 0) XXXXX CONF ---->	<--CLEAR, RESTART REQ
	p7-i5	10-205	CALL IND ----> (short) XXXXX CONF ---->	<--CLEAR, RESTART REQ
	p7-i6	10-206	CALL IND ----> (long)<> 0) XXXXX CONF ---->	<--CLEAR, RESTART REQ
	p7-i7	10-207	CALL CONF ----> (long) XXXXX CONF ---->	<--CLEAR, RESTART REQ
	p7-i8	10-208	CLEAR IND ----> (short) XXXX XX ---->	<-- nothing <--CLEAR, RESTART REQ or CLEAR CONF
	p7-i9	10-209	CLEAR IND ----> (long) XXXX XX ---->	<--CLEAR, RESTART REQ or CLEAR CONF or nothing
	p7-i10	10-210	CLEAR CONF----> (long) XXXX CONF---->	<--CLEAR, RESTART REQ
	p7-e1	10-301	CALL IND ----> XXXX CONF---->	<--CLEAR, RESTART REQ
	p7-e2	10-303	CALL ACC ----> XXXX CONF ---->	<--CLEAR, RESTART REQ

(suite)

5	p7-e3	10-304 -->308	CLEAR IND ---> (see NOTE) XXXX XXX --->	<--nothing <--CLEAR, RESTART REQ or CLEAR CONF
	p7-e4	10-309	CLEAR CONF --> XXXX CONF --->	<--CLEAR, RESTART REQ
	p7-e5	10-310	DATA ---> XXXX CONF --->	<--CLEAR, RESTART REQ
	p7-e6	10-313	RR ----> XXXX CONF --->	<--CLEAR, RESTART REQ
	p7-e7	10-314	RNR ---> XXXX CONF --->	<--CLEAR, RESTART REQ
	p7-e8	10-315	RESET IND ---> XXXX CONF --->	<--CLEAR, RESTART REQ
	p7-e9	10-316	RESET CONF ---> XXXX CONF --->	<--CLEAR, RESTART REQ
Verification sequence: RESET IND ----> <---- RESET CONF or RESET REQ NOTE: This test shall be performed with the cause value '01'H, '05'H, '11'H, '13'H, '21'H.				

J.5.11 Flow control ready state

Before each test:
IS: CALL IND ---->
<----- CALL CONF (d1)

steps	TEST	ISO 8882	from TESTER	from IUT
	d1-n1	11-101	RESET IND --->	<-- RESET CONF,REQ or RESTART,CLEAR REQ
	d1-n2	11-102	DATA --->	<-- RR or nothing
	d1-n3	11-103	DATA ---> RESET IND ----> DATA --->	<-- RR or nothing <-- RESET CONF <-- RR or nothing
	d1-i1	11-201	Pkt,PTI<loctet --> (pkt len= 2 octets XXXXX CONF --->	<-- RESET,CLEAR or RESTART REQ
	d1-i2	11-202	Packet with ---> PTI=H0D XXXXX CONF -->	<--RESET,CLEAR or RESTART REQ
	d1-i3	11-203	RESTART IND ----> with1(LCI<> 0) XXXXX CONF ---->	<--- RESET,CLEAR or RESTART REQ
	d1-i4	11-204	RESTART CONF ----> with (LCI<> 0) XXXXX CONF ---->	<--- RESET,CLEAR or RESTART REQ
	d1-i5	11-205	RESET IND ----> (short) XXXXX CONF ---->	<--- RESET,CLEAR or RESTART REQ
	d1-i6	11-206	RESET IND ----> (long) XXXXX CONF ---->	<--RESET,CLEAR or RESTART REQ
	d1-i7	11-207	RSET CONF ----> (long) XXXXX CONF ---->	<--- RESET,CLEAR or RESTART REQ
	d1-e1	11-301	RESET CONF ----> XXXXX CONF ---->	<-- CLEAR,RESET or RESTART REQ
	d1-e2	11-302	CALL IND ----> XXXX CONF ---->	<--RESET,RESTART REQ

(suite)

	d1-e3	11-303	CLEAR IND ---> XXXX CONF --->	<--RESET,RESTART REQ
Verification sequence: RESET IND ----> <---- RESET REQ or RESET CONF				

J.5.12 DTE reset request state

Before each test:
IS: Incoming Call ---->
 <----- CALL RESP
 Data, invalid P(R) ---->
 <----- RESET REQ

steps	TEST	ISO 8882	from TESTER	from IUT
	d2-n1	12-101	RESET IND ---> RESET CONF --->	<-- nothing
	d2-i1	12-201	PACKET ---> (2 octets) RESET CONF --->	<-- nothing
	d2-i2	12-202	Packet undefined---> (PTI = 0D) RESET CONF --->	<-- nothing
	d2-i3	12-203	RESTART IND ---> with1(LCI<> 0) RESET CONF --->	<-- nothing
	d2-i4	12-204	RESTART CONF ---> with (LCI<> 0) RESET CONF --->	<-- nothing
	d2-i5	12-205	RESET IND ---> (short) RESET CONF --->	<-- RESET REQ
	d2-i6	12-206	RESET IND ---> (long) RESET CONF --->	<-- RESET REQ
	d2-i7	12-207	RESET CONF ---> (long) XXXXX CONF --->	<-- RESET REQ
	d2-e1	12-303	DATA, Q=M=0 ---> RESET CONF --->	<--nothing
	d2-e2	12-304	RR -----> RESET CONF --->	<--nothing
	d2-e3	12-305	RNR -----> RESET CONF --->	<--nothing
	d2-e4	12-306	CALL IND --> RESET CONF --->	<--nothing

(suite)

	d2-e5	12-307	CLEAR IND ---> RESET CONF --->	<---nothing
Verification sequence: RESET IND -----> <----- RESET CONF				

J.5.13 DXE reset indication state

Before each test:
IS: RESTART IND ---->
 <----- RESTART CONF
 CALL IND ---->
 <----- CALL CONF
 RESET IND (d3) ---->

steps	TEST	ISO 8882	from TESTER	from IUT
	d3-i1	13-201	PACKET ----> (2 octets) RESET CONF ---->	<-- RESET REQ
	d3-i2	13-202	Packet undefined----> RESET CONF ---->	<-- RESET REQ
	d3-i3	13-203	RESTART IND ----> with (LCI<> 0) RESET CONF ---->	<-- RESET REQ
	d3-i4	13-204	RESTART CONF ----> with (LCI<> 0) RESET CONF ---->	<-- RESET REQ
	d3-i5	13-205	RESET IND ----> (short) RESET CONF ---->	<-- RESET REQ
	d3-i6	13-206	RESET IND ----> (long) RESET CONF	<-- RESET REQ
	d3-i7	13-207	RESET CONF ----> (long) RESET CONF ---->	<-- RESET REQ
	d3-e1	13-301	RESET IND ---->	<-- nothing <-- RESET CONF
	d3-e2	13-302	RESET CONF ----> RESET CONF ---->	<-- RESET CONF
	d3-e3	13-305	DATA ----> RESET CONF ---->	<-- RESET REQ
	d3-e4	13-306	RR ----> RESET CONF ---->	<-- RESET REQ

(suite)

	d3-e5	13-307	RNR ---> RESET CONF --->	<-- RESET REQ
	d3-e6	13-308	CALL IND ---> XXXX CONF --->	<--RESET,RESTART REQ
	d3-e7	13-309	CLEAR IND ---> XXXX CONF --->	<--RESET,RESTART REQ
Verification sequence: RESET IND -----> <----- ESET CONF				

J.5.14 DXE receive ready state

Before each test:
IS: RESTART IND ----->
<----- RESTART CONF
CALL IND ----->
<---- CALL CONF

steps	TEST	ISO 8882	from TESTER	from IUT
	f1-n1	18-101	DATA -----> (until window full)	<-- RR
	f1-n2	18-102	DATA -----> (until window full) RNR -----> RR ----->	<-- nothing <---- RR
	f1-i1	18-201	RR -----> (too long) XXXX CONF ---->	<--nothing or RESET CLEAR,RESTART REQ
	f1-i2	18-202	RNR ---> (too long) XXXX CONF ---->	<--nothing or RESET CLEAR,RESTART REQ
	f1-e1	18-301	RR ---> (invalid)p(r) XXXX CONF ---->	<--CLEAR, RESTART or RESET REQ
	f1-e2	18-302	RNR ---> (invalid p(r)) XXXX CONF ---->	<--CLEAR, RESTART or RESET REQ

<----- RESET CONF

J.5.15 DXE receive not ready state

Before each test:
IS: RESTART IND ----->
<----- RESTART CONF
CALL IND ----->
<----- CALL CONF

steps	TEST	ISO 8882	from TESTER	from IUT
	f2-n1	19-101	RNR -----> RR -----> DATA --->	<-- nothing <-- nothing <-- RR
	f2-i1	19-201	RNR -----> RR -----> (too long) XXXX CONF --->	<-- nothing <--nothing or RESET CLEAR, RESTART REQ
	f2-i2	19-202	RNR -----> RNR ---> (too long) XXXX CONF	<-- nothing <--nothing or RESET CLEAR, RESTART REQ
	f2-e1	19-301	RNR ---> RR -----> (invalid p(r)) XXXX CONF --->	<--nothing CLEAR, RESTART REQ <-- CLEAR, RESET or RESTART REQ
	f2-e2	19-302	RNR ---> RNR ---> (invalid p(r)) XXXX CONF --->	<--nothing <-- CLEAR, RESET or RESTART REQ
Verification sequence: RESET IND -----> <----- RESET CONF				

J.5.16 DTE receive ready state

Before each test:
IS: RESTART IND ---->
 <--- RESTART CONF
 CALL IND ---->
 <--- CALL CONF

steps	TEST	ISO 8882	from TESTER	from IUT
	g1-n1	20-102	DATA ----> (no user data)	<-- RR
	g1-i1	20-201	DATA ----> (too long) XXXX CONF ----> DATA ---->	<--nothing or RESET CLEAR, RESTART REQ <---RR
	g1-i2	20-203	DATA ----> (too long with M bit) XXXX CONF ----> DATA ---->	<--nothing or RESET CLEAR, RESTART REQ <--- RR
	g1-e1	20-301	DATA ----> (invalid p(r)) XXXX CONF ----> DATA ---->	<--CLEAR, RESTART or RESET REQ <--- RR
	g1-e2	20-302	DATA ----> (invalid p(s)) XXXX CONF ----> DATA ---->	<--nothing or RESET CLEAR, RESTART REQ <--- RR

(suite)

	g1-e3	20-308 T.90	DATA ---> (D-bit set) XXXX CONF ---->	<--CLEAR, RESTART or RESET REQ
Verification sequence: RESET IND ----> <----- RESET CONF				

J.5.17 Window filling and rotation state

Before each test: for tests 1, 2, 3

IS: CALL IND <--- CALL IND
CALL CONF --->

DATA (TDT (RDCLP))
--->
<--- DATA (TDT) w times
(without acknowledgment until window limit)

Before each test : for test 4, 5, 6, 7

CALL IND --->
<--- CALL CONF

steps	TEST	ISO 8882	from TESTER	from IUT
	ex-n1	22-101	RR (p(r))--->	<-- nothing <--- DATA
	ex-n2	22-102	RNR (p(r))---> RR (p(r)) --->	<--- nothing <--- nothing <--- DATA
	ex-n3	22-105	RR (p(r)) --->	<-- DATA(ps=0,pr=0)
	ex-n4	22-106	N * DATA ---> (M-bit, N <9)	<-- RR (N times)
	ex-i1	22-202	DATA ---> (M-bit = 1) XXXX CONF --->	<---CLEAR, RESTART or RESET REQ
	ex-i2	22-203 T.90	DATA ---> (Q-bit =1)) XXXX CONF	<-- CLEAR, RESTART or RESET REQ
	ex-i3	22-204	DATA ---> (invalid p(s)) DATA --->	<-- RESET REQ <-- nothing
Verification sequence: RESET IND -----> <----- RESET CONF				

J.5.18 Timer tests

Before each test: no specific initial sequence

steps	TEST	ISO 8882	from TESTER	from IUT
	ti-n1	23-101	nothing --->	<-- RESTART REQ <-- RESTART REQ (timer T.20)
	ti-n2	23-102	nothing ---> CLEAR CONF --->	<-- CALL REQ <-- CLEAR REQ (timer T.21)
	ti-n3	23-103	CALL CONF ---> RESTART IND ---> (with LCI<> 0) nothing --->	<-- CALL REQ <-- RESET REQ <-- RESET REQ (timer T.22)
	ti-n4	23-105	RESTART IND ---> (with LCI <> 0) nothing --->	<---CLEAR REQ <---CLEAR REQ (timer T.23)
	ti-n5	23-107	CALL CONF ---> nothing --->	<-- CALL REQ <-- DATA (until Window limit) <-- DATA (ps=1)
	ti-n6	23-110	RESET IND --> nothing ---> REG CONF --->	<-- RESET REQ <-- REGISTRATION <-- REGISTRATION (timer T.28)
Verification sequence: RESET IND -----> <----- RESET CONF				

J.5.19 Address tests

Before each test:

IS: no specific initial sequence

steps	TEST	ISO 8882	from TESTER	from IUT
	ad-n1	24-101	CALL IND ---> (called address max) DATA --->	<-- CALL CONF <-- RR
	ad-n2	24-102	CALL IND ---> (valid called & calling address) DATA --->	<-- CALL CONF <-- RR
	ad-i1	24-201	CALL IND ---> (non BCD calling ad) XXXX CONF --->	<--CLEAR, RESTART REQ
	ad-i2	24-202	CALL IND ---> (invalid called ad.) XXXX CONF --->	<--CLEAR, RESTART REQ
	ad-i3	24-203	CALL IND ---> (invalid calling ad) XXXX CONF --->	<--CLEAR, RESTART REQ
Verification sequence: RESET IND ----> <---- RESET CONF				

J.5.20 Facility tests

Before each test:
IS: Restart Procedure

steps	TEST	ISO 8882	from TESTER	from IUT
	fa-n1	25-105	CLEAR IND ---> (with user data)	<-- CALL REQ <-- CLEAR CONF
	fa-n2	25-106	CALL CONF ---> (with user data) CLEAR CONF --->	<-- CALL REQ <-- CLEAR REQ
	fa-n3	25-107	CALL IND ---> (default throughput class)	<--CALL CONF
	fa-n4	25-108	CALL CONF ---> (default th.class)	<-- CALL REQ <-- nothing
	fa-n5	25-109	CALL IND ---> default pkt size	<-- CALL ACC
	fa-n6	25-110	CALL IND ---> default window size	<-- CALL ACC
	fa-n7	25-111	CALL IND ---> Transit Delay Ind.	<-- CALL ACC
	fa-n8	25-112	CALL IND ---> Closed User G < 100	<-- CALL ACC
	fa-n9	25-113	CALL IND ---> CUG >99 & CUG <10000	<-- CALL ACC
	fan10	25-114	CALL IND ---> bilateral CUG	<-- CALL ACC
	fan11	25-115	CALL IND ---> Reverse Charging	<-- CALL ACC
	fa-i1	25-201	CALL IND ---> facility lengh>109 XXXX CONF --->	<--CLEAR, RESTART REQ
	fa-i2	25-202	CALL IND --> (no facility field) XXXX CONF --->	<--CLEAR, RESTART REQ
	fa-i3	25-203	CALL IND ---> facility not allowed XXXX CONF --->	<--CLEAR, RESTART REQ

(suite)

fa-i4	25-204	CALL IND ---> call duration XXXX CONF --->	<---CLEAR, RESTART REQ
fa-i5	25-205	CALL IND ---> CUG selection XXXX CONF --->	<---CLEAR, RESTART REQ
fa-i6	25-206	CALL IND ---> flow control nego. XXXX CONF --->	<---CLEAR, RESTART REQ
fa-i7	25-207	CALL IND ---> too short fac length RESTART CONF---> or CLEAR CONF ---> (Reverse Charging) CLEAR CONF --->	<---CLEAR, RESTART REQ <-- CLEAR REQ
fa-i8	25-208	CALL IND ---> (facility= 'FE'H) XXXX CONF --->	<---CLEAR, RESTART REQ
fa-i9	25-209	CALL IND ---> CLEAR IND ---> (facility= 'FE'H) XXXX CONF --->	<--- CALL CONF <---CLEAR, RESTART REQ
Verification sequence: RESET IND -----> <----- RESET CONF			

J.6 Basic Interconnection Tests (BITS)

A set of Basic Interconnection Tests (BITS) may be used to determine the interoperability between the Test Laboratory and the IUT prior to running the full test suite. When these BITS are used they shall be selected from the following list; this Clause is based on answers given in the PICS and PIXIT proformas and the corresponding entries in the PICS/PIXIT cross reference tables.

Test Case	Test Purpose
r1-n1	Verify the IUT accepts a RESTART IND in r1
r2-n1	Verify the r2 to r1 via RESTART IND
r2-n2	Verify the r2 to r1 via RESTART CONF
p1-n1	Verify the IUT accepts a valid CALL IND in p1
p2-n2	Verify the IUT accepts a CALL CONF in p2
p6-n2	Verify the IUT accepts a CLEAR CONF in p6
d1-n1	Verify the IUT accepts a RESET REQ
d1-n2	Verify the IUT can accepts DATA in state d1
12-101	Verify is in state d1 after receiving a RESET CONF while in state d2

5-3 Specific tests for t.

1- T.70/ paragraph 3.1.3

Before each test:

IS: establishment of link layer

steps	TEST	T.70	FROM TESTER	FROM IUT
	spe-1	2.1.2.3.2 a) T.90	CALL IND ----> XXXX CONF ---->	<-RESET,RESTART REQ
	spe-2	3.1.3 a)	RESTART IND ---> CALL IND ----> DATA(Q-bit set)----> XXXX CONF ---->	<---RESTART CONF <---CALL CONF <---CLEAR, RESET or RESTART REQ
	spe-3	3.1.3 b)	see normal test referred g1-e3	
	spe-4	3.1.3 c)	not tested	
	spe-5	3.1.3 e)	RESTART IND ---> CALL IND ----> DATA (CDS) ----> TDT(CDUI) ----> (CDUI of 1k octets) TDT(CDPB) ---->	<--- RESTART CONF <--- CALL CONF <-- TDT(CDPBP)
	spe-6	3.1.3 f)	not tested	
	spe-7	3.1.3 g)	RESTART IND ---> CALL IND ----> (User Data = 03H) XXXX CONF ---->	<--- RESTART CONF <-RESET,RESTART REQ
Verification sequence: RESET IND ----> <--- RESET CONF				

Sequence CMD6/4			Test area Called side State 6
Object	Ignore unexpected commands and responses in Link-Disconnection		
Step	Tester	SUT	Description
	SABM P	UA F	
	I-TCR	[RR] I-TCA	
	I-CSE	RR	
	I-TCR	DISC P	
1		-	
2	RR	-	
3	RNR	-	
4	RR P	[DM F]	NPR for type approval
5	RR	[DM]	NPR for type approval
6	RNR	[DM]	NPR for type approval
7	RNR P	[DM F]	NPR for type approval
8	REJ	-	
		DISC P	
9	FRMR	-	
10	DM	-	
11	FCS-Frame	-	
12	ADR-Frame	-	
13		DISC P	
14	UA F	X. 21-	
	X. 21-		
	end		

Sequence			| Test area | Called side | State 6/1
CMD6/5			
Object	Ignore NEF and EI-Frame		
Step	Tester	SUT	Description
	SABM P	UA F	
	I-TCR	[RR] I-TCA	
1	I-CSE	DISC P	
2	NEF-W	-	
3	NEF-X	-	
4	EI-Frame	-	
	NEF-Y	DISC P	
5	NEF-Z	-	
7		-	
8		DISC P	
9	REJ P	[DM F]	NPR for type approval
	REJ	[DM]	NPR for type approval
10		DISC P	
11	DM F		
12	X. 21-	X. 21-	
	end		

Sequence CMD1/6			Test area Called side State 1
Object	Flags handling in ADM		
Step	Tester	SUT	Description
1	X. 21+ wait	send flag	
2	end	X. 21-	

Sequence CMG2/1			Test area Calling side State 2
Object	Flags handling		
Step	Tester	SUT	Description
	send mark	Flags SABM P Flags SABM P Flags SABM P X. 21-	wait for a call based on X.21 max. 8 times
	end		

Sequence CMG2/2			Test area Calling side State 2
Object	Number of SABM checking after establishment of X.21		
Step	Tester	SUT	Description
1		SABM P	max 8 times
2		wait 3-6	
3		SABM P · ·	
4		SABM P X. 21-	
	end		

Sequence CMG2/3			Test area Called side State 2
Object	Responses to be ignored in the Link set up Phase		
Step	Tester	SUT	Description
1	FRMR	SABM P	
2		-	
3	RR F	-	
4	RR	-	
5		SABM P	
6	RNR F	-	
7	RNR	-	
8	REJ F	-	
9		SABM P	
10	REJ	-	
11	UA	-	
12	DM	-	
13	X. 21-	SABM P	
	end		

Sequence CMG2/4			Test area Calling side State 1/2
Object	Treatment of responses and commands in State 1/2		
Step	Tester	SUT	Description
1	FRMR	SABM P	NPR for type approval
2	RR	-	
3	RNR	-	
4	<03> RR P	SABM P	
		-	
		<----->	
		<03> DM F	
		SABM P	
5	DM	-	
6	DM F wait 8 X. 21- end	SABM P X. 21-	

Sequence CMG2/5			Test area Calling side State 2
Object	Ignore NEF, incomplete blocks, FCS- and address errors		
Step	Tester	SUT	Description
1	NEF-W	SABM P	
2	NEF-W P	-	
3	NEF-X	-	
4	NEF-X P	-	
5	NEF-Y	SABM P	
6	EI-Frame	-	
	INFrame	-	
7	FCS-Frame	SABM P	
8	ADR-Frame	-	
9	UA F	SABM P	
	RR	I-TCR	
	DISC P		
	X. 21-	UA F	
	end		

Sequence CMG2/6			Test area Calling side State 1/2
Object	Call collision		
Step	Tester	SUT	Description
1	SABM P	SABM P	NPR for type approval
2	wait	UA F	
3	UA F	SABM P <----- I-TCR <-----	
	end		

Sequence CMG31/1			Test area Calling side State 3.1.1
Object	Handling of DM and FRMR as calling terminal		
Step	Tester	SUT	Description
1	UA F	SABM P	NPR for type approval
	RR	I-TCR	
	DM F	SABM P <----- X. 21- <-----	
	DM	SABM P <----- X.21- <-----	NPR for type approval
	FRMR	SABM P <----- X.21- <-----	NPR for type approval
	end	DISC P <-----	

Sequence CMG31/2			Test area Calling side State 3.1.1
Object	Ignore an unexpected UA in the data transfer phase		
Step	Tester	SUT	Description
1		SABM P SABM P	
2	UA F UA F RR X. 21- end	I-TCR	

Sequence CMG31/3			Test area Calling side State 3.1.1/4
Object	Detection of NEF in the Information Transfer Phase		
Step	Tester	SUT	Description
1	UA F RR F NEF-W wait 8	SABM P I-TCR FRMR	
2		X.21- <-----	NPR for type approval
3		SABM P <-----	NPR for type approval
4		DISC P <----- FRMR <-----	
	X. 21- end		

**Annex K (informative): Test procedures for the data link layer in CSPDN,
National requirements ("N")**

Test No.	D e s c r i p t i o n	
	No additional national requirements -----	

Annex L (informative): Test procedures for the network layer in CSPDN, ETSI requirements ("C")

L.1 General

L.1.1 Introduction

These test schedules describe a number of tests which collectively provide a means to extensively check the conformance of a Network Layer implementation.

These test schedules are applicable for terminals which are operating into the CSPDN. Tests covering other layers are contained in other Clauses of this ETS.

L.1.2 Description

The test schedule describes the relevant tests in tabular form. Clause L.2 contains the test sequences for the CSPDN case.

L.2 Test schedules for the CSPN case

Sequence CMD1/0			Test area Called side
Object		General test	
Step	Tester	SUT	Description
.0	SABM	UA	
	TCR (V01)	TCA	
.1	CSS	RSSP	
	CDS	-	
.2	CDUI EM=0	-	
	DM F=0	X.21-	
	end	<-----	

Sequence CMD1/1			Test area Called side
Object		Function of linking with M-Bit in the establishment of connection.	
Step	Tester	SUT	Description
.0	SABM P	UA F	
	TCR, MBit 1.part	-	
.1	TCR- 2.part	<	
	DISC	TCA	
	end	UA	

Sequence CMD1/0			Test area Called side
Object	Detection of layer 3 error		
Step	Tester	SUT	Description
.0	SABM P TCR, L.3- LI<>1 UA end	UA F DISC P	

Sequence CMD1/3			Test area Called side
Object	Detection of Layer 3 error		
Step	Tester	SUT	Description
.0	SABM P TCR, QBit UA end	UA F DISC P	

Sequence CMD1/4			Test area Called side
Object	General test		
Step	Tester	SUT	Description
.0	SABM P TCR(V15) CSS,MBit 1.part	UA F TCA n.EA	with blocklength not known without extended address
.1	CSS 2.part	-	
.2	DISC P end	RSSP UA F	

Sequence CMD1/5			Test area Called side
Object	Detection of L.3-error during the data transmission		
Step	Tester	SUT	Description
.0	SABM P TCR (V01) CSS CDS CDUI TDT,L.3 LI<>1 UA	UA F TCA RSSP - - DISC P end	

Sequence CMG1/1			Test area Called side
Object	Detection of M-Bit in header L.3		
Step	Tester	SUT	Description
.0	UA F TCA,MBit TCA 2.part DISC P end	SABM P TCR - CSS UA F	

Sequence NMG1/1			Test area Calling side
Object	M-Bit shall not be used after Block size Negotiation		
Tester action	Tester detects	a) state diagram route b) NSDU's sent by the tester c) comments	
S-TCA S-TDT (RSSP) Release of the Network Connection	R-TCR R-CSS R-TDT (CDS) R-TDT (CDUI) R-CDE or R-CDPB	Before this test, the SUT shall establish the network connection a) 1.1 c) the following test shall only be carried out if the SUT uses block size > 128 octets c) SUT shall not use M-Bit	

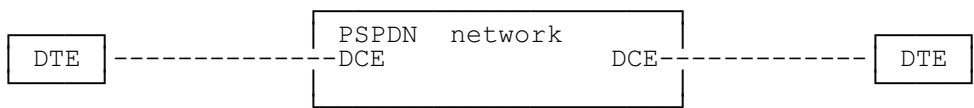
Sequence NMD1/2			Test area Calling side
Object	Function of linking with M-Bit in the establishment of connection		
Tester action	Tester detects	a) state diagram route b) NSDU's sent by the tester c) comments	
		This test is an extension of case 1.1 in Annex K. Check that the SUT does not use the M-bit function by sending TCA	

Sequence NMD1/3			Test area Called side
Object	Handling of negotiated TPDU-size		
Tester action	Tester detects	a) state diagram route b) NSDU's sent by the tester c) comments	
S-TCR S-CSS S-TDT (CDS) S-TDT (CDUI) S-CDE S-CSE Release of network connection	R-TCA R-TDT (RSSP) R-TDT (RDEP) R-TDT (RSEP)	Before this test, the tester shall establish the network connection a) 1.1 b) TCR V3 (see Annex 1/T.64) c) the following test shall only be carried out if the SUT uses block size > 128 octets c) all TDT's shall be sent without segmentation	

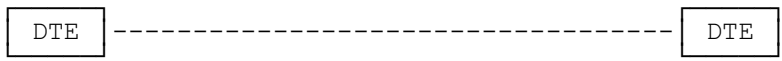
Annex N (informative): Test procedures for the data link in PSTN, ETSI requirements ("C")

N.1 Test for X.25 protocol, layer 2, on PSTN network for teletex service

The base for layer 2 are the tests described in NET 2 [19]. For layer 2, the use of the X.25 protocol is nearly the same for the two transfer modes. Some specific tests (not described in NET 2 [19]) are necessary under CCITT Recommendation X.32 (e.g. use of the XID frame).



Packed switched transfer mode



Circuit switched transfer mode

Annex P (informative): Test procedures for the network layer in PSTN, national requirements ("N")

No additional national requirements.

Annex Q (normative): Teletex Protocol Implementation Conformance Statement (PICS)

Q.1 Abbreviations

The abbreviations used in this annex are as defined in the relevant CCITT and ITU-T Recommendations and ETSI standards. Furthermore, the following abbreviations are used:

CSDN	Circuit Switched Data Network. This notation is equivalent to CSPDN for Circuit Switched Publink Data Network
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SUT	System Under Test

Q.2 Introduction

A conformance statement for a Teletex implementation embodying one or more protocol shall consist of the following proformas completed by the supplier(s):

- a) a completed Product PICS proforma;
- b) one completed PICS proforma for each protocol comprising the product.

Q.2.1 Product PICS

The Product PICS comprises the "Product Overview" and the "Product Conformance Status". The overview is intended to provide an "Understanding" of the Teletex system to which the PICS applies.

The purpose of the "Product Conformance Status" proforma is to summarise the claims for conformance of each protocol implementation comprising the Teletex system. It provides references to the PICS, PIXIT, Standards and Test Reports for each protocol.

Q.2.2 Protocol Implementation Conformance Statement (PICS)

For conformance testing, a statement of the capabilities and options which have been implemented, and any features which have been omitted, shall be required so that the implementation can be tested for conformance against relevant requirements, and against those requirements only.

The PICS should distinguish between the following categories of information which it may contain:

- a) information related to the optional and conditional static conformance requirements of the protocol itself (i.e. the capabilities of the protocol implementation both at the broad level of grouping functional units and options into protocol classes, etc., and at detailed level of ranges of parameter and timer values supported); this includes capabilities which are implicitly optional because they are not explicitly stated as being mandatory;
- b) information related to the optional and conditional static conformance requirements for multi-layer dependencies;
- c) other information which shall to be specified (e.g. to assist testing) but which is not related to conformance requirements as such.

Q.3 Instructions for completion

The client who wishes to use a Teletex Conformance Test Service shall complete the Product PICS and the PICS proforma for each protocol he claims to have tested.

Q.3.1 Instructions for the completion of the Product PICS

The client shall complete the two forms for the Product PICS (see Clause Q.4), the "Product Overview" and the "Product Conformance Status".

The client shall use the table "Product Conformance Status" to indicate:

- which layers he requires to be tested (in the right-hand column);
- the "Reference to Standard" for the relevant protocols used;
- the "Reference to PICS and PIXIT" either already used or requested for testing;
- the "Reference to Test Report" for already tested protocols.

In the "Product Overview" in the box "Functional Overview" the functional units shall be listed.

The national requirements implemented in the system may be stated in the "Notes" box.

EXAMPLE: If a complete Teletex product is to be tested, which is dedicated for the CSDN, lines LINK and NETWORK shall be ticked, additionally TRANSPORT, SESSION/DOCUMENT and APPLICATION layer in the right-hand column in the table. A reference to Standards, the relevant PICS and PIXIT shall be filled in and the Test Report shall be indicated for the Physical layer.

Q.3.2 Instructions for completion of the PICS proforma

A client who wishes to use a Teletex test service shall fill in one PICS proforma for each protocol layer to be tested. The PICS proforma consists of the following clauses containing tables:

- Supported Functions;
- Supported PDUs;
- Initiator/Responder capability;
- Negotiation;
- Timers;
- Procedures and reactions on the protocol errors;
- Particular protocol procedures;
- Counters (Link layer).

Q.3.2.1 Proforma tables

The PICS proforma tables to be completed in by the client, see subclause Q.3.2.2, contains preset key values as follows:

- where items are specified as "mandatory" or "mandatory negotiable" in the Standards, a key value "m" or "n" is preset;
- where items are specified as "optional" or "optional negotiable" in the Standards, a key value "o" or "on" is preset;
- where items are specified as "conditional" in the Standards (i.e. the implementation is dependent on the implementation of another item) a key value "c" is preset.

In short, the possible preset values are:

- m: mandatory;
- n: mandatory negotiable;
- o: optional;
- on: optional negotiable;
- c: conditional;
- : not applicable.

Q.3.2.2 Completion of tables

If a client provides an item he shall indicate this by adding an "X" in the right-hand column, "Implemented Item", in the tables.

The client shall give a justification for not implemented mandatory or mandatory negotiable items.

Q.4 Product PICS

P R O D U C T O V E R V I E W	
SYSTEM IDENTIFICATION:	VERSION NUMBER:
SYSTEM IDENTITY	
COMMERCIAL NAME :	
NAME OF HOST SYSTEM : (IF DIFFERENT)	
VERSION NUMBER :	
SYSTEM SUPPLIER	
NAME :	CONTACT :
STREET :	PHONE No:
CITY :	TELEX No:
COUNTRY :	FAX No. :
SYSTEM OWNER	
NAME :	CONTACT :
STREET :	PHONE No:
CITY :	TELEX No:
COUNTRY :	FAX No. :
FUNCTIONAL OVERVIEW:	
OPERATIONAL ENVIRONMENT (OPERATING SYSTEM, MACHINE CONFIGURATION) :	

P R O D U C T C O N F O R M A N C E S T A T U S					
SYSTEM IDENTIFICATION:			VERSION NUMBER:		
APPLICATION PROTOCOL:			T E L E T E X		
TYPE OF NETWORK:					
PROTOCOL	FORWARD REFERENCE TO		REFERENCE TO STANDARD	REFERENCE TO TEST REPORT	TICK, IF TO BE TESTED
	PICS	PIXIT			
PHYSICAL					
LINK					
NETWORK					
TRANSPORT					
SESSION/ DOCUMENT					
APPLICATION					
NOTES:					

Q.5 Link Layer PICS

This Clause shall be completed only if the terminal is to be connected to a circuit switched data network.

Q.5.1 Supported functions

F U N C T I O N	REFERENCE TO a) X.75 b) T.70 [6]	ABBREV.	STATUS	IMPLE- MENTED ITEM
Single link procedure	a) 2.1.1 b) 3.3.2.3.1	F1	m	
Modulo 8 operation	a) 2.1.5 b) 3.3.2.3.1	F2	m	
Frame abortion	a) 2.2.10	F3	o	
Interframe time fill	a) 2.2.11 b) 3.3.2.3.2	F4	m	
Link set-up	a) 2.4.4.1	F5	m	
Link disconnection	a) 2.4.4.3	F6	m	
Collision of unnumbered commands	a) 2.4.4.5	F7	m	
Link resetting	a) 2.4.7	F8	m	
Sending I-frames	a) 2.4.5.1	F9	m	
Waiting acknowledgement	a) 2.4.5.9	F10	m	
Timeout of T1	a) 2.4.5.9	F11	m	
Remote DTE busy condition	a) 2.4.5.7	F12	m	
Receiving acknowledgement	a) 2.4.5.5	F13	m	
Receiving REJ frame	a) 2.4.5.6	F14	m	
Receiving I-frames	a) 2.4.5.2	F15	m	
Discarding invalid frames	a) 2.3.5.3	F16	m	
Receiving I-frames out of sequence	a) 2.4.5.4	F17	m	
Local DTE busy condition	a) 2.4.5.8	F18	o	
Clearing of local DTE busy condition	a) 2.4.5.8	F19	o	
N2 countout	a) 2.4.5.9	F20	m	

Q.5.2 Supported PDUs

Function: F5, Link set up	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
SABM	a) 2.4.4.1	-	m		
SABM/P	a) 2.4.4.1 b) 3.3.2.3.2	m	m		
DISC	a) 2.4.4.1	-	m		
DISC/P	a) 2.4.4.1	-	m		
UA	a) 2.4.4.1	m	-		
UA/F	"	m	m		
DM	"	m	-		
DM/F	"	m	m		

Function: F6, Link disconnection	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
SABM	a) 2.4.4.4	-	m		
SABM/P	a) 2.4.4.4	-	m		
DISC	a) 2.4.4.3	-	m		
DISC/P	a) 2.4.4.3	m	m		
UA	a) 2.4.4.3	m	-		
UA/F	"	m	m		
DM	"	m	-		
DM/F	a) 2.4.4.4.1	m	m		

Function: F7, Collision of unnumbered commands	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
UA	a) 2.4.4.5	m	m		
UA/F	"	m	m		
DM	"	m	m		
DM/F	"	m	m		

Function: F8, Link resetting	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
SABM	a) 2.4.7	-	m		
SABM/P	a) 2.4.7	o	m		
DISC	a) 2.4.7	-	m		
DISC/P	a) 2.4.7	o	m		
UA	a) 2.4.7	m	-		
UA/F	a) 2.4.7	m	-		

Function: F9, Sending I-frames	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
SABM	a) 2.4.4.2	-	m		
SABM/P	a) 2.4.4.2	-	m		
I-frame	a) 2.4.5.1	m	m		
I-frame/P	a) 2.4.5.9	-	m		
Empty I-frame	b) 3.3.2.3.2	-	m		
RR command	a) 2.4.5.5	-	m		
RR/P	a) 2.4.5.5	-	m		
RR response	a) 2.4.5.5	-	m		
RR/F	a) 2.4.5.5	m	-		
RNR command	a) 2.4.5.7	-	m		
RNR/P	a) 2.4.5.7	-	m		
RNR response	a) 2.4.5.7	-	m		
REJ command	a) 2.4.5.6	-	m		
REJ/P	a) 2.4.5.6	-	m		
DISC	a) 2.4.4.3	m	m		
DISC/P	a) 2.4.4.3	-	m		
UA	a) 2.3.4.9 b) 3.3.2.3.2	-	m		
UA/F	a) 2.3.4.9 b) 3.3.2.3.2	-	m		
DM	a) 2.3.4.9 b) 3.3.2.3.2	-	m		
DM/F	a) 2.4.5.6 b) 3.3.2.3.2	-	m		
FRMR	a) 2.4.6 b) 3.3.2.3.2	-	m		

Function: F10, Waiting acknowledgement	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
I-frame	a) 2.4.5.9	o	m		
I-frame/P	a) 2.4.5.9	o	m		
Empty I-frame	b) 3.3.2.3.2	-	m		
RR command	a) 2.4.5.5	o	m		
RR/P	a) 2.4.5.5	-	m		
RR response	a) 2.4.5.5	-	m		
RNR command	a) 2.4.5.7	-	m		
RNR/P	a) 2.4.5.7	-	m		
RNR response	a) 2.4.5.7	-	m		
REJ command	a) 2.4.5.6	-	m		
REJ/P	a) 2.4.5.6	-	m		
REJ response	a) 2.4.5.6	-	m		
DISC	a) 2.4.4.3	-	m		
DISC/P	a) 2.4.4.3	-	m		
DM	a) 2.4.4.3 b) 3.3.2.3.2	-	m		
DM/F	a) 2.4.4.3 b) 3.3.2.3.2	-	m		
FRMR	a) 2.4.6 b) 3.3.2.3.2	-	m		

Function: F11, T1 Timeout	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
I-frame	a) 2.4.8.1	o	m		
I-frame/P	a) 2.4.5.9	o	m	1)	
Empty I-frame	a) 3.3.2.3.2	-	m		
RR/P	a) 2.4.5.9	o	m	1)	
RNR/P	"	o	m	1)	
REJ/P	"	o	m	1)	
1) One of the alternative options shall be marked.					

Function: F12, Remote DTF busy condition	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
I-frame	a) 2.4.5.7	o	m		
I-frame/P	"	o	m		
RR command	"	o	m		
RR/P	"	o	m		
RR response	"	o	m		
RR/F	"	o	m		
RNR command	"	o	m		
RNR/P	"	o	m		
RNR response	"	o	m		
RNR/F	"	o	m		
REJ command	"	o	m		
REJ/P	"	o	m		
REJ response	"	o	m		
REJ/F	"	o	m		
DISC	a) 2.4.4.3	o	m		
DISC/P	"	o	m		
DM	"	-	m		
DM/F	"	-	m		
FRMR	a) 2.3.4.9 b) 3.3.2.3.2	m	m		

Function: F13, Receiving acknowledgement	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
I-frame	a) 2.4.5.5	-	m		
I-frame/P	"	-	m		
Empty I-frame	b) 3.3.2.3.2	-	m		
RR command	a) 2.4.5.5	-	m		
RR/P	"	-	m		
RR response	"	-	m		
RR/F	"	-	m		
RNR command	"	-	m		
RNR/P	"	-	m		
RNR response	"	-	m		
RNR/F	"	-	m		
REJ command	"	-	m		
REJ/P	"	-	m		
REJ response	"	-	m		
REJ/F	"	-	m		

Function: F14, Receiving REJ frame	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
I-frame	a) 2.4.5.6	m	-		
RR/F	"	o	-		
RNR/F	"	o	-		
REJ/F	"	o	-		

Function: F15, Receiving I-frames	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
SABM	a) 2.4.4.2	-	m		
SABM/P	"	-	m		
I-frame	"	m	m		
I-frame/P	"	o	m		
Empty I-frame	b) 3.3.2.3.2	-	m		
RR command	a) 2.4.5.2	o	-		
RR response	"	o	-		
DISC	a) 2.4.4.3	-	m		
DISC/P	"	-	m		
UA	a) 2.4.4.3 b) 3.3.2.3.2	-	m		
UA/F	a) 2.4.4.3 b) 3.3.2.3.2	-	m		
DM	a) 2.4.4.3 b) 3.3.2.3.2	-	m		
DM/F	a) 2.4.4.3 b) 3.3.2.3.2	-	m		
FRMR	a) 2.4.6 b) 3.3.2.3.2	m	-		

Function: F17, Receiving I-frames out of sequence	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
REJ command	a) 2.4.5.4	o	-	1)	
REJ/P	"	o	-	1)	
REJ response	"	o	-	1)	
1) One of the alternative options shall be marked.					

Function: F18, Local DTE busy condition	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
I-frame	a) 2.4.5.8	o	m		
I-frame/P	"	o	m		
Empty I-frame	"	-	m		
RR command	"	-	m		
RR/P	"	-	m		
RR response	"	-	m		
RR/F	"	-	m		
RNR command	"	o	m	1)	
RNR/P	"	o	m	1)	
RNR response	"	o	m	1)	
REJ command	"	-	m		
REJ/P	"	-	m		
REJ response	"	-	m		
1) One of the alternative options shall be marked.					

Function: F19, Clearing of local DTE busy condition	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
RR command	a) 2.4.5.8	o	-	1)	
RR/P	"	o	-	1)	
RR response	"	o	-	1)	
REJ command	"	o	-	1)	
REJ/P	"	o	-	1)	
REJ response	"	o	-	1)	
1) One of the alternative options shall be marked.					

Function: F20, N2 countout	REFERENCE TO a) X.75 b) T.70 [6]	STATUS		IMPLEMENTED ITEM	
		Tr.	Rec	Tr.	Rec
DISC	a) 2.4.4.3	m	-		

Q.5.3 Initiator/responder capability

Not applicable.

Q.5.4 Timers

Timer	REFERENCE TO a) X.75 b) T.70 [6]	Valid Range (seconds)	STATUS	IMPLEMENTED ITEM
T1	a) 2.4.8.1 b) 3.3.2.3.2	6	m	
T3	a) 2.4.8.3 b) 3.3.2.3.2	> = 48	m	

Q.5.5 Procedures and reactions to protocol errors

Not applicable.

Q.5.6 Counters

Counter	REFERENCE TO a) X.75 b) T.70 [6]	Valid Range	IMPLEMEN TED ITEM
N1//transmit	a) 2.4.8.5 b) 3.3.2.3.2	1 080 - 1 6440	
N1/receive	a) 2.4.8.3 b) 3.3.2.3.2	1 080 - 1 6440	
N2	a) 2.4.8.4 b) 3.3.2.3.2	< = 8	
k/transmit	a) 2.4.8.6 b) 3.3.2.3.2	2 - 7	
k/receive	a) 2.4.8.6 b) 3.3.2.3.2	2 - 7	

Q.6 Network layer PICS

This Clause shall be completed only if the terminal is to be connected to a circuit switched data network.

Q.6.1 Supported functions

F U N C T I O N	REFERENCE TO T.70 [6]	ABBREV.	STATUS	IMPLEMEN TED ITEM
Send Network data blocks	3.3.3	F1	m	
Receive Network data blocks	3.3.3	F2	m	

Q.6.2 Supported PDUs

Function: F1, Send Network data blocks	REFERENCE TO T.70 [6]			IMPLEMEN TED ITEM
NPDU	3.3.3.2		m	

Function: F2, Receive Network data blocks	REFERENCE TO T.70 [6]			IMPLEMEN TED ITEM
NPDU	3.3.3.2		m	

Q.6.3 Initiator/responder capability

Not applicable.

Q.6.4 Particular protocol procedures

Particular protocol procedures	REFERENCE TO T.70 [6]			IMPLEMEN TED ITEM
Support of received M-Bit	3.3.3.3.1		m	
Transmit M-Bit	3.3.3.3.1		o	

Q.7 Transport layer PICS**Q.7.1 Supported Functions**

No	F U N C T I O N	REFERENCE TO T.70 [6]	ABBREV.	STATUS	IMPLEMEN TED ITEM
1	Transport connection establishment and termination	5.1.4.1a)	F1	m	
2	Transport connection identification	5.1.4.1a)	F2	m	
3	Extended addressing (see 6.1.1)	5.1.4.1a)	F3	o	
4	Transport data block size negotiation	5.1.4.1a)	F4	on	
5	Data transfer	5.1.3.2	F5	m	
6	Data delimitation	5.1.4.1b)	F6	m	
7	Segmentation/Reassembling	5.1.4.1b)	F7	m	
8	Detection and indication of procedural errors	5.1.4.1c)	F8	m	
9	Recovery from network disconnection	A.1.2.4	F9	m	
10	Recovery from network reset	A.1.2.3	F10	m	

No	Extended Addressing Capability	REFERENCE TO T.70 [6]	STATUS	IMPLEMEN TED ITEM
1	Use of extended address	5.2.6	o	
2	Response on a received TCR with or without EAG	5.2.6.2	m	
3	Routing in a multi-terminal configuration with extended addressing	5.2.6.2	o	
4	Reaction to a received TCA with or without EAD	5.2.6.3	m	

Q.7.2 Supported TPDUs

No	Functions F1, F2, F3, F4	REFERENCE TO T.70 [6]	STATUS	IMPLEMEN TED ITEM
1	TCR	5.2.2	m	
2	TCA	5.2.3	m	
3	TCC	5.2.4	o	

No	Functions F5, F6, F7	REFERENCE TO T.70 [6]	STATUS	IMPLEMEN TED ITEM
4	TDT	5.3	m	

No	Function F8	REFERENCE TO T.70 [6]	STATUS	IMPLEMEN TED ITEM
5	TBR	5.4	m	

Q.7.3 Initiator/responder capabilities

Not applicable.

Q.7.4 Negotiation

No	Transport data block size	REFERENCE TO T.70 [6]	STATUS	IMPLEMENTED ITEM
1	Request in TCR the use of an optional TDT block size	5.5.4.3	o	
2	Reception of an optional TDT block size	5.5.5.3 5.3.2.2	m	
3	Accept the optional TDT block size (if it supported) by reproducing the requested value in TCA	5.2.3.2	o	
4	Request in TCA the use of a shorter allowable TDT block	5.2.3.2	o	
5	Reject the requested TDT block size by sending TCA without a TDT block size parameters value in TCA	5.2.3.2	o	
6	TCR requesting an optional TDT block size not supported (called side) will not be answered with TBR	5.2.3.2	m	

Q.7.5 Timers

No	Timer	REFERENCE TO T.70 [6]	Valid range	STATUS	IMPLEMENTED ITEM
1	T 0.2	Table B-4	15 s. - 75 s.	m	
2	T 0.3	Table B-4	2 s. - 10 s.	m	
3	T 1.1	Table B-4	15 s. - 75 s.	m	

Q.7.6 Procedures and reactions to protocol errors

No	Reaction to protocol errors	REFERENCE TO T.70 [6]	STATUS	IMPLEMENTED ITEM
1	Send TBR to report the receipt of an invalid or not implemented block (except in state 0.3,1.1 (calling side) and 0.2 (called side))	5.4.1	m	
2	Ignore invalid or not implemented parameters or values in a received TCR during transport connection establishment	5.4.1	m	
3	TBR whether invalid or valid shall not be answered by sending TBR (*)	5.4.1	m	
4	Send TBR to report that the calling terminal receives TCR (transport connection collision)	5.2.5.1	m	
5	Only the first detected procedural or parameter error is indicated in TBR	5.5.7.2	m	
6	Request network disconnection if timeout in states 0.3,1.1 (calling side) or 0.2,0.3 (called side)	Fig A-14 A-15	m	
7	Request network disconnection if an invalid or not implemented block is received in states 0.2 (called side) or 1.1 (calling side)	Fig A-14 A-15	m	
8	Neglect of incorrect extended addressing	5.2.6.3	m	
9	TDT block with TSDU end mark = 0 and size less than the agreed maximum is not rejected	5.3.2.2	m	
10	Accept of TDT with TSDU endmark =1 and no user information after a TDT with endmark = 0	5.3.3.1	m	
11	Use of T-EXCEPTION indication	A.1.1.3	o	

No	Reaction to protocol errors	REFERENCE TO T.70 [6]	STATUS	IMPLEMENTED ITEM
12	Retry of sending TCR (when establishing the transport connection)	5.2.4.1	o	
13	Discard any received block in state 0.3	Fig A-14 A-15	m	
14	Request network disconnection if TBR is received in state 2.1 (only if T_EXCEPTION indication is not supported)	Fig A-14 A-15	c	
15	Clearing Cause indicated in TCC	5.5.6.1	m	
16	Reject Cause indicated in TBR	5.5.7.1	m	
17	Rejected Block returned in TBR	5.5.7.1	m	
18	Additional clearing information is provided within TCC	5.5.6.2	o	
(*) NOTE: Terminals complying with ITU-T Recommendation T. 70 [6] version of the 81-84 study period may react by sending TBR.				

Q.8 Session/document layer PICS**Q.8.1 Supported functions**

No	F U N C T I O N	REFERENCE TO T.62 [3]	ABBREV.	STATUS	IMPLEMEN TED ITEM
1	Session establishment and clearing	2.1.1	SEC	m	
2	Session information transfer	2.1.1	SIT	m	
3	Session management	2.1.1	SMA	m	
4	Document control	2.1.1	DCO	m	
5	Document information transfer	2.1.1	DIT	m	
6	Document error recovery	2.1.1	DER	m	

Q.8.2 Supported PDUs

No	Function SEC	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
1	CSS	3.2.1	m	
2	RSSP	3.2.2	m	
3	RSSN	3.2.3	o	
4	CSE	3.2.4	m	
5	RSEP	3.2.5	m	
6	CSA	3.2.6	m	
7	RASP	3.2.7	m	

No	Function SIT	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
8	CSUI	3.2.8	m	
9	RSUI	3.2.9	m	

No	Function SMA	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
10	CSCC	3.2.10	(NOTE)	
11	RSCCP	3.2.11	(NOTE)	
NOTE: Refer to ETS 300 015 [11], where the SMA function shall be supported.				

No	Function DCO	REFERENCE TO T.62 [3]	STATUS	IMPLEMEN TED ITEM
12	CDS	3.4.1	m	
13	CDC	3.4.3	o	
14	CDCL	3.4.4	c	
15	RDCLP	3.4.5	m	
16	CDE	3.4.6	m	
17	RDEP	3.4.7	m	
18	CDD	3.4.8	o (NOTE)	
19	RDDP	3.4.9	m	
20	CDR	3.4.10	o (NOTE)	
21	RDRP	3.4.11	m	
NOTE: At least one of these two shall be marked.				

No	Function DIT	REFERENCE TO T.62 [2]	STATUS	IMPLEMEN TED ITEM
22	CDUI	3.4.12	m	

No	Function DER	REFERENCE TO T.62 [3]	STATUS	IMPLEMEN TED ITEM
23	RDGR	3.4.2	o	
24	CDPB	3.4.13	m	
25	RDPBP	3.4.14	m	
26	RDPBN	3.4.15	o	

Q.8.3 Initiator/responder capabilities

Not applicable.

Q.8.4 Negotiation

No	Session Negotiation	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
1	Negotiation of Non Basic Teletex terminal capabilities in CSS/RSSP	3.2.1.2e)	m	
2	Miscellaneous session capabilities	3.2.1.2f) 5.7.2.5	o	
3	Window size (Non basic values)	3.3.2.7 4.3.1 5.7.2.6	o	
4	Session service functions	3.2.1.2h) 5.7.2.12	o	
5	Non Standardized capabilities	3.2.1.2j)	o	
6	Inactivity Timer	3.2.1.2g)	o	

No	Document Capability List Negotiation		REFERENCE TO T.62 [3]	STATUS	IMPLEMEN TED ITEM
1	Inactivity Timer	in CDCL	3.4.4.5 3.4.5.3	o	.....
2		in RDCLP		o	
3	Storage capacity Negotiation	in CDCL	3.4.4.1 3.4.5.2	o	.....
4		in RDCLP		o	
5	Non basic graphic	in CDCL	3.4.4.1 5.7.4.2	o	.....
6		in RDCLP		o	
7	Non basic control character sets	in CDCL	3.4.4.1 5.7.4.1	o	.....
8		in RDCLP		o	
9	Non basic TTX page formats	in CDCL	3.4.4.1 5.7.4.3	o	.....
10		in RDCLP		o	
11	Non basic miscellaneous TTX terminal capabilities	in CDCL	3.4.4.1 5.7.4.4	o	.....
12		in RDCLP		o	
13	Non basic character box height	in CDCL	3.4.4.1 5.7.4.5	o	.....
14		in RDCLP		o	
15	Non basic character box width	in CDCL	3.4.4.1 5.7.4.6	o	.....
16		in RDCLP		o	
17	Session User Data	in CDCL	3.4.4.6 3.4.5.4	o	.....
18		in RDCLP		o	
19	Private Use	in CDCL	3.4.4.6	o	.....
20		in RDCLP		o	
21	Non-standardized capabilities	in CDCL	3.4.4.7 3.4.5.5	o	.....
22		in RDCLP		o	

Q.8.5 Timers

No	Timer	REFERENCE TO T.62 [3]	Valid range	STATUS	IMPLEMEN TED ITEM
1	Basic inactivity timer	4.1.2	60 seconds	m	
2	Inactivity timer	4.1.2	1-63 seconds 1-63 minutes 1-63 hours	on	
3	Basic demand response timer	H.2.2.7b)	60 seconds	m	
4	CSA timer	3.3.2.6b) H.2.2.7c)	4 seconds (NOTE)	m	
NOTE: Refer ETS 300 015, [11] subclause 9.1.8 where the CSA-timer is fixed to 4 seconds.					

Q.8.6 Procedures to Reactions to Protocol Errors

No	Reaction to protocol errors	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
1	Release transport connection if any SPDU is received in state 0.2 (calling and called sides)	Annex H Fig H-1	m	
2	Send CSA if demand response timer expires or if any invalid or unexpected SPDU is received (Any state except 0.1,0.2,0.3,7.1, 14.1 and X)	Annex H Fig H-1	m	
3	Send RDGR if any invalid PDU is received in states DR 1.1,2.1,3.1, 4.1,5.1 and 6.1	3.6.3.3	o	
4	<p>Interrupt of transport or session connection during document transmission (another call and/or session is needed):</p> <p>a) Document transmission initiated by CDS and no checkpoint is acknowledged during that transmission:</p> <ul style="list-style-type: none"> - the receiving terminal shall treat the failure as if a CDD had been received and a RDDP had been sent; - the sending terminal shall treat the failure as if a CDD had been sent and a RDDP had been received. <p>b) In other cases:</p> <ul style="list-style-type: none"> - the receiving terminal shall had been received and a RDRP had been sent; - the sending terminal shall treat the failure as if a CDR had been sent and a RDRP had been received. 	<p>3.5.5a)</p> <p>3.5.5b)</p>	m	

No	Reaction to protocol errors (cont.)	REFERENCE TO T.62 [3]	STATUS	IMPLEMEN TED ITEM
5	Reject of a document page: - by sending RDGR; - by sending RDPBN; - by sending CSA. (At least one of the three options shall be marked).	Annex H H-4 DR7 H-4 DR7 H-2 14	o o o	
6	Response to a document reject (by RDGR or RDPBN): - by sending CDD; - by sending CDR; - by sending CSA. (At least one of the three options shall be marked).	Annex H H-3 DS9 H-3 DS8 H-1 14	o o o	
7	Response to an invalid or un- expected received PDU during data transfer phase: - by sending CDD; - by sending CDR; - by sending CSA. (At least one of the three options shall be marked).	Annex H H-3 DS9 H-3 DS8 H-1 14	o o o	
8	Use of the Reason parameter in CDR and/or CDD	3.4.8.2 3.4.10.2 5.7.2.10	o	
9	Use of session termination parameter in CSA	Table 9 5.7.2.9	m	
10	Use of the Reason parameter in RSSN	3.2.3.2g) 5.7.2.10	o	
11	Reason parameter in RSSN provided as a text message	3.2.3.2g)	o	

Q.8.7 Particular protocol procedures

No	Particular protocol procedures	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
1	Send CSA if it is not possible to continue the session correctly and there is no other suitable way in ending the session normally (RSSN,CSE)	3.2.6.1	m	
2	Release transport connection if timeout (CSA timer or inactivity timer)	3.3.2.6b)	m	
3	Discard any received SPDU in	Annex H Fig H-1 H-2	m	
4	Discard any received SPDU except RSAP in state 14	3.3.2.6b) Fig H-1 H-2	m	
5	Correct reaction when window limit reached (Stop transmission when three checkpoints are outstanding)	4.3 Fig H-3	m	
6	Receive document page	5.7.2.12	m	
7	Reception of CDE when outstanding acknowledgement exists	4.3 Fig H-4	m	
8	Handling of document and check-point reference numbers	4.2	m	
9	Transmit a complete document	5.7.2.12	m	
10	Response to a CDCL without NBTC	3.4.5	m	

No	Particular protocol procedures (cont.)	REFERENCE TO T.62 [3]	STATUS	IMPLEMENTED ITEM
11	Don't send negative responses to CDS or CDC (RDGR) if a positive response to any checkpoint has been sent	3.5.3	m	
12	Send CDR or CDD if a negative response to a command which represents a checkpoint is received	4.2.4	m	
13	Discard any received PDU except RSUI/RDRP in state DS8 and RSUI/RDRP in state DS9	Fig H-3	m	
14	Discard any received document PDU except CSUI/CDR and CSUI/CDD in state DR 7	Fig H-4	m	
15	The reason code "unable to continue the session" has to be indicated in RDPBN and the document transmission has to be ended abnormally (CDD,CDR) when a sink terminal sends a RDPBP with RAJ=1 and subsequently a RDPBN indicating memory overflow	3.5.8	m	
16	Use of the session user data field	3.2.1.2i) 3.4.1.2e) 5.7.2.14	o	
17	Use of Additional session reference number in addition to the basic session reference to identify uniquely the session	3.2.1.2d) 3.2.2.2d)	o	
18	Service interworking identifier supported	3.5.2 5.7.3.1	m	

No	Particular protocol procedures (cont.)	REFERENCE TO T.62 [3]	STATUS	IMPLEMEN TED ITEM
19	Document type identifier supported	3.4.1.2b) Annex F	m	
20	Acknowledgement change request function supported	3.2.11 5.7.2.8	o	
21	Use of the session termination parameter in CSE to indicate whether the transport connection shall be cleared	3.2.4.1	o	
22	Initiate sending of session change control (CSCC) supported	3.3.1 3.3.2.5	o	
23	Sending capability list (CDCL)	3.4.4	o	
24	Ability for resynchronisation (sending CDC) supported	3.4.3	o	
25	Usage of 'Private Use' PGI/PI	3.2.1.2k) 5.6.6 5.7.2.15	o	
26	Usage of 'Session Control Functions'	3.2.2.2g) 5.7.2.8	o	

Q.9 Application layer PICS

Q.9.1 Supported functions

Q.9.1.1 Calling side

No	FUNCTIONS (Calling side)	REFERENCE TO	STATUS	IMPLEMENTED ITEM
		a) T.62 [3] b) T.60 [1] c) T.61 [2] d) F.200 e) ETS 300 015 [11]		
1	Handling of terminal identification (TID): - TID in CSS is consistent with the value assigned to the SUT; - TID in CSS is in compliance with F.200 [9] format and T.61 [2] encoding.	a) 3.2.1.2 b)	m m	
2	Handling of date and time: - Compliance to F.200 [9] format and T.61 [2].	a) 3.2.1.2 c)	m	
3	Capability to transmit normal documents in one session: - document type identifier is absent from CDS.	a) 3.4.1.2 b)	m	
4	Handling of basic and ISO A4 page formats and basic character encoding.	b) 3.2.1 e) 10.3	o	
5	Ability to handle change control function.	a) 3.3.1.1 e) 9.1.6	m	
6	Ability to handle memory negotiation.	d) 7.3.2.1	o	
7	Automatic checking of part 4 of the TID.	b) 5.1.4k) e) 10.5	o	

Q.9.1.2 Called Side

No	FUNCTIONS (Calling side)	REFERENCE TO a) T.62 [3] b) T.60 [1] c) T.61 [2] d) F.200 e) ETS 300 015 [11]	STATUS	IMPLEMEN TED ITEM
1	Handling of terminal identifica- (TID): - TID in RSSP is consistent with the value assigned to the SUT; - TID in RSSP is in compliance with F.200 format and T.61 [2] encoding.	a) 3.2.2.2 b)	m	
2	Handling of call identification line: - compliance to F.200 format.	d) 5.3	m	
3	Capability to receive normal documents in one session.	a) E.2 e) 10	m	
4	Capability to receive control documents.	a) E.4 e) 9	m	
5	Ability to handle continuation documents: - the CIL is presented at the point of interruption and point of continuation; - the terminal provides a means for the operator to linkback to the original interrupted document.	d) 5.3.2.3	c c	
6	Ability to handle interrupted documents: - int. doc. accessible to the user; - CIL presents at the point of int.	d) 5.3.2.3	m m	
7	Ability to provide status re- porting and operator indicators.	b) 7 d) 7.4	m	
8	Receive memory backup for at least 72 hours.	e) 10.8	o	

Q.9.2 Supported PDUs

Not applicable.

Q.9.3 Initiator/responder capabilities

Indicate if system is capable of initiating connection, or accepting a connection, or both:

Initiator only

Responder only

Both

Q.9.4 Negotiation

Not applicable.

Q.9.5 Timers

Not applicable.

Q.9.6 Procedures and reactions to protocol errors

No	Reaction to protocol errors (SUT shall remain fully operational under the following conditions)	REFERENCE TO	STATUS	IMPLEMEN TED ITEM
		a) T.62[3] b) T.60[1] c) T.61[2] d) F.200 e) ETS 300 015 [11]		
1	Receiving incorrect TID in RSSP or CSS		m	
2	Receiving an unknown reason code in document transmission rejection		m	
3	Receiving incorrect date and time in CSS		m	
4	Receiving too long Document/Check- point reference number	e) Annex B.2	o	
5	Receiving a document containing incorrect presentation information		m	
6	Receiving invalid linking information on document continuation	e) 9.1.11	m	
7	Receiving an undefined reason code during document interruption		m	
8	Receiving a document with NBTC, which have not been negotiated and are not supported by SUT		m	

Q.9.7 Particular protocol procedures

No	PARTICULAR PROCEDURES	REFERENCE TO a) T.62 [3] b) T.60 [1] c) T.61 [2] d) F.200 e) ETS 300 015 [11]	STATUS	IMPLEMEN TED ITEM
1	Reaction to memory overflow conditions	a) 2.2.3.1 b) 4.1.3.5 e) 10.6	m	
2	Independence of local and communication functions	b) 1.2.2	o	
3	Ability to transmit a document after change control has occurred		o	
4	Capability to receive monitor documents	a) E.5	o	
5	Capability to receive operator documents	a) E.3 e) 9	m	
6	Minimum receiving-store-size of 32 K octets shall be provided	b) 4.1.3.3 e) 10.7	m	
7	Minimum memory threshold to receive	b) 4.1.3.5 b) 7.2.2. e) 10.6	m	
8	Correct handling of nbtc's	d) 1.2.3.1	o	

Annex R (normative): Teletex Protocol Implementation eXtra Information for Testing (PIXIT)

R.1 Abbreviations

For the purposes of this annex, terms and references used are defined in the relevant CCITT or ITU-T Recommendations and ETSI standards. Furthermore, the following abbreviations are used:

CSDN	Circuit Switched Data Network. (This notation is equivalent to CSPDN for Circuit Switched Data Network)
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PSDN	Packed Switched Data Network. (This notation is equivalent to PSPDN for Packet Switched Public Data Network)
SUT	System Under Test

R.2 Introduction

The proformas for extra information for testing are structured as follows:

- Test Laboratory Information proforma(s): giving contact information, accreditation status and providing other administrative information about the test laboratory. In case of distributed testing, when more than one test laboratory is needed for testing a given Teletex system, several test laboratory information proformas are used. This proforma(s) shall be completed by the test laboratory.
- The Client information proforma: identifying the organisation, contacts for testing and providing other administrative information about the client and its testing requirements. This proforma shall be completed by the client.
- Testing Environment proforma(s): uniquely identifying the Teletex system, the machine and operating system environment, the IUT and the ancillary layers of a given system.
- PIXIT proforma(s): giving relevant addressing, parameter and timer values for the IUT and each ancillary layer implemented in the SUT. Each PIXIT proforma shall be accompanied with a PIXIT cover page proforma. The PIXIT cover page identifies the test laboratory, the test system and method together with other administrative information. Each proforma shall be completed by both the test laboratory (before) and the client (after).
- The Protocol Implementation eXtra Information for Testing (PIXIT) contains information in addition to that contained in the PICS that is necessary to test an IUT. The information provided by both the PICS and the PIXIT is used in preparation for and during the course of testing. The information provided in the PIXIT shall not conflict with information provided in the PICS or with the conformance requirements of the Standards.

R.3 Test laboratory information proforma

TEST LABORATORY INFORMATION	
TEST LABORATORY	
NAME :	PHONE No :
STREET :	TELEX No :
CITY :	FAX No :
COUNTRY :	TELETEX No :
TEST SERVICE MANAGER	
NAME :	
LOCATION:	
PHONE No:	
TEST LIAISON OFFICER	
NAME :	
LOCATION:	
PHONE No:	
NETWORK ADDRESS:	
ACCREDITATION STATUS:	

R.4 Client organisation information proforma

CLIENT ORGANISATION INFORMATION	
CLIENT ORGANISATION	
NAME :	PHONE No :
STREET :	TELEX No :
CITY :	FAX No :
COUNTRY :	TELETEX No :
CLIENT MANAGER	
NAME :	
LOCATION:	
PHONE No:	
TEST LIAISON OFFICER	
NAME :	
LOCATION:	
PHONE No:	

R.5 Testing environment

R.5.1 Machine configuration

Describe relevant details of the machine on which the implementation is mounted, including machine configuration, type and serial number.

R.5.2 Operating system

State name and version number of the operating system if appropriate.

R.5.3 Ancillary layers

Identify the protocols implemented for:

- physical level (e.g. X.21, X.21bis, V.10, V.11, V.28);
- call set-up and clearing phase when the SUT is a Teletex equipment to be connected to a CSDN (e.g. X.21);
- link and packet level when the SUT is a Teletex equipment to be connected to a PSDN (e.g. X.25).

Layer	Identity or Name	Version Number

Ancillary layers details

One subclause is required for each ancillary layer listed in the previous table. The nature of the information required is Test System dependent, but covers in scope all the addressing, parameter values, timer values and facilities as defined by the PICS for each layer. However, as the ancillary layers are not themselves the subject of the tests, the test laboratory may choose to specify some or all of the parameters and timer values to be used and the facilities to be provided for testing. Such information is entered on the proforma by the test laboratory prior to the dispatch of it to the client for completion.

R.6 Link layer PIXIT (CSDN)

Parameter values

Parameter Type (Counters)	PICS Clause	Parameter Value or Range
N1/transmit	4.7	
N1/receive	4.7	
N2	4.7	
k/transmit	4.7	
k/receive	4.7	

Timer values

Timer Type	PICS Clause	Timer Value or Range
T1	4.5	
T3	4.5	

R.7 Network layer PIXIT (CSDN)

Parameter values

Parameter Type (Counters)	PICS Clause	Parameter Value or Range
Maximum number of received NPDUs with M-bit.	5.4	
Maximum size of reassembled NSDUs.	5.4	(octets)

R.8 Transport Layer PIXIT

Parameter values

Parameter Type	PICS Clause	Parameter Value or Range
Extended address	6.1.1	
TDT block size	6.4	[] - 128 octets [] - 256 octets [] - 512 octets [] - 1024 octets [] - 2048 octets
Retry of sending TCR max. number	6.6	
TSU max. size when reassembled	6.1	

Timer values

Timer Type	PICS Clause	Timer Value or Range
T 0.2	6.5	
T 0.3	6.5	
T 1.1	6.5	

R.9 Session/Document PIXIT

Parameter values

Parameter Type	PICS Clause	Parameter Value or Range
Non basic window size	7.4	
Miscellaneous session capabilities:	7.4	<input type="checkbox"/> Two way simultaneous information transfer <input type="checkbox"/> Session suspension <input type="checkbox"/> Interactive operation
Session Service Functions	7.4	<input type="checkbox"/> Typed data capability <input type="checkbox"/> duplex
Non-basic miscellaneous TTX terminal capabilities Non-basic (SHS) horizontal spacing ----- Non-basic (SVS) vertical spacing ----- Select (SGR) graphic rendition ----- Presentation direction (SPD) (Kanji terminals) ----- Graphic size modification (GSM) (Kanji terminals)	7.4	<input type="checkbox"/> - Not supported <input type="checkbox"/> - 12 char/inch <input type="checkbox"/> - 12 char/inch <input type="checkbox"/> - 6 char/inch ----- <input type="checkbox"/> - Not supported <input type="checkbox"/> - 8 lines/25,4 mm. <input type="checkbox"/> - 6 lines/30,0 mm. <input type="checkbox"/> - 4 lines/30,0 mm. <input type="checkbox"/> - 3 lines/30,0 mm. <input type="checkbox"/> - 12 lines/30,0 mm. ----- <input type="checkbox"/> - Not supported <input type="checkbox"/> - Supported ----- <input type="checkbox"/> - Not supported <input type="checkbox"/> - Supported ----- <input type="checkbox"/> - Not supported <input type="checkbox"/> - Supported
Non-basic character box height (number of points)	7.4	
Non-basic character box width (number of points)	7.4	

Parameter values (concluded)

Non-basic graphic character set	7.4	
Control character sets: reverse line feed	7.4	[] - Provided [] - Not provided
Non-basic TTX page formats	7.4	[] - ISO A4 horizontal and vertical [] - North American horizontal and vertical [] - ISO A4 horizontal and vertical (for use by Japanese Kanji terminals) [] - ISO B5 horizontal and vertical (for use by Japanese Kanji terminals) [] - ISO B4 horizontal and vertical (for use by Japanese Kanji terminals) [] - ISO A4 extended (ISO 3535) hor. [] - ISO A4 extended (ISO 3535) ver. [] - North American legal horizontal [] - North American legal vertical

Timer Type	PICS Clause	Timer Value or Range
CSA timer	7.5	
Inactivity timer	7.5	

R.10 Application layer PIXIT

Parameter Type	PICS Clause	Parameter Value or Range
Terminal identifier	8.1.1	
Date and time (How to get it)	8.1	<input type="checkbox"/> - From the network <input type="checkbox"/> - From internal clock <input type="checkbox"/> - Manually
Memory Threshold value	8.7	
Storage capacity(Mem.size)	8.7	
CDUI size (transmission)	8.1.1	
CDUI size (reception)	8.1.2	
Memory disabling possible	-----	<input type="checkbox"/> - Yes <input type="checkbox"/> - No
Printer disabling possible	-----	<input type="checkbox"/> - Yes <input type="checkbox"/> - No
Memory manipulation possible	-----	<input type="checkbox"/> - Yes <input type="checkbox"/> - No

Annex S (normative): Cross reference list between Teletex PICS and test cases

S.1 Introduction

ITU-T Recommendation T.64 [5] and this ETS specify the set of tests that may be run against any terminal for knowing how it conforms to the Teletex standards. Test cases may be classified into three main groups:

- tests to be passed by any terminal to conform to the mandatory CCITT/ITU-T and ETSI requirements;
- tests for checking national requirements of any member;
- tests for checking optional capabilities of the terminal.

The first group of tests shall always be passed. The second group of tests are run depending on the national approval the client claims for. Finally, the third group of tests are carried out when the values marked within the PICS formula show that some optional capability is implemented in the terminal.

For each Teletex protocol layer this annex identifies the dependency of the applicability of test cases from corresponding optional items in the PICS/PIXIT formula.

In some cases, the applicability of a test to a terminal depends on more than one parameter. If this is the case, the test shall only be run if the appropriate value is supplied for each one of them.

The Static Conformance Review (SCR) shall be carried out before determining which optional capabilities tests shall be run. Therefore, it is assumed that there shall be coherence between the parameters influencing a test. So, all the parameters influencing a test are not listed, because if one of them is missing, none of them is present, and the test cannot be carried out.

Some tests are stated in the options to be run using different PDU codings. However, some of these PDUs are optional, because they contain optional parameters. Such tests listed below are referenced as "A using B", where A is the standard test name and B defines the content of the PDU (see related note).

The position in the PICS of the parameters related to optional tests are referenced as follows:

- page number;
- section number;
- title of a table;
- ordinal.

Each test may be carried out if the values of the parameters are marked, i.e. there is "x" in the column "implemented item" of the filled PICS.

S.2 Cross references between PICS and test cases

S.2.1 Link layer (CSDN)

LINK LAYER		
Test number	Related PICS parameters	
	Section	Ordinal
NONE		

S.2.2 Network layer (CSDN)

NETWORK LAYER		
Test number	Related PICS parameters	
	Section	Ordinal
NONE		

S.2.3 Transport layer

TRANSPORT LAYER		
Test number	Related PICS parameters	
	Section	Ordinal
GN6	7.2	10
	..... 7.2	..... 11
GE1/3	6.6	12
DN4	8.7	3
DN4	7.2	10
	..... 7.2	..... 11
DE02/2	6.2	3
DE03/0 (NOTE)	6.6	11
DE03/1 (NOTE)	6.6	11
AG/0	6.1	3
AG/1	6.1	3
	..... 6.1.1	..... 1
AG/2	6.1	3
	..... 6.1.1	..... 1
MDA/0	6.1	3
	..... 6.1.1	..... 3
MDA/1	6.1	3
	..... 6.1.1	..... 3
NOTE: This test shall only be carried out if the related parameter is marked.		

S.2.4 Session/Document layer

SESSION/DOCUMENT LAYER		
Test number	Related PICS parameters	
	Section	Ordinal
GN3 / GN4	7.7	23
GN15	7.7	24
GN16	7.7	22
GN20	7.7	20
GE9C/1	7.7	24
GE96/0 GE96/1 GE96/2 GE96/3 GE96/4	7.7	23
GE98/0 GE98/1 GE98/2 GE98/3	7.6	6 or 7 (NOTE)
GE99/0 GE99/1 GE99/2 GE99/3 GE99/4	7.6	6 or 7 (NOTE)
GE10/0 GE10/1 GE10/2 GE10/3	7.7	22
GE11/0 GE11/1 GE11/2	7.2 7.2 7.7	10 11 22
DN3	7.2 7.2 7.7	10 11 22
DEO/3	7.2	3
DE27/0 DE27/1 DE27/2 DE27/3 DE27/4 DE27/5	7.6	5 (NOTE) ..
DE5/0 DE5/1 DE5/2	7.7	20

(continued)

CDN21/1	7.4	6 or 8 or 10 or 12 or 14 or 16 NOTE 4
CDN21/2	7.4	6 or 8 or 10 or 12 or 14 or 16 NOTE 4
CDN21/3	7.4	6 or 8 or 10 or 12 or 14 or 16 NOTE 4
CDN21/4	7.4	6 or 8 or 10 or 12 or 14 or 16 NOTE 4
CGN0/1	7.4	1
CGN0/2	7.4	9 or 11
CGNo/3	7.4	NOTES
CGN91/0	7.4	5 or 7 or 9 or 11 or 13 or 15 NOTE 4
CGN0/2 us. RDCLP (NOTE 6)	7.4	5 or 9 or 11
CGN0/3 us. RDCLP (NOTE 6)	7.4	5 or 9 or 11
CGN0/3 us. RDCLP (NOTE 7)	7.4	9
CGN91/0 us. RDCLP (NOTE 8)	7.4	7 or 9 or 11
CNG91/0 us. RDCLP (NOTE 9)	7.4	9 or 11

(concluded)

EMG2 us. RDCLP (NOTE 6)	7.4	5 or 9 or 11 or
ECG6	7.7	24
ECG5	8.1.1	5
<p>NOTE 1: The 2nd option ("By sending CDR") shall be marked at least for one of the ordinals 6 or 7. The tester action depends on the marking.</p> <p>NOTE 2: The 1st option ("By sending CDD") shall be marked at least for one of the ordinals. The tester action depends on the marking.</p> <p>NOTE 3: One of the two first options shall be marked.</p> <p>NOTE 4: At least one of the ordinals shall be marked.</p> <p>NOTE 5: In the correspondent PIXIT entry, the "Non-basic TTX terminal capabilities" parameters needed to make it possible to send two different capabilities in CSS and CDCL shall be marked, and both together in CDS.</p> <p>NOTE 6: RDCLP with all nbtc ITU-T Recommendation T.62 [3], table 3.</p> <p>NOTE 7: RDCLP with 1 nbtc outside ITU-T Recommendation T.62 [3], table 3.</p> <p>NOTE 8: RDCLP with a subset of the requested nbtc.</p> <p>NOTE 9: RDCLP with a subset of the requested nbtc plus other.</p>		

S.2.5 Application layer

APPLICATION LAYER		
Test number	Related PICS parameters	
	Section	Ordinal
CG1	7.7	24
CG2	8.1.1	5
CG3	8.7	8
CG4	8.1.1	6
CD1	8.7	3
CD2	8.7	4
CD3	8.7	5
CD4	8.7	8
CD5	8.7	1

Test cases which can be carried out depending upon Application layer PIXIT parameters:

Test number	Related PIXIT parameters		
	Section	Table	Ordinal
MD8b	9	Param. Values	7
MD8c	9	Param. Values	8
MD9a	9	Param. Values	9
MD9b	9	Param. Values	9

Annex T (normative): Test report proforma

NOTE: Throughout this test report proforma text in italics is used for guidance purpose only, and is not to be included in the actual test report. Further guidance may be found in draft proposal ISO/IEC DP 9646 "ISO conformance testing methodology and framework".

<i>Name of Test Laboratory</i>	Doc. No.:	<i>Unique Report Id</i>
	Date:	<i>Date of issue</i>
	No. of pages:	<i>No. of pages</i>
	No. of Annexes:	<i>No. of annexes</i>
	No. of Enclosures:	<i>No. of enclosures</i>

*Information on Authorization Body
Who has authorized the Test Laboratory,
and applicable authorization number(s).*

Test Report for Teletex terminal equipment

according to: *Short identification of relevant protocol(s),
Specification(s) and National Requirement(s)*

as defined in: *Name and identification of abstract test suite(s)*

performed for: *Name and address of client*

System Under Test: *Short identification of SUT*

Date of issue and signature of person(s),
accepting responsibility for the report
on behalf of the Test Laboratory

Date and Signature

No part of this report may be reproduced or quoted out of context, and shall not be reproduced except in full without the approval of the Test Laboratory.

This report is produced in accordance with ISO Guide 45-1985.

Name of Test Laboratory Doc. No.: Unique Report Id
Date: Date of issue
No. of pages: No. of pages

Test Report for Teletex Terminal Equipment

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Annexes

List of Annexes (Detailed Error Reports)

Enclosures

List of Enclosures (PICS and PIXIT)

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Test Report for Teletex terminal equipment

1 GENERAL INFORMATION

1.1 Test Laboratory

Test Laboratory Organization

<i>Name:</i>	<i>Name of Test Laboratory incl. position within larger organization</i>
<i>Street:</i>	<i>Street address</i>
<i>City:</i>	<i>City incl. postal code</i>
<i>Country:</i>	<i>Country</i>
<i>Telephone:</i>	<i>International telephone No.</i>
<i>Telefax:</i>	<i>International telefax No.</i>
<i>Telex:</i>	<i>International telex No.</i>
<i>Teletex:</i>	<i>International teletex No.</i>

Test Service Manager

<i>Name:</i>	<i>Name of the manager</i>
<i>Location:</i>	<i>Location/department</i>
<i>Telephone:</i>	<i>International telephone No.</i>

Test Service Liaison Officer

<i>Name:</i>	<i>Name of person responsible for liaison with the client regarding testing</i>
<i>Location:</i>	<i>Location/department</i>
<i>Telephone:</i>	<i>International telephone No.</i>

Test Service Accreditation Status

Description

Other

Description

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1.2 Client

Client Organization

<i>Name:</i>	<i>Name of organization</i>
<i>Street:</i>	<i>Street address</i>
<i>City:</i>	<i>City incl. postal code</i>
<i>Country:</i>	<i>Country</i>
<i>Telephone:</i>	<i>Telephone No.</i>
<i>Telefax:</i>	<i>Telefax No.</i>
<i>Telex:</i>	<i>Telex No.</i>
<i>Teletex:</i>	<i>Teletex No.</i>

Client Manager

<i>Name:</i>	<i>Name of manager</i>
<i>Location:</i>	<i>Location/department</i>
<i>Telephone:</i>	<i>International telephone No.</i>

Client Liaison Officer

<i>Name:</i>	<i>Name of person responsible for liaison with the Test Laboratory regarding testing</i>
<i>Location:</i>	<i>Location/department</i>
<i>Telephone:</i>	<i>Telephone No.</i>

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1.3 Product

System Under Test (SUT)

<i>Name:</i>	<i>Name of the product embodying the implementation to be tested</i>
<i>Model:</i>	<i>Model</i>
<i>Version:</i>	<i>Version identification</i>
<i>Serial Number:</i>	<i>Serial number</i>

Supplier

<i>Company:</i>	<i>Name of company</i>
<i>Contact Person:</i>	<i>Name of contact person</i>
<i>Street:</i>	<i>Street address</i>
<i>City:</i>	<i>City incl. postal code</i>
<i>Country:</i>	<i>Country</i>
<i>Telephone:</i>	<i>International telephone No.</i>
<i>Telefax:</i>	<i>International telefax No.</i>
<i>Telex:</i>	<i>International telex No.</i>
<i>Teletex:</i>	<i>International teletex No.</i>

1.4 Identification of Implementation Under Test (IUT)

Implementation Under Test

<i>Name:</i>	<i>Name of implementation</i>
<i>Model:</i>	<i>Model</i>
<i>Version:</i>	<i>Version identification</i>

Further information on the Implementation Under Test is found in the PICS document which is included as Enclosure No.:
Enclosure number

1.5 Testing Environment

<i>Generic Test Suite (if applicable):</i>	<i>Full identification on the Generic Test Suite</i>
<i>Abstract Test Method:</i>	<i>The Abstract Test Method used</i>
<i>Abstract Test Suite:</i>	<i>Full identification on the Abstract Test Suite used for testing</i>
<i>Mapping Table between Generic and Abstract Test Suite:</i>	<i>Full identification on mapping table</i>

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Lower Tester Information

Executable Test Suite identification

Test Suite Name: Name of Test Suite
Target/Object Programme: Name/version identification
Target/Host Machine:
 Operating System: Name of Operating System
 Other: Name and description of other items
 e.g. File Management System or
 Concurrent Software.

Lower Tester configuration
parameters: Test System Dependent Parameters

Identification of TTX line
used for testing: TTX number of SUT and Tester

Upper Tester Information (if applicable)

Executable Test Suite identification

Test Suite Name: Name of the Test Suite
Validation date: Date of validation of functionality
 of upper tester

Period of Testing/Review: Period

Test Operator

Name: Name of operator
Location: Location/department
Telephone: Telephone No.

Person responsible for the Test/Analysis

Name: Name of responsible person
Location: Location/department
Telephone: Telephone No.

Further information on the testing environment is found in the PIXIT
document, which is included as Enclosure No.:
Enclosure number

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Test Report for Teletex terminal equipment

2 TEST REPORT SUMMARY

2.1 Static Conformance Summary

Based on subsection 3.1: Summary of the results for each protocol layer (e.g. by use of a table indicating summarized verdicts versus the related cross references between groups of the Static Conformance Requirements and groups of relevant PICS entries).
(Physical layer summary)

LINK layer summary

NETWORK layer summary

TRANSPORT layer summary

SESSION/PRESENTATION layer summary

APPLICATION layer summary

2.2 Basic Interconnection Test Summary

Based on subsection 3.2: Summary of the results for the Application layer.

2.3 Capability Test Summary

Based on subsection 3.3: Summary of the results for the Application layer.

2.4 Dynamic Conformance Summary

Based on subsection 3.5: Descriptive summary of the results of groups of tests and possible observations on those results for each protocol layer tested. (To ease evaluation, the summary should comprise a table indicating summarized verdicts versus the related cross references between groups of relevant PICS entries and groups of tests (subsection 3.4 provides a support for producing this table)).
(Physical layer summary)

LINK layer summary

NETWORK layer summary

TRANSPORT layer summary

SESSION/PRESENTATION layer summary

APPLICATION layer summary

Name of Test Laboratory	Doc. No.:	Unique Report Id
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Test Report for Teletex terminal equipment

3 DETAILED TEST REPORT

3.1 Static Conformance Review

Detailed reporting of the results and verdicts for each protocol layer concerned (e.g. by use of a table indicating the verdicts versus the related cross references between each of the Static Conformance Requirements and the relevant PICS entries).

(Physical layer reporting)

LINK layer reporting

NETWORK layer reporting

TRANSPORT layer reporting

SESSION/PRESENTATION layer reporting

APPLICATION layer reporting

3.2 Basic Interconnection Test

Detailed reporting of the test results and verdicts. This test includes only Application layer testing.

3.3 Capability Test

Detailed reporting of the test results and verdicts. This test includes only Application layer testing.

3.4 Selection Criteria for Dynamic Test Carried Out

Detailed reporting of the test selection criteria for each protocol layer concerned. In the report the selection of the test cases shall appear from a cross reference table specifying the relations between the relevant PICS/PIXIT entries and the applicable test cases.

(Physical layer selection criteria (cross reference table))

LINK layer selection criteria (cross reference table)

NETWORK layer selection criteria (cross reference table)

TRANSPORT layer selection criteria (cross reference table)

SESSION/PRESENTATION layer selection criteria (cross reference table)

APPLICATION layer selection criteria (cross reference table)

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3.5 Dynamic Conformance Test

List of tests

The tests to be performed in the Test Campaigns are listed in the occurrence sequence within each Test Campaign, e.g.:

```
TEST CAMPAIGN 1
  Test Group 1.1
    Test Case 1.1.1
    ...
  Test Group 1.n
  ...
TEST CAMPAIGN m
```

Layer test reporting

Detailed reporting of the test performance incl. test case reporting, see below, for each protocol layer tested.

(Physical layer reporting)

LINK layer reporting

NETWORK layer reporting

TRANSPORT layer reporting

SESSION/PRESENTATION layer reporting

APPLICATION layer reporting

Test Case Reporting

The test case reporting shall identify all performed test cases incl. repeating tests. Furthermore the test case reporting shall include indication of test cases which were not performed. For each test case at least the following shall be reported:

- Test case identification, see Note 1*
- Test case reference number*
- Identified or categorised outcome (if any)*
- Test verdict, see Note 2*
- Error report reference (Annex No.)*
- Date and Time, see Note 1*

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Note 1: Test case identifications can be Date and Time. If other identifications are used (e.g. Internal Test System References) start/end time for the test shall be indicated.

Note 2: The actual verdict of any test is stated by using one of a number of standard terms/expressions:

- PASS
- FAIL
- Inconclusive
- Feature not tested
- Feature not supported by IUT

If a verdict is "Inconclusive" the test case shall be repeated. If the verdict is still "Inconclusive", the result definitely shall be considered as inconclusive.

Examples of Test Case Reporting

1. Detailed Test Case Reporting (Example 1)

TEST GROUP DN (No outcome)			CALLED SIDE
TEST CASE ID	TEST CASE NO.	VERDICT	ERROR REPORT
T0	DN0	PASS	-
T1	DN1	PASS	-
T2	DN2	PASS	-
T3	DN3	PASS	-
T4	DN4	FEATURE NOT SUPPORTED	-

2. Detailed Test Case Reporting (Example 2)

TEST GROUP GN (No outcome)			CALLING SIDE
TEST CASE ID	TEST CASE NO.	VERDICT	ERROR REPORT
T0	GN5	PASS	-
T1	GN6	PASS	-
:	:	:	
:	:	:	
T4	GN9	FAIL	n
T5	GN10	PASS	-
:	:	:	
:	:	:	
T8	GN14	PASS	-

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4 HEALTH WARNING

The Conformance Test only can detect errors, not the absence of them, so it should be noted that a successful conformance test provides no guarantee for successful conformance to the requirements in question.

It should also be noted that a successful conformance test does not provide guarantee interworking. Even if two implementations conform to the same set of requirements, they may fail to interwork correctly.

Detailed error report on all failed/inconclusive tests:

Error report number

Expected behaviour

Observed behaviour

Trace file (if necessary), see Note

Other information

Note: The trace file should contain at least the minimum amount of information necessary to correctly allocate verdicts.

If applicable, on the lower tester side the (N-1) service primitives and the (N) data units for incoming as well as outgoing events, should be include in the trace file.

ENCLOSURES

PICS and PIXIT to be enclosed

History

Document history	
September 1994	First Edition
February 1996	Converted into Adobe Acrobat Portable Document Format (PDF)
Note	Due to the conversion into the PDF format, the layout of this document does not conform to the specified layout.