

I
iTeh STANDARD PREVIEW
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Test Suite Overview

[ISO/IEC 8882-2:2000](https://standards.iteh.ai/catalog/standards/sist/7a5b972e-c093-4868-b638-05b6cb763714/iso-iec-8882-2-2000)

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Test Suite Structure

Suite Name : ISO_8882_2
Standards Ref : ISO/IEC 7776:1995
PICS Ref : ISO/IEC 7776:1995
PIXIT Ref : ISO/IEC 8882-2 3rd edition
Test Method(s): Remote Embedded Single Layer
Comments :

Test Group Reference	Selection Ref	Test Group Objective	Page Nr
DL1/	DP_STABLE	Verification of the Disconnected Phase	
DL1/DL1_PROPER/		Proper frames	
DL1/DL1_IMPROPER/		Improper frames	
DL1/DL1_INOPPORTUNE/		Inopportune frames	
DL2/	SEND_DISC	Verification of IUT Initiated Link Disconnection Phase	
DL2/DL2_PROPER/		Proper frames	
DL2/DL2_IMPROPER/		Improper frames	
DL2/DL2_INOPPORTUNE/		Inopportune frames	
DL3/	NOT_CCITT_80	Verification of Link Set-up Phase	
DL3/DL3_PROPER/	SEND_SABM	Proper frames	
DL3/DL3_IMPROPER/		Improper frames	
DL3/DL3_INOPPORTUNE/	NOT_CCITT_80	Inopportune frames	
DL4/		Verification of Information Transfer Phase	
DL4/DL4_PROPER/		Proper frames	
DL4/DL4_IMPROPER/		Improper frames	
DL4/DL4_INOPPORTUNE/		Inopportune frames	
DL5/	FRMR_STABLE	Verification of Frame Reject Condition	
DL5/DL5_PROPER/		Proper frames	
DL5/DL5_IMPROPER/		Improper frames	
DL5/DL5_INOPPORTUNE/		Inopportune frames	
DL6/	SEND_RNR	Verification of IUT Busy Condition	
DL6/DL6_PROPER/		Proper frames	
DL6/DL6_IMPROPER/		Improper frames	
DL6/DL6_INOPPORTUNE/		Inopportune frames	
DL7/		Verification of Sent Reject Condition	
DL7/DL7_PROPER/		Proper frames	
DL7/DL7_IMPROPER/		Improper frames	
DL7/DL7_INOPPORTUNE/		Inopportune frames	
DL8/		System Parameters and Error Recovery Tests	

Detailed Comments :

Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL1/DL1_PROPER/	DL1_100 DL1_101		Verify that the IUT sends a DM/F=1 in response to a DISC/P=1 in the disconnected phase.	
DL1/DL1_PROPER/	DL1_102		Verify that the IUT sends a DM/F=0 in response to a DISC/P=0 in the disconnected phase.	
DL1/DL1_PROPER/	DL1_103		Verify that the IUT sends a UA/F=1 or a DM/F=1 in response to a SABM/P=1 in the disconnected phase.	
DL1/DL1_PROPER/	DL1_104		Verify that the IUT sends a UA/F=0 or a DM/F=0 in response to a SABM/P=0 in the disconnected phase.	
DL1/DL1_PROPER/	DL1_105		Verify that the IUT reacts properly in the disconnected phase on receiving a DM/F=0.	
DL1/DL1_IMPROPER/	DL1_201		Verify that, in the disconnected phase, the IUT upon receipt of a command frame with undefined or not implemented control field with P=1, either discards the frame or sends a DM/F=1 response frame.	
DL1/DL1_IMPROPER/	DL1_202		Verify that the IUT discards a response frame with an undefined or not implemented control field with F=1 in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_203		Verify that the IUT discards a SABM/P=1 with an address different from A,B,C or D in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_204		Verify that the IUT discards a SABM/P=1 with an FCS error in the disconnected phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL1/DL1_IMPROPER/	DL1_205		Verify that the IUT discards a DM/F=1 in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_206		Verify that the IUT discards a DM/F=0 with an information field in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_207		Verify that, in the disconnected phase, the IUT upon receipt of a SABM/P=1 with an information field, either discards the frame or sends a DM/F=1 response frame.	
DL1/DL1_IMPROPER/	DL1_208		Verify that, in the disconnected phase, the IUT upon receipt of a UA/F=0 with an information field, while in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_209		Verify that, in the disconnected phase, the IUT upon receipt of a RR/P=1 with an information field, either discards the frame or sends a DM/F=1 response frame.	
DL1/DL1_IMPROPER/	DL1_210		Verify that, in the disconnected phase, the IUT upon receipt of a RNR/P=1 with an information field, either discards the frame or sends a DM/F=1 response frame.	
DL1/DL1_IMPROPER/	DL1_211		Verify that, in the disconnected phase, the IUT upon receipt of a REJ/P=1 with an information field, either discards the frame or sends a DM/F=1 response frame.	
DL1/DL1_IMPROPER/	DL1_212		Verify that the IUT discards an I/P=0 frame containing an information field longer than the maximum established length in the disconnected phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL1/DL1_IMPROPER/	DL1_213		Verify that the IUT discards a DISC/P=0 with an information field in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_214		Verify that the IUT discards a DISC/P=1 with an information field in the disconnected phase.	
DL1/DL1_IMPROPER/	DL1_215		Verify that the IUT discards a SABM/P=1 with an information field in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_301		Verify that the IUT sends a DM/F=1 in response to an I/P=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_302		Verify that the IUT sends a DM/F=1 in response to an RR/P=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_303		Verify that the IUT sends a DM/F=1 in response to an RNR/P=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_304		Verify that the IUT sends a DM/F=1 in response to an REJ/P=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_305		Verify that the IUT discards a UA/F=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_306		Verify that the IUT discards a UA/F=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_307		Verify that the IUT discards an FRMR/F=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_308		Verify that the IUT discards an FRMR/F=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_309		Verify that the IUT discards an I/P=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_310		Verify that the IUT discards an RR/F=0 in the disconnected phase.	

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Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL1/DL1_INOPPORTUNE/	DL1_311		Verify that the IUT discards an RNR/F=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_312		Verify that the IUT discards an REJ/F=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_313		Verify that the IUT discards an RR/F=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_314		Verify that the IUT discards an RNR/F=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_315		Verify that the IUT discards an REJ/F=1 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_316		Verify that the IUT discards an RR/P=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_317		Verify that the IUT discards an RNR/P=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_318		Verify that the IUT discards an REJ/P=0 in the disconnected phase.	
DL1/DL1_INOPPORTUNE/	DL1_319		Verify that the IUT discards an I/P=0 frame with no information field in the disconnected phase.	
DL2/DL2_PROPER/	DL2_101	NOT_UNRESP	Verify that the IUT sends a UA/F=0 in response to a DISC/P=0 received in the link disconnection phase. This situation corresponds to a DISC and DISC collision.	
DL2/DL2_PROPER/	DL2_102	NOT_UNRESP	Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in the link disconnection phase. This situation corresponds to a DISC and DISC collision.	

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Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL2/DL2_PROPER/	DL2_103		Verify that the IUT sends a DM/F=0 in response to a SABM /P=0 received in the link disconnection phase. This situation corresponds to a DISC and SABM collision. The IUT is expected to enter the disconnected phase.	
DL2/DL2_PROPER/	DL2_104		Verify that the IUT sends a DM/F=1 in response to a SABM/P=1 received in the link disconnection phase. This situation corresponds to a DISC and SABM collision. The IUT is expected to enter the disconnected phase.	
DL2/DL2_PROPER/	DL2_105	NOT_UNRESP	Verify proper IUT behavior in the link disconnection phase upon receiving a proper DM response.	
DL2/DL2_PROPER/	DL2_106		Verify that in the link disconnection phase, upon receiving a DM/F=0 response, when the last DISC command from the IUT was with P=1, the IUT shall consider the DM response to represent a collision condition and shall remain in the link disconnection phase.	
DL2/DL2_PROPER/	DL2_107	NOT_UNRESP	Verify proper IUT behaviour in the link disconnection phase upon receiving a proper UA response.	
DL2/DL2_IMPROPER/	DL2_201		Verify that, in the link disconnection phase, the IUT discards a command frame with an undefined or not implemented control field with P=1.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL2/DL2_IMPROPER/	DL2_202		Verify that the IUT discards a response frame with an undefined or not implemented control field with F=1 in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_203		Verify that the IUT discards a DISC/P=0 with information field in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_204		Verify that the IUT discards a SABM/P=1 with an information field in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_205		Verify that the IUT discards a UA with an appropriate F bit setting, but with an added information field in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_206		Verify that the IUT discards a DM with an appropriate F bit setting, but with an additional information field in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_207		Verify that the IUT discards an I/P=1 frame containing an information field longer than the maximum established length in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_208		Verify that the IUT discards an RR/P=1 with an information field in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_209		Verify that the IUT discards an RNR/P=1 with an information field in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_210		Verify that the IUT discards an REJ/P=1 with an information field in the link disconnection phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL2/DL2_IMPROPER/	DL2_211	SEND_DISC	Verify that the IUT discards a DISC with an address different from A, B, C or D in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_212		Verify that the IUT discards a DISC/P=0 with an FCS error, in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_213	CCITT_80	Verify that in the case of X.25 1980, if the IUT is in the link disconnection phase and if the last DISC command from the IUT was with P=0, then a DM/F=1 shall be discarded and the IUT will remain in the link disconnection phase.	
DL2/DL2_IMPROPER/	DL2_214		Verify that in the link disconnection phase, upon receiving an improper UA response (invalid F bit), the IUT shall discard the UA and remain in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_301		Verify that the IUT discards an RR/P=1 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_302		Verify that the IUT discards an RR/P=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_303		Verify that the IUT discards an RNR/P=1 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_304		Verify that the IUT discards an RNR/P=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_305		Verify that the IUT discards an REJ/P=1 in the link disconnection phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL2/DL2_INOPPORTUNE/	DL2_306		Verify that the IUT discards an REJ/P=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_307		Verify that the IUT discards an FRMR/F=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_308		Verify that the IUT discards an RR/F=1 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_309		Verify that the IUT discards an RR/F=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_310		Verify that the IUT discards an RNR/F=1 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_311		Verify that the IUT discards an RNR/F=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_312		Verify that the IUT discards an REJ/F=1 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_313		Verify that the IUT discards an REJ/F=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_314		Verify that the IUT discards an FRMR/F=1 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_315		Verify that the IUT discards an I/P=0 in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_316		Verify that the IUT discards an I/P=1 received in the link disconnection phase.	
DL2/DL2_INOPPORTUNE/	DL2_317		Verify that the IUT discards an I/P=0 frame with no information field in the link disconnection phase.	
DL3/DL3_PROPER/	DL3_101		Verify that the IUT sends a UA/F=0 in response to a SABM/P=0 received in the link set-up phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL3/DL3_PROPER/	DL3_102		Verify that the IUT sends a UA/F=1 in response to a SABM/P=1 received in the link set-up phase.	
DL3/DL3_PROPER/	DL3_103		Verify that the IUT sends a DM/F=0 in response to a DISC/P=0 in the link set-up phase. This situation corresponds to a SABM and DISC collision.	
DL3/DL3_PROPER/	DL3_104		Verify that the IUT sends a DM/F=1 in response to a DISC/P=1 in the link set-up phase. This situation corresponds to a SABM and DISC collision.	
DL3/DL3_PROPER/	DL3_105		Verify that in the link set-up phase, upon receiving a proper UA response, the IUT shall enter the information transfer phase.	
DL3/DL3_PROPER/	DL3_106		Verify that in the link set-up phase, the IUT shall ignore a DM/F=0, in case of a SABM and DM collision where SABM from IUT has P=1.	
DL3/DL3_PROPER/	DL3_107	NOT_UNRESP	Verify that in the link set-up phase, if the last SABM command from the IUT was with P=1, then upon receiving a DM/F=1 response, the IUT either sends a DISC/P=1 or a SABM/P=1 or a DM/F=0 or does not respond.	
DL3/DL3_IMPROPER/	DL3_201		Verify that the IUT discards a command frame with an undefined or not implemented control field with P=1 in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_202		Verify that the IUT discards a response frame with an undefined or not implemented control field in the link set-up phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL3/DL3_IMPROPER/	DL3_203		Verify that the IUT discards a UA with an appropriate F bit setting but with an additional information field in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_204		Verify that the IUT discards a DISC/P=0 with information field in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_205		Verify that the IUT discards a SABM/P=1 with information field in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_206		Verify that the IUT discards a DM with an appropriate F bit but with an information field in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_207		Verify that the IUT discards an I/P=1 with an information field which is longer than the maximum established length in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_208		Verify that the IUT discards an I/P=0 with no information field while in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_209		Verify that the IUT discards an RR/P=1 with an information field in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_210		Verify that the IUT discards an RNR/P=1 with an information field in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_211		Verify that the IUT discards an REJ/P=1 with an information field in the link set-up phase.	

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Test Case Index				
Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL3/DL3_IMPROPER/	DL3_212		Verify that the IUT discards a SABM/P=1 with an address different from A, B, C or D while in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_213		Verify that the IUT discards a SABM/P=1 with an FCS error in the link set-up phase.	
DL3/DL3_IMPROPER/	DL3_214	CCITT_80	Verify that in the link set-up phase, if an IUT is of X.25 1980 type, then it would discard a DM/F=1 if the last SABM from the IUT was P=0.	
DL3/DL3_IMPROPER/	DL3_215		Verify that the IUT discards a UA with an invalid F bit in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_301		Verify that the IUT discards an RR/P=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_302		Verify that the IUT discards an RR/P=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_303		Verify that the IUT discards an RR/F=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_304		Verify that the IUT discards an RR/F=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_305		Verify that the IUT discards an FRMR/F=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_306		Verify that the IUT discards an FRMR/F=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_307		Verify that the IUT discards an I/P=0 received in the link set-up phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL3/DL3_INOPPORTUNE/	DL3_308		Verify that the IUT discards an I/P=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_309		Verify that the IUT discards an RNR/P=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_310		Verify that the IUT discards an RNR/F=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_311		Verify that the IUT discards an RNR/P=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_312		Verify that the IUT discards an REJ/P=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_313		Verify that the IUT discards an REJ/F=0 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_314		Verify that the IUT discards an REJ/P=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_315		Verify that the IUT discards an RNR/F=1 received in the link set-up phase.	
DL3/DL3_INOPPORTUNE/	DL3_316		Verify that the IUT discards an REJ/F=1 received in the link set-up phase.	
DL4/DL4_PROPER/	DL4_101		Verify that the IUT sends a UA/F=1 in response to a DISC/P=1 received in the information transfer phase.	
DL4/DL4_PROPER/	DL4_102		Verify that the IUT upon receiving a SABM/P=1 in the information transfer phase either sends a UA/F=1 or it sends a DM/F=1.	
DL4/DL4_PROPER/	DL4_103		Verify proper IUT behavior on receiving FRMR/F=0 in the information transfer phase.	

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Test Group Reference	Test Case Id	Selection Ref	Description	Page Nr
DL4/DL4_PROPER/	DL4_104		Verify that the IUT acknowledges a a valid I/P=0 frame.	
DL4/DL4_PROPER/	DL4_105		Verify that the IUT acknowledges a valid I/P=1 frame.	
DL4/DL4_PROPER/	DL4_106		Verify that the IUT responds to a proper RR/P=1 command in the information transfer phase.	
DL4/DL4_PROPER/	DL4_107		Verify that in the information transfer phase if the IUT receives an REJ/P=1 command frame, then the IUT shall set its send state variable V(S) to N(R) of the received REJ frame control field and shall retransmit the corresponding I frame.	
DL4/DL4_PROPER/	DL4_108		Prior to this transmission the IUT shall send an RR/F=1 response to the received REJ/P=1 command frame.	
DL4/DL4_PROPER/	DL4_109		Verify that in the information transfer phase if the IUT receives an REJ/P=0 command frame, then the IUT shall set its send state variable V(S) to N(R) of the received REJ frame control field and shall retransmit the corresponding I frame.	
DL4/DL4_PROPER/	DL4_109		Verify that in the information transfer phase if the IUT receives an REJ/F=0 respond frame, then the IUT shall set its send state variable V(S) to N(R) of the received REJ frame control field and shall retransmit the corresponding I frame.	

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