

onnected Party Sub-address Calling Party Number
Calling Party Sub-address
Called Party Number

Called Party Sub-address Redirecting Number

0 0 0 0 1 0 0 0

http://www.acterna.com

SDN Test Solutions EDITION 4

Testers

IBT-5

ISDN BRA S/T Tester

For installation, first level

and maintenance.

ETSI Cause Value

Call awarded and being delivered in an established channel

Normal call clearing

User busy No user responding

Call rejected Number changed

Destination out of order Invalid number format

Temporary failure

Facility rejected Response to "Status enquiry" Normal, unspecified

Switching equipment congestion Access information discarded

Requested circuit/channel not available

Resources unavailable, unspecified

Requested facility not subscribed Outgoing calls barred within CUC Incoming calls barred within CUC

Bearer capability not authorized

Bearer capability not implemented

Identified channel does not exist

Invalid transit network selection Invalid message, unspecified

non-existent or not implemented Invalid information element contents

Message not compatible with call state

Mandatory information element is missing

No call suspended

102 66 E6 Recovery on timer expiry
111 6F EF Protocol error, unspecified
127 7F FF Interworking, unspecified

Status Enquiry Congestion Control Information

Only restricted digital information bearer capability is available

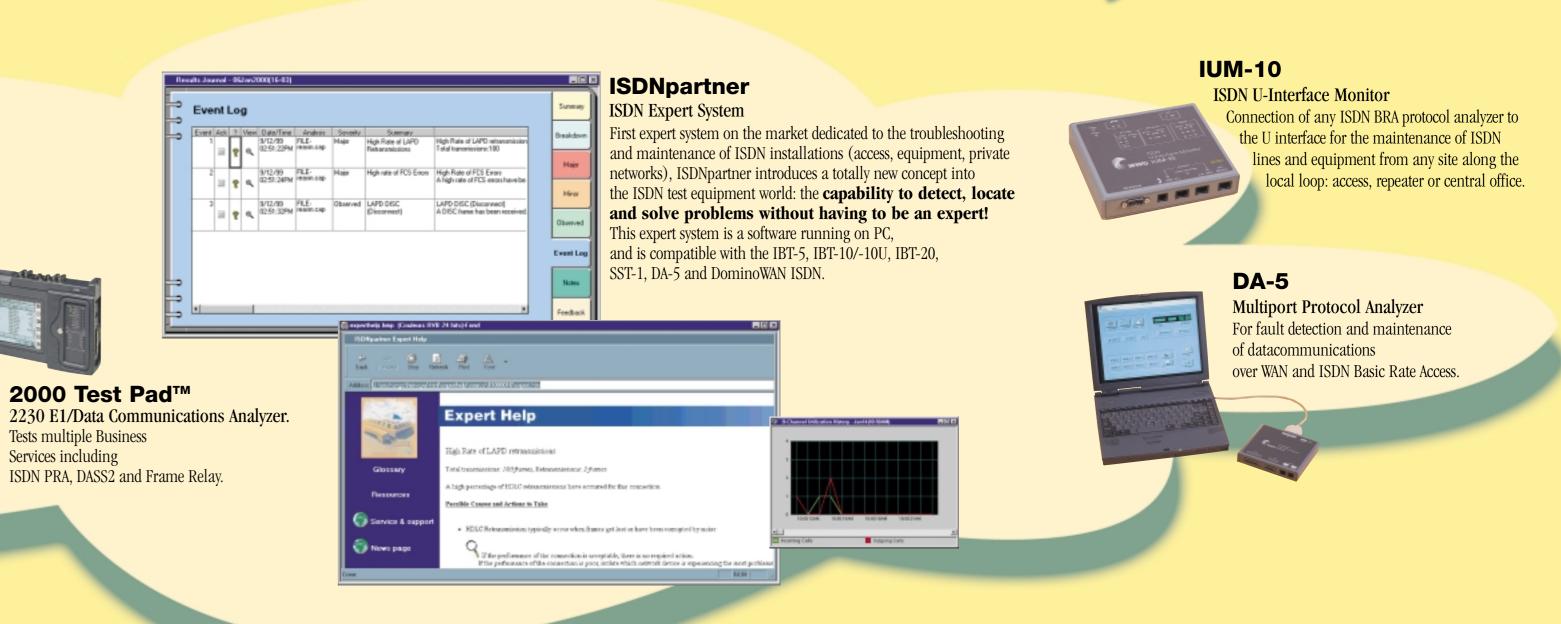
A suspended call exists, but this call identity does not exist Call identity in use

Call having the requested call identity has been cleared Incompatible destination Non-existent CUG

Message type non-existent or not implemented
Message not compatible with call state or message type

Service or option not implemented, unspecified

Analyzers



services

Bearer services

Octet	Hex	8	7	6	5	4	3	2	1	Information element
1		0	0	0	0	0	1	0	0	Bearer capability
2			0	0	0					Length of Bearer capability (max. 13 octets)
3		1								
										Coding standard
			0	0						CCITT standardized coding as decribed below
										Information transfer capability
	80				0	0	0	0	0	Speech
	88				0	1	0	0	0	Unrestricted digital information
	89				0	1	0	0	1	Restricted digital information
	90				1	-	-	0	-	3,1 kHz audio
	91				1	0	0	0	1	7 kHz audio
4		0/	1							
										Transfer mode
			0	0						Circuit mode
			1	0						Packet mode
										Information transfer rate
	40/C0		1	0	0	0	0	0	0	Packet mode call
	10/90		0	0	1	0	0	0	0	64 kbit/s
	11/91		0	0	1	0	0	0	1	2 x 64 kbit/s
	13/93		0	0	1	0	0	1	1	384 kbit/s
	15/95		0	0	1	0	1	0	1	1536 kbit/s
	17/97		0	0	1	0	1	1	1	1920 kbit/s

Teleservices

Octet	Hex	8	7	6	5	4	3	2	1	Information element
1	7D	0	1	1	1	1	1	0	1	High Layer Compatibility
2		0	0	0	0	0	٠.			Length of High Layer Compatibility (max. 5 octets)
3		1								
										Coding standard
			0	0						CCITT standardized coding as decribed below
										Interpretation
					1	0	0			First high layer charact, identif, to be used in the call
										Presentation method of protocol profile
	91							0	1	High layer protocol profile (without spec. of attribut.)
4		0/1								
										High layer characteristics identification
	01/81		0	0	0	0	0	0	1	Telephony
	04/84		0	0	0	0	1	0	0	Facsimile Group 2/3 (Rec. F.182)
	21/A1		0	1	0	0	0	0	1	Facsimile Group 4 Class.1 (Rec. F.184)
	24/A4		0	1	0	0	1	0	0	Teletex service (F.230) and Fac. Cl. II and III
	28/A8		0	1	0	1	0	0	0	Teletex service (F.220)
	31/B1		0	1	1	0	0	0	1	Teletex service (F.200)
	32/B2		0	1	1	0	0	1	0	Syntax based Videotex (Rec. F.300 and T.102)
	33/B3		0	1	1	0	0	1	1	Int. Videotex Interworking (Rec. F.300 and T.101)
	35/B5		0	1	1	0	1	0	1	Telex service (Rec. F.60)
	38/B8		0	1	1	1	0	0	0	Message Handling System (X.400 series)
	41/C1		1	0	0	0	0	0	1	OSI application (X.200 series)
	60/E0		1	1	0	0	0	0	0	Audiovisual = Videoteleph., (Rec. F.721 and AV.242)

Supplementary services

Number Identification Service	DDI SUB CLIP CLIR COLP COLR MCID	Multiple Subscriber Number Direct Dialing-In SUB-addressing Calling-Line Identification Presentation Calling-Line Identification Restriction COnnected-Line identification Presentation COnnected-Line identification Restriction Malicious Call IDentification
Call Offering Services	TP CFU CFB CFNR CD ECT	Terminal Portability Call Forwarding Unconditional Call Forwarding Busy Call Forwarding No Reply Call Deflection Explicit Call Transfer
Call Completion Services	CW HOLD CCBS	Call Waiting Call HOLD Completion of Calls to Busy Subscriber
Multiparty	CONF 3TPY	CONFerence calling Three-PartY service
Community of Interest and (Restriction Services	Call CUG	Closed User Group
Charging Services	AOC-S AOC-D AOC-E	Advice Of Charge at setup time Advice Of Charge during the call Advice Of Charge at end of call
Additional Transfer Informa Services	ation UUS	User-to-User Signaling (UUS1, UUS2, UUS3)

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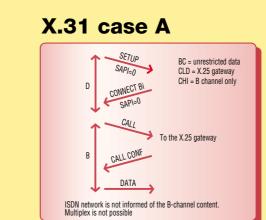
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Χ.	31 case B - X	.25/E
	SAPI=0 CLD = no	ket Bearer ot present y B channel
	B CALL CONF DATA	cket Handler
1	SDN network can multiplex X.25 connection in the fi	rst switch.

	SETUP SAPI=0 CONNECTO SAPI=0 SETUP BC = Packet Bearer CLD = not present CHI = D channel or
D	DISCONNECT SAPI=0 CALL SAPI=16 CALL CONF SAPI=16 DATA
ISDN networ	SAPI=16 k can multiplex X.25 connection in the first switch.



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