V.3225 and V.3225L Manual

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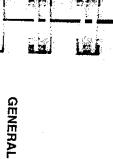






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V.3225 / V.3225L





















V.25 bis Autodialer Chapter 7

be controlled using synchronous data. V.25 bis is an option that allows dialing functions to

(Chapter 5). appropriate &M command in the AT command set Select this option by the front panel LCD or by the

If using the LCD

- Scroll through the menu to Main Menu 5, MOD-IFY CONFIGURATION.
- Advance to and enter the DTE OPTIONS sub- -
- Select SYNC DATA.
- Advance to DIAL METHOD.
- Select either V.25 BISYNC DIALER or V.25 SDLC DIALER and then select either ASCII or EBCDIC character format.

computer. SDLC ASCII NRZ to use it with an AS400 IBM Note: The modem must be configured as V.25

and Parameters **Command Strings** Autodialer

parts: the command itself and the parameter(s) that ters are separated by semicolons. can be telephone numbers or anything appropriate to V.25 bis as described in the following text. Paramefollow. For the purposes of this chapter, parameters Most command strings for the autodialer include two

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For example:

PRN a; nnn . . . n

where a=the phone number address in memory and nnn...n = the phone

The a and the nnn...n are both parameters.

Not all commands have parameters. For example the CIC command has no parameter.

GUIDELINES

Use the following guidelines when working with V.25 bis software:

 An indicator enclosed in less than / greater than signs < > represents a specific character in the appropriate character set, ASCII or EBCDIC.

<sp> - space

Each response below is considered an individual message per V.25 bis conventions. A dial command with intermediate call progress enabled is illustrated:

From DIE

TODIE

<sy><sy><stx>CRN<sp>(205)555-0124<etx>

<sy><sy><stx>VAL<etb><sy><sy><stx>CNX<sp>@9600BPS<etx>

- Spaces in a command from the DTE are optional and ignored.
- Command strings can be upper or lower case.
 Responses are always upper case.

 Only synchronous data formats are implemented.
 They include Bisync and SDLC (NRZ format) in ASCII or EBCDIC. Select NRZ or NRZI format as required by altering register \$30.

Invalid Responses
Explanations

Except when stated otherwise, the following explanations for invalid INV responses apply:

INVCU Any transmission error (parity, framing, etc.).

INVMS Receiving too many characters for any command.

INVMS Any command followed by a semicolon;

INVPS This message has one of three possible meanings:

- Any parameter set ending with a semicolon;
- Any parameter set containing too many or not enough parameters; this includes
- any command entered without parameters that requires parameters
- any command entered with parameters that does not require parameters.
- Any parameter containing too many characters.

DIAL **PARAMETERS**

autodialing. The memory available for dialing can readability are not counted. hold up to 40 characters. Parameters inserted for Table 7-1 lists and describes the parameters used in

Table 7-1V.25bis Dial Parameters

Parameters inserted for readability	Space, dash, parenthesis, period
Parameter separator	
Flash (go on hook) for 1/2 ms	200
Tone dial	7
Pulse dial	ס־
Pause for programmed delay time	^
Pause for 3 seconds	(1
Pause for 1 second	v
Wait for second type of dial tone	8
Wait for dial tone	: (colon)
DTMF digit	* and #
DTMF and pulse digit	0 thru 9
Function	Character





DEFINITIONS AND RESPONSE

received when each command is executed. with the V.25 bis autodialer and explain the responses The following sections describe the commands used

V.25 bis Autodialer

CRN nn...n **Dial Command**

The dial command is a CRN followed by the number to be dialed *nn...n*. The modem accepts up to 40 dial leading spaces. parameters, excluding the CRN command and any

Responses:

VAL error such as a parity error. This Valid command received. is executed. confirmation is sent before the command free command with no transmission Transmitted on receiving an error-

INVCU Invalid command - command unknown.

TRN (205)-555-0124 Example:

INVMS Invalid command - message syntax error.

CRN;(205)-555-0124
CRN; (semicolon invalid) Examples:

INVPS Invalid command - parameter syntax error.

CRN CRN (205)-555;0124 CRN (205)-555-0124 Examples:

INVPV Invalid command - parameter value error.

Examples: CRN (205)-555-012Q CRN ----

CFIET Call failure - reorder or busy.

CFIRT Call failure - timeout occurred

CFIDT Call failure - no dial tone.

NO. Incoming ring detected

PRN a; nn...n Command Program Number

at addresses 1-9. ber are not stored. Nine stored numbers are available dial parameters. Ignored characters in the dial numbe stored nn...n. Each address can store up to 32 the one digit decimal address a and the number to The program number command is PRN followed by

Responses:

Same as for the CRN command

Responses Progress Intermediate Call

> The following responses are given only if enabled. See Option Definition 002 below.

quired if the intermediate call progress option is but before DSR is activated. This response is reconnect response appears after handshake completed, maximum of five characters, such as V.29. This CNX<sp>@nnnnnBPS<sp>ccccc - where nunnn is the line speed and ccccc is an identifier with a

V.25 bis Autodialer

Dial Stored Number

number to be dialed. followed by the one digit address a for the stored The command for dialing a stored number is CRS

Responses:

Same as for the CRN command plus

CFINS Call failure - number not stored

PRL command, failure responses are returned as If the number is linked with other numbers, via the

{sep}a;{call progress messages}...

messages (CFI, etc.) rator field <etb><sy><stx> and call progress where a is the address dialed, followed by the sepa-

next number in the list of linked numbers. with other numbers, the autodialer tries to call the If the call fails to connect and the number is linked

If the last number in the list fails to connect, a

CFILD Call failed - link done

message is sent to the DTE

RLN Stored Numbers Request List of

RLN The request list of stored numbers command is an

Responses:

INVCU - Invalid command - command unknown.

Example NJT

INVMS - Invalid command - message syntax error.

Example RLN;

If no number is stored at the specified address nothing is returned for that address. The separator {sep} is a

<etb><sy><sy><stx>LSN<sp>

sequence for BISYNC format (the last LSN string terminates with <etx> per V.25 bis. For synchronous bit-oriented operation, each LSN string is treated as an individual message per V.25 bis.

All stored numbers are sent to the DTE as

LSN<sp>a;nn...n {sep}a;nn...n...

where a is the stored number address;
nn...n is the number stored.

Disregard Incoming Call

Responses:

command is ignored.

The command for disregarding an incoming call does not require parameters. If no call is incoming, the

VAL Valid command received.

Transmitted on receiving an error-free command with no transmission error such as a parity error. This confirmation is sent before the command is executed.

INVCU Invalid command - command unknown.

Example: TIC

INVMS Invalid command - message syntax error.

Example: DIC;

Connect

Incoming Call ing call, the CIC If no call is

No parameters are required. If there is an incoming call, the modem immediately answers the call. If no call is incoming, the command is ignored.

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Responses:

VAL Valid command received.

Transmitted on receiving an error-free command with no transmission error such as a parity error. This confirmation is sent before the command is executed.

INVCU Invalid command - command unknown.

Example: TIC

INVMS Invalid command - message syntax error.

Example: CIC;

The CRR n command redials the last number a maximum of n times. If no parameters are present, the modem redials once. Also, the maximum number of redials, the amount of time between redials, and other parameters may vary depending on application and national requirements if outside the U.S.

Redial Last Number CRR n

Responses:

Same as for the CRS command.

Failure response is

{sep}r;{call progress messages}...

where r is the recall count $(1 \le r \le n; 1,2...,etc.)$, followed by a separator field

<etb><sy><sy><stx>

and call progress messages (CFI, etc.). If the call fails to connect, this is repeated for the specified number of times.

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PRL a;b Address Link Number by

decimal values. Linking numbers enables different numbers to be dialed if a call failure occurs. number at address b. The addresses are one digit This command links the number at address a with the

command without connection it links forward to 8 (using this example), if address 4 is dialed by a CRS so address 1 can be linked to 4 to 8 to 9 etc.; however Only forward linking to one other number is allowed then to 9.

address 3 is dialed, back-linking to 5 is not allowed. Numbers may be linked as 4 to 5 to 3; however, if back-link to address 1 unless circular linking is used. If all these fail to connect, the autodialer will not

a is unlinked from its forward link. command has been dialed twice. If only one paramediscontinued after the addressed number in the dial ter follows the PRL command, the number at address If circular linking (1 to 8 to 7 to 1) is used, dialing is

exists and PRL 7 is received, 7 would be unlinked lists: 4 to 8 to 3 to 7 and 9 to 1. from 9, but not from 3. This would result in two link For example, if the link list 4 to 8 to 3 to 7 to 9 to 1

Responses:

VALas a parity error. This confirmation is command with no transmission error such sent before the command is executed. Valid command received. Transmitted on receiving an error-free

INVCU Invalid command - command unknown

Example: TRL 1:5



RLL

Linked Numbers Request List of

RLL without parameters.

V.25 bis Autodialer

INVMS Invalid command - message syntax error.

PRL;1;5

Examples:

PRL;

INVPS Invalid command - parameter syntax error.

PRL 1;5; Examples:

PRL 1; PRL 1;0;0

PRL PRL 001;5

INVPV Invalid command - parameter value error.

Examples

PRL Q;1 PRL 1;Q

01 - 09 are defined PRL 1;45 where only addresses

The request list of linked numbers command is

Responses:

INVCU Invalid command - command unknown.

Example: TLL

INVMS Invalid command - message syntax error.

Example: RLL;

code revision of the V.25 bis PROM.

The dd is the dash number and the r is

microcontroller PROM and yyy is the where xxx is the code revision of the

the printed circuit board revision.

List linked numbers.

ISI

stored at the specified address no response is sent. The separator field is an In all LSL examples, if no number is

<etb><sp><stx>LSL<sp>

treated as an individual message per oriented operation, each LSL string is the DTE as V.25 bis. All linked numbers are sent to The last LSL string ends with <etx> per V.25 bis. For synchronous bit

 $LSL < sp>a; l{sep}a; l$

where a=stored address and l=link address.

RLV Version Request List of

> an RLV with no parameters. The request list of version information command is

Responses

INVCU Invalid command - command unknown.

Example: TLV

INVMS. Invalid command - message syntax error.

Example: RLV;

LSV List version

The version information is sent to the

LSV<sp>S327409xxx39yyyddr<sp>

MODEM OPTIONS The program options command is PRO followed by

PRO xxx;yy;0;0,... COMMAND

option count (1 or 2 decimal digits) and the data for definitions, possible settings, and default values. Options section below lists all available options with each option (1 to 3 decimal digits per option). The the starting register address (1 to 3 decimal digits),

and semicolons are not considered ignored characcharacters besides the PRO command (leading zeros The modern must be able to accept 40 non-ignored

Responses:

٧AL as a parity error. This confirmation is command with no transmission error such sent before the command is executed. Valid command received. Transmitted on receiving an error-free

INVCU Invalid command - command unknown

Example: TRO 0;1;1

SWANI Invalid command - message syntax error.

PRO; PRO;0;1;1 Examples:

An out-of-range value for a particular option is

V.25 bis Autodialer

Examples:

PRO 0:1:0;

PRO 0;1;1;1

PRO 0;001;1

INVPV Invalid command - parameter value error.

Examples:

PRO 0;1;Q PRO Q;1;1

PRO 68;1;0 PRO 0:0:0

when option 68 is undefined for the

INVPV<sp>xxx Invalid command - parameter value error.

Examples: PRO 10;5;0;0;0;2;1

invalid response are as follows: of options is being changed. The conditions for this This invalid message can be returned when a block

L

and 14 would be unchanged would still be changed as commanded, options 13 INVPV<sp>012 message. Options 10 and 11 execution of the command, and return an would detect that this is an undefined option, stop certain modem (and no other error conditions apabove example, if option 12 is undefined for a be changed would be option 12. The modem ply) options 10 and 11 would be changed as speci-An undefined option number is specified. In the fied in the command message. The next option to



Save Current

PRK saves option settings current.

13 and 14 would be unchanged.

12 would still be changed as commanded; options INVPV<sp>013 message. Options 10 through

execution of the command, and return an undefined or out-of-range for that option, stop changed as specified in the command message conditions apply) options 10 through 12 would be option 13 in a certain modem (and no other error in the option string is undefined or out-of-range for specified. In the above example, if the fourth value

The modem would then detect that the value is

The next option to be changed would be option 13.

Settings PRK

Responses:

VAL

such as a parity error. This confirmation command with no transmission error is sent before the command is executed. Transmitted on receiving an error-free Valid command received.

INVCU Invalid command - command unknown

Example: TRK

INVMS Invalid command - message syntax error.

PRK;0 PRK Q Examples:

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Settings PRP n Restore Factory

option set n where n is a 1 digit decimal number. PRP n restores current option settings to factory

INVPV

Invalid command - parameter value error.

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Example: PRP 5

defined for the modem. Current where factory default 5 is not

modem factory options are 1 - 4.

Note: Restoring a factory option set disables the V.25 synchronous dialer.

automatically selects factory option set 1. If no parameter follows the command, the modem

Responses:

as a parity error. This confirmation is command with no transmission error such Transmitted on receiving an error-free Valid command received. sent before the command is executed.

INVCU Invalid command - command unknown.

Example: TRP

INVMS Invalid command - message syntax error.

Examples:

PRP;1

PRP Q

INVPS Invalid command - parameter syntax error.

Examples: PRP 1; PRP 1;1

PRP 001

Stored Options Request List of

possible settings, and default values. and a I or 2 digit decimal count. The Options section below lists all available options with definitions, followed by an optional 1 to 3 digit decimal address The request list of stored options command is RLO

RLO xxx;yy

Responses:

INVCU Invalid command - command unknown.

Example: TLO 0;1

INVMS Invalid command - message syntax error.

RLO;0;1 Examples:

RLO Q;1

INVPS Invalid command - parameter syntax error.

RLO 0;1; Examples:

RLO 0;1;4 RLO 0;00

INVPV Invalid command - parameter value error.

Examples: RLO 0;Q

RLO 0;0 RL0999;45

OST List stored options.

The separator (sep) is a

<etb><sp><stx>LSO<sp>

an individual message per V.25 bis. operation, each LSO string is treated as V.25 bis). For synchronous bit oriented LSO string terminates with <etx> per sequence for the sync format (the last

are sent to the DTE as If no parameters follow, all stored options

LSO<sp>xx;ooo{sep}xx;ooo...

characters. Option zero would be sent as zeros so that each field has three Each value must be padded with leading

LSO<sp>000;000

the single requested option is sent to the If only an address follows the command, DTE as

LSO<sp>xxx;000

with the specified address are sent to the the requested count of options starting If address and count follow the command

LSO<sp>xx;ooo{sep}xx;ooo...

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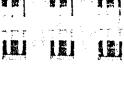












V.25 bis Autodialer

OPTIONS

command or listed using the RLO command. dialer. These options can be changed using the PRO This section lists the options for the V.25 bis auto-

000 - 001: Not.applicable

Intermediate call progress messages

002:

Blind dial

Default value = 0

1 - Enable 0 - Disable

003:

0 - Disable

Default value = 0 I - Enable

004 - 006: Not applicable

0 - Disable Long space disconnect

007:

1 - Enable

Default value =

908 - 019: Not applicable

operation Programmable / permissive

020:

0 - Permissive

Default value = 01 - Programmable

Not applicable

023 - 049: 021 - 022:

Reserved for future use.

Mode

050:

0 - 2-wire dial-up operation (PSTN) l - 4-wire leased line operation

Default value = 02 - 2-wire leased line operation

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V.25
bis Au
ıtodiale
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(See Rate Select section below) (See Rate Select section below) (Default value = 36 (9600 bps)) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ((decimal) dBm) Default value = 0 Not applicable (Answer after 1 to 255 rings) Default value = 1 Line current disconnect 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable Speaker control 0 - Off 1 - On 1 - NA 3 - N/A 4 - On until CD 5 - N/A Default value = 4	Details with the		Level of the second sec		
(See Rate Select section below) (Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level (decimal) dBm) Default value = 0 Not applicable (Answer after 1 to 255 rings) Default value = 1 Short (8 ms) 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable Speaker control 0 - Off 1 - On 2 - N/A 4 - On until CD 5 - N/A 6 - N/A 6 - N/A	2 = 1800Hz		The second secon	Default value = 4	
(See Rate Select section below.) (See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level (decimal) dBm) Default value = 0 Not applicable (Answer after 1 to 255 rings) Default value = 1 (Answer after 1 to 255 rings) Default value = 2 Not applicable Speaker control 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable Speaker control 0 - Off 1 - On 2 - N/A 4 - On until CD 602:	0 = None			6 - N/A	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level (decimal) dBm) Default value = 0 Not applicable Autoanswer 0 - Disable Enable (Answer after 1 to 255 rings) Default value = 1 Line current disconnect 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable Speaker control 0 - Off 1 - On 2 - N/A 3 - N/A 3 - N/A	Guard tone	092:		4 - On until CD	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ({decimal} dBm) Default value = 0 Not applicable (Answer after to 255 rings) Default value = 1 Line current disconnect 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable Speaker control 0 - Off 1 - Off	(10 decimal is ASCI decimal is EBCDIC			2 - N/A 3 - N/A	
(See Rate Solect section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ([decimal] dBm) Default value = 0 Not applicable Autoanswer 0 - Disable Enable (Answer after 1 to 255 rings) Default value = 1 Line current disconnect 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable Not applicable	Line feed character	091:	And the second s	0 - Off	0/0:
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased fine transmit level Transmit level ({decimal} dBm) Default value = 0 Not applicable Autoanswer 0 - Disable Enable (Answer after 1 to 255 rings) Default value = 1 Line current disconnect 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2 Not applicable	(13 decimal is ASCI default)			Capata	076.
(See Rate Scleet section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level ({decimal} dBm) Default value = 0 Not applicable Autoanswer 0 - Disable (Answer after 1 to 255 rings) Default value = 1 Line current disconnect 0 - Off 1 - Short (8 ms) 2 - Long (90 ms) Default value = 2	Carriage return chara	090:		Not applicable	065 - 075
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(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level (decimal) dBm) Default value = 0 Not applicable Autoanswer 0 - Disable Enable (Answer after 1 to 255 rings)	Not applicable	088:		Default value = 1	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ({decimal} dBm) Default value = 0 Not applicable Autoanswer 0 - Disable	Default value = 5 (50			Enable (Answer after 1 to 255 rings)	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ({decimal} dBm) Default value = 0 Not applicable Not applicable 077: 078 - 084: 078 - 084: 085: 085:	DTR must turn off for			Autoanswer 0 - Disable	063:
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ({decimal} dBm) Default value = 0 077: 078 - 084: 078 - 084: 085: 085:	DTR dropout timer	087:		Not applicable	057 - 062:
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0 Leased line transmit level Transmit level ({decimal} dBm)	Not applicable	086:	āi	Default value = 0	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave) Default value = 0	Default value = 0			Leased line transmit level Transmit level ({decimal} dBm)	056:
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External 2 - Receive (slave)	Must be set in increme		Ì	Default value = 0	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 0 - Internal 1 - External	0 to 250 ms	085:		2 - Receive (slave)	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable Transmit clock 077: 077: 077: 077: 078-084:)	005	ì	0 - Internal 1 - External	
(See Rate Select section below.) Default value = 36 (9600 bps) Not applicable	Not applicable	078 - 084:	il	Transmit clock	055:
077:	2 - High Default value = 1		ĪŽ	Not applicable	052 - 054:
077:	1 - Medium			Default value = 36 (9600 bps)	
	Speaker volume	077:	i	Primary transmit / receive rate (See Rate Select section below.)	051:

Must be set in increments of 10 ms: 10, 20, 30 . . . 250

DTR dropout timer 0 to 255 in 10 ms increments

Default value = 5 (50 ms)

time to be recognized.

DTR must turn off for this length of

Carriage return character (13 decimal is ASCII and EBCDIC

Constant carrier RTS/CTS delay 0 to 250 ms

decimal is EBCDIC default)

(10 decimal is ASCII default; 37

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093:

Carrier detect delay

E

903:

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95:

094:

Loss of carrier disconnect

Default value = 6 (60 ms)

1 to 255 in increments of 10 ms

Address to dial on DTR off-to-on

DTR dial address

Default value = 14 (1.4 sec)1 to 255 in 100 ms increments

0 - Disable

1 - Enable

DTR dial

Default value = 1

transition

98:

Call timeout 0 - Off

097:

Not applicable

Default value = 0

2 - N/A

103:

Signal quality retrain 0 - Disable

1 - Send training sequence on poor

099 - 102:

Not applicable

Default value = 30 sec

1-255 sec

900-902:

Not applicable

Options 107-899: Reserved for future use.

104 - 106:

Not applicable

Default value = 1

quality

0 - Disable 1 - Enable Bilateral loop

Default value = 0

is defined as follows: If enabled and a test is commanded, bilateral loop

Loop 2 Loop 3 Loop 1 Loop 4 Test Commanded Loop ! Loop 3 Loop 2 Loop 4 Bilateral Loop

Loop definitions are per CCITT V.54

DTE commanded remote digital Default value = 01 - Enable 0 - Disable loopback

DTE commanded local analog Default value = 0 l - Enable 0 - Disable loopback

906: Default value = 1 Remote commanded test 0 - Disable l - Enable

Default value = 01 to 255 sec 0 - Until DTR drops Test timer

907:

Not applicable

908:

Options 909-999 are reserved for future use.

								Rate Select	V.25 bis Autodialer
Rate selections 046-999 are reserved for future use.	037 - 045:	036:	035:	034:	009 - 033:	:\$00	007:	000 - 006:	
	Not applicable	V.32	V.32	V.32	Not applicable	V.22 bis	V.22	Not applicable	
	ble	9600 bps trellis echo canceling	9600 bps echo canceling	4800 bps echo canceling	ble	2400 bps	1200 bps	ble	