



3COM I-MODEM RELEASE NOTES

New Features

The following new features have been added to your modem:

- V.90 Server Capabilities
- Selective Reject
- Disabling reset to view previous call data
- Fast Answer
- Turning off echo canceller (2100hz tone)
- Microsoft Encrypted Password Authentication
- IDSL

Year 2000 Compliance

For information on Year 2000 compliance and 3Com products, visit the 3Com Year 2000 web page:

<http://www.3com.com/products/yr2000.html>

New AT Commands

The following table includes a list of all AT commands needed to use these new features. See the **Command Reference** on the *Connections* CD-Rom for more information regarding bit-mapped registers.

In order to	Command
Enable V.90 (Default)	ATS58.5=0
Disable V.90	ATS58.5=1
Disable 2100hz tone in DOV	ATS69.6=1
Disable the asterisk (*) key on the SLIC as a redial	ATS68.5=1

In order to	Command
Enable the asterick (*) key on the SLIC as a redial	ATS68.5=0
Disable Selective Reject	ATS51.6=1
Enable Data Over Voice	ATS69.5=1
Enable Fast Answer	ATS69.7=1
Ignore ATZ	ATS69.2=1

V.90

The I-modem now has V.90 server capabilities. By default, V.90 is enabled on your modem.

V.90 analog clients can call into your I-modem to get V.90 connections. The analog device port is not able to act as a V.90 server

Selective Reject

The I-modem now supports Selective Reject for analog calls. Selective Reject improves performance on noisy lines by reducing the amount of overhead incurred when the protocol must resend data due to errors.

When Selective Reject is active, only the frame that contained the error is resent, instead of the frame plus all of the following unacknowledged frames.

Selective Reject is an optional part of the ITU-T V.42 (LAPM) standard. By default, Selective Reject is enabled.

Disabling reset to view previous call data

If the communication software you use with your I-modem cannot be configured to stop sending the ATZ string before or after each connection, set your I-modem to ignore ATZ. When the I-modem ignores ATZ, it does not clear out the previous call statistics in the ATi6 screen.

By default, this feature is disabled.

Fast Answer

Fast Answer saves time by forcing the I-modem to answer calls as fast as possible without going through the Ring Indicate toggling sequence.

By default, Fast Answer is disabled on your modem.

Turning off the echo canceller (2100hz tone)

You can now configure the I-modem so it does not send a 2100hz tone at the beginning of a call.

When Data Over Voice (DOV) is enabled, the I-modem sends a 2100hz tone at the beginning of a 3.1khz 56 kbps voice call to turn off the telephone company's echo canceller.

If there are no echo cancellers on the B-channel during the call, disable the 2100hz tone in DOV to save 2 seconds of connect time.



When you disable the tone, you also risk not being able to connect to the phone number.

By default, this feature is enabled; the I-modem sends a 2100hz tone at the beginning of a DOV call.

Microsoft Encrypted Password

If the I-modem is connecting to a server that supports Microsoft Encrypted Password Authentication, the I-modem will respond to the server using the same protocol. However, the I-modem will communicate with your computer using Password Authentication Protocol (PAP).



Since your computer must communicate using PAP, the software on your computer should not be configured to ONLY accept Microsoft Encrypted Password.

Your modem will translate PAP into Microsoft Encryption Password Authentication to communicate with the server. The password will be clear-text over the serial cable between your computer and the modem. Once the password is on the ISDN telephone network, the password will be encrypted.

IDSL

Your modem now supports 128Kbps synchronous mode. When your modem is in this mode, it supports USWest 128K IDSL service.

IDSL mode is a leased line configuration, there is no call setup required or supported. When the modem is turned on and in IDSL Mode, it will attain physical layer synchronization with the network. Data passes over both B-Channels, to a single 128Kbps data stream. The data stream is sent in a synchronous data format across the DTE interface.



Once you have configured your modem for IDSL Mode, the modem will read settings from NVRAM upon powerup.

To configure your modem for IDSL mode, enter the following commands:

AT&F1*V2=4

ATS67=6S44=3M0&C1&D2&L1&M1&W



Your modem will respond with an "OK" message after you enter each command.

New Connect Messages

The table below includes all new connect messages..

Message	#	Message	#
28000	256	40000/ARQ/V90	287
28000/ARQ	257	33333/V90	288
28000/V90	258	33333/ARQ/V90	289
28000/ARQ/V90	259	37333/V90	290
29333	260	37333/ARQ/V90	291
29333/ARQ	261	41333/V90	292
29333/V90	262	41333/ARQ/V90	293
29333/ARQ/V90	263	42666/V90	294
30666	264	42666/ARQ/V90	295
30666/ARQ	265	44000/V90	296
30666/V90	266	44000/ARQ/V90	297
30666/ARQ/V90	267	45333/V90	298
32000	268	45333/ARQ/V90	299
32000/ARQ	269	46666/V90	300
32000/V90	270	46666/ARQ/V90	301
32000/ARQ/V90	271	48000/V90	302
34666	272	48000/ARQ/V90	303
34666/ARQ	273	49333/V90	304
34666/V90	274	49333/ARQ/V90	305
34666/ARQ/V90	275	50666/V90	306
36000	276	50666/ARQ/V90	307
36000/ARQ	277	52000/V90	308
36000/V90	278	52000/ARQ/V90	309
36000/ARQ/V90	279	53333/V90	310
38666	280	53333/ARQ/V90	311
38666/ARQ	281	54666/V90	312
38666/V90	282	54666/ARQ/V90	313
38666/ARQ/V90	283	56000/V90	314
40000	284	56000/ARQ/V90	315
40000/ARQ	285	57333/V90	316
40000/V90	286	57333/ARQ/V90	317

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