



U.S. ROBOTICS V.EVERYTHING RELEASE NOTES

New Features

We have added the V.90 protocol to your modem.

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 V.90 mode:

For V.90 to be	Command
Enabled (Default)	ATS58.5=0
Disabled	ATS58.5=1

For more information about bit-mapped registers, see the Command Reference, found on the *Connections* CD-Rom.

V.90

Your modem now has V.90, the ITU 56K standard. By default, V.90 is enabled on your modem.

In V.90 mode, the downstream channel is fixed at a 8000 symbol rate. The upstream channel can operate at rates of 3000, 3200 and 3429. The negotiation of symbol rates is done automatically. However, individual symbol rates can be disabled.

To disable individual rates use S-Register 54. See Appendix A, *Alphabetic Command Summary*, in the *Command Reference*, on the *Connections* CD-Rom for more information.

Connect Speeds

By setting &N and &U values, you can limit the range at which your modem with V.90 connects. See the *Command Reference* found on the *Connections* CD-Rom for more information about setting &N and &U values. The table below lists new connect speeds associated with V.90.

Link Speed	Index	Link Speed	Index
28000	17	44000	29
29333	18	45333	30
30666	19	46666	31
32000	20	48000	32
33333	21	49333	33
34666	22	50666	34
36000	23	52000	35
37333	24	53333	36
38666	25	54666	37
40000	26	56000	38
41333	27	57333	39
42666	28		



Values for &N and &U have CHANGED so that they coincide with the V.90 speeds.

New Connect Messages

The table below includes all new connect messages.

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

Message	#	Message	#
53333/V90	310	60000/ARQ	323
53333/ARQ/V90	311	60000/V90	324
54666/V90	312	60000/ARQ/V90	325
54666/ARQ/V90	313	61333	326
56000/V90	314	61333/ARQ	327
56000/ARQ/V90	315	61333/V90	328
57333/V90	316	61333/ARQ/V90	329
57333/ARQ/V90	317	62666	330
58666	318	62666/ARQ	331
58666/ARQ	319	62666/V90	332
58666/V90	320	62666/ARQ/V90	333
58666/ARQ/V90	321	64000/V90	334
60000	322	64000/ARQ/V90	335

FCC Registration

FCC15	CJE-0263	CJE-0396
FCC68	CJEUSA-73130-FA-E CJEUSA-24161-M5-E	CJEUSA-30043-MM-E
Ringer Equivalence	0.4B	0.4B

FCC Notice

The user may find the following information prepared by the Federal Communications Commission helpful:

The CIB Interference Handbook and The CIB Telephone Interference Bulletin.

These documents are available on the Internet through the FCC Compliance and Interference Bureau Home Page at <http://www.fcc.gov/cib> listed under documents. Select CIB Interference Handbook or CIB Telephone Interference Bulletin.



Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



Users should not attempt to make electrical ground connections by themselves, but should contact the appropriate inspection authority or electrician, as appropriate.

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