

COLLABORATORS								
	TITLE : FAQ for USR 28k mode	ems						
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Chapter 1

FAQ for USR 28k modems

1.1 FAQ for USR 28k modems

Informations based on MailList...

```
. Area: R-USR .....
 Msg#: 7739
                                              Date: 10-05-94 22:07
 From: Ed Reilly
                                              Read: Yes Replied: No
  To: Ray Bornstein
                                              Mark:
 Subj: 28.8 CONNECTS
-=> Quoting Ed Reilly to Ray Bornstein <=-
ER> Ray, I hate to say this, for myself even, but the USR 28,800 is PURE
ER> BS. I have read threads on Compuserve and Many local BBSs' and NOBODY
ER> can connect to ANYTHING above 19,XXX. But even worse is that NOBODY
ER> from USR will even come CLOSE to answering the problem...the only
ER> thing I can say is... FRAUD. They KEEP blaming everything else and
ER> claim to have NOTHING to do with the problem. Yet my old BOCCAMODEM
ER> 14.4 could AT LEAST CONNECT at over 19,XXX, and BOCCAMODEM was noo
ER> I have just bought the USR Sportster Data/Fax Modem V.34 with V.FC
ER> this evening. I offer a challenge to USR to PROVE this is NOT a
ER> FRAUD!!!
ER> If I'm wrong...TELL ME HOW! Anybody from USR up to it????
ER> Thanks,
ER> Ed
ER> -!-
ER> . RM 1.3 . Eval Day 11 .
ER> \star Channel 1(R) \star 617-354-3230 \star Cambridge MA \star 130 lines
ER> * PostLink(tm) v1.20 CHANNEL1 (#15) : RelayNet(tm)
. Area: HST .....
 Msq#: 32276
                                              Date: 10-08-94 15:57
                                              Read: Yes Replied: No
 From: Mark Bursky
   To: Phil Roberts
                                              Mark:
 Subj: Re: Problems
```

```
-=> Quoting Mark Bursky to Phil Roberts <=-
MB> The flashing ARQ indicator is only when I'm uploading files. When I
MB> connect to other VFC BBS's everything will go fine than all of a sudden
MB> the carrier drops. This happens on a daily basis. It seems like if the
MB> modem is receiving a lot of line noise that it would try to retrain to
MB> the next lower baud rate, but when I look at the ati6 results the baud
MB> rate is the same as when I logged on. I'm confused. Thanks for your
MB> help, I really appreciate it.
MB > -!- Xenolink 1.90
MB> ! Origin: Mouse Trap * Serving Amigas Since 1987 * 619-464-2134
MB> (1:202/122)
. Area: HST .....
 Msg#: 32515
                                             Date: 10-12-94 10:48
                                             Read: Yes Replied: No
 From: Joe Frankiewicz
  To: Gene Lowry
                                             Mark:
 Subj: HST Connects between V.34
-=> Quoting Joe Frankiewicz to Gene Lowry <=-
-> Joe "Bub", feel free to jump in any time and tell me what I'm doing
-> wrong in trying to get an HST connect between V.everythings without
-> setting B1 in the called modem.
JF> Use S56=192 S54=128 B1 on the originating side, that should do it.
JF> Joe
. Area: HST .....
 Msg#: 32446
                                            Date: 10-09-94 02:30
 From: Gene Lowry
                                             Read: Yes Replied: No
  To: Charles Johnston
 Subj: HST Connects between V.34
-=> Quoting Gene Lowry to Charles Johnston <=-
GL> Charles,
GL> You asked me some days ago to look into a problem establishing an HST
GL> connect between two V.34 Dual Standard Couriers (at least I think it
GL> was you). I finally had some time today to do some work on the problem,
GL> I also have to tell you that is wasn't pleasant.
GL> On over a dozen attempts, calling from a daughter board V.everything
GL> to my single board V.everything, I got only one connect at 16.8 HST.
GL> The rest either got a V.32 (pick your variant, mostly V.32bis) or
GL> failed to connect at all.
GL> In all cases the single board V.everything on my BBS was set to answer
GL> V.32 (B0) while I tried almost every trick in the book with the
GL> daughter board V.everything to get an HST connect.
GL> The one connect I got was with S27=4, S34=135, S56=192 and B1 set on
GL> the dialing modem. Repeated tries with the same configuration failed
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GL> to connect at all as did many other configurations I tried.
GL> Lacking two or either model to test with, I don't know that it's a
GL> pecularity of the daughter board modem, more likely a characteristic
GL> of the breed IMHO. I will be writing up a formal problem report for USR
GL> later today (read after sleep).
GL> Joe "Bub", feel free to jump in any time and tell me what I'm doing
GL> wrong in trying to get an HST connect between V.everythings without
GL> setting B1 in the called modem.
GL> Gene Lowry
GI.>
GL > -!- msged 2.07
GL> ! Origin: Bigfoot's RBBS - Tucson, AZ - HST - (8:902/1) or (1:300/11)
Msq#: 32602
                                             Date: 10-12-94 17:25
 From: Francois Roy
                                             Read: Yes Replied: No
  To: Sam Watson
                                             Mark:
 Subj: Dropped Carrier
.....
-=> Quoting Francois Roy to Sam Watson <=-
SW> just drops carrier. I do reset the modem with a AT&F1
SW> followed by a comma and some other simple setups that I have
SW> found work well.
FR> Check if one of those "other simple setups that you have found to
FR> work well" include a setting for S19. That register is an inactivity
FR> timeout; if set to a value other than 0, the modem hangs up when that
FR> many minutes elapse with no activity.
FR>
FR> -!- msgedsq 2.1
FR> ! Origin: Ready & Determined (1:163/506)
. Area: HST .....
 Msq#: 32485
                                              Date: 10-10-94 14:23
 From: Sam Watson
                                              Read: Yes Replied: No
   To: All
                                             Mark:
 Subj: Dropped Carrier
-=> Quoting Sam Watson to All <=-
SW> I have a USR V Everything on a 486sx and am using Intermail as a
SW> front end to a BBS. I have recently noticed that the modem will
SW> sometimes drop carrier if the users pauses for a min or two between
SW> receiving data and entering any information. It happens with all baud
SW> rates and configurations. It seems that if there is no data on the
SW> line for a min or two it just drops carrier. I do reset the modem with
SW> a AT&F1 followed by a comma and some other simple setups that I have
SW> found work well. The only thing is dropping carrier if the line is
SW> idle for a few min.
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SW>
SW> Any information that could be suggested would be appreciated. BTW i
SW> have the node locked at 38400 baud. I found that if I lock InterMail
SW> and the BBS software at any higher baud rate there is a problem (looks
SW> like incorrect baud rate is passed to the BBS) when the BBS loads. I
SW> have had a Zoom 28.8 VFC on this node and it would lock at the higher
SW> baud rate and transfer to the BBS at the higher baud rate. I would
SW> prefer to leave the USR 28.8 Courier on this node but due to the
SW> problems I have encountered I may have to take the USR off and put
SW> another Zoom on.
SW>
SW> Sam Watson
SW > -!- TriToss (tm) 1.03 - #78
SW> ! Origin: My House BBS Inc. * Bolingbrook IL (1:2235/175)
Msq#: 32163
                                             Date: 10-06-94 19:54
 From: Gene Lowry
                                             Read: Yes Replied: No
  To: Robert Dunnill
                                             Mark:
 Subj: Connect Speeds
-=> Quoting Gene Lowry to Robert Dunnill <=-
GL> In a message of <Oct 02 94> Robert Dunnill (1:153/968) writes:
RD> I take it Courier V.FC/V.34 28.8K connects are rare? I have only seen
RD> one in the three weeks I've had mine; usually, it's 26.4.
GL> It all depends on the quality of the telco lines you go through and
GL> the number of switches.
GL> Gene Lowry
GL>
GL > -!- msged 2.07
GL> ! Origin: Bigfoot's RBBS - Tucson, AZ - HST - (8:902/1) or (1:300/11)
. Area: HST .....
                                             Date: 10-02-94 20:51
 Msg#: 32121
 From: Robert Dunnill
                                             Read: Yes Replied: No
   To: Gene Lowry
                                             Mark:
 Subj: Connect Speeds
-=> Quoting Robert Dunnill to Gene Lowry <=-
-=> Quoting Gene Lowry to Donald Durel <=-
GL> I hate to tell you this, but this may be as good as it gets. In my
GL> experience with the V.34s, I can get a 28.8 connect if I stay within
GL> my central office. If I cross central office boundaries then 26.4 is
GL> about as it gets although they're pretty consistent. If I go long
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GL> distance, usually it's 26.4, other times 24.0. Sometimes during the
GL> day on 800 numbers as low as 21.6. Gene Lowry
RD> I take it Courier V.FC/V.34 28.8K connects are rare? I have only seen
RD> one in the three weeks I've had mine; usually, it's 26.4.
RD> ... Sorry about the crayon. They won't let me use any sharp objects.
RD> -!- FMail 0.94
RD> ! Origin: ABACUS-I BBS * Richmond B.C. 14.4V32 604-272-4311
RD> (1:153/968.0)
Msg#: 32381
                                             Date: 10-10-94 21:19
 From: Clay Tinsley
                                             Read: Yes Replied: No
   To: Jeff Archambeau
                                             Mark:
 Subj: can't connect high speed
-=> Quoting Clay Tinsley to Jeff Archambeau <=-
JA> I JUST bought a 28.8 sportster with v.everything(except 34)
JA> it's got 14.4 fax, etc. I tried calling some BBS's in the
JA> area, but have only gotten a conect of 21.6 or less. I only
JA> got the 21.6 once, and mostly 19.2 on the others. I don't
JA> know what do do! Here's my init string. Is it something in
JA> here, or what?
CT> I hope you don't expect to get 28.8 connects all the time with a
CT> 28.8 modem - it's not like a 2400b or even a 14.4 - 28.8 is pushing the
CT> phone system to the max, and connects in the 19.2-26.4 range are pretty
CT> normal.
CT> If you own your dwelling, you might check the phone wires running
CT> from your telephone line entry point, and even run new wire if what you
CT> have is old. It may help, but it also may not make any difference.
CT> Keep in mind that a 19.2 connect can get decent throughput.
CT> often see 2500-2600 cps on compressed files with 19.2 connects.
CT> -!- Msgedsq 2.2e
CT> ! Origin: Verbose Ink * 214-437-0914 * V34/VFC/V32t/H16/V32b/FAX
CT> (1:124/5125)
Msg#: 7616
                                             Date: 09-26-94 16:04
 From: Bill Garfield
                                             Read: Yes Replied: No
  To: Ray Bornstein
                                             Mark:
 Subj: 28.8 CONNECTS
-=> Quoting Bill Garfield to Ray Bornstein <=-
RB> I have a U.S.Robotics Dual Standard Courier 28.8 modem with fax and ASL.
RB> I was hoping to get some feedback from others about 28.8 and 26400
RB> connects. My connects at 28.8 and even 264000 are few and very far
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RB> between. As a matter of fact I havn't yet to connect with anyone at
BG> USR gave you good info.
BG> 28800 requires 33% more bandwidth than does 14.4 and 26400 requires
BG> 25% more bandwidth than 14.4. and 24000 requires about 15% more than
BG> 14.4 -
BG> There's more than just bandwidth that enters into the equation, but
BG> bandwidth is certainly one of the key ingrediants.
BG> -!-
BG> . OLX 3.3 . Ate yerz ago i cudent evin pernownz injuneer, now i r one
Msq#: 7944
                                             Date: 10-13-94 23:21
 From: Drew Perry
                                             Read: Yes Replied: No
   To: Technical Support/all
                                             Mark:
 Subj: 26400/28800 Connects
-=> Quoting Drew Perry to Technical Support/all <=-
DP> I recently, like many others, purchased a Sportster 28.8 which I
DP> enjoy. However I noticed that when I connect, I connect at 26400 on my
DP> end and the host system says Connect at 28.8. When I type ATI6 the
DP> connect speed is given as 26.4/28.8. I was wondering why I seem unable
DP> to get 28.8, but the host is.
DP> Drew Perry
DP> -!-
DP> * Motown - L.A. BBS * Anaheim, CA * (714)535-1319
DP> * PostLink(tm) v1.20 LABBS (#279) : RelayNet(tm)
. Area: HST .....
 Msg#: 32567
                                             Date: 10-11-94 02:28
 From: William Grinolds
                                             Read: Yes Replied: No
  To: Craiq Smith
                                             Mark:
 Subj: USR<->VFC
-=> Quoting William Grinolds to Craig Smith <=-
> I need some help. I just received my USR Courier on Wednesday. I'd like
> to
> find if there is any way to improve the connection between the USR and a
> VFC. I've noticed that the Zoom tends to get "confused" or the USR just
> off. I instructed the Zoomer to use -K0 to disable the MNP10 on his end,
> this seemed to help. I'd still like to improve the connect, though..
WG> USR's implementation of V.FC isn't quite as good as Zoom's as far as
WG> connect speed. But, of course, it is superior in that it constantly
WG> probes the line and changes speeds as necessary. On normal
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WG> voice-quality phone lines that are using the digital switching
WG> stations, don't expect a connect much higher than 21.6. Now, V.34 on
WG> the other hand, you can sometimes get 26.4 and even 28.8. It has a lot
WG> to do with how your phone lines are wired. The more direct the line
WG> (with no junction boxes, etc.) and if you use shielded wire, the
WG> better your connects will be.
WG> Bill
WG> -!-
WG> ! Origin: ST:TNG BBS, (210)509-3272[V.34] / (210)647-5366[V.32bis]
WG> (1:387/601)
Msq#: 32352
                                            Date: 10-10-94 07:14
                                            Read: Yes Replied: No
 From: Gil Mitchell
  To: Craig Smith
                                            Mark:
 Subj: USR<->VFC
-=> Quoting Gil Mitchell to Craig Smith <=-
GM> Craig Smith proclaimed in a message to All:
{\it CS>} I need some help. I just received my USR Courier on
CS> Wednesday. I'd like to find if there is any way to improve
CS> the connection between the USR and a Zoom \mbox{ VFC. I've noticed }
CS> that the Zoom tends to get "confused" or the USR just drops
CS> off. I instructed the Zoomer to use -K0 to disable the MNP10
CS> on his end, and this seemed to help. I'd still like to
CS> improve the connect, though..
GM> After 50-minutes on-line with USR tech-support; found that s27=32
GM> (disable v.42bis) was a solution here. According to the "techie" there
GM> is a problem with the handshake between USR-v.34s and Rockwell based
GM> v.FCs.
GM> CU gil
GM> OS2ing is Doing it RIGHT in Sand Springs, OK.
GM> -!-
GM> ! Origin: BSOOM!!! OS/2 Country (v.FC) 918-241-5405 (1:170/306)
Date: 10-09-94 13:01
 Msg#: 32301
                                            Read: Yes Replied: No
 From: Mark Taylor
  To: Bruce Feuchuk
                                            Mark:
 Subj: Usr ds v.34 modem
-=> Quoting Mark Taylor to Bruce Feuchuk <=-
MT> Bruce Feuchuk wrote in a message to Gene Lowry:
BF> S10=20 to S10=7
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MT> Increasing the size of your S10 register will keep YOUR modem from
MT> hanging up on a BBS caller who can't disable call-waiting. If you run a
MT> BBS, you should (IMHO) always have your S10 register set higher than
MT> the default.
MT> Mark
MT> marktaylor@vnet.ibm.com
MT > -! - timEd/2-B11
MT> ! Origin: HillTop/2 - Hamilton, IN -=USA=- (219)488-3812 (1:236/10)
Msg#: 54100
                                             Date: 10-12-94 15:50
 From: Technical Support
                                             Read: Yes Replied: No
   To: Bob Michalyshyn
                                             Mark:
 Subj: Modem Speeds
-=> Quoting Technical Support to Bob Michalyshyn <=-
-> I have a question with regards to my modems login speeds. I have a Dual Std.
-> with the V.FC , V34 upgrade and I have yet to log on to any BBS that
-> supports 28,800 V.FC or V34 including this board at the max speed. The best
-> speed I have ever gotten is 26,400. I am using Procomm Plus for
TS> Lower connect speeds are caused by noise or poor bandwidth problems on
TS> the phone line. Try removing ALL other devices from the line, like
TS> answering machines, extension phones, surge filters, etc. Try running
TS> new good-quality cable from the modem directly to the telco interface
TS> box on the outside of the house. The problem may also lie in the cable
TS> between your house and the telco office, but you'd have to contact the
TS> phone company to get that checked. Also be aware that problems at the
TS> OTHER end of the connection will also cause this. It only takes one
TS> bottleneck to slow everything down.
TS> The modem's ATI11 screen will tell you what is happening.   The SYMBOL
TS> RATE parameter is indicative of the bandwidth available. If the modem
TS> cannot achieve a symbol rate of 3200 because of poor bandwidth, you
TS> will never see anything faster than 26400. If you are getting a 3200
TS> symbol rate but the speed is slow, then the problem is good old
TS> fashioned noise.
Msg#: 54082
                                             Date: 10-12-94 15:21
                   Rec'd
                                             Read: Yes Replied: No
 From: Technical Support
   To: Chris Mcclenahan
                                             Mark:
 Subj: v.34
-=> Quoting Technical Support to Chris Mcclenahan <=-
-> I have a USR Courier Dual Standard v.FC, v.34 28.8k modem. I have had it
-> for about a month now, and I have not ONCE made a connection to another
-> 28.8k modem, even another v.34 at more than 26.4k.... I even got a short
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-> 2ft. serial cable.... still, no more than 26.4k..... what do you think the
-> problem could be? Thanks a lot-- Chris McClenahan
TS> Have you used the latest USRSDL.EXE upgrade? That may help a bit,
TS> but it sounds like your problem is in the phone lines. Try removing
TS> any answering machines, extension phones, surge filters, etc from the
TS> line. Replace any old phone jacks, jumper cords, or inside wiring.
. Area: R-USR .....
 Msg#: 7501
                                               Date: 09-19-94 16:20
 From: Bill Garfield
                                               Read: Yes Replied: No
   To: Lee Bosch
                                               Mark:
 Subj: I can't believe it!
-=> Quoting Bill Garfield to Lee Bosch <=-
      I finally figured out what my problem with hooking to the H****
LB>
LB>
     MY BLOODY PHONE WIRING POLARITY WAS REVERSED!!!
BG> Lee, if reversing polarity of the phone wires "fixed" your problem,
BG> then I rather suspect that the problem was actually either:
BG> 1. A loose or corroded connection at the NI which you of course fixed
BG> by mere accident in the course of making the wiring changes there,
BG> or
BG> 2. A polarity-sensitive phone device *other than* your modem which
BG> was -causing- line loading or impedance problems. This is why we
BG> suggest disconnecting **everything** when hunting for these
BG> ghosts.
BG> Often times the most obvious area of concern is the one frequently
BG> overlooked. This is the overvoltage/spike protector built into
BG> many of the A/C line conditioning units, uninterruptible power
BG> supplies, PC master switch control units, and the plug-in phone line
BG> protectors from Rat Shack. -START- by disconnecting these.
BG> I don't know where or how this polarity myth got going, but it's
BG> nothing more than an old wive's tale. The USR Courier modems are not
BG> polarity sensitive, period. <-- Please note the period.
BG> If reversing line polarity shows demonstrable, repeatable, conclusive,
BG> and measurable performance differences, then there is indeed a
BG> problem. Such problems would of course include the distinct possibility
BG> of a damaged/defective modem.
BG> ~~~~~~~
BG> * OLX 3.0 * HANGING: Bungee-jumping in beta trials
Date: 10-07-94 16:42
 Msq#: 7776
                    Rec'd
 From: Bill Garfield
                                               Read: Yes Replied: No
   To: Steve Ellis
                                               Mark:
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Msg#: 7756

Rec'd

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Subj: 28.8 CONNECTS
-=> Quoting Bill Garfield to Steve Ellis <=-
            I am in need of some help with my phone co and the SLC system
SE> they use. They have been out to my house on two occassions and tell me
SE> that everything is within tolerences. I am using the Sporster V.34
SE> (external) and am only able to see 19.k connects and a periodic 21.6.
SE> I have taken the modem to neighboring communities (here in St. Paul,
SE> Minnesota) and have seen 28.8 connects, so I know the modem (and my
SE> setup) is working properly.
SE>
            I'd sure appreciate any help you can give. The phone co has
SE> been very nice about it, but I get the impression they have done about
SE> all they are going to do unless I can come up with something more to
SE> tell them...
BG> Hello Steve.
BG> Usually the biggest headache with the SLC-96 (Subscriber Loop
BG> Concentrator) is poor bandwidth. The high frequencies fall off too
BG> rapidly beginning just above 3000 Hz. For the record, these things
BG> also come under many different names, including: RT (Remote Terminal),
BG> Pair Gain, Subscriber Mux (multiplexor) - it all depends on what area
BG> of the country you're in.
BG> Using USR's higher-end Courier product I've seen generally 1
BG> step better results through the "slick" than I do with the Sportster,
BG> but don't take that to the bank - it's merely my own experience. If
BG> you know someone who has one of the new Courier V. Everything modems you
BG> may want to see if you can borrow it to test this theory. It could
BG> simply be that you need a little higher tech modem to deal with the
BG> extreme limitations of the "slick".
BG> Try also disconnecting **everything** from the phone line
BG> except for your modem. - By everything, I mean exactly that - including
BG> any surge protection devices that you may have connected. There are
BG> also scattered reports that sometimes reversing the polarity of the
BG> telephone line can have an effect, though there's not much that's been
BG> offered in the way of supporting evidence. The easiest way to do this
BG> is get a second phone cord and a double female coupler. A standard
BG> telephone "silver-satin" phone cord is, by design, a crossover cable,
BG> so two of them in line together with the double female coupler should
BG> effectively reverse line polarity from what it normally is. IF THIS
BG> HELPS, then have the phone co. come back out and check your line for
BG> "balance" See if you can find out who the manufacturer of the
BG> SLC is. If it's Western Electric or AT&T, you should be able to achieve
BG> at least 24,000 bps through it on most calls. If it's an offshore
BG> brand from then results may be not as good.
BG> Keep us posted as to your results. FYI I no longer monitor
BG> Conference 0 (Main Board) on USR's support bbs - it just became too
BG> unweildy.
BG> -!-
BG> . OLX 3.3 . Tandy Corporation & Rat Shack: Creators of the 286/SX
. Area: R-USR .....
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Date: 10-07-94 06:03

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From: Steve Ellis
                                               Read: Yes Replied: No
   To: Bill Garfield
                                               Mark:
 Subj: 28.8 CONNECTS
-=> Quoting Steve Ellis to Bill Garfield <=-
SE->
->
        The phone tech said that my community uses a "SLIC 90" (or
-> something like that) system to enable them to provide service to more
JF> ARRRGGGGHHH!!!
JF> Those stupid SLIC's cause more trouble than you'd believe. Your
JF> analysis of the problem is right on the head.
JF> You might want to try leaving this info in an e-mail to a fella named
JF> BILL GARFIELD. He's not a USR employee, but he does know a few
JF> things about the SLIC box, and he might be able to give you some advice
JF> about what to tell the phone guys.
JF> FWIW, it is possible to get good connections through a SLIC, if
JF> everything is just right.
SE> Hello Bill,
SE> I am in need of some help with my phone co and the SLC system
SE> they use. They have been out to my house on two occassions and tell
SE> me that everything is within tolerences. I am using the Sporster V.34
SE> (external) and am only able to see 19.k connects and a periodic 21.6.
SE> I have taken the modem to neighboring communities (here in St. Paul,
SE> Minnesota) and have seen 28.8 connects, so I know the modem (and my
SE> setup) is working properly.
SE> I'd sure appreciate any help you can give. The phone co has
SE> been very nice about it, but I get the impression they have done about
SE> all they are going to do unless I can come up with something more to
SE> tell them...
SE> ¶p-$^1$-
SE> §
SE> (sorry about posting this in two areas, but I'm getting desperate for
SE> help)
SE> ... Gun control is hitting what you aim at.
SE> ____ Blue Wave/QWK v2.12
. Area: R-USR .....
 Msg#: 7637
                                               Date: 09-28-94 20:52
 From: Tom Devlin
                                               Read: Yes Replied: No
  To: Nilesh Agarwalla
 Subj: V.FC ONLY...NO V.34
.....
-=> Quoting Tom Devlin to Nilesh Agarwalla <=-
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NA>I can't get a v.34 connect. Only a v.FC connect...even with another USR
NA>v.34.
TD> Make sure that S54=64 and S56=0.
NA>I have the 8/26/94 code installed which was released on 9/9/94.
TD> Did you do an AT&F1&W after you installed the new code?
NA>Also...I only get 26400 v.FC connects.
TD> Read back in this conference for discussions of phone line quality.
TD> -!-
TD> * Channel 1(R) * 617-354-7077 * Cambridge MA * 100 lines
TD> * PostLink(tm) v1.20 CHANNEL1 (#15) : RelayNet(tm)
. Area: R-USR .....
 Msq#: 7618
                                                Date: 09-26-94 20:21
 From: Doug Haire
                                                Read: Yes Replied: No
   To: Ray Bornstein
                                                Mark:
 Subj: 28.8 CONNECTS
-=> Quoting Doug Haire to Ray Bornstein <=-
DH> RB|21000 connect seem to be what I am getting. I spoke with USR and
DH> they |claim that at 26400 and 28.8 requires a larger bandwidth of the
DH> phone |line clearly placing the blame on poor line conditions. AT&T
DH> is my long |distance carrier and even when I call USR it's at 24000
DH> or 21000.
DH> It's your phone line, not which carrier you use, in this case. You
DH> could test this by taking it someone else's location and using their
DH> phone line but only if you already know their phone line is good.
DH> There's not much you can do unless the problem is internal to your
DH> house/apartment. You can disconnect all other phone devices, if any,
DH> from your line and see if that helps. You can run a phone cord direct
DH> to the interface box test jack, if it's fairly accessible from a
DH> window, and see if you get an improvement. You can try a different
DH> phone cord (strangely enough, that seems to have helped a few people).
DH> You can try re-terminating your connections (they can get corroded).
DH> I am fortunate, my usual connection is 26400 with a few 28800's tossed
DH> in and a few 24000's, I rarely get worse than that.
DH> -!-
DH> . SLMR 2.1a #40 . Cruising the Information Superhighway in a '47
DH> DeSoto. * Telephone Exchange 407-791-2474 V.32bis ZyXel 19200!
DH> * PostLink(tm) v1.20 TELEPHNE (#222) : RelayNet(tm)
. Area: R-USR ......
 Msq#: 7617
                                                Date: 09-26-94 22:08
 From: Bill Garfield
                                                Read: Yes Replied: No
   To: Ray Bornstein
                                                Mark:
 Subj: 28.8 CONNECTS
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-=> Quoting Bill Garfield to Ray Bornstein <=-BG> Expecting 28,800 bps? Your results may vary. BG> If you find that you're unable to achieve full speed 28,800 bps BG> connections or your modem sometimes behaves erratically, the reason is BG> possibly a phone line problem. Either insufficient bandwidth, poor BG> signal to noise ratio, or an imbalance in the phone lines... either BG> yours, the phone lines of the system you are calling, or in the lines BG> and telephone switching equipment anywhere along the way. BG> Here are the minimums: BG> ^^^^^ BG> 28,800 bps V.FC/V.34 -REQUIRES- 3200 Hz bandwidth, from 320 - 3520 Hz. BG> 26,400 bps V.FC/V.34 -REQUIRES- 3000 Hz bandwidth, from 375 - 3375 Hz. BG> 24,000 bps V.FC/V.34 -REQUIRES- 2800 Hz bandwidth, from 467 - 3267 Hz. BG> by contrast.. BG> A 21,600/19,200/16,800 link requires a usable bandwidth of only 2400 BG> Hz, from 600 - 3000 Hz. This is the same amount required for V32 & BG> V32-bis (4800, 9600 & 14,400). BG> Alas, while most U.S. domestic phone lines can easily support the BG> requirements of 9600/V.32 and 14400/V.32 bis, some may not have BG> the technical parameters necessary to support V.FC and V.34 at BG> *FULL* speed. This, in a nutshell, is what you (and some others) may BG> be experiencing. BG> Compared to V.32 & V.32 bis, 28,800 bps requires 33% more bandwidth, BG> 26,400 bps requires 25% more bandwidth and 24,000 bps needs 17% more BG> bandwidth. This additional bandwidth *MUST* be there from end to end, BG> from one modem to the other. Either you have it or you don't, and BG> your modem is telling you by its performance. BG> As the domestic telephone companies race to install fiber optic BG> cables, the bandwidth situation should gradually improve. Until BG> then... BG> ***** * There ARE several things you can -try- for improving at home BG> modeming: * * Go throughout the house and disconnect -ALL- telephonic BG> devices attached * * to the phone line. This includes extension BG> phones, answering machines, \star * fax machines, caller-id boxes, BG> line-in-use indicators, cordless phone * * base units, demon BG> dialers, and voltage spike protectors or line filters ** like those BG> commonly found in PC Desktop master-switch power directors BG> power line conditioning units. If you find that any of this helps, BG> \star then start plugging things back in one by one until the culprit is BG> * * identified. It may even be a combination of things. BG> * * If your telephone wiring is a rat's nest and/or BG> you've strung some * * extension lines yourself and not used BG> genuine telephone-type wiring, * * consider having a professional BG> replace your haywired additions. Your * * telephone wiring should BG> also be WELL AWAY FROM the A/C power wiring in * * walls & ceilings. BG> *

BG> * OLX 3.0 * HANGING: Bungee-jumping in beta trials